



The *bidi Package*

Source documentation for version 25.09.30

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

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The *bid* Package

Bidirectional typesetting with plain $\text{T}_{\text{E}}\text{X}$ and $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$
formats in XeTeX and LuaTeX engines

Source documentation for version 25.09.30

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September 30, 2025

Contents

1	File <code>amsart-xetex-bidi.def</code>	5	18	File <code>beamerbasecompatibility-xetex-bidi.def</code>	44
2	File <code>adjmulticol-xetex-bidi.def</code>	7	19	File <code>beamerbaseframecomponents-xetex-bidi.def</code>	44
3	File <code>algorithm2e-xetex-bidi.def</code>	8	20	File <code>beamerbaseframesize-xetex-bidi.def</code>	52
4	File <code>amsbook-xetex-bidi.def</code>	9	21	File <code>beamerbaselocalstructure-xetex-bidi.def</code>	54
5	File <code>amsmath-xetex-bidi.def</code>	11	22	File <code>beamerbasemisc-xetex-bidi.def</code>	56
6	File <code>amstext-xetex-bidi.def</code>	11	23	File <code>beamerbasenavigation-xetex-bidi.def</code>	56
7	File <code>amsthm-xetex-bidi.def</code>	12	24	File <code>beamerbaseoverlay-xetex-bidi.def</code>	58
8	File <code>array-xetex-bidi.def</code>	12	25	File <code>beamerinnerthemedefault-xetex-bidi.def</code>	58
9	File <code>article-xetex-bidi.def</code>	13	26	File <code>beamerinnerthemecircles-xetex-bidi.def</code>	62
10	File <code>artikel1-xetex-bidi.def</code>	17	27	File <code>beamerinnerthemefocus-xetex-bidi.def</code>	62
11	File <code>artikel2-xetex-bidi.def</code>	22	28	File <code>beamerinnerthemeinmargin-xetex-bidi.def</code>	63
12	File <code>artikel3-xetex-bidi.def</code>	27	29	File <code>beamerinnerthememetropolis-xetex-bidi.def</code>	65
13	File <code>arydshln-xetex-bidi.def</code>	31	30	File <code>beamerinnerthemerectangles-xetex-bidi.def</code>	67
14	File <code>beamer-xetex-bidi.def</code>	34	31	File <code>beamerinnerthemrounded-xetex-bidi.def</code>	68
15	File <code>beamerbaseauxtemplates-xetex-bidi.def</code>	32	31	File <code>beamerouterthemedefault-xetex-bidi.def</code>	68
16	File <code>beamerbaseboxes-xetex-bidi.def</code>	40	32	File <code>beamerouterthemefocus-xetex-bidi.def</code>	69
17	File <code>beamerbasecolor-xetex-bidi.def</code>	42	34	File <code>beamerouterthemeinfolines-xetex-bidi.def</code>	71

*Thanks to the `bid`-tex GitHub organization consisted of David Carlisle and other members of the $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ team for maintaining the package in the period 2018–2020.

95	File fnpct-xetex-bidi.def	275	125	File ntheorem-xetex-bidi.def	352
96	File footnote-xetex-bidi.def	275	126	File ntheorem-hyper-xetex-bidi.def	352
97	File footnotebackref-xetex-bidi.def	282	127	File overpic-xetex-bidi.def	352
98	File framed-xetex-bidi.def	283	128	File pdfbase-xetex-bidi.def	353
99	File ftnright-xetex-bidi.def	286	129	File pdfscape-xetex-bidi.def	354
100	File graphicx-xetex-bidi.def	291	130	File pgfcorescopes.code-xetex-bidi.def	354
101	File geometry-xetex-bidi.def	293	131	File pgfsys-xetex-bidi.def	355
102	File hgeneric-testphase-xetex-bidi.def	294	132	File picinpar-xetex-bidi.def	355
103	File hvfloat-xetex-bidi.def	299	133	File plain-xetex-bidi.def	358
104	File hyperref-xetex-bidi.def	304	134	File pstricks-xetex-bidi.def	360
105	File imsproc-xetex-bidi.def	316	135	File quotchap-xetex-bidi.def	360
106	File leqno-xetex-bidi.def	317	136	File ragged2e-xetex-bidi.def	361
107	File letter-xetex-bidi.def	317	137	File rapport1-xetex-bidi.def	363
108	File lettrine-xetex-bidi.def	318	138	File rapport3-xetex-bidi.def	367
109	File lineno-xetex-bidi.def	318	139	File refrep-xetex-bidi.def	373
110	File listings-xetex-bidi.def	319	140	File report-xetex-bidi.def	376
111	File longtable-xetex-bidi.def	321	141	File rotating-xetex-bidi.def	380
112	File lscape-xetex-bidi.def	324	142	File scrartcl-xetex-bidi.def	382
113	File mathtools-xetex-bidi.def	325	143	File scrbook-xetex-bidi.def	396
114	File mdframed-xetex-bidi.def	325	144	File scrreprt-xetex-bidi.def	410
115	File media9-xetex-bidi.def	327	145	File sidecap-xetex-bidi.def	424
116	File bidi-media9.sty	327	146	File soul-xetex-bidi.def	425
117	File memoir-xetex-bidi.def	338	147	File stabular-xetex-bidi.def	426
118	File midfloat-xetex-bidi.def	341	148	File subfigure-xetex-bidi.def	427
119	File minitoc-xetex-bidi.def	345	149	File tabs-xetex-bidi.def	427
120	File multicol-xetex-bidi.def	346	150	File tabularx-xetex-bidi.def	427
121	File multienum-xetex-bidi.def	349	151	File tabulary-xetex-bidi.def	429
122	File natbib-xetex-bidi.def	350	152	File tc-xetex-xetex-bidi.def	429
123	File newfloat-xetex-bidi.def	351	153	File tcolorbox-xetex-bidi.def	430
124	File nicematrix-xetex-bidi.def	351	154	File thmbox-xetex-bidi.def	430



155	File titlesec-xetex-bidi.def	431	161	File todonotes-xetex-bidi.def	459
156	File titletoc-xetex-bidi.def	431	162	File wrapfig-xetex-bidi.def	461
157	File tocbibind-xetex-bidi.def	432	163	File xcolor-xetex-bidi.def	463
158	File tocloft-xetex-bidi.def	434	164	File latex-xetex-bidi.def	465
159	File tocbasic-xetex-bidi.def	440	165	File xltextra-xetex-bidi.def	482
160	File tocstyle-xetex-bidi.def	454	166	Index	482



1 File amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2025/09/30 v1.2 bidi adaptations for amsart class for
2 \def\@tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
13    \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17    \endgroup
18  \fi}
19 \renewcommand\thesubsection    {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph    {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@\{\linespacing\@plus\linespacing\}.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \nointerlineskip
29   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
30   \kern1\p@\kern-\footnotesep}
31 \def\left@footnoterule{\kern-.4\p@
32   \hrule\@width 5pc\kern1\p@\kern-\footnotesep}
33
34
35 \long\def\@footnotetext#1{%
36   \insert\footins{%
37     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
38     \reset@font%
39     \bidi@footnotetext@font% \normalfont\footnotesize
40     \interlinepenalty\interfootnotelinepenalty
41     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
42     \floatingpenalty\@MM \hsize\columnwidth
43     \@parboxrestore \parindent\normalparindent \sloppy
44     \protected@edef\@currentlabel{%
45       \csname p@footnote\endcsname\@thefnmark}%
46     \@makefntext{%
47       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}}
48
49 \long\def\@RTLfootnotetext#1{%
50   \insert\footins{%
51     \@RTLtrue%
52     \reset@font%
```



```

53 \bidi@RTLfootnotetext@font% \normalfont\footnotesize
54 \interlinepenalty\interfootnotelinepenalty
55 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
56 \floatingpenalty\@MM \hsize\columnwidth
57 \@parboxrestore \parindent\normalparindent \sloppy
58 \protected@edef\@currentlabel{%
59 \csname p@footnote\endcsname\@thefnmark}%
60 \@makefntext{%
61 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
62
63
64
65 \long\def\@LTRfootnotetext#1{%
66 \insert\footins{%
67 \RTLfalse%
68 \reset@font%
69 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
70 \interlinepenalty\interfootnotelinepenalty
71 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
72 \floatingpenalty\@MM \hsize\columnwidth
73 \@parboxrestore \parindent\normalparindent \sloppy
74 \protected@edef\@currentlabel{%
75 \csname p@footnote\endcsname\@thefnmark}%
76 \@makefntext{%
77 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
78
79
80 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
81 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
82 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
83
84 \renewenvironment{thebibliography}[1]{%
85 \@bibtitlestyle
86 \normalfont\bibliofont\labelsep .5em\relax
87 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
88 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
89 \bidi@thebibliography@font@hook%
90 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
91 \leftmargin\labelwidth \advance\leftmargin\labelsep
92 \usecounter{enumiv}}%
93 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
94 \sfcode\.\@m
95 }{%
96 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
97 \endlist
98 }
99 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
100 \columnseprule\z@ \columnsep 35\p@
101 \@indextitlestyle
102 \thispagestyle{plain}%
103 \let\item\@idxitem
104 \parindent\z@ \parskip\z@\@plus.3\p@\relax
105 \if@RTL\raggedleft\else\raggedright\fi
106 \hyphenpenalty\@M

```



```

107 \footnotesize}
108 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
109 \def\@subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
110 \def\@subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
111 \def\maketitle{\par
112 \@topnum\z@ % this prevents figures from falling at the top of page 1
113 \@setcopyright
114 \thispagestyle{firstpage}% this sets first page specifications
115 \uppercase\nonmath\shorttitle
116 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
117 \else \andify\shortauthors
118 \fi
119 \@maketitle@hook
120 \begingroup
121 \@maketitle
122 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
123 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
124 \edef\@tempa{%
125 \@nx\markboth{\the\toks4
126 \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
127 \@tempa
128 \endgroup
129 \c@footnote\z@
130 \cleartopmattertags
131 }

```

2 File adjmulticol-xetex-bidi.def

```

132 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol]
133 \def\adjmulticols#1#2#3{\col@number#1\relax
134 \def\@tempa{#2}%
135 \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
136 \def\@tempa{#3}%
137 \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
138 \ifnum\col@number<\@ne
139 \PackageWarning{adjmulticol}%
140 {Using '\number\col@number'
141 columns doesn't seem a good idea.^^J
142 I therefore use one columns instead}%
143 \col@number\@ne\fi
144 \ifnum\col@number>10
145 \PackageError{adjmulticol}%
146 {Too many columns}%
147 {Current implementation doesn't
148 support more than 10 columns.%
149 \MessageBreak
150 I therefore use 10 columns instead}%
151 \col@number10 \fi
152 \ifx\@footnotetext\mult@footnotetext\else
153 \let\orig@footnotetext\@footnotetext
154 \let\@footnotetext\mult@footnotetext
155 \fi
156 \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
157 \let\orig@LTRfootnotetext\@LTRfootnotetext

```




```

158     \let\@LTRfootnotetext\mult@LTRfootnotetext
159     \fi
160     \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
161         \let\@orig@RTLfootnotetext\@RTLfootnotetext
162         \let\@RTLfootnotetext\mult@RTLfootnotetext
163     \fi
164     \@ifnextchar[\@adjmult@cols{\@adjmult@cols[]}]
165 \let\@adjmc@page@sofar@orig=\page@sofar

```

3 File algorithm2e-xetex-bidi.def

```

166 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e
167 \expandafter\ifx\csname algocf@within\endcsname\relax% if \algocf@within doesn't exist
168 \else%
169     \renewcommand\thealgocf{\csname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
170 \fi
171 \ApplyPatchIfPackageLoadedF{color}{%
172     \bidi@patchcmd{\@algocf@start}{\bgroup}{%
173         \bgroup
174         \if@RTL
175             \beginR
176         \else
177             \beginL
178         \fi
179     }{}{}
180     \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
181         \if@RTL
182             \endR
183         \else
184             \endL
185         \fi
186         \egroup
187         \end{lrbox}%
188     }{}{}
189     \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
190         \if@RTL
191             \hboxR
192         \else
193             \hboxL
194         \fi
195     }{}{}
196 }
197
198 \@ifpackagewith{algorithm2e}{algonl}{%
199     \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{
200 }{}
201
202 \@ifpackagewith{algorithm2e}{algopart}{\renewcommand{\algocf@within}{part}}{}
203
204 \@ifpackagewith{algorithm2e}{alگوchapter}{\renewcommand{\algocf@within}{chapter}}{}
205
206 \@ifpackagewith{algorithm2e}{alگوsection}{\renewcommand{\algocf@within}{section}}{}

```



4 File amsbook-xetex-bidi.def

```
207 \ProvidesFile{amsbook-xetex-bidi.def}[2025/09/30 v1.3 bidi adaptations for amsbook class fo
208 \def\@tocline#1#2#3#4#5#6#7{\relax
209   \ifnum #1>\c@tocdepth % then omit
210   \else
211     \par \addpenalty\@secpenalty\addvspace{#2}%
212     \begingroup \hyphenpenalty\@M
213     \ifempty{#4}{%
214       \@tempdima\csname r@tocindent\number#1\endcsname\relax
215     }{%
216       \@tempdima#4\relax
217     }%
218     \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
219     \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
220     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
221     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
222     \nobreak
223     \endgroup
224   \fi}
225 \renewcommand\thesubsection   {\thesection\@SepMark\arabic{subsection}}
226 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
227 \renewcommand\theparagraph   {\thesubsubsection\@SepMark\arabic{paragraph}}
228 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
229 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
230   \columnseprule\z@ \columnsep 35\p@
231   \@indextitlestyle
232   \thispagestyle{plain}%
233   \let\item\@idxitem
234   \parindent\z@ \parskip\z@\@plus.3\p@\relax
235   \if@RTL\raggedleft\else\raggedright\fi
236   \hyphenpenalty\@M
237   \footnotesize}
238 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
239 \def\@subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
240 \def\@subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
241 \def\right@footnoterule{%
242   \kern-.4\p@
243   \nointerlineskip
244   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
245   \kern11\p@\kern-\footnotesep}
246 \def\left@footnoterule{\kern-.4\p@
247   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
248
249 \long\def\@footnotetext#1{%
250   \insert\footins{%
251     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
252     \reset@font%
253     \bidi\@footnotetext@font% \normalfont\footnotesize
254     \interlinepenalty\interfootnotelinepenalty
255     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
256     \floatingpenalty\@MM \hsize\columnwidth
257     \@parboxrestore \parindent\normalparindent \sloppy
258     \protected@edef\@currentlabel{%
```



```

259     \csname p@footnote\endcsname\@thefnmark}%
260 \makefnfntext{%
261     \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
262
263 \long\def\@RTLfootnotetext#1{%
264     \insert\footins{%
265         \@RTLtrue%
266         \reset@font%
267         \bidi@RTLfootnotetext@font% \normalfont\footnotesize
268         \interlinepenalty\interfootnotelinepenalty
269         \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
270         \floatingpenalty\@MM \hsize\columnwidth
271         \@parboxrestore \parindent\normalparindent \sloppy
272         \protected@edef\@currentlabel{%
273             \csname p@footnote\endcsname\@thefnmark}%
274         \makefnfntext{%
275             \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
276
277
278 \long\def\@LTRfootnotetext#1{%
279     \insert\footins{%
280         \@RTLfalse%
281         \reset@font%
282         \bidi@LTRfootnotetext@font% \normalfont\footnotesize
283         \interlinepenalty\interfootnotelinepenalty
284         \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
285         \floatingpenalty\@MM \hsize\columnwidth
286         \@parboxrestore \parindent\normalparindent \sloppy
287         \protected@edef\@currentlabel{%
288             \csname p@footnote\endcsname\@thefnmark}%
289         \makefnfntext{%
290             \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
291
292
293
294 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
295 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
296 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
297
298 \renewenvironment{thebibliography}[1]{%
299     \@bibtitlestyle
300     \normalfont\bibliofont\labelsep .5em\relax
301     \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
302     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
303     \bidi@thebibliography@font@hook%
304     \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
305         \leftmargin\labelwidth \advance\leftmargin\labelsep
306         \usecounter{enumiv}}%
307     \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
308     \sfcode\.\@m
309 }{%
310     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
311     \endlist
312 }

```



```

313 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
314 \begingroup
315 \fontsize{\@xivpt}{18}\bfseries\centering
316 \ifnum\c@secnumdepth>\m@ne
317 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
318 \rlap{\vbox to\z@{\vss
319 \centerline{\normalsize\mdseries
320 \uppercase\@xp{\chaptername}\enspace\thechapter}
321 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
322 #1\par \endgroup
323 \skip@34\p@ \advance\skip@-\normalbaselineskip
324 \vskip\skip@ }
325 \def\maketitle{\par
326 \@topnum\z@ % this prevents figures from falling at the top of page 1
327 \begingroup
328 \@maketitle
329 \endgroup
330 \c@footnote\z@
331 \def\do##1{\let##1\relax}%
332 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
333 \do\author \do\@xauthor \do\address \do\@xaddress
334 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
335 \do\dedicatory \do\@dedicatory \do\thanks \do\@thankses
336 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
337 }

```

5 File amsmath-xetex-bidi.def

```

338 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package
339 \let\veqno=\eqno
340 \iftagsleft@ \let\veqno=\leqno \fi
341 \renewcommand{\numberwithin}[3][\arabic]{%
342 \ifundefined{c@#2}{\@nocounterr{#2}}{%
343 \ifundefined{c@#3}{\@nocnterr{#3}}{%
344 \addtoreset{#2}{#3}%
345 \@xp\xdef\csname the#2\endcsname{%
346 \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
347 }
348 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi}(\kern\z@\ignorespaces#1\unskip\@italicc
349
350 \bidi@patchcmd\math@cr@@@align\place@tag{%
351 \place@tag
352 \else
353 \place@tag
354 }{}{}
355

```

6 File amstext-xetex-bidi.def

```

356 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package
357 \def\textdef@#1#2#3{\hbox{%
358 \everymath{#1}%
359 \let\fontsize#2\selectfont
360 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}

```



7 File amsthm-xetex-bidi.def

```
361 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
362 \def\@thmcountersep{\@SepMark}
```

8 File array-xetex-bidi.def

```
363 \ProvidesFile{array-xetex-bidi.def}[2025/09/11 v0.7 bidi adaptations for array package for
364 \def\@testpach{\@chclass
365 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
366 \ifnum \@lastchclass=7 5 \else
367 \ifnum \@lastchclass=8 \tw@ \else
368 \ifnum \@lastchclass=9 \thr@@
369 \else \z@
370 \ifnum \@lastchclass = 10 \else
371 \edef\@nextchar{\expandafter\string\@nextchar}%
372 \@chnum
373 \if \@nextchar c\z@ \else
374 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
375 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
376 \z@ \@chclass
377 \if \@nextchar |\@ne \else
378 \if \@nextchar !6 \else
379 \if \@nextchar @7 \else
380 \if \@nextchar <8 \else
381 \if \@nextchar >9 \else
382 10
383 \@chnum
384 \if \@nextchar m\thr@@ \else
385 \if \@nextchar p4 \else
386 \if \@nextchar b5 \else
387 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
388 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
389 \def\@tabular{%
390 \leavevmode
391 \UseTaggingSocket{tbl/hmode/begin}%
392 \hbox \bgroup\if@RTLtab\beginR \fi
393 \MathCollectFalse$\MathCollectTrue
394 \col@sep\tabcolsep \let\d@llarbegin\beginngroup
395 \let\d@llarend\endngroup
396 \@kernel@tabular@init
397 \@tabarray}
398 \def\endtabular{\endarray\m@th $\if@RTLtab\endR\fi\egroup
399 \UseTaggingSocket{tbl/hmode/end}%
400 }
401 \expandafter\let\csname endtabular*\endcsname=\endtabular
402 \ExplSyntaxOn
403 \def\@array[#1]#2{
404 \@tempdima \ht \strutbox
405 \advance \@tempdima by\extrarowheight
406 \setbox \@arstrutbox \hbox{\vrule
407 \@height \arraystretch \@tempdima
408 \@depth \arraystretch \dp \strutbox
409 \@width \z@}%
```



```

410 \tbl_save_outer_table_cols:
411 \begingroup
412 \@mkpream{#2}%
413 \tbl_count_table_cols:
414 \xdef\@preamble{
415   \noexpand \ar@ialign
416   \@halignto
417   \bgroup \@arstrut
418   \UseTaggingSocket{tbl/row/begin}
419   \tbl_init_cell_data_for_row:
420   \@preamble
421   \tabskip \z@ \cr}
422 \endgroup
423 \@arrayleft
424 \if #1\vtop \else \if#1b\vbox \else \vcenter \fi \fi
425 \bgroup
426 \let \@sharp ##\let \protect \relax
427 \lineskip \z@
428 \baselineskip \z@
429 \mathsurround \z@
430 \let\\\@arraycr \let\@tabularnewline\\\let\par\@empty
431 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1\vtop \else \vbox \fi\bgroup\fi
432 \UseTaggingSocket{tbl/init}
433 \@preamble
434 }
435 \let\@array\@array
436 \def\endarray {
437   \tbl_crcr:n{endarray}
438   \tag_socket_use_expandable:n { math/luamml/array/save }
439   \egroup
440   \tag_socket_use:n { tbl/finalize }
441   \tbl_restore_outer_cell_data:
442   \if@RTLtab\egroup\endR\egroup\fi
443   \egroup
444   \tag_socket_use:n { math/luamml/array/finalize }
445   \@arrayright \gdef\@preamble{}%
446 }
447 \def\array{\col@sep\arraycolsep
448   \def\d@llarbegin{${\tag_socket_use:n { math/luamml/array/initcol }}
449   \def\d@llarend
450   {
451     \tag_socket_use:nn { math/luamml/save/nn }{{}{mtd}}
452     $
453     \tag_socket_use:nn { math/luamml/array/finalizecol}{\the\@chnum}
454   }
455   \def\@halignto{}%
456   \@RTLtabfalse
457   \@tabarray}
458 \ExplSyntaxOff

```

9 File article-xetex-bidi.def

```

459 \ProvidesFile{article-xetex-bidi.def}[2025/09/30 v1.2 bidi adaptations for standard article]
460 \IfClassLoadedT{svmult}{\endinput}

```



```

461 \if@titlepage
462 \renewcommand\maketitle{\begin{titlepage}%
463 \let\footnotesize\small
464 \let\right@footnoterule\relax
465 \let\left@footnoterule\relax
466 \let\textwidth@footnoterule\relax
467 \let \footnote \thanks
468 \let \LTRfootnote \LTRthanks
469 \let \RTLfootnote \RTLthanks
470 \null\vfil
471 \vskip 60\p@
472 \begin{center}%
473 {\LARGE \@title \par}%
474 \vskip 3em%
475 {\large
476 \lineskip .75em%
477 \begin{tabular}[t]{c}%
478 \@author
479 \end{tabular}\par}%
480 \vskip 1.5em%
481 {\large \@date \par}% % Set date in \large size.
482 \end{center}\par
483 \@thanks
484 \vfil\null
485 \end{titlepage}%
486 \setcounter{footnote}{0}%
487 \global\let\thanks\relax
488 \global\let\LTRthanks\relax
489 \global\let\RTLthanks\relax
490 \global\let\maketitle\relax
491 \global\let\@thanks\@empty
492 \global\let\@author\@empty
493 \global\let\@date\@empty
494 \global\let\@title\@empty
495 \global\let\title\relax
496 \global\let\author\relax
497 \global\let\date\relax
498 \global\let\and\relax
499 }
500 \else
501 \renewcommand\maketitle{\par
502 \begingroup
503 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
504 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
505 \long\def\@makefntext##1{\parindent 1em\noindent
506 \hb@xt@1.8em{%
507 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
508 \if@twocolumn
509 \ifnum \col@number=\@ne
510 \maketitle
511 \else
512 \twocolumn[\maketitle]%
513 \fi
514 \else

```



```

515     \newpage
516     \global\@topnum\z@    % Prevents figures from going at top of page.
517     \@maketitle
518     \fi
519     \thispagestyle{plain}\@thanks
520 \endgroup
521 \setcounter{footnote}{0}%
522 \global\let\thanks\relax
523 \global\let\LTRthanks\relax
524 \global\let\RTLthanks\relax
525 \global\let\maketitle\relax
526 \global\let\@maketitle\relax
527 \global\let\@thanks\@empty
528 \global\let\@author\@empty
529 \global\let\@date\@empty
530 \global\let\@title\@empty
531 \global\let\title\relax
532 \global\let\author\relax
533 \global\let\date\relax
534 \global\let\and\relax
535 }
536 \def\@maketitle{%
537     \newpage
538     \null
539     \vskip 2em%
540     \begin{center}%
541     \let \footnote \thanks
542     \let \LTRfootnote \LTRthanks
543     \let \RTLfootnote \RTLthanks
544     {\LARGE \@title \par}%
545     \vskip 1.5em%
546     {\large
547     \lineskip .5em%
548     \begin{tabular}[t]{c}%
549     \@author
550     \end{tabular}\par}%
551     \vskip 1em%
552     {\large \@date}%
553     \end{center}%
554     \par
555     \vskip 1.5em}
556 \fi
557 \renewcommand*\l@part[2]{%
558     \ifnum \c@tocdepth >-2\relax
559     \addpenalty\@secpenalty
560     \addvspace{2.25em \@plus\p@}%
561     \setlength\@tempdima{3em}%
562     \begin{group}
563     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
564     \parfillskip -\@pnumwidth
565     {\leavevmode
566     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
567     \nobreak
568     \if@compatibility

```




```

569     \global\@nobeaktrue
570     \everypar{\global\@nobeakfalse\everypar{}}%
571     \fi
572   \endgroup
573 \fi}
574 \renewcommand*\l@section[2]{%
575   \ifnum \c@tocdepth >\z@
576     \addpenalty\@secpenalty
577     \advvspace{1.0em \@plus\p@}%
578     \setlength\@tempdima{1.5em}%
579     \begingroup
580       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
581       \parfillskip -\@pnumwidth
582       \leavevmode \bfseries
583       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
584       \hskip -\if@RTL\rightskip\else\leftskip\fi
585       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
586     \endgroup
587   \fi}
588 \renewcommand\left@footnoterule{%
589   \kern-3\p@
590   \hrule\@width.4\columnwidth
591   \kern2.6\p@}
592 \renewcommand\right@footnoterule{%
593   \kern-3\p@
594   \nointerlineskip
595   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
596   \kern2.6\p@}
597 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
598 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
599 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
600 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
601 \ApplyPatchIfPackageLoaded{nameref}{%
602   \bidi@patchcmd\NR@part\raggedright{%
603     \if@RTL\raggedleft\else\raggedright\fi
604   }{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}%
605   \bidi@patchcmd\NR@spart\raggedright{%
606     \if@RTL\raggedleft\else\raggedright\fi
607   }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
608 }{%
609   \bidi@patchcmd\@part\raggedright{%
610     \if@RTL\raggedleft\else\raggedright\fi
611   }{\bidi@warningnoline{Oops! patching `string\@part' failed}}%
612   \bidi@patchcmd\@spart\raggedright{%
613     \if@RTL\raggedleft\else\raggedright\fi
614   }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
615 }
616 \renewenvironment{thebibliography}[1]
617   {\section*{\refname}%
618   \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
619   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
620   \bidi@thebibliography@font@hook%
621   \list{\@biblabel{\@arabic\c@enumiv}}%
622   {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

623         \leftmargin\labelwidth
624         \advance\leftmargin\labelsep
625         \@openbib@code
626         \usecounter{enumiv}%
627         \let\p@enumiv\@empty
628         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
629     \sloppy
630     \clubpenalty4000
631     \@clubpenalty \clubpenalty
632     \widowpenalty4000%
633     \sfcode`. \m}
634 {\def\@noitemerr
635  {\@latex@warning{Empty `thebibliography' environment}}%
636  \endlist}
637 \renewenvironment{theindex}
638     {\if@twocolumn
639      \@restonecolfalse
640      \else
641      \@restonecoltrue
642      \fi
643      \columnseprule \z@
644      \columnsep 35\p@
645      \twocolumn[\section*{\indexname}]}%
646      \@mkboth{\MakeUppercase\indexname}%
647              {\MakeUppercase\indexname}%
648      \thispagestyle{plain}\parindent\z@
649      \parskip\z@ \@plus .3\p@\relax
650      \let\item\@idxitem}
651      {\if@restonecol\onecolumn\else\clearpage\fi}

```

10 File artikel1-xetex-bidi.def

```

652 \ProvidesFile{artikel1-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for artikel1 class
653 \renewenvironment{theindex}{%
654     \if@twocolumn
655     \@restonecolfalse
656     \else
657     \@restonecoltrue
658     \fi
659     \columnseprule \z@
660     \columnsep 35\p@
661     \twocolumn[\section*{\indexname}]}%
662     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
663     \thispagestyle{plain}\parindent\z@
664     \parskip\z@ \@plus .3\p@\relax
665     \let\item\@idxitem
666     }{%
667     \if@restonecol\onecolumn\else\clearpage\fi}
668 \renewcommand*{\head@style}{%
669     \interlinepenalty \@M
670     \hyphenpenalty=\@M \exhyphenpenalty=\@M
671     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
672 \if@titlepage
673 \renewenvironment{abstract}{%

```



```

674     \titlepage
675     \null\vfil
676     \section*{\SectFont\abstractname}
677     \noindent\ignorespaces}
678     {\par\vfil\null\endtitlepage}
679 \else
680 \renewenvironment{abstract}{%
681     \if@twocolumn
682     \section*{\abstractname}%
683     \else
684     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
685     \section*{\small\SectFont\abstractname}%
686     \noindent\ignorespaces
687     \fi}
688     {\if@twocolumn\else\par\egroup\fi}
689 \fi
690 \renewcommand*\@regtocline[3]{%
691     \ifnum #1>\c@tocdepth
692     \else
693     \vskip\z@\@plus.2\p@
694     {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
695     \if@RTL\rightskip\else\leftskip\fi\unitindent
696     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
697     \parfillskip\z@
698     \@tempdima\unitindent
699     \parindent\z@
700     \leavevmode
701     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
702     \hskip 1em \nobreak{\slshape #3}\par
703     }%
704     \fi}
705 \if@oldtoc
706 \renewcommand*\l@part[2]{%
707     \ifnum \c@tocdepth >-2\relax
708     \addpenalty\@secpenalty
709     \addvspace{2.25em \@plus\p@}%
710     \begingroup
711     \setlength\@tempdima{3em}%
712     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
713     \parfillskip -\@pnumwidth
714     {\leavevmode
715     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
716     \nobreak
717     \if@compatibility
718     \global\@nobreaktrue
719     \everypar{\global\@nobreakfalse\everypar{}}%
720     \fi
721     \endgroup
722     \fi}
723 \else
724 \renewcommand*\l@part{%
725     \ifnum \c@tocdepth >-2\relax
726     \addpenalty\@secpenalty
727     \addvspace{2.25em \@plus \p@}%

```



```

728     \@regtocline{0}%
729     \fi}
730 \fi
731 \if@oldtoc
732 \renewcommand*\l@section[2]{%
733     \addpenalty\@secpenalty
734     \advvspace{1.0em \@plus\p@}%
735     \setlength\@tempdima{1.5em}%
736     \begingroup
737     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
738     \parfillskip -\@pnumwidth
739     \leavevmode \bfseries
740     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
741     \hskip -\if@RTL\rightskip\else\leftskip\fi
742     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
743     \endgroup}
744 \else
745     \renewcommand*\l@section{\@regtocline{1}}
746 \fi
747 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
748 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
749 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
750 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
751 \renewenvironment{thebibliography}[1]
752     {\section*\refname}%
753     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
754     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
755     \bidi@thebibliography@font@hook%
756     \list{\@biblabel{\@arabic\c@enumiv}}%
757         {\settowidth\labelwidth{\@biblabel{#1}}%
758         \leftmargin\labelwidth
759         \advance\leftmargin\labelsep
760         \@openbib@code
761         \usecounter{enumiv}%
762         \let\p@enumiv\@empty
763         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
764     \sloppy\clubpenalty4000\widowpenalty4000%
765     \sfcode`. \@m}
766     {\def\@noitemerr
767         {\@latex@warning{Empty `thebibliography' environment}}%
768     \endlist}
769 \renewcommand*\left@footnoterule{%
770     \kern-3\p@
771     \kern.5\baselineskip
772     \hrule\@width\unitindent
773     \kern.4\baselineskip
774 }
775 \renewcommand*\right@footnoterule{%
776     \kern-3\p@
777     \kern.5\baselineskip
778     \nointerlineskip
779     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
780     \kern.4\baselineskip}
781 \if@titlepage

```



```

782 \renewcommand*\TitleFont{\rmfamily}
783 \renewcommand*\maketitle{%
784   \begin{titlepage}%
785     \let\footnotesize\small
786     \let\right@footnoterule\relax
787     \let\left@footnoterule\relax
788     \let\textwidth@footnoterule\relax
789     \let \footnote \thanks
790     \long\def\@makefnmark##1{\parindent\z@
791       \def\labelitemi{\textendash}\@revlabeltrue
792       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
793     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
794     \if@compatibility\setcounter{page}{0}\fi
795     \null\vfil
796     \vskip 60\p@
797     \begin{center}%
798       \TitleFont
799       {\LARGE \def\{\penalty -\@M}
800         \if@allcaps
801           \expandafter\uc@nothanks\@title\thanks\relax
802         \else
803           \@title
804           \fi\par}%
805       \vskip 3em%
806       {\large
807         \lineskip .75em \parindent\z@
808         \begin{tabular}[t]{c}%
809           \if@allcaps
810             \expandafter\uc@authornothanks\@author\and\relax
811           \else
812             \@author
813           \fi
814         \end{tabular}\par}%
815       \vskip 1.5em%
816       {\large
817         \if@allcaps
818           \uppercase\expandafter{\@date}%
819         \else
820           \@date
821         \fi\par}%
822       \end{center}\par
823       \@thanks
824       \vfil\null
825     \end{titlepage}%
826     \setcounter{footnote}{0}%
827     \global\let\thanks\relax
828     \global\let\maketitle\relax
829     \global\let\@thanks\@empty
830     \global\let\@author\@empty
831     \global\let\@title\@empty
832     \global\let\@date\@empty
833     \global\let\title\relax
834     \global\let\author\relax
835     \global\let\date\relax

```



```

836 \global\let\and\relax
837 }
838 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
839 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
840 \futurelet\@tempa\uc@ax}
841 \def\uc@ax{%
842 \ifx\@tempa\relax
843 \else
844 \ \andname \ \expandafter\uc@authornothanks
845 \fi}
846 \def\uc@tx{\ifx\@tempa\relax
847 \else \expandafter\uc@ty \fi}
848 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
849 \else
850 \renewcommand*\maketitle{\par
851 \begingroup
852 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
853 \def\@makefnmark{\rlap{%
854 \textsuperscript{\normalfont\@thefnmark}}}%
855 \long\def\@makefntext{\@xmakefntext{%
856 \textsuperscript{\normalfont\@thefnmark}}}%
857 \if@twocolumn
858 \ifnum \col@number=\@ne
859 \maketitle
860 \else
861 \twocolumn[\maketitle]%
862 \fi
863 \else
864 \newpage
865 \global\@topnum\z@
866 \maketitle
867 \fi
868 \thispagestyle{plain}\@thanks
869 \endgroup
870 \setcounter{footnote}{0}%
871 \global\let\thanks\relax
872 \global\let\maketitle\relax
873 \global\let\@maketitle\relax
874 \global\let\@thanks\@empty
875 \global\let\@author\@empty
876 \global\let\@title\@empty
877 \global\let\@date\@empty
878 \global\let\title\relax
879 \global\let\author\relax
880 \global\let\date\relax
881 \global\let\and\relax
882 }
883 \def\@maketitle{%
884 \newpage
885 \null
886 \vskip 2em%
887 \begin{center}%
888 \let \footnote \thanks
889 {\LARGE \TitleFont \@title \par}%

```



```

890 \vskip 1.5em%
891 {\large \TitleFont
892 \lineskip .5em%
893 \begin{tabular}[t]{c}%
894 \@author
895 \end{tabular}\par}%
896 \vskip 1em%
897 {\large \TitleFont \@date}%
898 \end{center}%
899 \par
900 \vskip 1.5em}
901 \fi

```

11 File artikel2-xetex-bidi.def

```

902 \ProvidesFile{artikel2-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for artikel2 class
903 \renewenvironment{theindex}{%
904 \if@twocolumn
905 \@restonecolfalse
906 \else
907 \@restonecoltrue
908 \fi
909 \columnseprule \z@
910 \columnsep 35\p@
911 \twocolumn[\section*{\indexname}]}%
912 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
913 \thispagestyle{plain}\parindent\z@
914 \parskip\z@ \@plus .3\p@\relax
915 \let\item\@idxitem
916 }{%
917 \if@restonecol\onecolumn\else\clearpage\fi}
918 \renewcommand*\@regtocline[3]{%
919 \ifnum #1>\c@tocdepth
920 \else
921 \vskip\z@\@plus.2\p@
922 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
923 \if@RTL\righskip\else\leftskip\fi\unitindent
924 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
925 \parfillskip\z@
926 \@tempdima\unitindent
927 \advance\@tempdima by \othermargin
928 \parindent\z@
929 \leavevmode
930 \hbox{\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
931 \hskip 1em \nobreak{\slshape #3}\par
932 }%
933 \fi}
934 \if@oldtoc
935 \renewcommand*\l@section[2]{%
936 \addpenalty\@secpenalty
937 \addvspace{1.0em \@plus\p@}%
938 \setlength\@tempdima{1.5em}%
939 \begingroup
940 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth

```



```

941 \parfillskip -\@pnumwidth
942 \leavevmode \bfseries
943 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
944 \hskip -\if@RTL\rightskip\else\leftskip\fi
945 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
946 \endgroup}
947 \else
948 \renewcommand*\l@section{\@regtocline{1}}
949 \fi
950 \if@oldtoc
951 \renewcommand*\l@part[2]{%
952 \ifnum \c@tocdepth >-2\relax
953 \addpenalty\@secpenalty
954 \addvspace{2.25em \@plus\p@}%
955 \begingroup
956 \setlength\@tempdima{3em}%
957 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
958 \parfillskip -\@pnumwidth
959 {\leavevmode
960 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
961 \nobreak
962 \if@compatibility
963 \global\@nobreaktrue
964 \everypar{\global\@nobreakfalse\everypar{}}%
965 \fi
966 \endgroup
967 \fi}
968 \else
969 \renewcommand*\l@part{%
970 \ifnum \c@tocdepth >-2\relax
971 \addpenalty\@secpenalty
972 \addvspace{2.25em \@plus \p@}%
973 \@regtocline{0}%
974 \fi}
975 \fi
976 \renewcommand*\head@style{%
977 \interlinepenalty \@M
978 \hyphenpenalty=\@M \exhyphenpenalty=\@M
979 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
980 \if@titlepage
981 \renewenvironment{abstract}{%
982 \titlepage
983 \null\vfil
984 \section*\SectFont\abstractname}%
985 \noindent\ignorespaces}
986 {\par\vfil\null\endtitlepage}
987 \else
988 \renewenvironment{abstract}{%
989 \if@twocolumn
990 \section*\abstractname}%
991 \else
992 \section*\hskip\unitindent\small\SectFont\abstractname}%
993 \list{}{\setlength\listparindent{\unitindent}%
994 \setlength\parindent {\z@}%

```




```

995         \setlength\leftmargin   {\unitindent}%
996         \setlength\rightmargin  {\unitindent}%
997         \setlength\parsep       {\z@}}%
998     \item[]%
999     \fi}
1000     {\if@twocolumn\else\par\endlist\fi}
1001 \fi
1002 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1003 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1004 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1005 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1006 \renewcommand*\left@footnoterule{%
1007     \kern-3\p@
1008     \hrule\@width 3\unitindent
1009     \kern 2.6\p@
1010 }
1011 \renewcommand*\right@footnoterule{%
1012     \kern-3\p@
1013     \nointerlineskip
1014     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1015     \kern 2.6\p@}
1016 \renewenvironment{thebibliography}[1]
1017     {\section*{\refname}%
1018     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1019     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1020     \bidi@thebibliography@font@hook%
1021     \list{\@biblabel{\@arabic\c@enumiv}}%
1022         {\settowidth\labelwidth{\@biblabel{#1}}%
1023         \leftmargin\labelwidth
1024         \advance\leftmargin\labelsep
1025         \@openbib@code
1026         \usecounter{enumiv}%
1027         \let\p@enumiv\@empty
1028         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1029     \sloppy\clubpenalty4000\widowpenalty4000%
1030     \sfcode`..\@m}
1031     {\def\@noitemerr
1032     {\@latex@warning{Empty `thebibliography' environment}}%
1033     \endlist}
1034 \if@titlepage
1035 \renewcommand*\TitleFont{\rmfamily}
1036 \renewcommand*\maketitle{%
1037     \begin{titlepage}%
1038     \let\footnotesize\small
1039     \let\right@footnoterule\relax
1040     \let\left@footnoterule\relax
1041     \let\textwidth@footnoterule\relax
1042     \let \footnote \thanks
1043     \long\def\@makefnmark##1{\parindent\z@
1044     \def\labelitemi{\textendash}\@revlabeltrue
1045     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1046     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1047     \if@compatibility\setcounter{page}{0}\fi
1048     \null\vfil

```



```

1049 \vskip 60\p@
1050 \begin{center}%
1051 \TitleFont
1052 {\LARGE \def\{\{\penalty -\@M}
1053 \if@allcaps
1054 \expandafter\uc@nothanks\@title\thanks\relax
1055 \else
1056 \@title
1057 \fi\par}%
1058 \vskip 3em%
1059 {\large
1060 \lineskip .75em \parindent\z@
1061 \begin{tabular}[t]{c}%
1062 \if@allcaps
1063 \expandafter\uc@authornothanks\@author\and\relax
1064 \else
1065 \@author
1066 \fi
1067 \end{tabular}\par}%
1068 \vskip 1.5em%
1069 {\large
1070 \if@allcaps
1071 \uppercase\expandafter{\@date}%
1072 \else
1073 \@date
1074 \fi\par}%
1075 \end{center}\par
1076 \@thanks
1077 \vfil\null
1078 \end{titlepage}%
1079 \setcounter{footnote}{0}%
1080 \global\let\thanks\relax
1081 \global\let\maketitle\relax
1082 \global\let\@thanks\@empty
1083 \global\let\@author\@empty
1084 \global\let\@title\@empty
1085 \global\let\@date\@empty
1086 \global\let\title\relax
1087 \global\let\author\relax
1088 \global\let\date\relax
1089 \global\let\and\relax
1090 }
1091 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1092 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1093 \futurelet\@tempa\uc@ax}
1094 \def\uc@ax{%
1095 \ifx\@tempa\relax
1096 \else
1097 \ \ \andname \ \ \expandafter\uc@authornothanks
1098 \fi}
1099 \def\uc@tx{\ifx\@tempa\relax
1100 \else \expandafter\uc@ty \fi}
1101 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1102 \else

```



```

1103 \renewcommand*\maketitle{\par
1104   \begingroup
1105     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1106     \long\def\@makefnmark##1{\parindent\z@
1107       \def\labelitemi{\textendash}%
1108       \leavevmode\hb@xt@.5\unitindent{%
1109         \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1110     \if@twocolumn
1111       \ifnum \col@number=\@ne
1112         \@maketitle
1113       \else
1114         \twocolumn[\@maketitle]%
1115       \fi
1116     \else
1117       \newpage
1118       \global\@topnum\z@
1119       \@maketitle
1120     \fi
1121     \thispagestyle{plain}\@thanks
1122   \endgroup
1123   \setcounter{footnote}{0}%
1124   \global\let\thanks\relax
1125   \global\let\maketitle\relax
1126   \global\let\@maketitle\relax
1127   \global\let\@thanks\@empty
1128   \global\let\@author\@empty
1129   \global\let\@title\@empty
1130   \global\let\@date\@empty
1131   \global\let\title\relax
1132   \global\let\author\relax
1133   \global\let\date\relax
1134   \global\let\and\relax
1135 }
1136 \def\@maketitle{%
1137   \newpage
1138   \null
1139   \vskip 2em%
1140   \begin{center}%
1141     \let \footnote \thanks
1142     {\LARGE \TitleFont \@title \par}%
1143     \vskip 1.5em%
1144     {\large \TitleFont
1145       \lineskip .5em%
1146       \begin{tabular}[t]{c}%
1147         \@author
1148       \end{tabular}\par}%
1149     \vskip 1em%
1150     {\large \TitleFont \@date}%
1151   \end{center}%
1152   \par
1153   \vskip 1.5em}
1154 \fi

```



12 File artikel3-xetex-bidi.def

```
1155 \ProvidesFile{artikel3-xetex-bidi.def}[2025/09/30 v0.6 bidi adaptations for artikel3 class
1156 \renewenvironment{theindex}{%
1157   \if@twocolumn
1158     \@restonecolfalse
1159   \else
1160     \@restonecoltrue
1161   \fi
1162   \columnseprule \z@
1163   \columnsep 35\p@
1164   \twocolumn[\section*{\indexname}]%
1165   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1166   \thispagestyle{plain}\parindent\z@
1167   \parskip\z@ \@plus .3\p@\relax
1168   \let\item\@idxitem
1169 }{%
1170   \if@restonecol\onecolumn\else\clearpage\fi}
1171 \renewcommand*{\head@style}{%
1172   \interlinepenalty \@M
1173   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1174   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1175 \renewcommand*{\@regtocline}[3]{%
1176   \ifnum #1>\c@tocdepth
1177     \else
1178     \vskip\z@\@plus.2\p@
1179     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1180     \if@RTL\rightskip\else\leftskip\fi\unitindent
1181     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1182     \parfillskip\z@
1183     \@tempdima\unitindent
1184     \parindent\z@
1185     \leavevmode
1186     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1187     \hskip 1em \nobreak{\slshape #3}\par
1188     }%
1189   \fi}
1190 \if@oldtoc
1191 \renewcommand*{\l@part}[2]{%
1192   \ifnum \c@tocdepth >-2\relax
1193     \addpenalty\@secpenalty
1194     \addvspace{2.25em \@plus\p@}%
1195     \begingroup
1196       \setlength\@tempdima{3em}%
1197       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1198       \parfillskip -\@pnumwidth
1199       {\leavevmode
1200         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1201         \nobreak
1202         \if@compatibility
1203           \global\@nobreaktrue
1204           \everypar{\global\@nobreakfalse\everypar{}}%
1205         \fi
1206       \endgroup
```



```

1207 \fi}
1208 \else
1209 \renewcommand*\l@part{%
1210 \ifnum \c@tocdepth >-2\relax
1211 \addpenalty\@secpenalty
1212 \addvspace{2.25em \@plus \p@}%
1213 \@regtocline{0}%
1214 \fi}
1215 \fi
1216
1217 \if@oldtoc
1218 \renewcommand*\l@section[2]{%
1219 \addpenalty\@secpenalty
1220 \addvspace{1.0em \@plus \p@}%
1221 \setlength\@tempdima{1.5em}%
1222 \begingroup
1223 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1224 \parfillskip -\@pnumwidth
1225 \leavevmode \bfseries
1226 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
1227 \hskip -\if@RTL\rightskip\else\leftskip\fi
1228 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1229 \endgroup}
1230 \else
1231 \renewcommand*\l@section{\@regtocline{1}}
1232 \fi
1233 \if@titlepage
1234 \renewenvironment{abstract}{%
1235 \titlepage
1236 \null\vfil
1237 \section*{\SectFont\abstractname}%
1238 \noindent\ignorespaces}
1239 {\par\vfil\null\endtitlepage}
1240 \else
1241 \renewenvironment{abstract}{%
1242 \if@twocolumn
1243 \section*{\abstractname}%
1244 \else
1245 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1246 \section*{\small\SectFont\abstractname}%
1247 \noindent\ignorespaces
1248 \fi}
1249 {\if@twocolumn\else\par\egroup\fi}
1250 \fi
1251 \renewcommand*\left@footnoterule{%
1252 \kern-3\p@
1253 \kern.5\baselineskip
1254 \hrule\@width\unitindent
1255 \kern.4\baselineskip
1256 }
1257 \renewcommand*\right@footnoterule{%
1258 \kern-3\p@
1259 \kern.5\baselineskip
1260 \nointerlineskip

```



```

1261 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1262 \kern.4\baselineskip}
1263 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1264 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1265 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1266 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1267 \renewenvironment{thebibliography}[1]
1268   {\section*\refname}%
1269   \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1270   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1271   \bidi@thebibliography@font@hook%
1272   \list{\@biblabel{\@arabic\c@enumiv}}%
1273     {\settowidth\labelwidth{\@biblabel{#1}}%
1274     \leftmargin\labelwidth
1275     \advance\leftmargin\labelsep
1276     \@openbib@code
1277     \usecounter{enumiv}%
1278     \let\p@enumiv\@empty
1279     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1280   \sloppy\clubpenalty4000\widowpenalty4000%
1281   \sfcode`..\@M}
1282   {\def\@noitemerr
1283     {\@latex@warning{Empty `thebibliography' environment}}%
1284     \endlist}
1285 \if@titlepage
1286 \renewcommand*\TitleFont{\rmfamily}
1287 \renewcommand*\maketitle{%
1288   \begin{titlepage}%
1289     \let\footnotesize\small
1290     \let\right@footnoterule\relax
1291     \let\left@footnoterule\relax
1292     \let\textwidth@footnoterule\relax
1293     \let \footnote \thanks
1294     \long\def\@makefnmark#1{\parindent\z@
1295       \def\labelitemi{\textendash}\@revlabeltrue
1296       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax #1}
1297 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1298 \if@compatibility\setcounter{page}{0}\fi
1299 \null\vfil
1300 \vskip 60\p@
1301 \begin{center}%
1302   \TitleFont
1303   {\LARGE \def\{\penalty -\@M}
1304     \if@allcaps
1305       \expandafter\uc@nothanks\@title\thanks\relax
1306     \else
1307       \@title
1308     \fi\par}%
1309 \vskip 3em%
1310 {\large
1311   \lineskip .75em \parindent\z@
1312   \begin{tabular}[t]{c}%
1313     \if@allcaps
1314       \expandafter\uc@author\@author\and\relax

```



```

1315         \else
1316         \@author
1317         \fi
1318     \end{tabular}\par}%
1319 \vskip 1.5em%
1320 {\large
1321 \if@allcaps
1322 \uppercase\expandafter{\@date}%
1323 \else
1324 \@date
1325 \fi\par}%
1326 \end{center}\par
1327 \@thanks
1328 \vfil\null
1329 \end{titlepage}%
1330 \setcounter{footnote}{0}%
1331 \global\let\thanks\relax
1332 \global\let\maketitle\relax
1333 \global\let\@thanks\@empty
1334 \global\let\@author\@empty
1335 \global\let\@title\@empty
1336 \global\let\@date\@empty
1337 \global\let\title\relax
1338 \global\let\author\relax
1339 \global\let\date\relax
1340 \global\let\and\relax
1341 }
1342 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1343 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1344 \futurelet\@tempa\uc@ax}
1345 \def\uc@ax{%
1346 \ifx\@tempa\relax
1347 \else
1348 \ \andname \ \expandafter\uc@authornothanks
1349 \fi}
1350 \def\uc@tx{\ifx\@tempa\relax
1351 \else \expandafter\uc@ty \fi}
1352 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1353 \else
1354 \renewcommand*\maketitle{\par
1355 \begingroup
1356 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1357 \def\@makefnmark{\rlap{%
1358 \textsuperscript{\normalfont\thefnmark}}}%
1359 \long\def\@makefntext{\@xmakefntext{%
1360 \textsuperscript{\normalfont\thefnmark}}}%
1361 \if@twocolumn
1362 \ifnum \col@number=\@ne
1363 \maketitle
1364 \else
1365 \twocolumn[\maketitle]%
1366 \fi
1367 \else
1368 \newpage

```



```

1369     \global\@topnum\z@
1370     \@maketitle
1371     \fi
1372     \thispagestyle{plain}\@thanks
1373 \endgroup
1374 \setcounter{footnote}{0}%
1375 \global\let\thanks\relax
1376 \global\let\maketitle\relax
1377 \global\let\@maketitle\relax
1378 \global\let\@thanks\@empty
1379 \global\let\@author\@empty
1380 \global\let\@title\@empty
1381 \global\let\@date\@empty
1382 \global\let\title\relax
1383 \global\let\author\relax
1384 \global\let\date\relax
1385 \global\let\and\relax
1386 }
1387 \def\@maketitle{%
1388   \newpage
1389   \null
1390   \vskip 2em%
1391   \if@titlecentered
1392     \begin{center}%
1393       \let \footnote \thanks
1394       {\LARGE \TitleFont \@title \par}%
1395       \vskip 1.5em%
1396       {\large \TitleFont
1397         \lineskip .5em%
1398         \begin{tabular}[t]{c}%
1399           \@author
1400         \end{tabular}\par}%
1401       \vskip 1em%
1402       {\large \TitleFont \@date}%
1403     \end{center}%
1404   \else
1405     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1406     {\large \TitleFont \lineskip .5em \tabcolsep\z@
1407       \def\and{%% \begin{tabular} has already started
1408         \end{tabular}\hskip 1em plus .17fil
1409         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tab
1410         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
1411       \vskip 1em {\large \TitleFont \@date}
1412   \fi
1413   \par
1414   \vskip 1.5em}
1415 \fi

```

13 File arydshln-xetex-bidi.def

```

1416 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln packag
1417 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egro
1418 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1419 \expandafter\let\csname endtabular*\endcsname\endtabular

```




```

1420 \let\adl@array\@array
1421 \def\@array{\adl@everyvbox\everyvbox
1422     \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1423     \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1424     \let\adl@noalign\noalign
1425     \adl@array}
1426 \ifadl@usingarypkg
1427 \def\@testpach{\@chclass
1428 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1429 \ifnum \@lastchclass=7 5 \else
1430 \ifnum \@lastchclass=8 \tw@ \else
1431 \ifnum \@lastchclass=9 \thr@@
1432 \else \z@
1433 \ifnum \@lastchclass = 10 \else
1434 \edef\@nextchar{\expandafter\string\@nextchar}%
1435 \@chnum
1436 \if \@nextchar c\z@ \else
1437 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1438 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
1439 \z@ \@chclass
1440 \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1441 \if\@nextchar :\@ne \let\@arrayrule\adl@arraydashrule \else
1442 \if\@nextchar ;\@ne \let\@arrayrule\adl@argarraydashrule \else
1443 \if \@nextchar !6 \else
1444 \if \@nextchar @7 \else
1445 \if \@nextchar <8 \else
1446 \if \@nextchar >9 \else
1447 10
1448 \@chnum
1449 \if \@nextchar m\thr@@\else
1450 \if \@nextchar p4 \else
1451 \if \@nextchar b5 \else
1452 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1453 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1454
1455 \def\@classz{\@classx
1456     \@tempcnta \count@
1457     \prepnext@tok
1458     \@addtopreamble{\ifcase \@chnum
1459         \hfil
1460         \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1461         \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1462         \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1463         \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1464         \adl@endmbox\or
1465         \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1466         \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1467         \fi}\prepnext@tok}
1468 \def\adl@class@start{4}
1469 \def\adl@class@iiiorvii{7}
1470
1471 \else
1472 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\@tw@ 4\relax \else
1473     \ifnum \@lastchclass=\@thr@@ 5\relax \else

```



```

1474         \z@ \if #1c\@chnum \z@ \else
1475             \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1476             \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1477         \@chclass
1478             \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
1479             \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
1480             \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
1481             \if #1@\tw@ \else
1482             \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1483     \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1484
1485 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1486     \or \or \@addamp \or
1487     \@acolampacol \or \@firstampfalse \@acol \fi
1488 \edef\@preamble{\@preamble
1489     \ifcase \@chnum
1490         \hfil\adl@putlrc{\$relax\@sharp$}\hfil
1491         \or \adl@putlrc{\$relax\@sharp$}\hfil
1492         \or \hfil\adl@putlrc{\$relax\@sharp$}\fi}}
1493 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1494     \or \or \@addamp \or
1495     \@acolampacol \or \@firstampfalse \@acol \fi
1496 \edef\@preamble{\@preamble
1497     \ifcase \@chnum
1498         \hfil\adl@putlrc{\@sharp\unskip}\hfil
1499         \or \adl@putlrc{\@sharp\unskip}\hfil
1500         \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1501 \def\adl@class@start{6}
1502 \def\adl@class@iiiorvii{3}
1503 \fi
1504 \ApplyPatchCodeToPackage{colortbl}{%
1505 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1506 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1507     \let\@endpbox\adl@org@endpbox}
1508 \let\adl@CT@setup\CT@setup
1509 \def\CT@setup{\adl@CT@setup
1510     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1511     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1512     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1513 \let\adl@act@CT@setup\CT@setup
1514 \def\@classz{\@classx
1515     \@tempcnta\count@ \prepnext@tok
1516     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1517     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1518     \expandafter\adl@extract@drsc
1519     \the\toks\@tempcnta\doublerulesepcolor!\@nil
1520     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1521     \@addtopreamble{\if@RTL\beginL\fi%
1522         \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1523     \ifcase \@chnum
1524         \hskip\stretch{.5}\kern\z@
1525         \dollarbegin
1526         \insert@column
1527         \dollarend\hskip\stretch{.5}%

```



```

1528         \or \dollarbegin \insert@column \dollarend \hfill
1529         \or \hfill \kern\z@ \dollarbegin \insert@column \dollarend
1530         \or $\vcenter
1531             \@startpbox{\@nextchar}\insert@column \@endpbox $%
1532         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1533         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1534         \fi
1535         \if@RTL\endR\fi\egroup\egroup
1536         \begingroup
1537             \CT@setup
1538             \CT@column@color
1539             \CT@row@color
1540             \CT@cell@color
1541             \CT@do@color
1542         \endgroup
1543         \@tempdima\ht\z@
1544         \advance\@tempdima\minrowclearance
1545         \vrule\@height\@tempdima\@width\z@
1546         \unhbox\z@\if@RTL\endL\fi}%
1547     \prepnext@tok}
1548 \let\adl@act@classz\@classz
1549 \let\adl@org@classz\@classz
1550 }

```

14 File beamer-xetex-bidi.def

```

1551 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for
1552 \AtBeginDocument{%
1553     \if@RTLmain
1554         \raggedleft
1555     \else
1556         \raggedright
1557     \fi
1558 }
1559
1560 \renewcommand*{\bidi@beamer@ragged}{%
1561     \if@RTL
1562         \raggedleft
1563     \else
1564         \raggedright
1565     \fi
1566 }
1567
1568

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1569 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for b
1570 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1571
1572 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1573
1574 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}
1575

```



```

1576 \bidi@csundef{beamer@@tmpop@subsection in toc@subsections numbered}
1577
1578 \bidi@csundef{beamer@@tmpop@subsubsection in toc@subsections numbered}
1579
1580 \defbeamertemplate{subsection in toc}{sections numbered}
1581 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1582
1583 \defbeamertemplate{subsubsection in toc}{sections numbered}
1584 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeam
1585 \inserttocsubsubsection\par}
1586
1587 \defbeamertemplate{section in toc}{subsections numbered}
1588 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsection\par}
1589
1590 \defbeamertemplate{subsection in toc}{subsections numbered}
1591 {\leavevmode\bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubs
1592
1593 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1594 {\leavevmode\normalsize\usebeamerfont{subsection in
1595 toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1596 \inserttocsubsubsection\par}
1597
1598 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1599
1600 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1601
1602 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1603
1604 \defbeamertemplate{section in toc}{circle}
1605 {\leavevmode\bidi@beamer@leftskip=2ex%
1606 \llap{%
1607 \usebeamerfont*{section number projected}%
1608 \usebeamerfont*{section number projected}%
1609 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1610 \color{bg}
1611 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1612 \pgfusepath{fill}
1613 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1614 \end{pgfpicture}\kern1.25ex%
1615 }%
1616 \inserttocsection\par}
1617
1618 \defbeamertemplate{subsection in toc}{circle}
1619 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1620
1621 \defbeamertemplate{subsubsection in toc}{circle}
1622 {\leavevmode\normalsize\usebeamerfont{subsection in
1623 toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1624 \inserttocsubsubsection\par}
1625
1626 \bidi@csundef{beamer@@tmpop@section in toc@square}
1627
1628 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1629

```



```

1630 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1631
1632 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1633
1634 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1635
1636 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1637
1638 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1639
1640 \defbeamertemplate{section in toc}{square}
1641 {\leavevmode\bidi@beamer@leftskip=3ex%
1642   \llap{%
1643     \usebeamerfont*{section number projected}%
1644     \usebeamercolor[bg]{section number projected}%
1645     \if@RTL
1646     \else
1647       \vrule width2.25ex height1.85ex depth.4ex%
1648       \hskip-2.25ex%
1649     \fi
1650     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}%
1651     \if@RTL
1652       \hskip-2.25ex%
1653       \vrule width2.25ex height1.85ex depth.4ex%
1654     \fi
1655     }\kern1.25ex}%
1656   \inserttocsection\par}
1657
1658 \defbeamertemplate{subsection in toc}{square}
1659 {\leavevmode\bidi@beamer@leftskip=5ex\llap{%
1660   \usebeamercolor[bg]{subsection number projected}%
1661   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1662
1663 \defbeamertemplate{subsubsection in toc}{square}
1664 {\leavevmode\normalsize\usebeamerfont{subsection in
1665   toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1666   \llap{%
1667     \usebeamercolor[bg]{subsubsection number projected}%
1668     \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1669
1670 \defbeamertemplate{enumerate item}{square}
1671 {
1672   \hbox{%
1673     \usebeamerfont*{item projected}%
1674     \usebeamercolor[bg]{item projected}%
1675     \if@RTL
1676     \else
1677       \vrule width2.25ex height1.85ex depth.4ex%
1678       \hskip-2.25ex%
1679     \fi
1680     \hbox to2.25ex{%
1681       \hfil%
1682       \color{fg}\insertenumlabel%
1683       \hfil}}%

```



```

1684     \if@RTL
1685         \hskip-2.25ex%
1686         \vrule width2.25ex height1.85ex depth.4ex%
1687     \fi
1688 }}%
1689 }
1690 [action]
1691 {\setbeamerfont{item projected}{size=\scriptsize}}
1692
1693 \defbeamertemplate{enumerate subitem}{square}
1694 {
1695     \hbox{%
1696         \usebeamerfont*{subitem projected}%
1697         \usebeamercolor[bg]{subitem projected}%
1698         \if@RTL
1699         \else
1700             \vrule width2.25ex height1.85ex depth.4ex%
1701             \hskip-2.25ex%
1702         \fi
1703         \hbox to2.25ex{%
1704             \hfil%
1705             \color{fg}\insertsubenumlabel%
1706             \hfil}}%
1707         \if@RTL
1708             \hskip-2.25ex%
1709             \vrule width2.25ex height1.85ex depth.4ex%
1710         \fi
1711     }}%
1712 }
1713
1714 \defbeamertemplate{enumerate subsubitem}{square}
1715 {
1716     \hbox{%
1717         \usebeamerfont*{subitem projected}%
1718         \usebeamercolor[bg]{subsubitem projected}%
1719         \if@RTL
1720         \else
1721             \vrule width2.25ex height1.85ex depth.4ex%
1722             \hskip-2.25ex%
1723         \fi
1724         \hbox to2.25ex{%
1725             \hfil%
1726             \color{fg}\insertsubsubenumlabel%
1727             \hfil}}%
1728         \if@RTL
1729             \hskip-2.25ex%
1730             \vrule width2.25ex height1.85ex depth.4ex%
1731         \fi
1732     }}%
1733 }
1734
1735 \defbeamertemplate{enumerate mini template}{square}
1736 {
1737     \hbox{%

```



```

1738 \usebeamerfont*{\beameritemnestingprefix item projected}%
1739 \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1740 \if@RTL
1741 \else
1742 \vrule width2.25ex height1.85ex depth.4ex%
1743 \hskip-2.25ex%
1744 \fi
1745 \hbox to2.25ex{{%
1746 \hfil%
1747 \color{fg}\insertenumlabel%
1748 \hfil}}%
1749 \if@RTL
1750 \hskip-2.25ex%
1751 \vrule width2.25ex height1.85ex depth.4ex%
1752 \fi
1753 }}%
1754 }
1755
1756 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1757
1758 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1759
1760 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1761
1762 \defbeamertemplate{section in toc}{ball unnumbered}
1763 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1764 \llap{%
1765 \raise0.1ex\beamer@usesphere{section number projected}{bigosphere}\kern1.25ex}%
1766 \inserttocsection\par}
1767
1768 \defbeamertemplate{subsection in toc}{ball unnumbered}
1769 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1770 \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1771
1772 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1773 {\leavevmode\normalsize\usebeamerfont{subsubsection in
1774 toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1775 \llap{%
1776 \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsection\par}
1777
1778 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1779
1780 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1781
1782 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1783
1784 \defbeamertemplate{section in toc}{ball}
1785 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1786 \llap{%
1787 \normalsize%
1788 \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1789 \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1790 \pgftext{%
1791 \usebeamerfont*{section number projected}%

```



```

1792     \usebeamerfont{section number projected}%
1793     \color{fg!90!bg}%
1794     \inserttocsectionnumber}
1795 \end{pgfpicture}%
1796 \kern1.25ex}%
1797 \inserttocsection\par
1798 }
1799 [action]
1800 {\setbeamerfont{section number projected}{size=\scriptsize}}
1801
1802 \defbeamertemplate{subsection in toc}{ball}
1803 {\leavevmode\bidibeamer@leftskip=5ex%
1804 \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1805 \inserttocsubsection\par%
1806 }
1807
1808 \defbeamertemplate{subsubsection in toc}{ball}
1809 {\leavevmode\normalsize\usebeamerfont{subsection in
1810 toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1811 \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1812 \inserttocsubsubsection\par%
1813 }
1814
1815 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1816
1817 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1818
1819 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1820
1821 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1822 {%
1823 \par\vskip\medskipamount%
1824 \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1825 {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1826 \bidi@beamer@ragged%
1827 \usebeamerfont{block body}%
1828 }
1829
1830 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1831 {%
1832 \par\vskip\medskipamount%
1833 \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1834 {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1835 \bidi@beamer@ragged%
1836 \usebeamerfont{block body alerted}%
1837 }%
1838
1839 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1840 {%
1841 \par\vskip\medskipamount%
1842 \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1843 {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1844 \bidi@beamer@ragged%
1845 \usebeamerfont{block body example}%

```




```

1846 }%
1847
1848 \bidi@csundef{beamer@tmpop@caption@numbered}
1849
1850 \defbeamer@template{caption}{numbered}
1851 {%
1852   \leavevmode
1853   \bidi@beamer@ragged
1854   {%
1855     \usebeamercolor[fg]{caption name}%
1856     \usebeamerfont*{caption name}%
1857     \insertcaptionname~\insertcaptionnumber
1858     \usebeamer@template{caption label separator}%
1859   }%
1860   \insertcaption\par
1861 }
1862
1863 \bidi@csundef{beamer@tmpop@caption@caption name own line}
1864
1865 \defbeamer@template{caption}{caption name own line}
1866 {%
1867   \begin{minipage}{\textwidth}
1868     \leavevmode
1869     \bidi@beamer@ragged
1870     {%
1871       \usebeamercolor[fg]{caption name}%
1872       \usebeamerfont*{caption name}%
1873       \insertcaptionname%
1874     }\\
1875     \insertcaption
1876   \end{minipage}
1877 }
1878
1879 \ApplyPatchCodeToPackage{caption}{%
1880   \DeclareCaptionFont{beamer@font}{%
1881     \usebeamerfont*{caption}%
1882   }%
1883 }
1884 \SetCaptionDefault{font}{beamer@font}
1885 \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1886 \SetCaptionDefault{justification}{bidi@beamer@ragged}
1887 }
1888

```

16 File beamerbaseboxes-xetex-bidi.def

```

1889 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbaseboxes]
1890 \renewcommand\beamerboxesrounded[2] [] {%
1891   \global\let\beamer@firstlineitemizeunskip=\relax%
1892   \vbox\bgroup%
1893   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1894   \setkeys{beamerboxes}{#1}%
1895   {%
1896     \usebeamercolor{\bmb@lower}%

```



```

1897 \globalcolorstrue%
1898 \colorlet{lower.bg}{bg}%
1899 }%
1900 {%
1901 \usebeamercolor{\bmb@upper}%
1902 \globalcolorstrue%
1903 \colorlet{upper.bg}{bg}%
1904 }%
1905 %
1906 % Typeset head
1907 %
1908 \vskip4bp
1909 \setbox\bmb@box=\hbox{%
1910 \begin{minipage}[b]{\bmb@width}%
1911 \usebeamercolor[fg]{\bmb@upper}%
1912 #2%
1913 \end{minipage}}%
1914 \ifdim\wd\bmb@box=0pt%
1915 \setbox\bmb@box=\hbox{}%
1916 \ht\bmb@box=1.5pt%
1917 \bmb@prevheight=-4.5pt%
1918 \else%
1919 \wd\bmb@box=\bmb@width%
1920 \bmb@temp=\dp\bmb@box%
1921 \ifdim\bmb@temp<1.5pt%
1922 \bmb@temp=1.5pt%
1923 \fi%
1924 \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1925 \dp\bmb@box=0pt%
1926 \bmb@prevheight=\ht\bmb@box%
1927 \fi%
1928 \bmb@temp=\bmb@width%
1929 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1930 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1931 \hbox{%
1932 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1933 \ifdim\wd\bmb@box=0pt%
1934 \color{lower.bg}%
1935 \else%
1936 \color{upper.bg}%
1937 \fi%
1938 \pgfpathmoveto{-4bp}{-1bp}
1939 \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1940 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1941 \pgfpathcurveto%
1942 {\pgfpoint{\bmb@dima}{3bp}}%
1943 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1944 {\pgfpoint{\bmb@dimb}{-1bp}}%
1945 \bmb@dima=-\ht\bmb@box%
1946 \advance\bmb@dima by-2pt%
1947 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1948 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1949 \pgfusepath{fill}
1950 \end{pgfpicture}}%

```



```

1951   \copy\bmb@box%
1952   }%
1953   \nointerlineskip%
1954   \vskip-1pt%
1955   \ifdim\wd\bmb@box=0pt%
1956   \else%
1957   \hbox{%
1958     \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1959       \bmb@dima=\bmb@width%
1960       \advance\bmb@dima by8bp%
1961       \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1962       \pgfusepath{clip}
1963       {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuseshading\bmb@trans
1964         \end{pgfpicture}%
1965     }%
1966   \nointerlineskip%
1967   \vskip-0.5pt%
1968   \fi%
1969   \setbox\bmb@colorbox=\hbox{{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1970   \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1971     \vskip2pt%
1972     \usebeamercolor[fg]{\bmb@lower}%
1973     \colorlet{beamerstructure}{upper.bg}%
1974     \colorlet{structure}{upper.bg}%
1975     %\color{.}%
1976     \@bidi@list@minipage@parboxfalse
1977   }
1978
1979 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1980   \begingroup
1981   \@RTLfalse
1982 }{-}{-}
1983
1984

```

17 File beamerbasecolor-xetex-bidi.def

```

1985 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerba
1986 \renewenvironment{beamercolorbox}[2] []{%
1987   \def\beamer@vmode{\leavevmode}%
1988   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1989     leftskip=0pt,rightskip=0pt plus1fil,%
1990     sep=0pt,colsep=0pt,colsep*=0pt,%
1991     shadow=false,rounded=false,ignorebg=false}%
1992   \if@RTL
1993     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1994   \else
1995     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1996   \fi
1997   \setkeys{beamercolbox}{#1}%
1998   \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwatrue}%
1999   \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
2000   \def\beamer@colbox@color{#2}%
2001   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup

```



```

2002 \ifbeamer@colbox@ignorebg%
2003   \colorlet{beamer@temp@color}{bg}%
2004   \usebeamercolor[fg]{#2}%
2005   \colorlet{bg}{beamer@temp@color}%
2006 \else%
2007   \usebeamercolor[fg]{#2}%
2008 \fi%
2009 \beginL
2010 \vbox\bgroup%
2011 \hsize=\beamer@colbox@wd%
2012 \@arrayparboxrestore%
2013 \leftskip=\beamer@colbox@ls%
2014 \ifdim\beamer@colbox@sep>z@\advance\leftskip\beamer@colbox@sep\fi%
2015 \rightskip=\beamer@colbox@rs%
2016 \ifdim\beamer@colbox@sep>z@\advance\rightskip\beamer@colbox@sep\fi%
2017 \if@tempswa\ifdim\beamer@colbox@colsep>z@%
2018   \advance\leftskip by\beamer@colbox@colsep%
2019   \advance\rightskip by\beamer@colbox@colsep%
2020   \vskip\beamer@colbox@colsep%
2021 \fi%
2022 \ifdim\beamer@colbox@colseps>z@\vskip\beamer@colbox@colseps\fi%
2023 \fi%
2024 \ifdim\beamer@colbox@sep>z@\vskip\beamer@colbox@sep\fi%
2025 \beamer@vmode\ignorespaces}{%
2026 \ifdim\beamer@colbox@sep>z@\vskip\beamer@colbox@sep\fi%
2027 \if@tempswa
2028   \ifdim\beamer@colbox@colsep>z@\vskip\beamer@colbox@colsep\fi%
2029   \ifdim\beamer@colbox@colseps>z@\vskip\beamer@colbox@colseps\fi%
2030 \fi%
2031 \egroup\endL\color@endgroup\egroup%
2032 \wd\beamer@tempbox=\beamer@colbox@wd%
2033 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2034 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2035 \ifbeamer@colbox@rounded%
2036 \if@tempswa%
2037   \begin{beamerboxesrounded}[%
2038     shadow=\beamer@colbox@shadow,%
2039     lower=\beamer@colbox@color,%
2040     upper=normal text,%
2041     width=\beamer@colbox@wd]{}%
2042   \box\beamer@tempbox%
2043   \end{beamerboxesrounded}%
2044 \else%
2045   \ifdim\wd\beamer@tempbox>\textwidth%
2046     \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2047   \fi%
2048   \box\beamer@tempbox%
2049 \fi%
2050 \else%
2051 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2052   \usebeamercolor{\beamer@colbox@color}%
2053   \hskip-\beamer@colbox@colseps%
2054   \fboxsep=z@\colorbox{bg}{%
2055     \hskip\beamer@colbox@colseps%

```



```

2056     \box\beamer@tempbox%
2057     \hskip\beamer@colbox@colseps%
2058   }%
2059   \hskip-\beamer@colbox@colseps%
2060   }\fi%
2061   \ifdim\wd\beamer@tempbox>\textwidth%
2062     \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box%
2063     \fi%
2064     \box\beamer@tempbox%
2065   \fi%
2066 }
2067
2068

```

18 File beamerbasecompatibility-xetex-bidi.def

```

2069 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for
2070 \def\insertvrule#1#2{\hbox{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1}
2071
2072

```

19 File beamerbaseframecomponents-xetex-bidi.def

```

2073 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2025/09/30 v0.8 bidi adaptations fo
2074 \renewcommand{\setbeamersize}[1]{%
2075   \beamer@dogeometryfalse%
2076   \setkeys{beamer@margin}{#1}%
2077   \ifbeamer@dogeometry%
2078     % Reset left margin now
2079     \beamer@tempdim=\beamer@leftmargin%
2080     \advance\beamer@tempdim by\beamer@leftsidebar%
2081     \if@RTLmain
2082       \geometry{right=\the\beamer@tempdim}%
2083     \else
2084       \geometry{left=\the\beamer@tempdim}%
2085     \fi
2086     % Reset right margin now
2087     \beamer@tempdim=\beamer@rightmargin%
2088     \advance\beamer@tempdim by\beamer@rightsidebar%
2089     \if@RTLmain
2090       \geometry{left=\the\beamer@tempdim}%
2091     \else
2092       \geometry{right=\the\beamer@tempdim}%
2093     \fi
2094   \fi%
2095 }
2096
2097 \newcommand*\bidi@beamer@Gm@lmargin{%
2098   \if@RTLmain
2099     \Gm@rmargin
2100   \else
2101     \Gm@lmargin
2102   \fi
2103 }

```



```

2104
2105 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2106   \if@RTLmain
2107     \Gm@lmargin
2108   \else
2109     \Gm@rmargin
2110   \fi
2111 }
2112
2113 \def\ps@navigation{
2114   \def\@oddhead{%
2115     \begingroup%
2116     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransit
2117     \beamer@tempdim=\ht\beamer@tempbox%
2118     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2119     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2120     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2121     \beamer@tempdim=\ht\@tempboxa%
2122     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2123     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2124     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2125     \hbox{%
2126       {%
2127         \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2128         \if@RTLmain
2129           {%
2130             \vbox to \sidebarheight{%
2131               \usebeamertemplate***{sidebar left}%
2132               \vfil%
2133             }}%
2134             \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2135               \hskip-\textwidth
2136             }%
2137             \fi
2138             {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2139               \usebeamercolor*{sidebar left}%
2140               \usebeamertemplate{sidebar canvas left}%
2141               \vss%
2142             }}%
2143             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2144             \box\beamer@tempbox}%
2145             \if@RTLmain
2146             \else
2147             {%
2148               \vbox to \sidebarheight{%
2149                 \usebeamertemplate***{sidebar left}%
2150                 \vfil%
2151               }}\fi}%
2152             \beamer@tempdim=\ht\beamer@tempbox%
2153             \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2154             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2155             \box\beamer@tempbox%
2156           }%
2157           {% print right sidebar first, since it should be overwritten by headline

```



```

2158     \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2159     \if@RTLmain
2160         {%
2161             \vbox to \sidebarheight{%
2162                 \usebeamertemplate***{sidebar right}%
2163                 \vfil%
2164             }}%
2165     \hskip-\textwidth
2166     \fi
2167     {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2168         \usebeamercolor*{sidebar right}%
2169         \usebeamertemplate{sidebar canvas right}%
2170         \vss%
2171         }}%
2172     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2173     \box\beamer@tempbox}%
2174     \if@RTLmain
2175     \else
2176     {%
2177         \vbox to \sidebarheight{%
2178             \usebeamertemplate***{sidebar right}%
2179             \vfil%
2180         }}\fi}%
2181     \beamer@tempdim=\ht\beamer@tempbox%
2182     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2183     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2184     \box\beamer@tempbox%
2185     }%
2186     \beamer@typesetheadorfoot{headline}%
2187     }%
2188     \hfil}%
2189     \endgroup}
2190     \def\@oddfont{%
2191         \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2192         \hfil}\hbox{}}\hfil
2193     }%
2194     \let\@evenhead\@oddfont
2195     \let\@evenfoot\@oddfont}
2196
2197 \AtBeginDocument{%
2198     \pagestyle{navigation}%
2199 }
2200
2201 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2202     {\parskip0pt\offinterlineskip%
2203         \hbox{%
2204             \hskip-\bidi@beamer@Gm@lmargin%
2205             \hbox{%
2206                 \vbox{%
2207                     \@tempdima=\textwidth%
2208                     \textwidth=\paperwidth%
2209                     \hsize=\textwidth%
2210                     \def\{\,%
2211                     \usebeamertemplate***{#1}%

```



```

2212     }}%
2213     \hskip-\bidi@beamer@Gm@rmargin%
2214 }}\hfil%
2215 }
2216
2217 \def\ps@empty{%
2218 \let\mkboth\@gobbletwo%
2219 \def\@oddhead{\begingroup%
2220 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransit
2221 \beamer@tempdim=\ht\beamer@tempbox%
2222 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2223 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2224 \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2225 \beamer@tempdim=\ht\@tempboxa%
2226 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2227 \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2228 \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box
2229 \endgroup%
2230 }
2231 \def\@oddfoot{{\normalcolor{\hfil%
2232 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beam
2233 \ht\beamer@tempbox=0pt%
2234 \dp\beamer@tempbox=0pt%
2235 \box\beamer@tempbox}}}}
2236 \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2237
2238 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2239 \beamer@colclose\def\beamer@colclose{}%
2240 \begin{actionenv}#3%
2241 \setkeys{beamer@col}{#1}%
2242 \begin{minipage}[\beamer@colalign]{#2}%
2243 \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2244 {\end{minipage}\hfill\end{actionenv}\@ignoretrue}
2245 \let\endcolumn\endbeamer@columnenv
2246
2247 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2248 \beamer@colclose%
2249 \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2250 \begin{actionenv}#3%
2251 \setkeys{beamer@col}{#1}%
2252 \begin{minipage}[\beamer@colalign]{#2}%
2253 \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2254
2255 \renewenvironment<>{columns}[1][ ]{%
2256 \begin{actionenv}#2%
2257 \ifbeamer@onlytextwidth
2258 \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2259 \def\beamer@colexitcode{\unskip\egroup}
2260 \else%
2261 \def\beamer@colentrycode{%
2262 \hbox to\textwidth\bgroup%
2263 \leavevmode%
2264 \hskip-\beamer@leftmargin%
2265 \nobreak%

```




```

2266     \beamer@tempdim=\textwidth%
2267     \advance\beamer@tempdim by\beamer@leftmargin%
2268     \advance\beamer@tempdim by\beamer@rightmargin%
2269     \hbox to\beamer@tempdim\bgroup%
2270     \hbox{}\hfill\ignorespaces}%
2271     \def\beamer@colexitcode{\egroup%
2272     \nobreak%
2273     \hskip-\beamer@rightmargin\egroup}%
2274     \fi%
2275     \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2276     \setkeys{beamer@col}{#1}%
2277     \par%
2278     \leavevmode
2279     \beamer@colentrycode%
2280     \def\beamer@colclose{\ignorespaces}%
2281     {\beamer@colclose\def\beamer@colclose{\beamer@colexitcode\end{actionenv}}}%
2282
2283
2284 \def\@makeRTLfntext#1{%
2285   \def\insertfootnotetext{#1}%
2286   \def\insertfootnotemark{\@makefmark}%
2287   \usebeamertemplate***{RTLfootnote}}
2288
2289 \def\@makeLTRfntext#1{%
2290   \def\insertfootnotetext{#1}%
2291   \def\insertfootnotemark{\@makefmark}%
2292   \usebeamertemplate***{LTRfootnote}}
2293
2294 \renewcommand<>\beamer@framefootnotetext [1]{%
2295   \global\setbox\beamer@footins\vbox{%
2296     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2297     \hsize\framewidth
2298     \textwidth\hsize
2299     \columnwidth\hsize
2300     \unvbox\beamer@footins
2301     \reset@font
2302     \bidi@footnotetext@font
2303     \@parboxrestore
2304     \protected@edef\@currentlabel
2305       {\csname p@footnote\endcsname\@thefnmark}%
2306     \color@begingroup
2307     \uncover#2{\@makefntext{%
2308       \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2309     \color@endgroup}}
2310
2311 \renewcommand<>\beamer@frameRTLfootnotetext [1]{%
2312   \global\setbox\beamer@footins\vbox{%
2313     \@RTLtrue
2314     \hsize\framewidth
2315     \textwidth\hsize
2316     \columnwidth\hsize
2317     \unvbox\beamer@footins
2318     \reset@font
2319     \bidi@RTLfootnotetext@font

```



```

2320 \@parboxrestore
2321 \protected@edef\@currentlabel
2322     {\csname p@footnote\endcsname\@thefnmark}%
2323 \color@begingroup
2324     \uncover#2{\@makeRTLfnstext{%
2325         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2326 \color@endgroup}}
2327
2328 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2329     \global\setbox\beamer@footins\vbox{%
2330         \@RTLfalse
2331         \hsize\framewidth
2332         \textwidth\hsize
2333         \columnwidth\hsize
2334         \unvbox\beamer@footins
2335         \reset@font
2336         \bidi@@LTRfootnotetext@font
2337         \@parboxrestore
2338         \protected@edef\@currentlabel
2339             {\csname p@footnote\endcsname\@thefnmark}%
2340         \color@begingroup
2341             \uncover#2{\@makeLTRfnstext{%
2342                 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2343         \color@endgroup}}
2344
2345 \renewcommand<>\@mpfootnotetext[1]{%
2346 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnote
2347     \global\setbox\@mpfootins\vbox{%
2348         \unvbox\@mpfootins
2349         \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
2350         \reset@font
2351         \bidi@@footnotetext@font
2352         \hsize\columnwidth
2353         \@parboxrestore
2354         \protected@edef\@currentlabel
2355             {\csname p@mpfootnote\endcsname\@thefnmark}%
2356         \color@begingroup
2357             \uncover#2{\@makefnstext{%
2358                 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2359         \color@endgroup}}
2360
2361 \renewcommand<>\@mpRTLfootnotetext[1]{%
2362 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnot
2363     \global\setbox\@mpfootins\vbox{%
2364         \unvbox\@mpfootins
2365         \@RTLtrue
2366         \reset@font
2367         \bidi@@RTLfootnotetext@font
2368         \hsize\columnwidth
2369         \@parboxrestore
2370         \protected@edef\@currentlabel
2371             {\csname p@mpfootnote\endcsname\@thefnmark}%
2372         \color@begingroup
2373             \uncover#2{\@makeRTLfnstext{%

```



```

2374     \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2375     \color@endgroup}}
2376
2377 \renewcommand<>\@mpLTRfootnotetext[1]{%
2378 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\@bidi@mpfootnoterule\left@footno
2379     \global\setbox\@mpfootins\vbox{%
2380     \unvbox\@mpfootins
2381     \@RTLfalse
2382     \reset@font
2383     \bidi@LTRfootnotetext@font
2384     \hsize\columnwidth
2385     \@parboxrestore
2386     \protected@edef\@currentlabel
2387         {\csname p@mpfootnote\endcsname\@thefnmark}%
2388     \color@begingroup
2389     \uncover#2{\@makeLTRfntext{%
2390     \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2391     \color@endgroup}}
2392
2393 \let\@footnotetext=\beamer@framefootnotetext
2394 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2395 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2396
2397 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2398 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2399 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2400
2401 \renewcommand<>{\footnote}[1] [] {%
2402     \let\beamer@footnotetext=\@footnotetext%
2403     \let\beamer@mpfn=\@mpfn%
2404     \let\beamer@thempfn=\thempfn%
2405     \let\beamer@kvorig=KV@errx%
2406     \let\beamer@xkvorig=XKV@err
2407     \def\beamer@footarg{}%
2408     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2409     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2410     \setkeys{beamerfootnote}{#1}%
2411     \let\KV@errx=\beamer@kvorig%
2412     \let\XKV@errx=\beamer@xkvorig
2413     \ifx\beamer@footarg\@empty%
2414         \def\beamer@next{\stepcounter\beamer@mpfn
2415             \protected@xdef\@thefnmark{\beamer@thempfn}%
2416             \@footnotemark\beamer@footnotetext#2}%
2417     \else%
2418         \def\beamer@next{%
2419             \begingroup
2420             \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2421             \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2422             \endgroup
2423             \@footnotemark\beamer@footnotetext#2}%
2424     \fi%
2425     \beamer@next}
2426
2427 \renewcommand<>{\RTLfootnote}[1] [] {%

```



```

2428 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2429 \let\beamer@mpfn=\@mpfn%
2430 \let\beamer@thempfn=\@thempfn%
2431 \let\beamer@kvorig=\KV@errx%
2432 \let\beamer@xkvorig=\XKV@err
2433 \def\beamer@footarg{}%
2434 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2435 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2436 \setkeys{beamerfootnote}{#1}%
2437 \let\KV@errx=\beamer@kvorig%
2438 \let\XKV@errx=\beamer@xkvorig
2439 \ifx\beamer@footarg\empty%
2440 \def\beamer@next{\stepcounter\beamer@mpfn
2441 \protected@xdef\@thefnmark{\beamer@thempfn}%
2442 \@footnotemark\beamer@RTLfootnotetext#2}%
2443 \else%
2444 \def\beamer@next{%
2445 \begingroup
2446 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2447 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2448 \endgroup
2449 \@footnotemark\beamer@RTLfootnotetext#2}%
2450 \fi%
2451 \beamer@next}
2452
2453 \renewcommand<>{\LTRfootnote}[1][{}]{%
2454 \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2455 \let\beamer@mpfn=\@mpfn%
2456 \let\beamer@thempfn=\@thempfn%
2457 \let\beamer@kvorig=\KV@errx%
2458 \let\beamer@xkvorig=\XKV@err
2459 \def\beamer@footarg{}%
2460 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2461 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2462 \setkeys{beamerfootnote}{#1}%
2463 \let\KV@errx=\beamer@kvorig%
2464 \let\XKV@errx=\beamer@xkvorig
2465 \ifx\beamer@footarg\empty%
2466 \def\beamer@next{\stepcounter\beamer@mpfn
2467 \protected@xdef\@thefnmark{\beamer@thempfn}%
2468 \@footnotemark\beamer@LTRfootnotetext#2}%
2469 \else%
2470 \def\beamer@next{%
2471 \begingroup
2472 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2473 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2474 \endgroup
2475 \@footnotemark\beamer@LTRfootnotetext#2}%
2476 \fi%
2477 \beamer@next}
2478
2479

```



20 File beamerbaseframesize-xetex-bidi.def

```
2480 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beam
2481 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2482   \par\nointerlineskip%
2483   \global\beamer@slidehaszoomtrue%
2484   \advance\beamer@zoomcount by1\relax%
2485   \def\beamer@zoomborderwidth{0}%
2486   \edef\beamer@labelzoomed{\beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomc
2487   \setkeys{beamerzoom}{#3}%
2488   \only<#1>{%
2489     {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2490     \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2491       \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2492         \vbox to #7{%
2493           \hbox to#6{\hfil}%
2494           \vfil%
2495         }%
2496       \else%
2497         \begin{group}%
2498           \normalsize%
2499           \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2500             \pgfsetfillopacity{0}
2501             \pgftext[x=0cm,y=3pt]{.}
2502             \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2503           \end{pgfpicture}%
2504         \endgroup%
2505       \fi%
2506     }}}}%
2507   \ht\@tempboxa=0pt%
2508   \wd\@tempboxa=0pt%
2509   \dp\@tempboxa=0pt%
2510   \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@t
2511   \ht\@tempboxa=0pt%
2512   \wd\@tempboxa=0pt%
2513   \dp\@tempboxa=0pt%
2514   \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2515 }%
2516 \only<#2>{%
2517   \@ifundefined{\beamer@labelzoomed}%
2518   {%
2519     \hypertarget{\beamer@labelzoomed}{}%
2520     \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2521   }{}%
2522   \gdef\beamer@zoomer{%
2523     % compute zoom factor
2524     \@tempdima=\beamer@frametextheight%
2525     \@tempdimb=#7\relax%
2526     \@tempcnta=\@tempdimb%
2527     \divide\@tempcnta by4096\relax%
2528     \multiply\@tempdima by16\relax%
2529     \divide\@tempdima by\@tempcnta%
2530     \@tempdimb=\paperwidth%
2531     \ifbeamer@plainframe%
```



```

2532 \else%
2533 \advance\@tempdimb by-\beamer@leftsidebar%
2534 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2535 \fi%
2536 \@tempdimc=#6\relax%
2537 \@tempcntb=\@tempdimc%
2538 \divide\@tempcntb by4096\relax%
2539 \multiply\@tempdimb by16\relax%
2540 \divide\@tempdimb by\@tempcntb%
2541 \ifdim\@tempdimb<\@tempdima%
2542 \@tempdima=\@tempdimb%
2543 \fi%
2544 \edef\beamer@temp{\strip@pt\@tempdima}%
2545 \@tempdimc=\beamer@frametextheight%
2546 \advance\@tempdimc by4pt%
2547 \@tempdimb=\paperwidth%
2548 \ifbeamer@plainframe%
2549 \else%
2550 \advance\@tempdimb by-\beamer@leftsidebar%
2551 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2552 \fi%
2553 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2554 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2555 \ht\@tempboxa=0pt%
2556 \wd\@tempboxa=0pt%
2557 \dp\@tempboxa=0pt%
2558 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2559 \ifbeamer@plainframe\beamer@leftmargin=\Gm\lmargin\fi%
2560 \ifRTL
2561 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\paperwidth-\beamer@leftmargin}{\beamer@frametextheight}{\box\@tempboxa}
2562 \pgftext[right,top]{\box\@tempboxa}
2563 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2564 \pgfusepath{clip}
2565 \begingroup
2566 \pgftransformscale{\beamer@temp}
2567 \@tempdima=#4\relax%
2568 \@tempdimb=#5\relax%
2569 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}%
2570 \pgftext[right,top]{\vbox{\vbox{}}\nointerlineskip\unvbox\beamer@framebox}}
2571 \endgroup
2572 \end{pgfpicture}%
2573 \else
2574 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin}{\beamer@frametextheight}{\box\@tempboxa}
2575 \pgftext[left,top]{\box\@tempboxa}
2576 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2577 \pgfusepath{clip}
2578 \begingroup
2579 \pgftransformscale{\beamer@temp}
2580 \@tempdima=#4\relax%
2581 \@tempdimb=#5\relax%
2582 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}%
2583 \pgftext[left,top]{\vbox{\vbox{}}\nointerlineskip\unvbox\beamer@framebox}}
2584 \endgroup
2585 \end{pgfpicture}%

```



```

2586         \fi
2587     }%
2588 \setbox\beamer@framebox=\vbox{%
2589     \nobreak\vbox{ }\nobreak\par\nobreak\beamer@entrycode\nobreak%
2590     \nointerlineskip\unvbox\beamer@frametitlebox%
2591     \nobreak%
2592     \box\beamer@framebox%
2593     \nobreak%
2594     \vss%
2595     \beamer@exitcode%
2596 }%
2597 \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2598 }%
2599 }%
2600 }
2601
2602

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2603 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2604 \def\beamer@enum@{%
2605     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2606     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2607     \bgroup
2608     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2609     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2610     \egroup
2611     \expandafter
2612     \list
2613     {\usebeamertemplate{\beamer@enumtempl}}
2614     {\usecounter\@enumctr%
2615     \def\makelabel##1{\hss\llap{%
2616         \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2617         \usebeamerfont[fg]{enumerate \beameritemnestingprefix item}##1}}}%
2618     \beamer@cramped%
2619     \bidi@beamer@ragged%
2620     \beamer@firstlineitemizeunskip%
2621 }
2622
2623 \renewcommand{\itemize}[1] [] {%
2624     \ifblank{#1}{\def\beamer@defaultospec{#1}}%
2625     \ifnum \@itemdepth >2\relax\toodeep\else
2626         \advance\@itemdepth\@ne
2627         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2628         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2629         \bgroup
2630         \usebeamerfont[fg]{itemize/enumerate \beameritemnestingprefix body}%
2631         \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2632         \egroup
2633         \list
2634         {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2635         {\def\makelabel##1{%
2636             {%

```



```

2637         \hss\llap{%
2638             \usebeamerfont*{itemize \beameritemnestingprefix item}%
2639             \usebeamercolor[fg]{itemize \beameritemnestingprefix item}##1}}%
2640     }%
2641 }%
2642 }
2643 \fi%
2644 \beamer@cramped%
2645 \bidi@beamer@ragged%
2646 \beamer@firstlineitemizeunskip%
2647 }
2648
2649 \def\@@description{%
2650     \advance\beamer@descdefault by \labelsep%
2651     \usebeamerfont{description body}%
2652     \bgroup
2653     \usebeamercolor[fg]{description body}%
2654     \usebeamertemplate{description body begin}%
2655     \egroup
2656     \list
2657     {}
2658     {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descri
2659     \beamer@cramped%
2660     \bidi@beamer@ragged
2661     \beamer@firstlineitemizeunskip%
2662 }
2663
2664 \renewenvironment{thebibliography}[1]
2665 {%\leavevmode\unskip%
2666 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
2667 \bidi@thebibliography@font@hook%
2668 \list{\@biblabel{\@arabic\c@enumiv}}%
2669     {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2670     \leftmargin\labelwidth
2671     \advance\leftmargin\labelsep
2672     \itemsep=0pt%
2673     \partopsep=0pt%
2674     \topsep=0pt%
2675     \usecounter{enumiv}%
2676     \let\p@enumiv\@empty
2677     \renewcommand\theenumiv{\@arabic\c@enumiv}
2678     \let\makelabel\beamer@biblabeltemplate}%
2679     \sloppy\bidi@beamer@ragged
2680     \clubpenalty10000
2681     \@clubpenalty \clubpenalty
2682     \widowpenalty10000%
2683     \sfcode`. \@m}
2684 {\def\@noitemerr
2685     {\@latex@warning{Empty `thebibliography' environment}}%
2686     \ifhmode\unskip\fi\endlist}
2687
2688

```



22 File beamerbasemisc-xetex-bidi.def

```
2689 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbas
2690 \define@key{beamerst}{width}{%
2691   \def\beamer@ststart{%
2692     \begin{minipage}[t]{#1}%
2693       \bidi@beamer@ragged
2694       \beamer@stalign
2695       \beamer@stlinebreakrule
2696     }%
2697   \def\beamer@stend{\end{minipage}}}}
2698
2699
```

23 File beamerbasenavigation-xetex-bidi.def

```
2700 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for bea
2701 \def\slideentry#1#2#3#4#5#6{%
2702   %section number, subsection number, slide number, first/last frame, page number, part num
2703   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2704     \ifbeamer@compress%
2705       \advance\beamer@xpos by1\relax%
2706     \else%
2707       \ifnum#2=0%
2708         \beamer@ypos@offset=1\relax%
2709       \fi
2710       \beamer@xpos=#3\relax%
2711       \beamer@ypos=#2\relax%
2712       \advance\beamer@ypos by \beamer@ypos@offset\relax
2713     \fi%
2714   \hbox to 0pt{%
2715     \beamer@tempdim=-\beamer@vboxoffset%
2716     \advance\beamer@tempdim by-\beamer@boxsize%
2717     \multiply\beamer@tempdim by\beamer@ypos%
2718     \advance\beamer@tempdim by -.05cm%
2719     \raise\beamer@tempdim\hbox{%
2720       \beamer@tempdim=\beamer@boxsize%
2721       \multiply\beamer@tempdim by\beamer@xpos%
2722       \advance\beamer@tempdim by -\beamer@boxsize%
2723       \advance\beamer@tempdim by 1pt%
2724       \kern\beamer@tempdim
2725       \global\beamer@section@min@dim\beamer@tempdim
2726       \hbox{\beamer@link(#4){%
2727         \usebeamerfont{mini frame}%
2728         \ifnum\c@section=#1%
2729           \ifnum\c@subsection=#2%
2730             \usebeamercolor[fg]{mini frame}%
2731           \ifnum\c@subsectionslide=#3%
2732             \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2733           \else%
2734             \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhi
2735         \fi%
2736       \else%
2737         \usebeamercolor{mini frame}%

```



```

2738             %\color{fg!50!bg}%
2739             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2740             \fi%
2741         \else%
2742             \usebeamercolor{mini frame}%
2743             %\color{fg!50!bg}%
2744             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2745             \fi%
2746         }}}} \hskip-10cm plus 1fil%
2747     }\fi\fi%
2748     \else%
2749     \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2750     \fi\ignorespaces
2751     }
2752
2753 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2754 {
2755     \pgfpathmoveto{3.5bp}{0.5bp}
2756     \pgfpathqlineto{1.5bp}{2bp}
2757     \pgfpathqlineto{3.5bp}{3.5bp}
2758     \pgfusepathqfill
2759 }
2760
2761 \def\insertgotosymbol{%
2762 \if@RTL
2763     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2764         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2765     \end{pgfpicture}%
2766 \else
2767     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2768         \pgfuseobject{beamergotosymbol}%
2769     \end{pgfpicture}%
2770 \fi
2771 }
2772
2773 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2774 {
2775     \pgfpathmoveto{5.5bp}{0.5bp}
2776     \pgfpathqlineto{3.5bp}{2bp}
2777     \pgfpathqlineto{5.5bp}{3.5bp}
2778     \pgfpathmoveto{3.5bp}{0.5bp}
2779     \pgfpathqlineto{1.5bp}{2bp}
2780     \pgfpathqlineto{3.5bp}{3.5bp}
2781     \pgfusepathqfill
2782 }
2783
2784 \def\insertskipsymbol{%
2785 \if@RTL
2786     \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2787         \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2788     \end{pgfpicture}%
2789 \else
2790     \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2791         \pgfuseobject{beamerskipsymbol}%

```



```

2792 \end{pgfpicture}%
2793 \fi
2794 }
2795
2796 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2797 {
2798 \pgfpathmoveto{1.5bp}{0.5bp}
2799 \pgfpathqlineto{3.5bp}{2bp}
2800 \pgfpathqlineto{1.5bp}{3.5bp}
2801 \pgfusepathqfill
2802 }
2803
2804 \def\insertreturnsymbol{%
2805 \if@RTL
2806 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2807 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2808 \end{pgfpicture}%
2809 \else
2810 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2811 \pgfuseobject{beamerreturnsymbol}%
2812 \end{pgfpicture}%
2813 \fi
2814 }
2815
2816

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2817 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2818 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2819
2820

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2821 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2822 \newcommand*{\bidi@beamer@leftskip}{%
2823 \if@RTL
2824 \rightskip
2825 \else
2826 \leftskip
2827 \fi
2828 }
2829
2830 \newcommand*{\bidi@beamer@rightskip}{%
2831 \if@RTL
2832 \leftskip
2833 \else
2834 \rightskip
2835 \fi
2836 }
2837
2838 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2839

```



```

2840 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2841
2842 \defbeamertemplate*{subsection in toc}{default}
2843 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2844
2845 \defbeamertemplate*{subsubsection in toc}{default}
2846 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2847 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2848
2849 \newcommand*{\bidi@beamer@blacktriangle}{%
2850 \ifRTL
2851   $\blacktriangleleft$%
2852 \else
2853   $\blacktriangleright$%
2854 \fi
2855 }
2856
2857 \bidi@csundef{beamer@@tmpop@itemize item@default}
2858
2859 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2860
2861 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2862
2863 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{
2864 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\h
2865 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1
2866
2867 \bidi@undef\beamer@@tmpop@footnote@default
2868
2869 \defbeamertemplate*{footnote}{default}
2870 {
2871 \parindent 1em\noindent%
2872 \bidi@beamer@ragged
2873 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2874 }
2875
2876 \defbeamertemplate*{RTLfootnote}{default}
2877 {
2878 \parindent 1em\noindent%
2879 \raggedleft
2880 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2881 }
2882
2883 \defbeamertemplate*{LTRfootnote}{default}
2884 {
2885 \parindent 1em\noindent%
2886 \raggedright
2887 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2888 }
2889
2890 \bidi@undef\beamer@@tmpop@caption@default
2891
2892 \defbeamertemplate*{caption}{default}
2893 {%

```



```

2894 \bidi@beamer@ragged
2895 {%
2896 \leavevmode
2897 \usebeamerfont[fg]{caption name}%
2898 \usebeamerfont*{caption name}%
2899 \insertcaptionname
2900 \usebeamertemplate{caption label separator}%
2901 }%
2902 \insertcaption\par
2903 }
2904
2905 \bidi@csundef{beamer@@tmpop@block begin@default}
2906
2907 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2908
2909 \bidi@csundef{beamer@@tmpop@block example begin@default}
2910
2911 \defbeamertemplate*{block begin}{default}
2912 {
2913 \par\vskip\medskipamount%
2914 \begin{beamercolorbox}[colsep*=.75ex]{block title}
2915 \usebeamerfont*{block title}\insertblocktitle%
2916 \end{beamercolorbox}%
2917 {\parskip0pt\par}%
2918 \ifbeamercoloreempty[bg]{block title}
2919 {}
2920 {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2921 \usebeamerfont{block body}%
2922 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2923 \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\base
2924 }
2925
2926 \defbeamertemplate*{block alerted begin}{default}
2927 {
2928 \par\vskip\medskipamount%
2929 \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2930 \usebeamerfont*{block title alerted}\insertblocktitle%
2931 \end{beamercolorbox}%
2932 {\parskip0pt\par}%
2933 \ifbeamercoloreempty[bg]{block title alerted}
2934 {}
2935 {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2936 \usebeamerfont{block body alerted}%
2937 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2938 \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75
2939 }
2940
2941 \defbeamertemplate*{block example begin}{default}
2942 {
2943 \par\vskip\medskipamount%
2944 \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2945 \usebeamerfont*{block title example}\insertblocktitle%
2946 \end{beamercolorbox}%
2947 {\parskip0pt\par}%

```



```

2948 \ifbeamercolorempy[bg]{block title example}
2949 {}
2950 {\ifbeamercolorempy[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2951 \usebeamerfont{block body example}%
2952 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2953   \ifbeamercolorempy[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75
2954 }
2955
2956 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2957
2958 \defbeamertemplate*{abstract begin}{default}
2959 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fi
2960
2961 \bidi@undef\beamer@@tmpop@button@default
2962
2963 \defbeamertemplate*{button}{default}
2964 {%
2965   \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2966   \ht\beamer@tempbox=6pt%
2967   \dp\beamer@tempbox=0pt%
2968   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2969   \beamer@tempdim=\wd\beamer@tempbox%
2970   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2971   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2972   \if@RTL
2973     \kern4pt%
2974     \box\beamer@tempbox%
2975     \hskip-\beamer@tempdim%
2976   \fi
2977   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2978     \color{bg}
2979     \pgfsetlinewidth{0.8pt}
2980     \pgfpathqmoveto{0pt}{0pt}
2981     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2982     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2983     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2984     \pgfpathcurveto%
2985       {\pgfpoint{\the\beamer@dima}{8pt}}%
2986       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2987       {\pgfpoint{\the\beamer@dimb}{4pt}}
2988     \pgfpathcurveto%
2989       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2990       {\pgfpoint{\the\beamer@dima}{0pt}}%
2991       {\pgfpoint{\the\beamer@tempdim}{0pt}}
2992     \pgfpathclose
2993     \pgfusepathqfill
2994     \colorlet{bg}{parent.bg}
2995     \usebeamercolor[fg]{button border}
2996     \pgfpathqmoveto{0pt}{0pt}
2997     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2998     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2999     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
3000     \pgfpathcurveto%
3001       {\pgfpoint{\the\beamer@dima}{8pt}}%

```



```

3002     {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
3003     {\pgfpoint{\the\beamer@dimb}{4pt}}
3004     \pgfpathcurveto%
3005     {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3006     {\pgfpoint{\the\beamer@dimb}{0pt}}%
3007     {\pgfpoint{\the\beamer@tempdim}{0pt}}
3008     \pgfpathclose
3009     \pgfusepathqstroke
3010 \end{pgfpicture}%
3011 \if@RTL
3012 \else
3013     \hskip-\beamer@tempdim%
3014     \box\beamer@tempbox%
3015     \kern4pt%
3016 \fi
3017 }
3018
3019

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3020 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for
3021 \setbeamertemplate{sections/subsections in toc}[circle]
3022

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3023 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for be
3024 \setbeamertemplate{section in toc}[square]
3025 \setbeamertemplate{subsection in toc}[square]
3026
3027 \setbeamertemplate{itemize items}[square]
3028 \setbeamertemplate{itemize subitem}[triangle]
3029
3030 \bidi@csundef{beamer@tmpop@title page@focus}
3031
3032 \defbeamertemplate*{title page}{focus}{%
3033     {%
3034         \usebeamercolor{frametitle}\colorlet{focus@temp}{bg}%
3035         \begin{tikzpicture}[overlay, remember picture]
3036             \fill[color=focus@temp] (current page.north west) rectangle ([shift = {(0, -0.
3037         \end{tikzpicture}
3038     }
3039
3040     \vspace{-1.65\baselineskip}
3041     \begin{minipage}[b] [0.35\paperheight] {\textwidth}
3042         \vspace{\baselineskip}
3043         \usebeamerfont{title}
3044         \usebeamercolor[fg]{frametitle}
3045         \inserttitle
3046     \end{minipage}
3047
3048     \begin{minipage}[t] [0.1\paperheight] {\textwidth}
3049         \usebeamerfont{subtitle}

```



```

3050     \usebeamercolor[fg]{frametitle}
3051     \insertsubtitle
3052 \end{minipage}
3053
3054 % Set the title graphic in a zero-height box, so that
3055 % the position of other elements is not affected.
3056 {\vfuzz=9999pt\vbox to 0pt {
3057   \if@RTL
3058     \raggedright
3059   \else
3060     \raggedleft
3061   \fi
3062   \inserttitlegraphic
3063 }}
3064
3065 \begin{minipage}[t]{\textwidth}
3066   \usebeamerfont{author}
3067   \insertauthor
3068 \end{minipage}
3069
3070 \vspace*{\baselineskip}
3071 \begin{minipage}[t]{\textwidth}
3072   \usebeamerfont{institute}
3073   \insertinstitute
3074 \end{minipage}
3075
3076 \vspace*{\baselineskip}
3077 \begin{minipage}[t]{\textwidth}
3078   \usebeamerfont{date}
3079   \insertdate
3080 \end{minipage}
3081
3082 \vspace*{0pt plus 100fill}
3083
3084 \addtocounter{framenummer}{-1}
3085 \addtocounter{realframenummer}{-1}
3086 }
3087
3088
3089

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3090 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3091 \AtBeginDocument{%
3092   \setbeamersize{sidebar width left=.25\paperwidth}%
3093 }
3094
3095 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3096
3097 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3098
3099 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3100

```




```

3101 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3102
3103 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3104
3105 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3106
3107 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3108
3109 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
3110
3111 \defbeamerteremplate*{section in toc}{inmargin}
3112 {\leavevmode
3113   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3114
3115 \defbeamerteremplate*{title page}{inmargin}
3116 {
3117   \begin{block}{\inserttitleindicator}
3118     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3119     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3120   \end{block}
3121   \vfill
3122   \ifx\insertauthor\@empty
3123   \else
3124     \begin{block}{\insertauthorindicator}
3125       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3126     \end{block}
3127     \fi
3128     \ifx\insertinstitute\@empty
3129     \else
3130       \begin{block}{\insertinstituteindicator}
3131         \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3132       \end{block}
3133       \fi
3134       \ifx\insertdate\@empty
3135       \else
3136         \begin{block}{\insertdateindicator}
3137           \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3138         \end{block}
3139         \fi
3140     }
3141
3142 \defbeamerteremplate*{block begin}{inmargin}
3143 {
3144   \par\vskip\medskipamount%
3145   \leavevmode%
3146   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}}\
3147   \beginL\beamer@putright
3148   %\usebeamercolor[fg]{block body}% to be done!
3149 }
3150
3151 \defbeamerteremplate*{block end}{inmargin}
3152 {\endbeamer@putright\endL\vskip\smallskipamount}
3153
3154 \defbeamerteremplate*{block alerted begin}{inmargin}

```



```

3155 {
3156   \par\vskip\medskipamount%
3157   \leavevmode%
3158   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block
3159   \beginL\beamer@putright
3160   %\usebeamercolor[fg]{block body alerted}% to be done!
3161 }
3162
3163 \defbeamertemplate*{block alerted end}{inmargin}
3164 {\endbeamer@putright\endL\vskip\smallskipamount}
3165
3166 \defbeamertemplate*{block example begin}{inmargin}
3167 {
3168   \par\vskip\medskipamount%
3169   \leavevmode%
3170   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}\usebeamerfont*{block
3171   \beginL\beamer@putright
3172   %\usebeamercolor[fg]{block body example}% to be done
3173 }
3174
3175 \defbeamertemplate*{block example end}{inmargin}
3176 {\endbeamer@putright\endL\vskip\smallskipamount}
3177
3178 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3179   \setbeamertemplate{section in toc}[inmargin]%
3180   \setbeamertemplate{subsection in toc}[inmargin]%
3181   \setbeamertemplate{subsubsection in toc}[inmargin]%
3182 }
3183
3184

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3185 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations f
3186 \setbeamertemplate{title}{
3187   \bidi@beamer@ragged%
3188   \linespread{1.0}%
3189   \inserttitle%
3190   \par%
3191   \vspace*{0.5em}
3192 }
3193
3194 \setbeamertemplate{subtitle}{
3195   \bidi@beamer@ragged%
3196   \insertsubtitle%
3197   \par%
3198   \vspace*{0.5em}
3199 }
3200
3201 \bidi@csundef{beamer@tmpop@section page@progressbar}
3202
3203 \defbeamertemplate{section page}{progressbar}{
3204   \centering
3205   \begin{minipage}{22em}

```



```

3206 \bidi@beamer@ragged
3207 \usebeamercolor[fg]{section title}
3208 \usebeamerfont{section title}
3209 \insertsectionhead\[-1ex]
3210 \usebeamertemplate*{progress bar in section page}
3211 \par
3212 \ifx\insertsubsectionhead\@empty\else%
3213 \usebeamercolor[fg]{subsection title}%
3214 \usebeamerfont{subsection title}%
3215 \insertsubsectionhead
3216 \fi
3217 \end{minipage}
3218 \par
3219 \vspace{\baselineskip}
3220 }
3221
3222 \setbeamertemplate{progress bar in section page}{
3223 \setlength{\metropolis@progressonsectionpage}{%
3224 \textwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}}%
3225 }%
3226 \begin{tikzpicture}
3227 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3228 \if@RTLmain
3229 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage);
3230 \else
3231 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage);
3232 \fi
3233 \end{tikzpicture}%
3234 }
3235
3236 \renewcommand{\metropolis@block}[1]{
3237 \par\vskip\medskipamount%
3238 \setlength{\parskip}{0pt}
3239 \ifbeamercoloreempty[bg]{block title#1}{%
3240 \if@RTL
3241 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3242 \else
3243 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3244 \fi
3245 }{%
3246 \ifbeamercoloreempty[bg]{block title}{%
3247 \if@RTL
3248 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3249 \else
3250 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3251 \fi
3252 }%
3253 }%
3254 \if@RTL
3255 \begin{beamercolorbox}[
3256 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3257 rightskip=\metropolis@blockadjust,
3258 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3259 ]{block title#1}%

```



```

3260 \else
3261 \begin{beamercolorbox}[
3262   sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3263   leftskip=\metropolis@blockadjust,
3264   rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3265 ]{block title#1}%
3266 \fi
3267 }}%
3268 \usebeamerfont*{block title#1}%
3269 \metropolis@strut%
3270 \insertblocktitle%
3271 \metropolis@strut%
3272 \end{beamercolorbox}%
3273 \nointerlineskip%
3274 \ifbeamercolorempy[bg]{block body#1}{%
3275 \begin{beamercolorbox}[vmode]{block body#1}}{
3276 \ifbeamercolorempy[bg]{block body}{%
3277 \begin{beamercolorbox}[vmode]{block body#1}%
3278 }{%
3279 \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3280 \vspace{-\metropolis@parskip}
3281 }}%
3282 \usebeamerfont{block body#1}%
3283 \setlength{\parskip}{\metropolis@parskip}%
3284 }
3285
3286
3287 \setbeamertemplate{footnote}{%
3288 \parindent 0em\noindent%
3289 \bidi@beamer@ragged
3290 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3291 }
3292
3293 \setbeamertemplate{RTLfootnote}{%
3294 \parindent 0em\noindent%
3295 \raggedleft
3296 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3297 }
3298
3299 \setbeamertemplate{LTRfootnote}{%
3300 \parindent 0em\noindent%
3301 \raggedright
3302 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3303 }
3304
3305 \setbeamertemplate{itemize items}{\textbullet}
3306
3307 \setbeamertemplate{section page}[progressbar]
3308
3309

```

30 File beamerinnerthemerectangles-xetex-bidi.def

```

3310 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations f

```



```

3311 \setbeamertemplate{sections/subsections in toc}[square]
3312 \setbeamertemplate{items}[square]
3313

```

31 File beamerinnerthemerounded-xetex-bidi.def

```

3314 \ProvidesFile{beamerinnerthemerounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for
3315 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themerounded@shadow]
3316 \setbeamertemplate{items}[ball]
3317 \setbeamertemplate{sections/subsections in toc}[ball]
3318

```

32 File beamerouterthemedefault-xetex-bidi.def

```

3319 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for
3320 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.7cm}
3321
3322 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.7cm}
3323
3324 \AtBeginDocument{%
3325   \if@RTLmain
3326     \setbeamertemplate{frametitle}[default] [right]
3327   \fi
3328 }
3329
3330 \bidi@csundef{beamer@tmpop@note page@default}
3331
3332 \newcommand*\bidi@beamer@today{%
3333 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3334
3335 \defbeamertemplate*{note page}{default}
3336 {%
3337   {%
3338     \scriptsize
3339     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3340     \ifbeamercolorempy[bg]{note title}{-}{%
3341       \insertvrule{.25\paperheight}{note title.bg}%
3342       \vskip-.25\paperheight%
3343       \nointerlineskip%
3344     }%
3345     \vbox{
3346       \hfill\insertslideintonotes{0.25}\hskip-\Gm@margin\hskipOpt%
3347       \vskip-0.25\paperheight%
3348       \nointerlineskip
3349       \if@RTL
3350         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3351           \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3352             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}%
3353               \pgftext [base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@beamer@today}
3354             \end{pgflowlevelscope}
3355           \end{pgfpicture}%
3356         \else
3357         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3358           \begin{pgflowlevelscope}{\pgftransformrotate{90}}

```



```

3359         {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3360         \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3361         \end{pgflowlevelslope}
3362         \end{pgfpicture}%
3363         \fi}
3364     \nointerlineskip
3365     \vbox to .25\paperheight{\vskip0.5em
3366     \if@RTL
3367         \moveright0.25\textwidth
3368     \fi
3369         \hbox{\insertshorttitle[width=0.75\textwidth]}%
3370         \setbox\beamer@tempbox=\hbox{\insertsection}%
3371
3372 \if@RTL
3373     \moveright\dimexpr0.29\textwidth-14pt\relax
3374 \fi
3375 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3376         width0.4pt height7pt\vrule width 9pt
3377         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}
3378     \if@RTL\endR\fi}%
3379     \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3380
3381 \if@RTL
3382     \moveright\dimexpr0.29\textwidth-27.4pt\relax
3383 \fi     \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vr
3384         width0.4pt height7pt\vrule width 9pt
3385         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}
3386     \if@RTL\endR\fi}%
3387     \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3388
3389 \if@RTL
3390     \moveright\dimexpr0.33\textwidth-40.8pt\relax
3391 \fi     \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vr
3392         width0.4pt height7pt\vrule width 9pt
3393         height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3394     \if@RTL\endR\fi}%
3395     \vfil}%
3396 }%
3397 \ifbeamercoloreempty[bg]{note page}{}{%
3398     \nointerlineskip%
3399     \insertvrule{.75\paperheight}{note page.bg}%
3400     \vskip-.75\paperheight%
3401 }%
3402 \vskip.25em
3403 \nointerlineskip
3404 \insertnote
3405 }
3406
3407
3408

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3409 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for be

```



```

3410 \bidi@undef\beamer@@tmpop@footline@progressbar
3411
3412 \defbeamer*{footline}{progressbar}{%
3413   % If not appendix.
3414   \ifnum\mainend<0% From package appendixnumberbeamer.
3415   %
3416   \settoheight{\focus@pbar@leftoffset}{1}%
3417   \addtolength{\focus@pbar@leftoffset}{1.5em}%
3418   %
3419   \ifx\beamer@focus@totalframenumbering\no%
3420     \settoheight{\focus@pbar@rightoffset}{}%
3421     \addtolength{\focus@pbar@rightoffset}{0.5em}%
3422   \else%
3423     \settoheight{\focus@pbar@rightoffset}{\inserttotalframenumber}%
3424     \addtolength{\focus@pbar@rightoffset}{1.5em}%
3425   \fi%
3426   %
3427   % If not title page.
3428   \ifnum\value{realframenumber}>0%
3429     \ifnum\value{framenumber}<\inserttotalframenumber%
3430       \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footl
3431         \pgfmathsetmacro{\focus@pbar@progress}%
3432           {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\ins
3433
3434         \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3435 \if@RTLmain
3436         \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftof
3437         \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3438           ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west]
3439 \else
3440         \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\
3441         \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@p
3442           ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east]
3443 \fi
3444         \ifx\beamer@focus@totalframenumbering\no%
3445         \else%
3446 \if@RTLmain
3447           \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\
3448           ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=
3449 \else
3450           \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@ri
3451           ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=
3452 \fi
3453         \fi%
3454         \end{tikzpicture}%
3455       \else%
3456         \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3457           \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3458           \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@heigh
3459 \if@RTLmain
3460           \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*
3461 \else
3462           \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@righto
3463 \fi

```



```

3464         \ifx\beamer@focus@totalframenumbering\no%
3465         \else%
3466 \if@RTLmain
3467             \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pb
3468             \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{
3469 \else
3470             \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0
3471             \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@ri
3472 \fi
3473             \fi%
3474             \end{tikzpicture}%
3475             \fi%
3476             \fi%
3477             \fi%
3478 }
3479
3480

```

34 File beamerouterthemeinfolines-xetex-bidi.def

```

3481 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations fo
3482 \bidi@csundef{beamer@tmpop@footline@infolines theme}
3483
3484 \defbeamertemplate*{footline}{infolines theme}
3485 {%
3486     \leavevmode%
3487     \hbox{%
3488         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}
3489             \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\
3490         \end{beamercolorbox}%
3491         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}
3492             \usebeamerfont{title in head/foot}\insertshorttitle
3493         \end{beamercolorbox}%
3494         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,
3495             \hfill%
3496             \usebeamerfont{date in head/foot}%
3497             \insertshortdate{}%
3498             \hfill%
3499             \bgroup
3500             \usebeamerfont[fg]{page number in head/foot}%
3501             \usebeamerfont{page number in head/foot}%
3502             \usebeamertemplate{page number in head/foot}%
3503             \egroup
3504         \end{beamercolorbox}}%
3505         \vskip0pt%
3506     }
3507
3508 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3509
3510 \defbeamertemplate*{headline}{infolines theme}
3511 {%
3512     \leavevmode%
3513     \hbox{%
3514         \if@RTL

```




```

3515 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3516 \else
3517 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3518 \fi
3519 \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3520 \end{beamercolorbox}%
3521 \if@RTL
3522 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3523 \else
3524 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3525 \fi
3526 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3527 \end{beamercolorbox}}%
3528 \vskip0pt%
3529 }
3530
3531 \bidi@AfterFile{beamerouterthememetroplit-xetex-bidi.def}{%
3532 \setbeamertemplate{footline}[infolines theme]%
3533 }
3534

```

35 File beamerouterthememetropolis-xetex-bidi.def

```

3535 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations f
3536 \setbeamertemplate{progress bar in head/foot}{
3537 \nointerlineskip
3538 \setlength{\metropolis@progressinheadfoot}{%
3539 \paperwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}}%
3540 }%
3541 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3542 \begin{tikzpicture}
3543 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3544 \if@RTLmain
3545 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \met
3546 \else
3547 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinhead
3548 \fi
3549 \end{tikzpicture}%
3550 \end{beamercolorbox}
3551 }
3552
3553 \AtBeginDocument{%
3554 \setbeamertemplate{frametitle}[plain]%
3555 }
3556
3557

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3558 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3559 \bidi@csundef{beamer@@tmpop@headline@miniframes theme}
3560
3561 \defbeamertemplate*{headline}{miniframes theme}
3562 {%

```



```

3563 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3564 \end{beamercolorbox}
3565 \begin{beamercolorbox}{section in head/foot}
3566 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3567 \end{beamercolorbox}%
3568 \ifbeamer@theme@subsection%
3569 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3570 \end{beamercolorbox}
3571 \if@RTL
3572 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3573 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3574 \else
3575 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3576 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3577 \fi
3578 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3579 \end{beamercolorbox}%
3580 \fi%
3581 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3582 \end{beamercolorbox}
3583 }
3584
3585

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3586 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for
3587 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3588
3589 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3590
3591 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3592
3593 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3594
3595 \ifdim\beamer@headheight>0pt
3596
3597 \defbeamertemplate*{frametitle}{sidebar theme}
3598 {%
3599 \nointerlineskip%
3600 \ifbeamer@plainframe%
3601 \hbox{\usebeamercolor[bg]{frametitle}%
3602 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3603 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3604 \nointerlineskip%
3605 \fi%
3606 \vskip-\beamer@headheight%
3607 \vbox to \beamer@headheight{%
3608 \vfil
3609 \bidi@beamer@leftskip=-\beamer@leftmargin%
3610 \advance\bidi@beamer@leftskip by0.3cm%
3611 \bidi@beamer@rightskip=-\beamer@rightmargin%
3612 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3613 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par

```



```

3614     \ifx\insertframesubtitle\@empty\else%
3615         {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesubtitle}%
3616     \fi%
3617     \vbox{}%
3618     \vskip-1em%
3619     \vfil
3620 }%
3621 }
3622
3623 \AtBeginDocument{%
3624     \setbeamertheme{frametitle}[sidebar theme]%
3625 }
3626
3627 \defbeamertheme*{headline}{sidebar theme}
3628 {%
3629     \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3630         \ifx\beamer@sidebarside\beamer@lefttext%
3631             \else%
3632                 \hfill%
3633             \fi%
3634         \ifdim\beamer@sidebarwidth>0pt%
3635             \bgroup
3636             \usebeamercolor[bg]{logo}%
3637             \if@RTLmain
3638             \else
3639                 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3640                 \hskip-\beamer@sidebarwidth%
3641             \fi
3642             \hbox to \beamer@sidebarwidth{\hss\vbox to
3643                 \beamer@headheight{\vss\hbox{\color{fg}\insertlogo}\vss}\hss}%
3644             \if@RTLmain
3645                 \hskip-\beamer@sidebarwidth%
3646                 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3647             \fi
3648             \egroup
3649         \else%
3650             \vrule width0pt height \beamer@headheight%
3651         \fi%
3652     \end{beamercolorbox}
3653 }
3654 \fi
3655
3656 \def\beamer@sidebarformat#1#2#3{%
3657 \if@RTL
3658     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#2}
3659 \else
3660     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#2}
3661 \fi
3662     \vbox{}%
3663     #3\par%
3664     \vbox{}%
3665     \vskip-1.5ex%
3666     \end{beamercolorbox}
3667 }

```



```

3668
3669 \ifdim\beamer@sidebarwidth>0pt
3670
3671 \AtBeginDocument{%
3672   \setbeamerfont{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3673 }
3674
3675 \defbeamerfont*{sidebar \beamer@sidebarside}{sidebar theme}
3676 {
3677   \beamer@tempdim=\beamer@sidebarwidth%
3678   \advance\beamer@tempdim by -6pt%
3679   {\usebeamerfont{title in sidebar}%
3680     \vskip1.5em%
3681     \hskip3pt%
3682     \bgroup
3683     \usebeamerfont[fg]{title in sidebar}%
3684     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3685     \vskip1.25em%
3686   }%
3687   {%
3688     \hskip3pt%
3689     \bgroup
3690     \usebeamerfont[fg]{author in sidebar}%
3691     \usebeamerfont{author in sidebar}%
3692     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3693     \vskip1.25em%
3694   }%
3695   \insertverticalnavigation{\beamer@sidebarwidth}%
3696   \vfill
3697   \ifx\beamer@sidebarside\beamer@lefttext%
3698   \else%
3699     \usebeamerfont{normal text}%
3700     \llap{\usebeamerfont***{navigation symbols}\hskip0.1cm}%
3701     \vskip2pt%
3702   \fi%
3703 }%
3704 \fi
3705

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3706 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for be
3707 \bidi@csundef{beamer@tmpop@footline@split theme}
3708
3709 \defbeamerfont*{footline}{split theme}
3710 {%
3711   \leavevmode%
3712   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm p
3713 \else
3714 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plusfill,rightsk
3715 \fi
3716   \usebeamerfont{author in head/footer}\insertshortauthor
3717   \end{beamercolorbox}%
3718 \if@RTL

```



```

3719 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3720 \else
3721 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm
3722 \fi
3723 \usebeamerfont{title in head/footer}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor
3724 \end{beamercolorbox}}%
3725 \vskip0pt%
3726 }
3727
3728

```

39 File beamerouterthemeshadow-xetex-bidi.def

```

3729 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for b
3730 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitles
3731 color(0pt)=(frametitle right.bg);
3732 color(\paperwidth)=(frametitle.bg)
3733 }
3734
3735 \newcommand*{\bidi@beamer@frametitleshade}{%
3736 \if@RTLmain
3737 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3738 \else
3739 \pgfuses shading{beamer@frametitleshade}%
3740 \fi
3741 }
3742
3743 \bidi@csundef{beamer@tmpop@frametitle@shadow theme}
3744
3745 \defbeamer@template*{frametitle}{shadow theme}
3746 {%
3747 \nointerlineskip%
3748 \vskip-2pt%
3749 \hbox{\leavevmode
3750 \advance\beamer@leftmargin by -12bp%
3751 \advance\beamer@rightmargin by -12bp%
3752 \beamer@tempdim=\textwidth%
3753 \advance\beamer@tempdim by \beamer@leftmargin%
3754 \advance\beamer@tempdim by \beamer@rightmargin%
3755 \hskip-\Gm@lmargin\hbox{%
3756 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3757 \vbox{\vskip-.75ex%
3758 \bidi@beamer@leftskip0.3cm%
3759 \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3760 \bgroup\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertfram
3761 \ifx\insertframesubtitle\@empty\else%
3762 {\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\insertframes
3763 \fi%
3764 \nointerlineskip
3765 \vbox{}}%
3766 \end{minipage}}}%
3767 \beamer@tempdim=\ht\beamer@tempbox%
3768 \advance\beamer@tempdim by 2pt%
3769 \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}

```



```

3770     \begin{pgfscope}
3771         \pgfsetfillcolor{black}%
3772         \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3773         \pgfsetfading{beamer@topshadowmask}{}%
3774         \pgfusepath{fill}%
3775     \end{pgfscope}
3776     \begin{pgfscope}
3777         \usebeamercolor{frametitle right}%
3778         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3779         \pgfusepath{clip}%
3780         \pgftext [left,base] {\bidi@beamer@frametitleshade}%
3781     \end{pgfscope}
3782 \end{pgfpicture}
3783 \hskip-\paperwidth%
3784 \box\beamer@tempbox%
3785 }%
3786 \hskip-\Gm@rmargin%
3787 }%
3788 \vskip-2pt
3789 }
3790
3791 \AtBeginDocument{%
3792   \setbeamertemplate{frametitle}[shadow theme]%
3793 }
3794
3795

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3796 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations]
3797 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3798
3799 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3800
3801 \defbeamertemplate*{headline}{smoothbars theme}
3802 {%
3803   \pgfuseshading{beamer@barshade}%
3804   \vskip-0.05ex%
3805   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3806   \begin{pgfpicture}
3807     \begin{pgfscope}%
3808       \ifbeamer@sb@subsection%
3809         \pgfsetfillcolor{subsection in head/foot.bg}%
3810       \else%
3811         \pgfsetfillcolor{section in head/foot.bg}%
3812       \fi%
3813       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3814       \pgfsetfading{beamer@belowframetitlemask}{}%
3815       \pgfusepath{fill}%
3816     \end{pgfscope}%
3817   \end{pgfpicture}%
3818 \end{beamercolorbox}%
3819 \ifbeamer@sb@subsection%
3820   \vskip-9.75ex%

```



```

3821 \else%
3822 \vskip-6.85ex%
3823 \fi%
3824 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3825 \insertnavigation{\paperwidth}
3826 \end{beamercolorbox}%
3827 \ifbeamer@sb@subsection%
3828 \if@RTL
3829 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3830 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3831 \else
3832 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3833 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3834 \fi
3835 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3836 \end{beamercolorbox}%
3837 \fi%
3838 }%
3839
3840 \defbeamertemplate*{frametitle}{smoothbars theme}
3841 {%
3842 \nointerlineskip%
3843 \vskip-0.19ex%
3844 \usebeamerfont{headline}%
3845 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3846 \pgfuses shading{beamer@aboveframetitle}%
3847 \end{beamercolorbox}%
3848 \vskip-1ex%
3849 \nointerlineskip%
3850 \if@RTL
3851 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{framet
3852 \else
3853 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{framet
3854 \fi
3855 \vskip0.5ex%
3856 \usebeamerfont*{frametitle}\strut\insertframetitle%
3857 \ifx\insertframesubtitle\@empty%
3858 \strut\par%
3859 \else
3860 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor [fg]{framesubtitle}\strut\insert
3861 \fi}%
3862 \usebeamerfont{headline}%
3863 \vskip0.05ex%
3864 \end{beamercolorbox}%
3865 \nointerlineskip%
3866 \vskip-0.05ex%
3867 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3868 \begin{pgfpicture}
3869 \begin{pgfscope}%
3870 \pgfsetfillcolor{frametitle.bg}%
3871 \pgfpathrectangle{\pgfpoint{- .5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3872 \pgfsetfading{beamer@belowframetitlemask}{}%
3873 \pgfusepath{fill}%
3874 \end{pgfscope}%

```



```

3875 \end{pgfpicture}%
3876 \end{beamercolorbox}%
3877 }
3878
3879 \AtBeginDocument{%
3880 \setbeamertheme{frametitle}[smoothbars theme]%
3881 }
3882
3883

```

41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3884 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3885 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3886
3887 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3888
3889 \defbeamertheme*{headline}{smoothtree theme}
3890 {%
3891 \pgfuseshading{beamer@treeshade}%
3892 \vskip-0.05ex%
3893 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3894 \begin{pgfpicture}
3895 \begin{pgfscope}%
3896 \pgfsetfillcolor{subsection in head/foot.bg}%
3897 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3898 \pgfsetfading{beamer@belowframetitlemask}{}%
3899 \pgfusepath{fill}%
3900 \end{pgfscope}%
3901 \end{pgfpicture}%
3902 \end{beamercolorbox}%
3903 \vskip-9.15ex%
3904 \if@RTL
3905 \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3906 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3907 \else
3908 \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3909 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3910 \fi
3911 \usebeamerfont{title in head/foot}\insertshorttitle
3912 \end{beamercolorbox}
3913 \if@RTL
3914 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3915 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3916 \else
3917 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3918 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3919 \fi
3920 \usebeamerfont{section in head/foot}%
3921 \hskip6pt\insertsectionhead
3922 \end{beamercolorbox}
3923 \if@RTL
3924 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3925 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}

```




```

3926 \else
3927 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3928 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3929 \fi
3930 \usebeamerfont{subsection in head/foot}%
3931 \hskip12pt\insertsubsectionhead
3932 \end{beamercolorbox}
3933 \vskip-0.4ex%
3934 }
3935
3936 \defbeamertemplate*{frametitle}{smoothtree theme}
3937 {%
3938 \nointerlineskip%
3939 \vskip-0.05ex%
3940 \usebeamerfont{headline}%
3941 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3942 \pgfuses shading{beamer@aboveframetitle}%
3943 \end{beamercolorbox}
3944 \nointerlineskip%
3945 \if@RTL
3946 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3947 \else
3948 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3949 \fi
3950 \vskip-1.2ex%
3951 \usebeamerfont*{frametitle}\strut\insertframetitle%
3952 \ifx\insertframesubtitle\@empty%
3953 \strut\par%
3954 \else
3955 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insert
3956 \fi}%
3957 \usebeamerfont{headline}%
3958 \end{beamercolorbox}%
3959 \nointerlineskip
3960 \vskip-0.2ex%
3961 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3962 \begin{pgfpicture}
3963 \begin{pgfscope}%
3964 \pgfsetfillcolor{frametitle.bg}%
3965 \pgfpathrectangle{\pgfpoint{- .5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3966 \pgfsetfading{beamer@belowframetitlemask}{}%
3967 \pgfusepath{fill}%
3968 \end{pgfscope}%
3969 \end{pgfpicture}%
3970 \end{beamercolorbox}%
3971 }
3972
3973
3974 \AtBeginDocument{%
3975 \setbeamertemplate{frametitle}[smoothtree theme]%
3976 }
3977
3978

```



42 File beamerouterthemetree-xetex-bidi.def

```
3979 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for bea
3980 \bidi@csundef{beamer@tmpop@headline@tree theme}
3981
3982 \defbeamer*template*{headline}{tree theme}
3983 {%
3984   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3985   \end{beamercolorbox}
3986   \if@RTL
3987   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3988     rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3989   \else
3990   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3991     leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3992   \fi
3993   \usebeamerfont{title in head/foot}\insertshorttitle
3994   \end{beamercolorbox}
3995   \if@RTL
3996   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3997     rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3998   \else
3999   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4000     leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
4001   \fi
4002   \usebeamerfont{section in head/foot}%
4003   \ifbeamer@tree@showhooks
4004     \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4005     \ifdim\wd\beamer@tempbox>1pt%
4006       \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0
4007       \hskip1pt%
4008     \fi%
4009   \else%
4010     \hskip6pt%
4011   \fi%
4012   \insertsectionhead
4013   \end{beamercolorbox}
4014   \if@RTL
4015   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4016     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4017   \else
4018   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4019     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4020   \fi
4021   \usebeamerfont{subsection in head/foot}%
4022   \ifbeamer@tree@showhooks
4023     \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4024     \ifdim\wd\beamer@tempbox>1pt%
4025       \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt heigh
4026       \hskip1pt%
4027     \fi%
4028   \else%
4029     \hskip12pt%
4030   \fi%
```



```

4031     \insertsubsectionhead
4032   \end{beamercolorbox}
4033   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4034   \end{beamercolorbox}
4035 }
4036
4037

```

43 File beamerthemeHannover-xetex-bidi.def

```

4038 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beam
4039 \AtBeginDocument{%
4040   \if@RTLmain
4041     \setbeamertemplate{frametitle}[default][left]%
4042   \else
4043     \setbeamertemplate{frametitle}[default][right]%
4044   \fi
4045 }
4046
4047

```

44 File beamerthemeSingapore-xetex-bidi.def

```

4048 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for bea
4049 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{-}
4050
4051 \beamertemplatedotitem
4052
4053 \AtBeginDocument{%
4054   \setbeamertemplate{frametitle}[default][center]%
4055 }
4056
4057

```

45 File bidi.sty

```

4058 \NeedsTeXFormat{LaTeX2e}
4059 \def\bididate{2025/09/30}
4060 \def\bidi@version{25.09.30}
4061 \def\bidi@releasename{Iran}
4062 \newcommand*{\bidireleasename}{\bidi@releasename}
4063 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\spa
4064 Bidirectional typesetting in plain TeX and LaTeX]
4065 \newif\if@bidi@banner
4066 \newif\if@bidi@pdfbanner
4067 \newif\iffootdir@debug
4068 \newif\if@extrafootnotefeatures
4069 \newif\if@nonlatin
4070 \newif\if@bidi@pdfm@mark
4071 \newif\if@bidi@perpage@footnote
4072 \ExplSyntaxOn
4073 \msg_new:nnn {bidi} {cannot-use-engine}
4074 {
4075   Oops!~can~not~use~\c_sys_engine_str.\\\

```



```

4076   The-bidi-package-requires~XeTeX.
4077 }
4078 \sys_if_engine_xetex:F
4079 {
4080   \msg_fatal:nn {bidi} {cannot-use-engine}
4081 }
4082
4083 \keys_define:nn { bidi }
4084 {
4085   banner .choice: ,
4086   banner / on .code:n = \@bidi@bannertrue ,
4087   banner / off .code:n = \@bidi@bannerfalse ,
4088   banner .default:n = on
4089 }
4090 \keys_define:nn { bidi }
4091 {
4092   PDFbanner .choice: ,
4093   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4094   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4095   PDFbanner .default:n = on
4096 }
4097 \keys_define:nn { bidi }
4098 {
4099   RTLdocument .choice: ,
4100   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4101   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4102   RTLdocument .default:n = on
4103 }
4104 \keys_define:nn { bidi }
4105 {
4106   rldocument .choice: ,
4107   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4108   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4109   rldocument .default:n = on
4110 }
4111 \keys_define:nn { bidi }
4112 {
4113   documentdirection .choice: ,
4114   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4115   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4116 }
4117 \keys_define:nn { bidi }
4118 {
4119   tabledirection .choice: ,
4120   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4121   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4122 }
4123 \keys_define:nn { bidi }
4124 {
4125   footnotedirection .choice: ,
4126   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4127   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4128 }
4129 \keys_define:nn { bidi }

```



```

4130 {
4131   debugfootnotedirection .choice: ,
4132   debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4133   debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4134   debugfootnotedirection .default:n = on
4135 }
4136 \keys_define:nn { bidi }
4137 {
4138   footnoterule .choice: ,
4139   footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4140   footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4141   footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4142   footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4143   footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4144 }
4145 \keys_define:nn { bidi }
4146 {
4147   extrafootnotefeatures .choice: ,
4148   extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4149   extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4150   extrafootnotefeatures .default:n = on
4151 }
4152 \keys_define:nn { bidi }
4153 {
4154   script .choice: ,
4155   script / latin .code:n = \@nonlatinfalse ,
4156   script / nonlatin .code:n = \@nonlatintrue ,
4157   script .default:n = latin
4158 }
4159 \keys_define:nn { bidi }
4160 {
4161   DetectColumn .choice: ,
4162   DetectColumn / on .code:n =
4163     \def\bidi@firstcolumn@status@write{%
4164       \protected@write\@auxout{%
4165         {\string\bidi@column@status
4166           {1}}}
4167     \def\bidi@lastcolumn@status@write{%
4168       \protected@write\@auxout{%
4169         {\string\bidi@column@status{2}}} ,
4170   DetectColumn / off .code:n =
4171     \let\bidi@firstcolumn@status@write\relax
4172     \let\bidi@lastcolumn@status@write\relax ,
4173   DetectColumn .default:n = on
4174 }
4175 \keys_define:nn { bidi }
4176 {
4177   logo .choice: ,
4178   logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4179   logo / off .code:n = \AtEndOfPackage{\let\bidi@logo@\empty \let\bidi@inslogo@\empty}
4180   logo .default:n = on
4181 }
4182 \keys_define:nn { bidi }
4183 {

```



```

4184 pdfinfo .choice: ,
4185 pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4186 pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4187 pdfinfo .default:n = on
4188 }
4189 % The `perpagefootnote' option is documented in UK TeX FAQ at
4190 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4191 \keys_define:nn { bidi }
4192 {
4193   perpagefootnote .choice: ,
4194   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4195   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4196   perpagefootnote .default:n = on
4197 }
4198 \keys_set:nn { bidi }
4199 {
4200   banner = on ,
4201   PDFbanner = on ,
4202   DetectColumn = off
4203 }
4204 }
4205 \ExplSyntaxOff
4206 \ProcessKeyOptions
4207 \edef\@bidi@info{*****^^J%
4208 * ^^J%
4209 * bidi package (Bidirectional typesetting with^^J%
4210 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^^J%
4211 * ^^J%
4212 * Description: A convenient interface for^^J%
4213 * typesetting bidirectional texts in plain TeX^^J%
4214 * and LaTeX. The package includes adaptations^^J%
4215 * for use with many other commonly-used packages.^^J%
4216 * ^^J%
4217 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4218 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4219 * ^^J%
4220 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4221 * ^^J%
4222 * License: LaTeX Project Public License, version^^J%
4223 * 1.3c or higher (your choice)^^J%
4224 * ^^J%
4225 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4226 * ^^J%
4227 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4228 * ^^J%
4229 * Primary author of bidi package: Vafa Khalighi.^^J%
4230 * ^^J%
4231 *****}
4232 \edef\bidi@everyjob{\the\everyjob}
4233 \if@bidi@banner
4234   \typeout{\@bidi@info}
4235   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4236 \fi
4237 \newcommand*{\bidiversion}{\ensuremath\bidi@version}

```



```

4238 \RequirePackage{biditools}
4239 \RequirePackage{zref-abspage}
4240 \RequirePackage{auxhook}
4241 \RequirePackage{ltxcmds}
4242 \eqnewif{\if@RTLmain}{\if@rlmain}
4243 \eqnewif{\if@RTL}{\if@rl}
4244 \newcommand*\setlatin{\@nonlatinfalse}
4245 \newcommand*\setnonlatin{\@nonlatintrue}
4246 \eqnewif{\if@RTLtab}{\if@tab@rl}
4247 \newif\if@hboxRconstruct
4248 \newif\if@bidi@pdfencrypt
4249 \newcommand*\setRTLtable{\@RTLtabtrue}
4250 \newcommand*\setLTRtable{\@RTLtabfalse}
4251 \newif\if@RTLMarginpar
4252 \newif\if@LTRmarginpar
4253 \newif\if@LTRbibitems
4254 \newif\if@RTLbibitems
4255 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4256 \newif\if@bidi@list@minipage@parbox
4257 \newif\if@bidi@list@minipage@parbox@not@nob
4258 \newcommand*\@bidi@pdfcreator{%
4259   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4260 }
4261 \newcommand*\@bidi@pdfproducer{%
4262   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4263 }
4264 \newcommand*\@bidi@pdfcustomproperties{%
4265   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4266   Released September 30, 2025.
4267 }
4268 \newcommand*\bidi@beamer@ragged{}
4269 \@RTLmainfalse
4270 \AtBeginDocument{%
4271   \if@RTLmain\else
4272     \if@RTL\@RTLmaintrue%
4273     \else\@RTLmainfalse%
4274     \fi%
4275   \fi%
4276 }
4277 \let\n@xt=\
4278 \bidi@newrobustcmd*\LRE{\protect\pLRE}%
4279 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt=}
4280 \bidi@newrobustcmd*\RLE{\protect\pRLE}
4281 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt=}
4282 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4283   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4284 \newinsert@bidi@copyins@
4285 \skip@bidi@copyins@=12\p@
4286 \dimen@bidi@copyins@=40pc
4287 \count@bidi@copyins@=1000
4288 \newcommand*\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4289 \newcommand*\@bidi@logo@hb@xt@columnwidth{%
4290   \if@RTLmain
4291     \if@twocolumn

```



```

4292     \hboxR to \columnwidth
4293     \else
4294     \hboxR to \textwidth
4295     \fi
4296     \else
4297     \if@twocolumn
4298     \hboxL to \columnwidth
4299     \else
4300     \hboxL to \textwidth
4301     \fi
4302     \fi
4303 }
4304 \newcommand*{\@bidi@logo}[1]{%
4305     \toks@{%
4306         \setbox\z@\hbox{%
4307             \special{%
4308                 pdf:image width 50pt height 50pt (#1)%
4309             }
4310         }%
4311         \dp\z@\z@
4312         \ht\z@=50pt
4313         \wd\z@=50pt
4314         \beginL
4315             \lower20pt\box\z@
4316         \endL
4317     }%
4318     \the\toks@
4319 }
4320 \newcount\bidi@typesethour
4321 \newcount\bidi@typesetminute
4322 \bidi@typesethour=\time
4323 \divide\bidi@typesethour 60
4324 \bidi@typesetminute=-\bidi@typesethour
4325 \multiply\bidi@typesetminute 60
4326 \advance\bidi@typesetminute \time
4327 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4328 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4329 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4330 \newcommand*{\@bidi@logo@}{%
4331     \@bidi@logo@hb@xt@columnwidth
4332     {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4333     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4334 \ExplSyntaxOn
4335 \keys_define:nn { bidi / pdfencrypt }
4336 {
4337     userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4338     userpassword .default:n =
4339 }
4340 \keys_define:nn { bidi / pdfencrypt }
4341 {
4342     ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4343     ownerpassword .default:n =
4344 }
4345 \keys_define:nn { bidi / pdfencrypt }

```




```

4346 {
4347   keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4348   keylength .default:n = 128
4349 }
4350 \keys_define:nn { bidi / pdfencrypt }
4351 {
4352   permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4353   permissionflags .default:n = 2052
4354 }
4355 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4356 \ExplSyntaxOff
4357 \@onlypreamble\pdfencryptsetup
4358 \input{latex-xetex-bidi.def}
4359
4360 \pdfencryptsetup{%
4361   userpassword,%
4362   ownerpassword,%
4363   keylength,%
4364   permissionflags%
4365 }
4366
4367 \if@extrafootnotefeatures
4368   \input{extrafootnotefeatures-xetex-bidi.def}
4369 \fi
4370 \newcount\bidi@digits
4371 \XeTeXinterchartokenstate=\@one
4372 \newXeTeXintercharclass\bidi@digits@charclass
4373 \newXeTeXintercharclass\bidi@sepmark@charclass
4374 \XeTeXcharclass `\. \bidi@sepmark@charclass
4375 \XeTeXcharclass `\- \bidi@sepmark@charclass
4376 \bidi@digits=\@loop \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digits<10
4377 \bidi@digits=\@loop \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digits<10
4378 \bidi@digits=\@loop \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digits<10
4379 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCharToks}
4380 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4381 \bidi@AtEndPreamble{%
4382   \if@bidi@perpage@footnote
4383     \RequirePackage{bidi-perpage}%
4384     \ResetCounterPerPage{footnote}%
4385   \fi
4386   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4387     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4388       \bidi@pdfencryptfalse
4389     \else
4390       \bidi@pdfencrypttrue
4391     \fi
4392   \else
4393     \bidi@pdfencrypttrue
4394   \fi
4395   \if@bidi@pdfencrypt
4396     \special{pdf:encrypt
4397       userpw (\bidi@pdfencrypt@userpassword)
4398       ownerpw (\bidi@pdfencrypt@ownerpassword)
4399       length \bidi@pdfencrypt@keylength

```



```

4400     perm \bidi@pdfencrypt@permissionflags
4401     }%
4402     \fi
4403 }
4404 \if@bidi@pdfbanner
4405     \if@bidi@pdfm@mark
4406     \AtEndDocument{%
4407     \special{pdf:%
4408     docinfo<<%
4409         /Creator(\@bidi@pdfcreator)%
4410         /Producer(\@bidi@pdfproducer)%
4411         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4412         \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4413         /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4414         }-}%
4415     >>%
4416     }%
4417     }
4418     \else
4419     \AtEndDocument{%
4420     \special{pdf:%
4421     docinfo<<%
4422         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4423         \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4424         /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4425         }-}%
4426     >>%
4427     }%
4428     }
4429     \fi
4430 \else
4431     \if@bidi@pdfm@mark
4432     \AtEndDocument{%
4433     \special{pdf:%
4434     docinfo<<%
4435         /Creator(\@bidi@pdfcreator)%
4436         /Producer(\@bidi@pdfproducer)%
4437     >>%
4438     }%
4439     }
4440     \fi
4441 \fi

```

46 File bidi.tex

```

4442 \def\bidi@date{2025/09/30}
4443 \catcode\@=11
4444 \def\bidi@version{25.09.30}
4445 \def\bidi@releasename{Iran}
4446 \def\bidi@releasename{\bidi@releasename}
4447 \let \protect \relax
4448 \newlinechar`^^J
4449 \edef\@bidi@info{*****^^J%
4450 * ^^J%

```



```

4451 * bidi package (Bidirectional typesetting with^^J%
4452 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^^J%
4453 * ^^J%
4454 * Description: A convenient interface for^^J%
4455 * typesetting bidirectional texts in plain TeX^^J%
4456 * and LaTeX. The package includes adaptations^^J%
4457 * for use with many other commonly-used packages.^^J%
4458 * ^^J%
4459 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4460 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4461 * ^^J%
4462 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4463 * ^^J%
4464 * License: LaTeX Project Public License, version^^J%
4465 * 1.3c or higher (your choice)^^J%
4466 * ^^J%
4467 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4468 * ^^J%
4469 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4470 * ^^J%
4471 * Primary author of bidi package: Vafa Khalighi.^^J%
4472 * ^^J%
4473 *****}
4474 \edef\bidi@everyjob{\the\everyjob}
4475 \message{\@bidi@info}
4476 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4477 \def\bidiversion{%
4478   \relax
4479   \ifmode
4480     \bidi@version
4481   \else
4482     $\bidi@version$
4483   \fi
4484 }
4485 \input iftex.sty
4486 \RequireXeTeX
4487 \newif\if@bidi@pdfm@mark
4488 \newif\if@RTLmain
4489 \newif\if@RTL
4490 \newif\if@hboxRconstruct
4491 \newif\if@sentdir
4492 \newif\if@RTL@footnote
4493 \@RTLmainfalse
4494 \def\setRTLmain{%
4495   \if@RTLmain\else
4496     \if@RTL@RTLmaintrue%
4497     \else@RTLmainfalse%
4498     \fi%
4499   \fi%
4500 }
4501 \let\n@xt=
4502 \protected\def\LRE{\protect\pLRE}%
4503 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4504 \protected\def\RLE{\protect\pRLE}

```



```

4505 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4506 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4507 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4508 \newinsert\@bidi@copyins@
4509 \skip\@bidi@copyins@=12\p@
4510 \dimen\@bidi@copyins@=40pc
4511 \count\@bidi@copyins@=1000
4512 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4513 \def\@bidi@logo@hb@xt@{%
4514 \ifRTLmain
4515 \hboxR to
4516 \else
4517 \hboxL to
4518 \fi
4519 }
4520 \def\@bidi@logo#1{%
4521 \toks@{%
4522 \setbox\z@\hbox{%
4523 \special{%
4524 pdf:image width 50pt height 50pt (#1)%
4525 }
4526 }%
4527 \dp\z@\z@
4528 \ht\z@=50pt
4529 \wd\z@=50pt
4530 \beginL
4531 \lower20pt\box\z@
4532 \endL
4533 }%
4534 \the\toks@
4535 }
4536 \def\today{\ifcase\month\or
4537 January\or February\or March\or April\or May\or June\or
4538 July\or August\or September\or October\or November\or December\fi
4539 \space\number\day, \number\year}
4540 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4541 \newcount\bidi@typesethour
4542 \newcount\bidi@typesetminute
4543 \bidi@typesethour=\time
4544 \divide\bidi@typesethour 60
4545 \bidi@typesetminute=-\bidi@typesethour
4546 \multiply\bidi@typesetminute 60
4547 \advance\bidi@typesetminute \time
4548 \def\TypesetHour{\two@digits\bidi@typesethour}
4549 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4550 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4551 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} b
4552 \def\bidilogo{\@bidi@inslogo@}
4553 \def\nobidilogo{\let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty}
4554 \def\@bidi@pdfcreator{%
4555 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4556 }
4557 \def\@bidi@pdfproducer{%
4558 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate

```



```

4559 }
4560 \def\@bidi@pdfcustomproperties{%
4561   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4562   Released September 30, 2025.
4563 }
4564 \def\bidi@pdfm@mark{%
4565   \special{pdf:%
4566     docinfo<<%
4567     \if@bidi@pdfm@mark
4568       /Creator(\@bidi@pdfcreator)%
4569       /Producer(\@bidi@pdfproducer)%
4570     \fi
4571     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4572     >>%
4573   }%
4574 }
4575 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4576 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4577 \input plain-xetex-bidi.def
4578 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4579 \catcode`@=12
4580 \bidipdfinfoon

```

47 File bidi2in1.sty

```

4581 \NeedsTeXFormat{LaTeX2e}
4582 \ProvidesPackage{bidi2in1}
4583 \pagestyle{plain}
4584 \newcount\evenpage
4585 \newcount\oddpages
4586 \twocolumn
4587 \def\@oddfont{\evenpage=\thepage%
4588 \multiply\evenpage by 2%
4589 \oddpages=\the\evenpage%
4590 \advance\oddpages by -1%
4591 \hfil\the\evenpage\hfil\hfil\the\oddpages\hfil}%
4592 \def\@evenfont{\evenpage=\thepage%
4593 \multiply\evenpage by 2%
4594 \oddpages=\the\evenpage%
4595 \advance\oddpages by -1%
4596 \hfil\the\oddpages\hfil\hfil\the\evenpage\hfil}%
4597 \textwidth 9.49in
4598 \textheight 6.7in
4599 \columnsep 0.9in
4600 \columnseprule 0.125pt
4601 \headheight 0cm
4602 \topmargin 0in
4603 \marginparwidth 0in
4604 \marginparsep 0in
4605 \hoffset 0.05in % Corrected
4606 \voffset -0.5in %top margin space is 1.0in by default
4607 \oddsidemargin 0in
4608 \evensidemargin 0in
4609 \headsep 0cm

```



```

4610 \topskip 0cm
4611 \parskip 0.15in      %
4612 \headsep 0pt
4613 \special{papersize=11.69in,8.26in}
4614 \renewcommand\maketitle{\par
4615 \begingroup
4616 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4617 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4618 \long\def\@makefntext##1{\parindent 1em\noindent
4619 \hb@xt@1.8em{%
4620 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4621 \@maketitle
4622 \@thanks
4623 \endgroup
4624 \setcounter{footnote}{0}%
4625 \global\let\thanks\relax
4626 \global\let\maketitle\relax
4627 \global\let\@maketitle\relax
4628 \global\let\@thanks\@empty
4629 \global\let\@author\@empty
4630 \global\let\@date\@empty
4631 \global\let\@title\@empty
4632 \global\let\title\relax
4633 \global\let\author\relax
4634 \global\let\date\relax
4635 \global\let\and\relax
4636 }

```

48 File bidicode.sty

```

4637 \NeedsTeXFormat{LaTeX2e}
4638 \ProvidesPackage{bidicode}
4639 \RequirePackage{xcolor}
4640 \RequirePackage{showexpl}
4641 \definecolor{hellgelb}{rgb}{1,1,0.85}
4642 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4643 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4644 \definecolor{colIdentifier}{rgb}{0,0,0}
4645 \definecolor{colComments}{rgb}{1,0,0}
4646 \definecolor{colString}{rgb}{0,0.5,0}
4647 \lstset{%
4648     language=[LaTeX]TeX,%
4649     float=hbp,%
4650     basicstyle=\ttfamily\small,%
4651     identifierstyle=\color{colIdentifier},%
4652     keywordstyle=\color{colKeys},%
4653     texcsstyle=\color{colCS},%
4654     stringstyle=\color{colString},%
4655     commentstyle=\color{colComments},%
4656     backgroundcolor=\color{hellgelb},%
4657     columns=flexible,%
4658     tabsize=4,%
4659     extendedchars=true,%
4660     showspaces=false,%

```



```

4661 showstringspaces=false,%
4662 numbers=left,%
4663 numbersep=0.9em,%
4664 numberstyle=\tiny,%
4665 frame=single,%
4666 captionpos=b,%
4667 xleftmargin=1em,%
4668 breaklines=true,%
4669 breakautoindent=false,%
4670 breakindent=0pt,%
4671 escapeinside=**,%
4672 pos=r,%
4673 explpreset={%
4674     xleftmargin=1em,%
4675     columns=flexible,%
4676     language=[LaTeX]TeX%
4677 },%
4678 moretexcs={%
4679     bididate,%
4680     bidiversion,%
4681     deflatinfont,%
4682     defpersianfont,%
4683     ding,%
4684     endLTR,%
4685     endRTL,%
4686     false,%
4687     falsesymbol,%
4688     junicode,%
4689     lr,%
4690     LR,%
4691     LRE,%
4692     LTR,%
4693     maketitle,%
4694     Nastaliq,%
4695     newfontfamily,%
4696     Parsifont,%
4697     part,%
4698     RL,%
4699     RLE,%
4700     RTL,%
4701     RTLcases,%
4702     SepMark,%
4703     setLR,%
4704     setLTR,%
4705     setRL,%
4706     setRTL,%
4707     settextfont,%
4708     subsection,%
4709     subsubsection,%
4710     tableofcontents,%
4711     text,%
4712     theequation,%
4713     thesection,%
4714     true,%

```



```

4715     truesymbol,%
4716     XePersian,%
4717     xepersiandate,%
4718     xepersianversion%
4719   }%
4720 }
4721 \newcommand\HLON{%
4722   \gdef\lst@alloverstyle##1{%
4723     \fboxrule=0pt
4724     \fboxsep=0pt
4725     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4726   }}
4727 \newcommand\HLOFF{%
4728   \xdef\lst@alloverstyle##1{##1}%
4729 }
4730 \newcommand\Larg [1]{\normalfont\itshape#1\}/}
4731 \newcommand\Larga[1]{\langle$\Larg{#1}$\rangle$}
4732 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4733 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4734 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4735 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}
4736 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}}
4737
4738 \DeclareRobustCommand\bs{{\normalfont\ttfamily\symbol{92}}}
4739 \DeclareRobustCommand\lcb{{\normalfont\ttfamily\char`}}
4740 \DeclareRobustCommand\rcb{{\normalfont\ttfamily\char`}}
4741 \DeclareRobustCommand\lsb{{\normalfont\ttfamily[]}}
4742 \DeclareRobustCommand\rsb{{\normalfont\ttfamily[]}}
4743 \DeclareRobustCommand\lrb{{\normalfont\ttfamily{}}}
4744 \DeclareRobustCommand\rrb{{\normalfont\ttfamily)}}
4745
4746 \def\Lcs#1{\nxLcs{#1}}
4747 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4748 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4749
4750 \def\Coordx#1{${x}_{#1}$}
4751 \def\Coordy#1{${y}_{#1}$}
4752 \def\Coordz#1{${z}_{#1}$}
4753 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4754 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4755 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4756 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4757 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4758 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4759 \def\coordin{(\Coordx{n},\kern 1pt\Coordy{n})}
4760 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4761 \def\coordx#1{(${x}_{#1}$)}
4762 \def\coordy#1{(${y}_{#1}$)}
4763 \def\coordz#1{(${z}_{#1}$)}
4764 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4765 \def\ciiiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4766
4767 \newsavebox{\boxdef}
4768 \newenvironment{BDef}

```




```

4769 {\begin{lrbox}\boxdef
4770   \def\arraystretch{1.0}
4771   \begin{tabular}{@{}l@{}l@{}l@{}}
4772 }
4773 {\end{tabular}\end{lrbox}
4774
4775 {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4776 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4777 }
4778
4779 \newenvironment{BDef*}
4780 {\begin{lrbox}\boxdef
4781   \def\arraystretch{1.0}
4782   \begin{tabular}{@{}l@{}l@{}l@{}}
4783 }
4784 {\end{tabular}\end{lrbox}
4785 {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4786 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4787 }
4788 \newenvironment{BCmd}{
4789   \@beginparpenalty-\@Lowpenalty
4790   \topsep\BDefaboveskip
4791   \fbboxsep3pt
4792   \flushleft}
4793 {\@endparpenalty\@M
4794   \@topsepadd\BDefbelowskip
4795   \endflushleft}
4796
4797 \newenvironment{BCmd*}{
4798   \@beginparpenalty\@M
4799   \topsep\BDefinlineskip
4800   \fbboxsep3pt
4801   \flushleft}
4802 {\@endparpenalty5000
4803   \endflushleft}
4804
4805 \newskip\BDefaboveskip
4806 \newskip\BDefbelowskip
4807 \newskip\BDefinlineskip
4808 \setlength\BDefaboveskip{10pt plus 4pt}
4809 \setlength\BDefbelowskip{6pt}
4810 \setlength\BDefinlineskip{6pt}
4811
4812 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4813 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
4814 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4815 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

49 File bidiftnxtra.sty

```

4816 \NeedsTeXFormat{LaTeX2e}
4817 \ProvidesPackage{bidiftnxtra}
4818 \newtoks\bidi@p@ftn
4819 \let\FN@sf@footnote\footnote

```



```

4820 \let\FN@sf@LTRfootnote\LTRfootnote
4821 \let\FN@sf@RTLfootnote\RTLfootnote
4822 \def\footnote{\ifx\protect\@typeset@protect
4823   \expandafter\FN@sf@footnote
4824   \else
4825     \expandafter\FN@sf@gobble@opt
4826   \fi
4827 }
4828 \def\LTRfootnote{\ifx\protect\@typeset@protect
4829   \expandafter\FN@sf@LTRfootnote
4830   \else
4831     \expandafter\FN@sf@gobble@opt
4832   \fi
4833 }
4834 \def\RTLfootnote{\ifx\protect\@typeset@protect
4835   \expandafter\FN@sf@RTLfootnote
4836   \else
4837     \expandafter\FN@sf@gobble@opt
4838   \fi
4839 }
4840 \edef\FN@sf@gobble@opt{\noexpand\protect
4841   \expandafter\noexpand\csname FN@sf@gobble@opt \endcsname}
4842 \expandafter\def\csname FN@sf@gobble@opt \endcsname{%
4843   \@ifnextchar [%]
4844     \FN@sf@gobble@twobracket
4845     \@gobble
4846 }
4847 \def\FN@sf@gobble@twobracket[#1]#2{}
4848 \let\FN@sf@footnotemark\footnotemark
4849 \def\footnotemark{\ifx\protect\@typeset@protect
4850   \expandafter\FN@sf@footnotemark
4851   \else
4852     \expandafter\FN@sf@gobble@optonly
4853   \fi
4854 }
4855 \edef\FN@sf@gobble@optonly{\noexpand\protect
4856   \expandafter\noexpand\csname FN@sf@gobble@optonly \endcsname}
4857 \expandafter\def\csname FN@sf@gobble@optonly \endcsname{%
4858   \@ifnextchar [%]
4859     \FN@sf@gobble@bracket
4860     {}%
4861 }
4862 \def\FN@sf@gobble@bracket[#1]{}
4863 \def\@tabular{%
4864   \leavevmode \hbox \bgroup
4865   \let\@footnotetext\bidip@ftntext
4866   \let\@LTRfootnotetext\bidip@LTRftntext
4867   \let\@RTLfootnotetext\bidip@RTLftntext
4868   \let\@xfootnotenext\bidip@xftntext
4869   \let\@xfootnote\bidip@xfootnote
4870   \let\@xLTRfootnotenext\bidip@xLTRftntext
4871   \let\@xLTRfootnote\bidip@xLTRfootnote
4872   \let\@xRTLfootnotenext\bidip@xRTLftntext
4873   \let\@xRTLfootnote\bidip@xRTLfootnote

```



```

4874 \if@RTLtab\beginR \fi
4875 $\let\@acol\@tabacol
4876 \let\@classz\@tabclassz
4877 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4878 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
4879 \egroup $\if@RTLtab\endR\fi\egroup
4880 \ifx\@capttype\@undefined
4881 \global\bidip@p@ftn\expandafter{\expandafter}\the\bidip@p@ftn\fi}
4882 \long\def\bidip@p@ftntext#1{%
4883 \edef\@tempy{\the\bidip@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
4884 \global\bidip@p@ftn\expandafter{\@tempy{#1}}}%
4885 \long\def\bidip@p@LTRftntext#1{%
4886 \edef\@tempyi{\the\bidip@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4887 \global\bidip@p@ftn\expandafter{\@tempyi{#1}}}%
4888 \long\def\bidip@p@RTLftntext#1{%
4889 \edef\@tempyii{\the\bidip@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4890 \global\bidip@p@ftn\expandafter{\@tempyii{#1}}}%
4891
4892
4893 \long\def\bidip@p@xftntext[#1]#2{%
4894 \global\bidip@p@ftn\expandafter{\the\bidip@p@ftn\footnotetext[#1]{#2}}}
4895
4896 \long\def\bidip@p@xLTRftntext[#1]#2{%
4897 \global\bidip@p@ftn\expandafter{\the\bidip@p@ftn\LTRfootnotetext[#1]{#2}}}
4898
4899 \long\def\bidip@p@xRTLftntext[#1]#2{%
4900 \global\bidip@p@ftn\expandafter{\the\bidip@p@ftn\RTLfootnotetext[#1]{#2}}}
4901
4902
4903 \def\bidip@p@xfootnote[#1]{%
4904 \begingroup
4905 \csname c@\@mpfn\endcsname #1\relax
4906 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4907 \endgroup
4908 \@footnotemark\bidip@p@xftntext[#1]}
4909
4910
4911 \def\bidip@p@xLTRfootnote[#1]{%
4912 \begingroup
4913 \csname c@\@mpfn\endcsname #1\relax
4914 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4915 \endgroup
4916 \@footnotemark\bidip@p@xLTRftntext[#1]}
4917
4918
4919 \def\bidip@p@xRTLfootnote[#1]{%
4920 \begingroup
4921 \csname c@\@mpfn\endcsname #1\relax
4922 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4923 \endgroup
4924 \@footnotemark\bidip@p@xRTLftntext[#1]}
4925
4926 \def\@xfloat #1[#2]{%
4927 \@nodocument

```



```

4928 \def \@capytype {#1}%
4929 \def \@fps {#2}%
4930 \@onelevel@sanitize \@fps
4931 \def \reserved@b {!}%
4932 \ifx \reserved@b \@fps
4933   \fpsaddddefault
4934 \else
4935   \ifx \@fps \@empty
4936     \fpsaddddefault
4937   \fi
4938 \fi
4939 \ifhmode
4940   \bsphack
4941   \@floatpenalty -\@Mii
4942 \else
4943   \@floatpenalty-\@Miii
4944 \fi
4945 \ifinner
4946   \@parmoderr\@floatpenalty\z@
4947 \else
4948   \@next\@currbox\@freelist
4949   {%
4950     \@tempcnta \sixt@@n
4951     \expandafter \@tfor \expandafter \reserved@a
4952     \expandafter :\expandafter =\@fps
4953     \do
4954     {%
4955       \if \reserved@a h%
4956         \ifodd \@tempcnta
4957         \else
4958           \advance \@tempcnta \@ne
4959         \fi
4960       \fi
4961       \if \reserved@a t%
4962         \@setfpsbit \tw@
4963       \fi
4964       \if \reserved@a b%
4965         \@setfpsbit 4%
4966       \fi
4967       \if \reserved@a p%
4968         \@setfpsbit 8%
4969       \fi
4970       \if \reserved@a !%
4971         \ifnum \@tempcnta>15
4972           \advance\@tempcnta -\sixt@@n\relax
4973         \fi
4974       \fi
4975     }%
4976   \@tempcntb \csname ftype@\@capytype \endcsname
4977   \multiply \@tempcntb \@xxxii
4978   \advance \@tempcnta \@tempcntb
4979   \global \count\@currbox \@tempcnta
4980   }%
4981 \@fltovf

```



```

4982 \fi
4983 \global \setbox\@currbox
4984 \color@vbox
4985 \normalcolor
4986 \vbox \bgroup
4987 \let\@footnotetext\@bidi@p@ftntext
4988 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4989 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4990 \let\@xfootnotenext\@bidi@p@xftntext
4991 \let\@xfootnote\@bidi@p@xfootnote
4992 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4993 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4994 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4995 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4996 \hsize\columnwidth
4997 \@parboxrestore
4998 \@floatboxreset
4999 }
5000 \def \@endfloatbox{%
5001 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
5002 \@minipagefalse
5003 \outer@nobreak
5004 \egroup %% end of vbox
5005 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn
5006 \color@endbox
5007 }

```

50 File bidimoderncv.cls

```

5008 \NeedsTeXFormat{LaTeX2e}
5009 \ProvidesClass{bidimoderncv}
5010 \newif\if@DEBUG\@DEBUGfalse
5011 \DeclareOption{a4paper}{
5012 \setlength\paperheight{297mm}
5013 \setlength\paperwidth{210mm}}
5014 \DeclareOption{a5paper}{
5015 \setlength\paperheight{210mm}
5016 \setlength\paperwidth{148mm}}
5017 \DeclareOption{b5paper}{
5018 \setlength\paperheight{250mm}
5019 \setlength\paperwidth{176mm}}
5020 \DeclareOption{letterpaper}{
5021 \setlength\paperheight{11in}
5022 \setlength\paperwidth{8.5in}}
5023 \DeclareOption{legalpaper}{
5024 \setlength\paperheight{14in}
5025 \setlength\paperwidth{8.5in}}
5026 \DeclareOption{executivepaper}{
5027 \setlength\paperheight{10.5in}
5028 \setlength\paperwidth{7.25in}}
5029 \DeclareOption{landscape}{
5030 \setlength\@tempdima{\paperheight}
5031 \setlength\paperheight{\paperwidth}
5032 \setlength\paperwidth{\@tempdima}}

```



```

5033 \newcommand{@ptsize{}}
5034 \DeclareOption{10pt}{\renewcommand{@ptsize{0}}
5035 \DeclareOption{11pt}{\renewcommand{@ptsize{1}}
5036 \DeclareOption{12pt}{\renewcommand{@ptsize{2}}
5037 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5038 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5039 \newif\if@colour\@colourtrue
5040 \DeclareOption{nocolour}{\@colourfalse}
5041 \ExecuteOptions{a4paper,11pt,colour,final}
5042 \ProcessOptions\relax
5043 \input{size1\@ptsize.clo}
5044 \RequirePackage{color}
5045 \RequirePackage{graphicx}
5046 \RequirePackage{ifthen}
5047 \RequirePackage{marvosym}
5048 \addtolength{\oddsidemargin}{-54pt}
5049 \addtolength{\textwidth}{109pt}
5050 \addtolength{\topmargin}{-70pt}
5051 \addtolength{\textheight}{122pt}
5052 \addtolength{\marginparsep}{-5pt}
5053 \addtolength{\marginparwidth}{-10pt}
5054 \RequirePackage{url}
5055 \RequirePackage{hyperref}
5056 \hypersetup{%
5057   breaklinks,
5058   baseurl      = http://,%
5059   pdfborder    = 0 0 0,%
5060   pdfpagemode  = UseNone,%
5061   pdfstartpage = 1}
5062 \AtEndOfClass{%
5063   \AtBeginDocument{%
5064     \hypersetup{%
5065       pdfauthor   = \@firstname~\@familyname,%
5066       pdftitle    = \@title,%
5067       pdfsubject  = \@firstname~\@familyname,%
5068       pdfkeywords = \@resumename~\@firstname~\@familyname}}}
5069 \urlstyle{tt}
5070 \RequirePackage{fancyhdr}
5071 \fancypagestyle{plain}{%
5072   \renewcommand{\headrulewidth}{0pt}
5073   \renewcommand{\footrulewidth}{0pt}
5074   \fancyhf{}}
5075 \pagestyle{plain}
5076 \setlength\lineskip{1\p@}
5077 \setlength\normallineskip{1\p@}
5078 \renewcommand\baselinestretch{}
5079 \setlength{\parindent}{0pt}
5080 \setlength{\parskip}{0pt}
5081 \setlength\columnsep{10\p@}
5082 \setlength\columnseprule{0\p@}
5083 \pagestyle{empty}
5084 \pagenumbering{arabic}
5085 \raggedbottom
5086 \onecolumn

```



```

5087 \providecommand*\listitemsymbol{\textbullet}
5088 \providecommand*\addresssymbol{}
5089 \providecommand*\mobilesymbol{\Mobilefone}
5090 \providecommand*\phonesymbol{\Telefon}
5091 \providecommand*\faxsymbol{\FAX}
5092 \providecommand*\emailsymbol{\Letter}
5093 \definecolor{firstnamecolor}{rgb}{0,0,0}
5094 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5095 \def\familynamcolour#1{\gdef\@familynamcolour{\addfontfeature{Color=#1}}}
5096 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5097 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5098 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5099 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5100 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5101 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5102 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5103 \providecommand*\firstnamefont{}
5104 \providecommand*\familynamefont{}
5105 \providecommand*\titlefont{}
5106 \providecommand*\addressfont{}
5107 \providecommand*\quotefont{}
5108 \providecommand*\sectionfont{}
5109 \providecommand*\subsectionfont{}
5110 \providecommand*\hintfont{\small}
5111 \providecommand*\firstnamestyle}[1]{\{\@firstnamefont\@firstnamecolour#1}}
5112 \providecommand*\familynamestyle}[1]{\{\@familynamefont\@familynamcolour#1}}
5113 \providecommand*\titlestyle}[1]{\{\@titlefont\@titlecolour#1}}
5114 \providecommand*\addresstyle}[1]{\{\@addressfont\@addresscolour#1}}
5115 \providecommand*\quotestyle}[1]{\{\@quotefont\@quotecolour#1}}
5116 \providecommand*\sectionstyle}[1]{\{\@sectionfont\@sectiontitlecolour#1}}
5117 \providecommand*\subsectionstyle}[1]{\{\@subsectionfont\@subsectioncolour#1}}
5118 \providecommand*\hintstyle}[1]{\{\@hintfont\@hintcolour#1}}
5119 \newcommand*\cvtheme}[2] [] {
5120   \def\@cvtheme{#2}
5121   \def\@cvthemeoptions{#1}}
5122 \cvtheme{bidi-casual}
5123 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5124 \newcommand*\resumename}[1]{\def\@resumename{#1}}
5125 \newcommand*\firstname}[1]{\def\@firstname{#1}}
5126 \newcommand*\familyname}[1]{\def\@familyname{#1}}
5127 \renewcommand*\title}[1]{\def\@title{#1}}
5128 \newcommand*\address}[1]{\def\@address{#1}}
5129 \newcommand*\mobile}[1]{\def\@mobile{#1}}
5130 \newcommand*\phone}[1]{\def\@phone{#1}}
5131 \renewcommand*\fax}[1]{\def\@fax{#1}}
5132 \newcommand*\email}[1]{\def\@email{#1}}
5133 \newcommand*\extrainfo}[1]{\def\@extrainfo{#1}}
5134 \def\@photowidth{Opt}
5135 \newcommand*\photo}[2] [64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5136 \newcommand*\quote}[1]{\def\@quote{#1}}
5137 \newlength{\quotewidth}
5138 \newlength{\hintscolumnwidth}
5139 \newlength{\separatorcolumnwidth}
5140 \setlength{\separatorcolumnwidth}{0.025\textwidth}

```



```

5141 \newlength{\maincolumnwidth}
5142 \newlength{\doubleitemmaincolumnwidth}
5143 \newlength{\listitemsymbolwidth}
5144 \settowidth{\listitemsymbolwidth}{\listitemsymbol{~}}
5145 \newlength{\listitemmaincolumnwidth}
5146 \newlength{\listdoubleitemmaincolumnwidth}
5147 \newcommand*\recomputethemlengths{}
5148 \newcommand*\recomputelengths{%
5149 \setlength{\quotewidth}{0.65\textwidth}%
5150 \setlength{\maincolumnwidth}{\textwidth}%
5151 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5152 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5153 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5154 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5155 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5156 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5157 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5158 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5159 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5160 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5161 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5162 \renewcommand{\headwidth}{\textwidth}%
5163 \recomputethemlengths}
5164 \setlength{\hintscolumnwidth}{0.15\textwidth}
5165 \recomputelengths
5166 \title{}
5167 \renewcommand*\maketitle{}
5168 \newcommand*\section}[1]{%
5169 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5170 \phantomsection}%
5171 \addcontentsline{toc}{part}{#1}%
5172 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5173 \hspace{\separatorcolumnwidth}%
5174 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\ [1ex]}
5175 \newcommand*\subsection}[1]{%
5176 \cvline[0.45em]{\subsectionstyle{#1}}
5177 \newcommand*\cvline}[3][.25em]{%
5178 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidt
5179 \bidi@raggedleft\hintfont{#2} &{#3}%
5180 \end{tabular}\ [#1]}
5181 \newcommand*\cvdoubleitem}[4]{%
5182 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5183 \hfill%
5184 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{
5185 \newcommand*\cvlistitem}[2][\listitemsymbol]{%
5186 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5187 \newcommand*\cvlistdoubleitem}[3][\listitemsymbol]{%
5188 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5189 \hfill%
5190 \ifthenelse{equal{#3}}{
5191 {}
5192 {#1-\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}
5193 \newcommand*\cventry}[6]{%
5194 \cvline{#1}{%

```




```

5195     {\bfseries#2}%
5196     \ifx#3\else{, {\slshape#3}}\fi%
5197     \ifx#4\else{, #4}\fi%
5198     \ifx#5\else{, #5}\fi%
5199     .%
5200     \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5201     }}%
5202 \newcommand*{\cvlanguage}[3]{%
5203   \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}\small#3\end{minipage}}
5204 \newcommand*{\cvcomputer}[4]{%
5205   \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5206 \newcommand*{\link}[2][ ]{%
5207   \ifthenelse{\equal{#1}{}}%
5208     {\href{#2}{#2}}%
5209     {\href{#2}{#1}}}
5210 \newcommand*{\httplink}[2][ ]{%
5211   \ifthenelse{\equal{#1}{}}%
5212     {\href{http://#2}{#2}}%
5213     {\href{http://#2}{#1}}}
5214 \newcommand*{\emailink}[2][ ]{%
5215   \ifthenelse{\equal{#1}{}}%
5216     {\href{mailto:#2}{#2}}%
5217     {\href{mailto:#2}{#1}}}
5218 \newif\if@displaypagenumbers\@displaypagenumberstrue
5219 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5220 \AtBeginDocument{%
5221   \if@displaypagenumbers%
5222     \@ifundefined{r@lastpage}{}{%
5223       \ifthenelse{\pageref{lastpage} > 1}{%
5224         \fancypagestyle{plain}{%
5225           \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pagestyle{plain}}}%
5226         \pagestyle{plain}}}%
5227   \AtEndDocument{\label{lastpage}}%
5228   \fi}
5229 \newlength{\bibindent}
5230 \setlength{\bibindent}{1.5em}
5231 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5232 \newenvironment{thebibliography}[1]{%
5233   {%
5234     \section{\refname}%
5235     \small%
5236     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5237     \bidi@thebibliography@font@hook%
5238     \begin{list}{\bibliographyitemlabel}%
5239       {%
5240         \setlength{\topsep}{0pt}%
5241         \setlength{\labelwidth}{\hintscolumnwidth}%
5242         \setlength{\labelsep}{\separatorcolumnwidth}%
5243         \leftmargin\labelwidth%
5244         \advance\leftmargin\labelsep%
5245         \@openbib@code%
5246         \usecounter{enumiv}%
5247         \let\p@enumiv\@empty%
5248         \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

5249         \sloppy\clubpenalty4000\widowpenalty4000%
5250     }%
5251     {%
5252     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5253     \end{list}%
5254     }
5255 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5256 \let\@openbib@code\@empty

```

51 File bidi-perpage.sty

```

5257 \NeedsTeXFormat{LaTeX2e}
5258 \ProvidesPackage{bidi-perpage}[2025/09/15 v0.5 Reset counter(s) on every page]
5259 \newcommand*\bidi@checkvlist{%
5260     \ifcase
5261     \ifvmode
5262     \ifx\lastnodetype\bidi@undefined
5263     \ifdim-\@m\p@=\prevdepth
5264     \ifdim\lastskip=\z@
5265     \ifnum\lastpenalty=\z@
5266     \@ne
5267     \fi
5268     \fi
5269     \fi
5270     \else
5271     \ifnum\lastnodetype=\m@ne
5272     \@ne
5273     \fi
5274     \fi
5275     \fi
5276     \z@
5277     \or
5278     \PackageWarning{bidi-perpage}{%
5279     `'\string\stepcounter' is probably at the beginning of vertical
5280     list.
5281     You may need to use `'\string\leavevmode' before it to avoid
5282     vertical shifts%
5283     }%
5284     \fi
5285 }
5286 \newcount\bidi@page@count
5287 \bidi@page@count\@ne
5288 \newcommand*\ResetCounterPerPage}[2][\z@]{%
5289     \if@bidi@csundef\bidi@stepcounterhook@#2}{%
5290     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{}%
5291     }{}%
5292     \if@bidi@csundef{if@bidi@reset@#2@rerun}{%
5293     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5294     }{}%
5295     \if@bidi@csundef\bidi@#2@count}{%
5296     \expandafter\newcount\csname bidi@#2@count\endcsname
5297     }{}%
5298     \csname bidi@#2@count\endcsname\z@
5299     \if@bidi@csundef\bidi@previous@page@#2@count}{%

```



```

5300 \expandafter\newcount\csname
5301   bidi@previous@page@@#2@count\endcsname
5302 }{}%
5303 \csname bidi@previous@page@@#2@count\endcsname\z@
5304 \if@bidi@csundef{bidi@reset@#2@perpage}{%
5305   \bidi@AfterEndDocumentCheckLabelsRerun{%
5306     \csname if@bidi@reset@#2@rerun\endcsname
5307     \PackageWarningNoLine{bidi-perpage}{%
5308       Counter `#2' may not have been reset per page.
5309       Rerun to reset counter `#2' per page%
5310     }%
5311   \fi
5312 }}%
5313 }{}%
5314 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5315   \global\advance\csname bidi@#2@count\endcsname\@ne
5316   \if@filesw
5317     \edef\@tempa{%
5318       \write\@auxout{%
5319         \string\bidi@counter@page{#2}%
5320         {\number\csname bidi@#2@count\endcsname}%
5321         {\noexpand\number\noexpand\bidi@page@count}%
5322       }%
5323     }%
5324     \bidi@checkvlist
5325     \dimen@=\lastkern
5326     \ifdim\dimen@=\z@
5327     \else
5328       \unkern
5329     \fi
5330     \count@=\lastpenalty
5331     \@tempa
5332     \ifdim\dimen@=\z@
5333       \penalty
5334       \ifnum\count@<\@M
5335         \@M
5336       \else
5337         \count@
5338       \fi
5339     \else
5340       \kern\dimen@
5341     \fi
5342   \fi
5343   \begingroup\expandafter\expandafter\expandafter\endgroup
5344   \expandafter\ifx\csname bidi@#2@@\number\csname
5345     bidi@#2@count\endcsname\endcsname\relax
5346     \global\csname @bidi@reset@#2@reruntrue\endcsname
5347   \else
5348     \global\csname @bidi@reset@#2@rerunfalse\endcsname
5349     \expandafter\@tempcnta\csname bidi@#2@@\number
5350     \csname bidi@#2@count\endcsname\endcsname\relax
5351     \ifnum\@tempcnta=\csname
5352     bidi@previous@page@@#2@count\endcsname
5353   \else

```



```

5354     \global\csname
5355     bidi@previous@page@@#2@count\endcsname\@tempcnta
5356     \global\csname c@#2\endcsname#1\relax
5357     \fi
5358     \fi
5359     }%
5360     \expandafter\bidi@gappto\csname
5361     bidi@stepcounterhook@@#2\endcsname{%
5362     \csname bidi@reset@#2@perpage\endcsname
5363     }%
5364 }
5365 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@@#2}{#3}
5366 \bidi@AtEndOutputPage{%
5367     \global\advance\bidi@page@count\@ne
5368 }

```

52 File biditools.sty

```

5369 \NeedsTeXFormat{LaTeX2e}
5370 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5371 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5372     \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5373     \ifx\@tempa\@tempb \global\let#2#1%
5374     \else
5375         \edef\@tempb{\meaning#2}%
5376         \ifx\@tempa\@tempb
5377             \else
5378                 \latex@error{Unable to properly define \string#2; primitive
5379                 \noexpand#1no longer primitive}\@eha
5380             \fi
5381         \fi
5382     \endgroup}
5383 \newtoks\@bidi@envbody
5384 \newtoks\@bidi@emptytoks
5385 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5386 \def\bidi@collect@body#1{%
5387     \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5388     \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\currenenvir}}%
5389     \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5390     \begingroup
5391     \expandafter\let\csname\@currenenvir\endcsname\bidi@collect@body
5392     \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currenenvir\endcsname}%
5393     \bidi@process@envbody
5394 }
5395 \def\bidi@push@begins#1\begin#2{%
5396     \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5397 }
5398 \def\bidi@collect@@body#1\end#2{%
5399     \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack
5400     \ifx\@empty\begin@bidi@stack
5401         \endgroup
5402         \@checkend{#2}%
5403         \bidi@addto@envbody{#1}%
5404     \else

```



```

5405 \bidi@addto@envbody{#1\end{#2}}%
5406 \fi
5407 \bidi@process@envbody % A little tricky! Note the grouping
5408 }
5409 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5410 \long\def\bidi@collect@long@body#1{%
5411 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}}%
5412 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentenv}}%
5413 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5414 \begin@group
5415 \expandafter\let\csname\@currentenv\endcsname\bidi@collect@long@body
5416 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentenv\endcsname}%
5417 \bidi@process@envbody
5418 }
5419 \long\def\bidi@push@long@begins#1\begin#2{%
5420 \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5421 }
5422 \long\def\bidi@collect@long@@body#1\end#2{%
5423 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@
5424 \ifx\@empty\begin@bidi@stack
5425 \endgroup
5426 \@checkend{#2}}%
5427 \bidi@addto@long@envbody{#1}%
5428 \else
5429 \bidi@addto@long@envbody{#1\end{#2}}%
5430 \fi
5431 \bidi@process@envbody % A little tricky! Note the grouping
5432 }
5433 \long\def\bidi@new@ifnextchar#1#2#3{%
5434 \let\reserved@d= #1%
5435 \def\reserved@a{#2}\def\reserved@b{#3}%
5436 \futurelet\@let@token\bidi@new@ifnch
5437 }
5438 \def\bidi@new@ifnch{%
5439 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5440 \reserved@b
5441 }
5442 \def\bidi@matrix@check#1{%
5443 \expandafter\ifx\csname\@currentenv\endcsname#1%
5444 \else\bidi@matrix@error#1%
5445 \expandafter\@gobble
5446 \fi
5447 }
5448 \def\bidi@matrix@error#1{%
5449 \PackageError{biditools}{%
5450 Old form '\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5451 }{%
5452 \string#1{...}' is old bidi package syntax whose use is
5453 ill-advised in the old versions of bidi package.%
5454 }%
5455 }
5456 \def\eqnewif#1#2{%
5457 \count@ \escapechar \escapechar\m@ne
5458 \let#1\iffalse

```



```

5459 \let#2\iffalse
5460 \eq@if#1#2\iftrue
5461 \eq@if#1#2\iffalse
5462 \escapechar\count@}
5463 \def\eq@if#1#2#3{%
5464 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5465 \expandafter@gobbletwo\string#3\endcsname
5466 {\let#1#3%
5467 \let#2#3}%
5468 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5469 \expandafter@gobbletwo\string#3\endcsname
5470 {\let#2#3%
5471 \let#1#3}}
5472 \def\noteqnewif#1#2{%
5473 \count@\escapechar \escapechar\m@ne
5474 \let#1\iffalse
5475 \let#2\iffalse
5476 \not@eq@if#1#2\iftrue\iffalse
5477 \escapechar\count@}
5478 \def\not@eq@if#1#2#3#4{%
5479 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5480 \expandafter@gobbletwo\string#3\endcsname
5481 {\let#1#3%
5482 \let#2#4}%
5483 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5484 \expandafter@gobbletwo\string#4\endcsname
5485 {\let#1#4%
5486 \let#2#3}%
5487 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5488 \expandafter@gobbletwo\string#3\endcsname
5489 {\let#2#3%
5490 \let#1#4}%
5491 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5492 \expandafter@gobbletwo\string#4\endcsname
5493 {\let#2#4%
5494 \let#1#3}}
5495 \newcommand*\SetBoolean}[2]{%
5496 \lowercase{\def\@tempa{#2}}%
5497 \@ifundefined{@tempwa\@tempa}%
5498 {\PackageError{biditools}%
5499 {You can only set a boolean to `true' or `false'}\@ehc}%
5500 {\@ifundefined{#1\@tempa}%
5501 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5502 {\csname#1\@tempa\endcsname}}}
5503 \newcommand*\GlobalSetBoolean}[2]{%
5504 \lowercase{\def\@tempa{#2}}%
5505 \@ifundefined{@tempwa\@tempa}%
5506 {\PackageError{biditools}%
5507 {You can only set a boolean to `true' or `false'}\@ehc}%
5508 {\@ifundefined{#1\@tempa}%
5509 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5510 {\global\csname#1\@tempa\endcsname}}}
5511 \newcommand*\SetatBoolean}[2]{%
5512 \lowercase{\def\@tempa{#2}}%

```



```

5513 \@ifundefined{@tempwa\@tempa}%
5514   {\PackageError{biditools}%
5515     {You can only set a boolean to `true' or `false'}\@ehc}%
5516   {\@ifundefined{@#1\@tempa}%
5517     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5518     {\csname @#1\@tempa\endcsname}}}
5519 \newcommand*\GlobalSetatBoolean}[2]{%
5520   \lowercase{\def\@tempa{#2}}%
5521   \@ifundefined{@tempwa\@tempa}%
5522     {\PackageError{biditools}%
5523       {You can only set a boolean to `true' or `false'}\@ehc}%
5524     {\@ifundefined{@#1\@tempa}%
5525       {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5526       {\global\csname @#1\@tempa\endcsname}}}
5527 \def\@bidi@removefromreset#1#2{%
5528   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5529   \def\@elt##1{%
5530     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5531     \else
5532       \noexpand\@elt{##1}%
5533     \fi}%
5534   \expandafter\xdef\csname cl@#2\endcsname{%
5535     \csname cl@#2\endcsname}}}
5536 \newcommand*\ifRtoL}{%
5537   \if@RTL
5538     \expandafter\@firstoftwo
5539   \else
5540     \expandafter\@secondoftwo
5541   \fi}
5542 \newcommand*\ifLtoR}{%
5543   \if@RTL
5544     \expandafter\@secondoftwo
5545   \else
5546     \expandafter\@firstoftwo
5547   \fi}
5548 \newcommand*\ifRtoLtable}{%
5549   \if@RTLtab
5550     \expandafter\@firstoftwo
5551   \else
5552     \expandafter\@secondoftwo
5553   \fi}
5554 \newcommand*\ifLtoRtable}{%
5555   \if@RTLtab
5556     \expandafter\@secondoftwo
5557   \else
5558     \expandafter\@firstoftwo
5559   \fi}
5560 \newcommand*\ifRtoLhboxconstruct}{%
5561   \if@hboxRconstruct
5562     \expandafter\@firstoftwo
5563   \else
5564     \expandafter\@secondoftwo
5565   \fi}
5566 \newcommand*\ifLtoRhboxconstruct}{%

```



```

5567 \if@hboxRconstruct
5568 \expandafter\@secondoftwo
5569 \else
5570 \expandafter\@firstoftwo
5571 \fi}
5572 \newcommand*\iflatin}{%
5573 \if@nonlatin
5574 \expandafter\@secondoftwo
5575 \else
5576 \expandafter\@firstoftwo
5577 \fi}
5578 \newcommand*\ifnonlatin}{%
5579 \if@nonlatin
5580 \expandafter\@firstoftwo
5581 \else
5582 \expandafter\@secondoftwo
5583 \fi}
5584
5585 \newcommand*\bidi@convert@dimen@t@unit}[2]{%
5586 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5587
5588 \newcommand*\bidi@convert@dimen@t@pt}[1]{%
5589 \dimexpr #1*65536/\dimexpr 1pt\relax}
5590
5591 \newcommand*\IfPackageVersionAtLeastTF}[1]{%
5592 \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5593 }
5594 \newcommand*\@if@ver@pkg@least}[2]{%
5595 \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5596 \expandafter\@secondoftwo
5597 \else
5598 \expandafter\@firstoftwo
5599 \fi
5600 }
5601 \newcommand*\bidi@parse@ver@[1]{\bidi@parse@ver0#1}
5602 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5603 \if\relax#2\relax\else#1\fi#2#3#4
5604 }
5605 \newcommand*\IfPackageVersionAtMostTF}[1]{%
5606 \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5607 }
5608 \newcommand*\@if@ver@pkg@most}[2]{%
5609 \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5610 \expandafter\@secondoftwo
5611 \else
5612 \expandafter\@firstoftwo
5613 \fi
5614 }
5615 \newcommand*\IfPackageVersionTF}[1]{%
5616 \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5617 }
5618 \newcommand*\@if@ver@pkg@[2]{%
5619 \ifnum\expandafter\bidi@parse@ver@#100\@nil=\expandafter\bidi@parse@ver@#200\@nil
5620 \expandafter\@firstoftwo

```




```

5621 \else
5622 \expandafter\@secondoftwo
5623 \fi
5624 }
5625
5626 \newcommand*\if@bidi@csdef}[1]{%
5627 \ifcsname#1\endcsname
5628 \expandafter\@firstoftwo
5629 \else
5630 \expandafter\@secondoftwo
5631 \fi}
5632 \newcommand*\if@bidi@csundef}[1]{%
5633 \ifcsname#1\endcsname
5634 \expandafter\ifx\csname#1\endcsname\relax
5635 \expandafter\expandafter
5636 \expandafter\@firstoftwo
5637 \else
5638 \expandafter\expandafter
5639 \expandafter\@secondoftwo
5640 \fi
5641 \else
5642 \expandafter\@firstoftwo
5643 \fi}
5644 \newcommand{\if@bidi@def}[1]{%
5645 \ifdefined#1%
5646 \expandafter\@firstoftwo
5647 \else
5648 \expandafter\@secondoftwo
5649 \fi}
5650 \newcommand{\if@bidi@undef}[1]{%
5651 \ifdefined#1%
5652 \ifx#1\relax
5653 \expandafter\expandafter
5654 \expandafter\@firstoftwo
5655 \else
5656 \expandafter\expandafter
5657 \expandafter\@secondoftwo
5658 \fi
5659 \else
5660 \expandafter\@firstoftwo
5661 \fi}
5662 \newcommand{\if@bidi@blank}[1]{% from url.sty
5663 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5664 \long\def\bidi@ifblank@i#1#2&#3#4#5:#{#4}
5665 \newcommand{\bidi@notblank}[1]{%
5666 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5667 \newcommand{\if@bidi@defmacro}{%
5668 \long\edef\if@bidi@defmacro#1{%
5669 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5670 \noexpand\meaning#1\detokenize{macro}:&}
5671 \edef\bidi@ifdefmacro{%
5672 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5673 \bidi@ifdefmacro{\bidi@notblank{#2}}
5674 \newcommand*\if@bidi@csmacro}[1]{%

```



```

5675 \if@bidi@csdef{#1}
5676   {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5677   {\@secondoftwo}}
5678 \newcommand{\if@bidi@defprimitive}[1]{%
5679   \ifprimitive#1%
5680   \expandafter\@firstoftwo
5681   \else
5682   \expandafter\@secondoftwo
5683   \fi}
5684 \newcommand{\if@bidi@csprimitive}[1]{%
5685   \begingroup\expandafter\expandafter\expandafter\endgroup%
5686   \expandafter\ifprimitive\csname#1\endcsname%
5687   \expandafter\@firstoftwo
5688   \else
5689   \expandafter\@secondoftwo
5690   \fi}
5691 \newcommand*{\bidi@csdefcs}[2]{%
5692   \expandafter\@ifdefinable \csname#1\endcsname{%
5693   \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}}
5694 \newcommand*{\bidi@csletcs}[2]{%
5695   \expandafter\@ifdefinable \csname#1\endcsname{%
5696   \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5697 \newcommand*{\bidi@cslet}[2]{%
5698   \expandafter\@ifdefinable \csname#1\endcsname{%
5699   \expandafter\let\csname#1\endcsname#2}}
5700 \newcommand{\bidi@namelongdef}[1]{%
5701   \long\expandafter\def\csname #1\endcsname}
5702 \newcommand{\bidi@namelonggdef}[1]{%
5703   \long\expandafter\gdef\csname #1\endcsname}
5704 \newcommand{\bidi@namelongedef}[1]{%
5705   \long\expandafter\edef\csname #1\endcsname}
5706 \newcommand{\bidi@namelongxdef}[1]{%
5707   \long\expandafter\xdef\csname #1\endcsname}
5708 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5709 \def\bidi@ensure@new@command#1{%
5710   \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5711   \expandafter\if@bidi@csundef\@gtempa
5712   {\new@command#1}{\relax%
5713   \let\@ifdefinable\@rc@ifdefinable%
5714   \new@command#1}}
5715 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5716
5717 \protected\def\bidi@error{\PackageError{bidi}}
5718 \protected\def\bidi@warning{\PackageWarning{bidi}}
5719 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5720 \protected\def\bidi@info{\PackageInfo{bidi}}
5721
5722 \def\bidi@pos#1#2#3#4{\bidi@namegdef{bidi@#1pos@#2@#3}{#4}}
5723
5724 \newcount\bidi@poscount
5725
5726 \newcommand*{\WriteStartXPostoaux}{%
5727   \global\advance\bidi@poscount\@ne
5728   \edef\@tempa{%

```



```

5729     \write\@auxout{%
5730         \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflast
5731     }%
5732 }%
5733 \ifvmode
5734     \leavevmode
5735 \fi
5736 \if@RTL
5737     \if@filesw
5738     \@tempa
5739 \fi
5740 \pdfsavepos
5741 \else
5742 \pdfsavepos
5743 \if@filesw
5744     \@tempa
5745 \fi
5746 \fi
5747 \if@bidi@csundef{bidi@xpos@start@number\bidiposcount}{%
5748     \PackageWarningNoLine{biditools}{%
5749         The start x position `number\bidiposcount' is not known yet.
5750         Rerun to get this x position%
5751     }%
5752 }{%
5753 }
5754
5755 \newcommand*\WriteEndXPostoaux{%
5756     \edef\@tempa{%
5757         \write\@auxout{%
5758             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflast
5759         }%
5760     }%
5761 \if@RTL
5762     \if@filesw
5763     \@tempa
5764 \fi
5765 \pdfsavepos
5766 \else
5767 \pdfsavepos
5768 \if@filesw
5769     \@tempa
5770 \fi
5771 \fi
5772 \if@bidi@csundef{bidi@xpos@end@number\bidiposcount}{%
5773     \PackageWarningNoLine{biditools}{%
5774         The end x position `number\bidiposcount' is not known yet.
5775         Rerun to get this x position%
5776     }%
5777 }{%
5778 }
5779
5780 \newcommand*\WriteStartYPostoaux{%
5781     \global\advance\bidiposcount\@ne
5782     \edef\@tempa{%

```



```

5783     \write\@auxout{%
5784         \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflast
5785     }%
5786 }%
5787 \ifvmode
5788     \leavevmode
5789 \fi
5790 \if@RTL
5791     \if@filesw
5792     \@tempa
5793 \fi
5794 \pdfsavepos
5795 \else
5796 \pdfsavepos
5797 \if@filesw
5798     \@tempa
5799 \fi
5800 \fi
5801 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5802     \PackageWarningNoLine{biditools}{%
5803         The start y position `\

```



```

5837     \write\@auxout{%
5838         \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflast
5839     }%
5840     \write\@auxout{%
5841         \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflast
5842     }%
5843 }%
5844 \ifvmode
5845     \leavevmode
5846 \fi
5847 \if@RTL
5848     \if@filesw
5849         \@tempa
5850 \fi
5851 \pdfsavepos
5852 \else
5853 \pdfsavepos
5854 \if@filesw
5855     \@tempa
5856 \fi
5857 \fi
5858 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5859     \PackageWarningNoLine{biditools}{%
5860         The start x position `\

```



```

5891 \fi
5892 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5893     \PackageWarningNoLine{biditools}{%
5894         The end x position `\

```



```

5945 \def\ bidi@newcommand#1[#2]{%
5946   \@ifnextchar[%
5947     {\bidi@xargdef#1[#2]}
5948     {\ifx\l@ngrel@x\relax
5949       \let\l@ngrel@x\protected
5950       \else
5951         \protected\def\l@ngrel@x{\protected\long}%
5952       \fi
5953     \@argdef#1[#2]}}
5954
5955 \long\def\ bidi@xargdef#1[#2][#3]#4{%
5956   \@ifdefinable#1{%
5957     \expandafter\protected
5958     \expandafter\def
5959     \expandafter#1%
5960     \expandafter{%
5961       \expandafter\@testopt
5962       \csname\string#1\endcsname{#3}}%
5963     \expandafter\@yargdef\csname\string#1\endcsname\tw#{#2}#{#4}}
5964
5965 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5966
5967 \def\ bidi@renew@command#1{%
5968   \if@bidi@undef{#1}
5969     {\bidi@error{\string#1 undefined}\@ehc}
5970     {}%
5971   \let\@ifdefinable\@rc@ifdefinable
5972   \bidi@new@command#1}
5973
5974
5975
5976 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5977
5978 \def\ bidi@provide@command#1{%
5979   \if@bidi@undef{#1}
5980     {\def\reserved@a{\bidi@new@command#1}}
5981     {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5982   \reserved@a}
5983
5984 \newcommand*{\bidi@csuse}[1]{%
5985   \ifcsname#1\endcsname
5986     \csname#1\expandafter\endcsname
5987   \fi}
5988
5989 \newcommand{\bidi@expandonce}[1]{%
5990   \unexpanded\expandafter{#1}}
5991
5992 \def\ bidi@protected{%
5993   \let\@protect\protect
5994   \let\protect\@unexpandable@protect
5995   \afterassignment\restore@protect}
5996
5997 \bidi@newrobustcmd{\bidi@appto}[2]{%
5998   \if@bidi@undef{#1}

```



```

5999   {\edef#1{\unexpanded{#2}}}
6000   {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
6001 \bidi@newrobustcmd{\bidi@eappto}[2]{%
6002   \if@bidi@undef{#1}
6003     {\edef#1{#2}}
6004     {\edef#1{\bidi@expandonce#1#2}}}}
6005 \bidi@newrobustcmd{\bidi@gappto}[2]{%
6006   \if@bidi@undef{#1}
6007     {\xdef#1{\unexpanded{#2}}}
6008     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
6009 \bidi@newrobustcmd{\bidi@xappto}[2]{%
6010   \if@bidi@undef{#1}
6011     {\xdef#1{#2}}
6012     {\xdef#1{\bidi@expandonce#1#2}}}}
6013
6014 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
6015 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
6016
6017
6018
6019 \bidi@newrobustcmd{\bidi@preto}[2]{%
6020   \if@bidi@undef{#1}
6021     {\edef#1{\unexpanded{#2}}}
6022     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}}
6023 \bidi@newrobustcmd{\bidi@epreto}[2]{%
6024   \if@bidi@undef{#1}
6025     {\edef#1{#2}}
6026     {\edef#1{#2\bidi@expandonce#1}}}}
6027 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
6028   \if@bidi@undef{#1}
6029     {\xdef#1{\unexpanded{#2}}}
6030     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}}
6031 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
6032   \if@bidi@undef{#1}
6033     {\xdef#1{#2}}
6034     {\xdef#1{#2\bidi@expandonce#1}}}}
6035
6036 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
6037 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
6038
6039
6040
6041 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
6042 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
6043 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
6044 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
6045 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
6046 \bidi@newrobustcmd*{\bidi@protected@csgappto}{\bidi@protected\bidi@csgappto}
6047
6048
6049
6050 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6051 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
6052 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}

```




```

6053 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6054 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6055 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6056
6057
6058
6059 \bidi@newrobustcmd{\ifbidi@patchable}{%
6060   \bidi@dbg@trce\ifbidi@patchable
6061   \begingroup
6062   \@makeother\#%
6063   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
6064
6065 \long\def\bidi@ifpatchable#1#2{%
6066   \endgroup
6067   \bidi@dbg@init#1%
6068   \ifbidi@undef{#1}
6069     {\bidi@dbg@fail{def}\@secondoftwo}
6070     {\bidi@dbg@info{def}%
6071     \ifbidi@defmacro{#1}
6072       {\bidi@dbg@info{mac}%
6073       \bidi@ifscanable{#1}
6074         {\bidi@ifhashcheck{#2}
6075         {\bidi@dbg@info{tok}%
6076         \bidi@ifpattern#1{#2}
6077           {\bidi@dbg@info{pat}%
6078           \bidi@dbg@info{pos}\@firstoftwo}
6079           {\bidi@dbg@fail{pat}\@secondoftwo}}
6080         {\bidi@dbg@fail{hsh}\@secondoftwo}}
6081         {\bidi@dbg@fail{tok}\@secondoftwo}}
6082         {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6083
6084 \long\def\bidi@ifpatchable@i#1{%
6085   \endgroup
6086   \bidi@dbg@init#1%
6087   \ifbidi@undef{#1}
6088     {\bidi@dbg@fail{def}\@secondoftwo}
6089     {\bidi@dbg@info{def}%
6090     \ifbidi@defmacro{#1}
6091       {\bidi@dbg@info{mac}%
6092       \ifbidi@defparam{#1}
6093         {\bidi@dbg@info{prm}%
6094         \bidi@ifscanable{#1}
6095         {\bidi@dbg@info{tok}%
6096         \bidi@dbg@info{pos}\@firstoftwo}
6097         {\bidi@dbg@fail{tok}\@secondoftwo}}
6098         {\bidi@dbg@info{prl}%
6099         \ifbidi@defprotected{#1}
6100         {\bidi@dbg@info{pro}}
6101         {}}%
6102         \bidi@dbg@info{pos}\@firstoftwo}}
6103     {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6104
6105 \bidi@newrobustcmd*{\bidi@patchcmd}{%
6106   \bidi@dbg@trce\bidi@patchcmd

```



```

6107 \begingroup
6108 \@makeother\#%
6109 \bidi@patchcmd}
6110
6111 \newcommand{\bidi@patchcmd}[4][#####1]{%
6112 \bidi@ifpatchable#2{#3}
6113 {\bidi@dbg@succ{ret}}%
6114 \begingroup
6115 \edef\bidi@resrvda{%
6116 \def\noexpand\bidi@resrvda#####1\detokenize{macro:}#####2->#####3&{%
6117 #1\def\string\bidi@resrvda\space#####2{\noexpand\bidi@resrvdb#####3&}}%
6118 \def\noexpand\bidi@resrvdb#####1\detokenize{#3}#####2&{%
6119 #####1\detokenize{#4}#####2}%
6120 \edef\noexpand\bidi@resrvda{%
6121 \noexpand\bidi@resrvda\meaning#2&}}%
6122 \bidi@resrvda
6123 \bidi@patchcmd@scantoks\bidi@resrvda
6124 \let#2\bidi@resrvda
6125 \bidi@undef\bidi@resrvda
6126 \@firstoftwo}
6127 {\@secondoftwo}}
6128
6129 \def\bidi@patchcmd@scantoks#1{%
6130 \edef\bidi@resrvda{\endgroup
6131 \unexpanded{\makeatletter\scantokens}{#1}}%
6132 \catcode\number\@=\the\catcode\@ \relax}%
6133 \bidi@resrvda}
6134
6135 \protected\def\bidi@ifscanable#1{%
6136 \begingroup
6137 \edef\bidi@resrvda{%
6138 \def\noexpand\bidi@resrvda#####1\detokenize{macro}:#####2->#####3&{%
6139 #####1\def\string\bidi@resrvda#####2{#####3}}%
6140 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6141 \bidi@resrvda
6142 \makeatletter
6143 \scantokens\expandafter{\bidi@resrvda}%
6144 \expandafter\endgroup\ifx#1\bidi@resrvda
6145 \expandafter\@firstoftwo
6146 \else
6147 \expandafter\@secondoftwo
6148 \fi}
6149
6150
6151 \protected\long\def\bidi@ifhashcheck#1{%
6152 \begingroup
6153 \edef\bidi@resrvda{\detokenize{#1}}%
6154 \expandafter\endgroup
6155 \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
6156
6157 \edef\bidi@ifhashcheck@i#1&{%
6158 \noexpand\expandafter
6159 \noexpand\bidi@ifhashcheck@ii
6160 \noexpand\strip@prefix#1\string#\string#&}

```



```

6161
6162 \edef\bidifhashcheck@ii{%
6163   \def\noexpand\bidifhashcheck@ii##1\string#\string###2&
6164   \bidifhashcheck@ii{\if@bidi@blank{#2}}
6165
6166
6167 \protected\long\def\bidifpattern#1#2{%
6168   \begingroup
6169   \edef\bidiresrvda{%
6170     \def\noexpand\bidiresrvda####1\detokenize{#2}###2&{%
6171       \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{###2}}}%
6172   \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda
6173     \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6174   \noexpand\bidiresrvda}
6175   \bidiresrvda\@secondoftwo\@firstoftwo}
6176
6177
6178 \newcommand{\if@bidi@defparam}{-}
6179 \long\edef\if@bidi@defparam#1{%
6180   \noexpand\expandafter\noexpand\bidifdefparam
6181   \noexpand\meaning#1\detokenize{macro}:->&}
6182 \edef\bidifdefparam{%
6183   \def\noexpand\bidifdefparam##1\detokenize{macro}:##2->##3&}
6184 \bidifdefparam{\bidinotblank{#2}}
6185
6186
6187 \newcommand{\if@bidi@defprotected}{-}
6188 \long\edef\if@bidi@defprotected#1{%
6189   \noexpand\expandafter\noexpand\bidifdefprotected
6190   \noexpand\meaning#1\string\protected&}
6191 \edef\bidifdefprotected{%
6192   \def\noexpand\bidifdefprotected##1\string\protected##2&}
6193 \bidifdefprotected{\bidinotblank{#2}}
6194
6195
6196 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6197 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6198   \expandafter\let\csname #1\endcsname\bidi@undefined
6199 }
6200
6201 \let\bidi@dbg@trce\@gobble
6202 \let\bidi@dbg@init\@gobble
6203 \let\bidi@dbg@info\@gobble
6204 \let\bidi@dbg@succ\@gobble
6205 \let\bidi@dbg@fail\@gobble
6206
6207
6208
6209 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6210   \bidi@dbg@trce\bidi@apptocmd
6211   \begingroup
6212   \@makeother\#%
6213   \bidi@hooktocmd\bidi@append}
6214

```



```

6215
6216
6217 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6218   \bidi@dbg@trce\bidi@pretocmd
6219   \begingroup
6220   \@makeother\%,
6221   \bidi@hooktocmd\bidi@prepend}
6222
6223 \long\def\bidi@hooktocmd#1#2#3{%
6224   \endgroup
6225   \bidi@dbg@init#2%
6226   \if@bidi@undef{#2}
6227     {\bidi@dbg@fail{def}\@secondoftwo}
6228     {\bidi@dbg@info{def}%
6229     \if@bidi@defmacro{#2}
6230       {\bidi@dbg@info{mac}%
6231       \if@bidi@defparam{#2}
6232         {\bidi@dbg@info{prm}%
6233         \bidi@ifscanable{#2}
6234           {\bidi@ifhashcheck{#3}
6235             {\bidi@dbg@info{tok}%
6236             \bidi@dbg@succ{ret}%
6237             \bidi@hooktocmd@i#1#2{#3}%
6238             \@firstoftwo}
6239             {\bidi@dbg@fail{hsh}\@secondoftwo}}
6240             {\bidi@dbg@fail{tok}\@secondoftwo}}
6241             {\bidi@dbg@info{prl}%
6242             \if@bidi@defprotected{#2}
6243               {\bidi@dbg@info{pro}%
6244               \bidi@dbg@succ{red}%
6245               \protected}
6246               {\bidi@dbg@succ{red}}}%
6247             \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6248             \@firstoftwo}}
6249             {\bidi@dbg@fail{mac}\@secondoftwo}}
6250
6251 \long\def\bidi@hooktocmd@i#1#2#3{%
6252   \begingroup
6253   \edef\bidi@resrvda{%
6254     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6255       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
6256     \edef\noexpand\bidi@resrvda{%
6257       \noexpand\bidi@resrvda\meaning#2&}}%
6258   \bidi@resrvda
6259   \bidi@patchcmd@scantoks\bidi@resrvda
6260   \let#2\bidi@resrvda
6261   \bidi@undef\bidi@resrvda}
6262
6263 \long\def\bidi@append#1#2{#1#2}
6264 \long\def\bidi@prepend#1#2{#2#1}
6265
6266 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6267 %\newcommand*{\bidi@endpreamblehook}{-}
6268

```



```

6269 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6270
6271 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipou
6272 \newcommand*{\bidi@beforeoutputpageshipouthook}{}}
6273
6274 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6275 \newcommand*{\bidi@beforeheaderhook}{}}
6276
6277 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutpu
6278 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}}
6279
6280 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputp
6281 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}}
6282
6283 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6284 \newcommand*{\bidi@beforefooterhook}{}}
6285
6286 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6287 \newcommand*{\bidi@afterfooterhook}{}}
6288
6289
6290 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouth
6291 \newcommand*{\bidi@afteroutputpageshipouthook}{}}
6292
6293 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6294 \newcommand*{\bidi@atendoutputpagehook}{}}
6295
6296 %\bidi@preto\document{%
6297 % \endgroup
6298 % \let\bidi@AtEndPreamble\@firstofone
6299 % \bidi@endpreamblehook
6300 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6301 % \bidi@undef\bidi@endpreamblehook
6302 % \begingroup}
6303
6304 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6305 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6306
6307 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterrendpreamblehook}
6308 %\newcommand*{\bidi@afterrendpreamblehook}{}}
6309
6310 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6311
6312 %\bidi@appto\document{%
6313 % \let\bidi@AfterEndPreamble\@firstofone
6314 % \bidi@afterrendpreamblehook
6315 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6316 % \bidi@undef\bidi@afterrendpreamblehook
6317 % \ignorespaces}
6318
6319 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterrenddocum
6320 \newcommand*{\bidi@afterrenddocumentchecklabelsrerunhook}{}}
6321
6322 \bidi@patchcmd\enddocument

```



```

6323 {\fi}
6324 {\let\ bidi@AfterEndDocumentCheckLabelsRerun@firstofone
6325 \bidi@afterenddocumentchecklabelsrerunhook
6326 \fi}
6327 {}
6328 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6329
6330 \AtEndDocument{\let\ bidi@AfterEndPreamble@gobble}
6331
6332 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6333 \newcommand*{\bidi@afterlastshipouthook}{}
6334
6335 \bidi@patchcmd\enddocument
6336 {\clearpage}
6337 {\clearpage
6338 \let\ bidi@AfterLastShipout@firstofone
6339 \bidi@afterlastshipouthook}
6340 {}
6341 {\let\ bidi@clearpage\clearpage
6342 \def\clearpage{%
6343 \bidi@clearpage
6344 \let\ bidi@AfterLastShipout@firstofone
6345 \bidi@afterlastshipouthook}}
6346
6347 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
6348 %\newcommand*{\bidi@afterenddocumenthook}{}
6349
6350 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6351
6352 %\bidi@patchcmd\enddocument
6353 % {\deadcycles}
6354 % {\let\ bidi@AfterEndDocument@firstofone
6355 % \bidi@afterenddocumenthook
6356 % \deadcycles}
6357 % {}
6358 % {\let\ bidi@@end@@end
6359 % \def@@end{%
6360 % \let\ bidi@AfterEndDocument@firstofone
6361 % \bidi@afterenddocumenthook
6362 % \bidi@@end}}
6363
6364 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6365 \bidi@csgappto{\bidi@begin@#1@hook}}
6366
6367 % Patch \begin<space> and \end<space> in newer LaTeX releases
6368 % \begin and \end in older ones.
6369 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6370 {\csname #1\endcsname}
6371 {\bidi@cuse{\bidi@begin@#1@hook}}%
6372 \csname #1\endcsname}
6373 {}
6374 {\bidi@warning{%
6375 Patching '\string\begin' failed!\MessageBreak
6376 '\string\bidi@AtBeginEnvironment' will not work@gobble}}

```



```

6377
6378
6379
6380 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6381   \bidi@csgappto{@bidi@end@#1@hook}}
6382
6383 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6384   {\csname end#1\endcsname}
6385   {\bidi@csuse{@bidi@end@#1@hook}}%
6386   \csname end#1\endcsname}
6387   {}
6388   {\bidi@warning{%
6389     Patching '\string\end' failed!\MessageBreak
6390     '\string\bidi@AtEndEnvironment' will not work@gobble}}
6391
6392
6393
6394 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6395   \bidi@csgappto{@bidi@beforebegin@#1@hook}}
6396
6397 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6398   {\bidi@csuse{@bidi@beforebegin@#1@hook}}
6399   {}
6400   {\bidi@warning{%
6401     Patching '\string\begin' failed!\MessageBreak
6402     '\string\bidi@BeforeBeginEnvironment' will not work@gobble}}
6403
6404 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6405   \bidi@csgappto{@bidi@afterend@#1@hook}}
6406
6407 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6408   {\if@ignore}
6409   {\bidi@csuse{@bidi@afterend@#1@hook}}%
6410   \if@ignore}
6411   {}
6412   {\bidi@warning{%
6413     Patching '\string\end' failed!\MessageBreak
6414     '\string\bidi@AfterEndEnvironment' will not work@gobble}}
6415
6416 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6417 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6418 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6419 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6420
6421 % From David Carlisle:
6422 % The \stpelt redefinition below belongs to Heiko Oberdiek
6423 % See also https://github.com/ho-tex/oberdiek/issues/26
6424
6425 \let\bidi@stepcounter\stepcounter
6426 \let\bidi@@stpelt\stpelt
6427
6428 \def\bidi@stpelt#1{%
6429   \ifcsname bidi@reset@#1@perpage\endcsname
6430     \begingroup

```



```

6431     \let\stepcounter\@bidi@stepcounter
6432     \@bidi@stpelt{#1}%
6433   \endgroup
6434   \expandafter\@gobbletwo
6435   \fi
6436   \@bidi@stpelt{#1}%
6437 }
6438
6439 \bidi@pretocmd\stepcounter
6440   {%
6441     \if@bidi@csundef{bidi@stepcounterhook@@#1}{-}{%
6442       \csname bidi@stepcounterhook@@#1\endcsname
6443     }%
6444   }-%
6445   {\PackageWarning{biditytools}{Patching '\string\stepcounter' failed}}
6446
6447 \chardef\bidi@backslash`
6448 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6449
6450 % anonymous control sequences
6451 \newcount\bidi@tempcountb
6452 \newtoks\bidi@temptoksa
6453 \newtoks\bidi@temptoksb
6454
6455 % Catcode (re)storing
6456 %
6457 \def\bidi@storecatcode#1%
6458   {\escapechar@m@ne
6459     \bidi@csarg\edef{bidi@restorecatcode\string#1}%
6460     {\catcode`\string#1=
6461       \the\catcode\expandafter`\string#1}%
6462     \catcode\expandafter`\string#1=12\relax
6463     \escapechar`\\relax}
6464 \def\bidi@restorecatcode#1%
6465   {\escapechar@m@ne
6466     \csname bidi@restorecatcode\string#1\endcsname
6467     \escapechar`\\relax}
6468
6469 % Construct a control sequence inside \edef
6470 %
6471 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6472
6473 % Construct a control sequence out of #2, and give it to #1
6474 %
6475 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6476
6477 % Pick an escapecharacter
6478 % this presumes that its argument is a character.
6479 %
6480 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6481
6482 % Equality of strings.
6483 % the fast approach: does not work in expansion-only environment.
6484 %

```




```

6485 \def\bidiequalstring#1#2{00\fi\def\bidieqs@a{#1}\def\bidieqs@b{#2}%
6486     \ifx\bidieqs@a\bidieqs@b}
6487
6488 % Test by expansion only
6489 %
6490 \def\bidiequalstringX#1#2{00\fi
6491     \csname if\@bidiequalstringX#1&#2$\endcsname}
6492 \def\@bidiequalstringX#1#2$#3#4${\ifx#1#3%
6493     \ifx#1&true\else\bidiehop@ES\@bidiequalstringX#2$#4$\fi
6494     \else false\fi}
6495 \def\bidiehop@ES#1\fi#2\fi{\fi\fi#1}
6496
6497 % Lexicographic ordering
6498 % note the use of \def
6499 % also note the characters 0,127,255 that are used,
6500 % these are not supposed to appear in the strings
6501 %
6502 {\catcode0=12 \catcode255=12 \catcode127=12
6503 \gdef\bidistringbeforeNC#1#2{00\fi
6504     \bidiecharsbefore#1^^@^^?#2^^ff^^?}
6505 \gdef\bidiecharsbeforeNC#1#2^^?#3#4^^?{%
6506     \ifcat#1\relax\def\bidie@next{\bidiecharsbefore#2^^@^^?#3#4^^ff^^?}%
6507     \else\ifcat#3\relax\def\bidie@next{\bidiecharsbefore#1#2^^@^^?#4^^ff^^?}%
6508     \else\ifnum\lccode`#1<\lccode`#3
6509         \def\bidie@next{\csname iftrue\endcsname}%
6510         \else\ifnum\lccode`#1>\lccode`#3
6511             \def\bidie@next{\csname iffalse\endcsname}%
6512             \else\def\bidie@next{\bidiecharsbefore#2^^?#4^^?}%
6513     \fi \fi \fi \fi
6514     \bidie@next}
6515 \gdef\bidistringbefore#1#2{00\fi
6516     \bidiecharsbefore#1^^@^^?#2^^ff^^?}
6517 \gdef\bidiecharsbefore#1#2^^?#3#4^^?{%
6518     \ifnum`#1<`#3
6519         \def\bidie@next{\csname iftrue\endcsname}%
6520     \else\ifnum`#1>`#3
6521         \def\bidie@next{\csname iffalse\endcsname}%
6522     \else\def\bidie@next{\bidiecharsbefore#2^^?#4^^?}%
6523     \fi\fi
6524     \bidie@next}
6525 }
6526
6527 % Null argument test
6528 %
6529 \def\bidie@empty{}
6530 \def\bidie@ifempty#1{00\fi\expandafter\ifx\csname bidi@#1@null\endcsname\bidie@null}
6531 \def\bidie@ifemptyX#1{\expandafter\ifx\csname bidi@#1@null\endcsname\bidie@null}
6532 %\def\bidie@ifempty#1{\def\bidie@cs@a{#1}\ifx\bidie@cs@a\bidie@empty}
6533 \def\bidie@isemptylist#1{00\fi\def\bidie@cs@a{#1}\ifx\cs@a\bidie@empty}
6534
6535 % Next character test
6536 %
6537 \def\bidie@nextchar#1#2#3{00\fi
6538     \let\bidie@nxt@ch#1\def\bidie@nxt@a{#2}\def\bidie@nxt@b{#3}%

```



```

6539 \futurelet\bidixnxt@c\@bidixifnxtc}
6540 \def\bidixifNextChar#1#2#3{%
6541 \let\bidixnxt@ch#1\def\bidixnxt@a{#2}\def\bidixnxt@b{#3}%
6542 \futurelet\bidixnxt@c\@bidixifnxtc}
6543 \def\@bidixifnxtc{\ifx\bidixnxt@ch\bidixnxt@c \expandafter\bidixnxt@a
6544 \else \expandafter\bidixnxt@b \fi}
6545
6546 % Test for defined-ness of string as control sequence.
6547 % works inside \edef
6548 %
6549 \def\bidixundefinedcs#1{00\fi\bidixcsarg\ifx{#1}\relax}
6550
6551 % Define uniquely defined dummy macros,
6552 % usually to serve as bumper blocks at the end of a list
6553 %
6554 \newcount\bidixdummies
6555 \def\DefNewDummy#1{
6556 \if\bidixundefinedcs{#1}\bidixcsarg\edef{#1}{\bidixdum\the\bidixdummies}
6557 \advance\bidixdummies\@ne
6558 \else
6559 \bidixerror{Attempt at second definition of `#1'}
6560 \fi}
6561
6562 % string case statement
6563 % use: \bidixswitch \iftest{...} in:
6564 % item1 action1
6565 % ...
6566 % itemn actionn
6567 % default defaultaction [optional]
6568 % \endbidixswitch
6569 % inspired by Jonathan Fine: Some Basic Control Macros
6570 % Tugboat 12 #4
6571 %
6572 \let\@bidixfi\fi \let\endbidixswitch\relax \DefNewDummy{\bidixdefault}
6573 \def\bidixswitch@exit #1 \@bidixfi #2 \endbidixswitch {\fi #1}
6574 \def\bidixswitch #1#2#3{\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6575 #1{#2}\bidixswitch@exit #3 \@bidixfi
6576 \bidixswitch {#1}
6577 }
6578 % this version puts the test object in {}
6579 \def\bidixoswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bid
6580 #1{#2}\bidixswitch@exit #3 \@bidixfi
6581 \bidixswitch #1 in:
6582 }
6583 % this version assumes that the test object is just one character
6584 \def\bidixcswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bid
6585 #1#2\bidixswitch@exit #3 \@bidixfi
6586 \bidixcswitch #1 in:
6587 }
6588 % this version assumes that the test object can have an optional space
6589 \def\bidixbswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bid
6590 #1#2 \bidixswitch@exit #3 \@bidixfi
6591 \bidixbswitch #1 in:
6592 }

```



```

6593 % this version can cope with significant spaces at the start of #3;
6594 % #2 is macro argument
6595 \def\bidimswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bid
6596 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6597 \bidi@mswitch #1 in:
6598 }
6599 % idem; #2 does not have to be enclosed in braces
6600 \def\bidifswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bid
6601 #1#2 \bidi@switch@exit #3 \@bidi@fi
6602 \bidifswitch #1 in:
6603 }
6604
6605 % Routines for taking the value of a string:
6606 % if the string is defined as control sequence
6607 % take the value of that, otherwise take the string itself
6608
6609 % String or value of control sequence
6610 %
6611 \def\bidiw@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6612
6613 % String or control sequence
6614 %
6615 \def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6616
6617 % String or \noexpand-ed control sequence;
6618 % for use in \edef
6619 %
6620 \newif\ifbidi@in@label
6621 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6622 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6623 \newtoks\bidi@are@these@correct
6624 \def\bidi@t@w@w#1{%
6625 \if\bidi@undefinedcs{#1}#1%
6626 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1} \fi
6627 \else
6628 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6629
6630 % List Manipulation .....
6631 % this assumes that #1 is a list of tokens, #2 is the name of a list
6632 %
6633 % Names of lists (and of items to pop into) are given as strings;
6634 % not as control sequences.
6635 %
6636 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6637 % basic append/prepend macro
6638 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6639 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@
6640 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6641 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lis
6642 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@cslist}
6643 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@cslist}
6644 % variations:
6645 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{-}{#2}}
6646 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{-}{#2}}

```



```

6647 \def\ bidi@append@list@to@list#1#2{%
6648   \@bidi@append@to@list{#1}{\expandafter\expandafter}{\expandafter\the\csname#2
6649 \def\ bidi@prepend@list@to@list#1#2{%
6650   \@bidi@prepend@to@list{#1}{\expandafter\expandafter}{\expandafter\the\csname#
6651 \def\ bidi@append@cslist@to@cslist#1#2{%
6652   \@bidi@append@to@cslist{#1}\expandafter{\the#2}}
6653 \def\ bidi@prepend@cslist@to@cslist#1#2{%
6654   \@bidi@prepend@to@cslist{#1}\expandafter{\the#2}}
6655 \def\ bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
6656 \def\ bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
6657
6658 \let\ bidi@willbeunhskip\ unhskip
6659
6660 % A few list macros for the user
6661 \def\ NewTokenList:#1 {\@bidi@csarg\ newtoks{#1}\global\csname#1\endcsname{}}
6662 \def\ EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6663 \long\def\ AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
6664 \long\def\ PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
6665 \def\ TheTokenList:#1 {\let\ bidi@oldwbuskip\ bidi@willbeunhskip \let\ bidi@willbeunhskip\@empt
6666   \if\ bidi@undefinedcs{#1}\ bidi@error{Token List <#1> undefined}
6667   \else\ bidi@csarg\ the{#1}\fi
6668   \let\ bidi@willbeunhskip\ bidi@oldwbuskip}
6669
6670 \def\ bidi@del@tok@from@list#1#2{\begingroup
6671   \long\def\ bidi@cs@liste##1#2##2\ bidi@tok@SM
6672     {\@bidi@toks@lista{##1}\@bidi@toks@listb{##2}}%
6673     \edef\ bidi@cs@listb{\global\@bidi@csname{#1}=
6674       {\the\@bidi@toks@lista\the\@bidi@toks@listb}}%
6675     \bidi@cs@listb}%
6676     \edef\ bidi@cs@lista{\noexpand\@bidi@cs@liste{\expandafter\the\csname#1\endcsname\noexpa
6677     \bidi@cs@lista \endgroup}
6678 \def\ bidi@in@front@of@list#1{\@bidi@csarg{\let\expandafter\@bidi@cs@lista}{#1}}%
6679 \bidi@in@front@of@cslist\@bidi@cs@lista}
6680 \long\def\ bidi@in@front@of@cslist#1#2{\begingroup\@bidi@toks@lista={#2}}%
6681 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\@bidi@toks@lis
6682 \endgroup}
6683 \long\def\ bidi@local@in@front@of@list#1#2{\@bidi@toks@lista={#2}}%
6684 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expanda
6685   {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandaft
6686   \expandafter\the\csname#1\endcsname}%
6687   }
6688 \def\ bidi@set@list#1{\@bidi@csarg{\let\expandafter\@bidi@cs@lista}{#1}}%
6689 \bidi@set@cslist\@bidi@cs@lista}
6690 \long\def\ bidi@set@cslist#1#2{\begingroup\@bidi@toks@lista={#2}}%
6691 \global#1=\expandafter{\the\@bidi@toks@lista}\endgroup}
6692
6693 %%% Stack macros
6694 %
6695 % push in terms of prepending of lists
6696 \def\ bidi@push@cs@onto@cs#1#2{\@bidi@prepend@to@cslist#1\expandafter{\expandafter\\expanda
6697 \def\ bidi@push@onto#1{\@bidi@csarg\@bidi@push@onto@cs{#1}}
6698 \def\ bidi@push@onto@cs#1#2{\@bidi@prepend@to@cslist#1}{\{#2}}
6699 \def\ bidi@local@push@onto#1#2{\let\\=\relax
6700   \bidi@local@in@front@of@list{#1}{\{#2}}

```



```

6701 % pop via auxiliary macro: #1 is result, #2 is stack
6702 % two cs arguments
6703 \def\bidipop@cs@into#1#2{\edef\bidics@e
6704   {\noexpand\@bidipopinto\noexpand#1\noexpand#2\the#2\noexpand\@bidipop}\bidics@e}
6705 % two string arguments
6706 \def\bidipop@into#1#2{\edef\bidics@e
6707   {\noexpand\@bidipopinto\bidicsname{#1}\bidicsname{#2}\bidicsarg\the{#2}\noexpand\@
6708 \long\def\@bidipopinto#1#2\#3#4\@bidipop{#1{#3}#2{#4}}
6709 \def\bidicopy@stacktop#1#2{%
6710   \edef\bidics@e{\noexpand\@bidicopy@stacktop
6711     {#1}\bidicsarg\the{#2}\noexpand\@bidipop}%
6712   \bidics@e}
6713 \def\@bidicopy@stacktop#1\#2#3\@bidipop{\csname#1\endcsname#2\relax}
6714 \newcount\bidistack@length \newtoks\bidie@empty@stack \bidie@empty@stack{\{\}}
6715 \def\bidilength@of@stack#1{\bidicsarg\bidilength@of@csstack{#1}}
6716 \def\bidilength@of@csstack#1{\def\##1{\advance\bidistack@length\@ne}%
6717   \bidistack@length\m@ne \the#1}
6718 % turn a stack upside down
6719 \def\bidinvert@csstack#1{\bidilength@of@csstack{#1}%
6720   \biditempcountb\z@ \biditemptoksa\bidie@empty@stack
6721   \loop\ifnum\biditempcountb<\bidistack@length
6722     \bidipop@cs@into\biditemptoksb#1\advance\bidistack@length\m@ne
6723     \bidipush@cs@onto@cs\biditemptoksa\biditemptoksb
6724 %   \bidicappend@clist@to@clist\biditemptoksb\biditemptoksa% append a to b
6725 %   \biditemptoksa\biditemptoksb
6726   \repeat% copy b to a
6727   #1\biditemptoksa \biditemptoksa\bidie@empty@toks}
6728 % invert a stack into a list
6729 \def\bidix@stack@to@list#1{\bidilength@of@stack{#1}%
6730   \biditempcountb\z@ \biditemptoksa\bidie@empty@toks
6731   \loop\ifnum\biditempcountb<\bidistack@length
6732     \bidipop@into{\biditemptoksb}{#1}\advance\bidistack@length\m@ne
6733     \bidicappend@list@to@list{\biditemptoksb}{\biditemptoksa}\repeat
6734   \csname#1\endcsname\biditemptoksa \biditemptoksa\bidie@empty@toks}
6735
6736
6737 % General loop macro:
6738 % \looprepeat
6739 %   \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<e
6740 %   \untilcondition{<cond>} \whilecondition{<cond>}
6741 %   \doloopbody { <loop body> }
6742 % where all control sequences in between \looprepeat and \doloopbody are optional.
6743 %
6744 % var: characters to form a control sequence;
6745 %   after \forvariable{index} you can access the loop counter as \index.
6746 %   This is a count register; to print it use \number\index.
6747 % start,step,end: integers with obvious relations to the loop counter;
6748 %   start and step have a default value of 1
6749 % cond: (sequence of commands ending in) any TeX \if... test.
6750 %
6751 % Count down instead of up with \downtovalue; the increment given in \bystep
6752 % is always positive, and is added or subtracted accordingly.
6753 %
6754 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition

```



```

6755 % at the beginning of the loop body.
6756 %
6757 % Exit from middle of loop: \breaklooprepeat
6758 % use this at any place in the loop; in case of a conditional use
6759 % \ifsomething ... \expandafter \breaklooprepeat \fi
6760 %
6761 % Note that the line ends do not cause spaces in the output.
6762 %
6763 % Technical details:
6764 % The loop body is not executed in a group: the braces are those
6765 % of a token list.
6766 % The 'forvariable' variable is \let to a \count register.
6767
6768
6769
6770 % Auxiliary stuff
6771 \def\bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6772 \def\bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidi@looprepeat@depth\endcsname}
6773 \def\bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidi@looprepeat@depth\endcsname}
6774
6775 \newcount\bidi@looprepeat@depth
6776 \let\endlooprepeat\relax \def\bidi@csprotect{}
6777 % Trace switches may later be defined by PAC_utils
6778 \let\bidi@looprepeat@traceinit\relax \let\bidi@looprepeat@traceexit\relax
6779
6780 % Main repeatloop macro
6781 % - go to next level and allocate unique counter/toks if this is the
6782 %   first time we visit this level
6783 % - setup: gather bounds and termination conditions
6784 % - scoop up body in token list; after the assignment define and
6785 %   execute body
6786 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
6787 \advance\bidi@looprepeat@depth\@ne\relax
6788 \bidi@looprepeat@csargromannumeral\ifx\bidi@looprepeat@count}\relax
6789 \bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidi@looprepeat@depth}\relax
6790 \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepeat@depth}\relax
6791 \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepeat@depth}\relax
6792 \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepeat@depth}\relax
6793 \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}\def\bidi@looprepeat@comp{>}\bidi@looprepeat@comp{>}
6794 \edef\bidi@looprepeat@tmp
6795 {\def\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}{\bidi@looprepeat@depth}\relax
6796 \afterassignment\bidi@looprepeat@dxbody\bidi@looprepeat@csromannumeral{\bidi@looprepeat@depth}\relax}
6797
6798 % Define and execute loop body
6799 % This is done with an \edef to construct the actual sequence
6800 \def\bidi@looprepeat@dxbody{\bidi@looprepeat@csargromannumeral\edef{\bidi@looprepeat@body}{\bidi@looprepeat@body}\relax
6801 \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}}
6802 \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@toks}}
6803 \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@utest}}
6804 \global\bidi@looprepeat@csargromannumeral\advance{\bidi@looprepeat@count} by \bidi@looprepeat@depth
6805 \noexpand\endlooprepeat
6806 \bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}}
6807 \bidi@looprepeat@csromannumeral{\bidi@looprepeat@body}\ignorespaces}
6808

```



```

6809 % Stop test
6810 %% In order to stop, issue a
6811 % \breaklooprepeat which scoops up the rest of the body and exits
6812 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral{
6813   \advance\bidi@looprepeat@depth\m@ne \bidi@looprepeat@traceexit
6814 }
6815
6816
6817 % Setup
6818 % gather bounds and termination conditions
6819 \def\bidi@looprepeat@setup#1{%
6820   \begingroup
6821   \def\forvariable##1{%
6822     \edef\bidi@looprepeat@tmp{%
6823       \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{\bidi@
6824       \bidi@looprepeat@tmp}%
6825     \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{\bidi@looprepeat@count}##1\i
6826     \def\tovalue##1{%
6827       \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loo
6828       {\bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}}%
6829       \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@count}\b
6830       \noexpand\expandafter \noexpand\breaklooprepeat
6831       \noexpand\fi}\ignorespaces}%
6832     \bidi@looprepeat@tmp}%
6833   \def\owntovalue##1{%
6834     \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6835   \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value
6836     \bidi@looprepeat@csargromannumeral\gdef{\bidi@looprepeat@inc}{-##1}\else
6837     \bidi@looprepeat@csargromannumeral\gdef{\bidi@looprepeat@inc}{##1}\fi\ignores
6838   \def\untilcondition##1{%
6839     \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loo
6840     {\noexpand##1\relax
6841     \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6842     \bidi@looprepeat@tmp}%
6843   \def\whilecondition##1{%
6844     \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loo
6845     {\noexpand##1\relax \noexpand\else
6846     \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6847     \bidi@looprepeat@tmp}%
6848     \fromvalue{\@ne}\bystep{\@ne}#1%
6849   \endgroup}
6850 \def\bidi@looprepeat@zero
6851   {\bidi@looprepeat@csromannumeral{\bidi@looprepeat@toks}{}\bidi@looprepeat@csromannumeral{
6852   \bidi@looprepeat@csargromannumeral\def{\bidi@looprepeat@body}{}}
6853
6854 %\tracingmacros2
6855 %\newcount\tmpcount % used in some examples below
6856
6857 %\looprepeat \forvariable{i}
6858 %   \bystep{2}
6859 % \doloopbody {%
6860 %   \ifnum\i=13 \expandafter\breaklooprepeat \fi
6861 %   \number\i} %
6862 %}%

```




```

6863
6864 %\looprepeat \forvariable{iii}
6865 %     \tovalue{8}
6866 %   \doloopbody {}
6867 %After loop: \number\iii%
6868
6869 %\looprepeat \forvariable{i}
6870 %     \fromvalue{10}
6871 %     \bystep{2}
6872 %     \downtovalue{0}
6873 %   \doloopbody {\number\i} }
6874
6875 %\looprepeat \forvariable{x} \whilecondition{\ifnum\x<7}
6876 %   \doloopbody {\number\x} }
6877
6878 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6879
6880 %\looprepeat \forvariable{j}
6881 %     \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6882 %   \doloopbody {\number\j} }
6883
6884 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6885 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6886 %   \doloopbody {(\number\i.\number\j) }
6887 % }
6888
6889 % infinite loop
6890 %\looprepeat \doloopbody {}
6891
6892 \ExplSyntaxOn
6893 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6894 {
6895   \IfBooleanTF { #1 }
6896   {
6897     \@ifclassloaded{ #2 }
6898     { #4 }
6899     {
6900       \hook_gput_code:nnn
6901         { file / #2.\@clsextension / after }
6902         { #3 }
6903         { #4 }
6904     }
6905   }
6906   {
6907     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6908   }
6909 }
6910
6911 \seq_new:N \g__biditools_input_file_seq
6912
6913 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6914 {
6915   \str_set:Nx \l_tmpa_str { #1 }
6916   \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }

```




```

6917     { \prg_return_true: }
6918     { \prg_return_false: }
6919   }
6920
6921 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6922 {
6923   \@ifclassloaded { #1 }
6924   {
6925     \_bidi_if_loading:nTF { #1.\@clsextension }
6926     { \prg_return_false: }
6927     { \prg_return_true: }
6928   }
6929   {
6930     \prg_return_false:
6931   }
6932 }
6933
6934 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6935 {
6936   \@ifpackageloaded { #1 }
6937   {
6938     \_bidi_if_loading:nTF { #1.\@pkgextension }
6939     { \prg_return_false: }
6940     { \prg_return_true: }
6941   }
6942   {
6943     \prg_return_false:
6944   }
6945 }
6946
6947 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6948 {
6949   \IfBooleanTF { #1 }
6950   {
6951     \bidi_if_class_loaded:nTF { #2 }
6952     { #4 }
6953     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6954   }
6955   {
6956     \bidi_if_class_loaded:nF
6957     { #2 }
6958     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6959   }
6960 }
6961
6962 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6963 {
6964   \IfBooleanTF { #1 }
6965   {
6966     \@ifpackageloaded{ #2 }
6967     { #4 }
6968     {
6969       \hook_gput_code:nnn
6970       { file / #2.\@pkgextension / after }

```



```

6971         { #3 }
6972         { #4 }
6973     }
6974 }
6975 {
6976     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6977 }
6978 }
6979
6980 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6981 {
6982     \IfBooleanTF { #1 }
6983     {
6984         \bidi_if_package_loaded:nTF { #2 }
6985         { #4 }
6986         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6987     }
6988     {
6989         \bidi_if_package_loaded:nF
6990         { #2 }
6991         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6992     }
6993 }
6994
6995 \clist_new:N \l__biditools_package_clist
6996 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6997 {
6998     Can-not-prevent-package~`#1'~from-being-loaded,~
6999     since-it-has-been-loaded-already-before-line~\msg_line_number:
7000 }
7001 \clist_new:N \g__biditools_prevent_clist
7002
7003 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
7004 {
7005     \clist_set:Nx \l__biditools_package_clist { #3 }
7006     \clist_map_inline:Nn \l__biditools_package_clist
7007     {
7008         \@ifpackageloaded { ##1 }
7009         {
7010             \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
7011             { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
7012         }
7013         {
7014             \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
7015             { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
7016             \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
7017             {
7018                 \tl_new:c { g__biditools_exclude_package_##1_tl }
7019             }
7020             \IfValueT { #2 }
7021             {
7022                 \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
7023             }
7024             \disable@package@load { ##1 }

```



```

7025         { \tl_use:c { g__biditools_exclude_package_##1_tl } }
7026     }
7027 }
7028 \clist_clear:N \l__biditools_package_clist
7029 }
7030
7031 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
7032 {
7033     \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
7034     \clist_gclear:N \g__biditools_prevent_clist
7035 }
7036
7037 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
7038 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
7039
7040 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
7041 {
7042     \clist_set:Nx \l__biditools_package_clist { #2 }
7043     \clist_map_inline:Nn \l__biditools_package_clist
7044     {
7045         \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
7046         {
7047             \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7048             \reenable@package@load { ##1 }
7049             \IfBooleanT { #1 }
7050                 { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7051         }
7052     }
7053 }
7054
7055 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7056 {
7057     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7058     {
7059         \debug_suspend:
7060         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7061         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7062         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7063         #2
7064         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7065         \debug_resume:
7066     }
7067 }
7068
7069 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7070 {
7071     \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7072     {
7073         \debug_suspend:
7074         \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7075         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7076         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7077         #2
7078         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn

```



```

7079     \debug_resume:
7080   }
7081 }
7082
7083 \clist_new:N \l__biditools_file_patch_clist
7084
7085 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7086 {
7087   \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7088   \clist_map_inline:Nn \l__biditools_file_patch_clist
7089     {
7090       \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7091     }
7092   \clist_clear:N \l__biditools_file_patch_clist
7093 }
7094
7095 \clist_new:N \l__biditools_package_patch_clist
7096
7097 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7098 {
7099   \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7100   \clist_map_inline:Nn \l__biditools_package_patch_clist
7101     {
7102       \ApplyPatchToPackage { ##1 } [ #2 ]
7103     }
7104   \clist_clear:N \l__biditools_package_patch_clist
7105 }
7106
7107 \clist_new:N \l__biditools_class_patch_clist
7108
7109 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7110 {
7111   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7112   \clist_map_inline:Nn \l__biditools_class_patch_clist
7113     {
7114       \ApplyPatchToClass { ##1 } [ #2 ]
7115     }
7116   \clist_clear:N \l__biditools_class_patch_clist
7117 }
7118
7119 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7120 {
7121   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7122   \clist_map_inline:Nn \l__biditools_class_patch_clist
7123     {
7124       \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7125     }
7126   \clist_clear:N \l__biditools_class_patch_clist
7127 }
7128 \ExplSyntaxOff
7129
7130 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7131 \newcommand*{\bidi@UnReplaceInput}
7132 {\undeclare@file@substitution}

```



```

7133 \newcommand*\bidi@ReplacePackage}[2]{%
7134   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7135 }
7136 \newcommand*\bidi@UnReplacePackage}[1]{%
7137   \undeclare@file@substitution{#1.\@pkgextension}%
7138 }
7139 \newcommand*\bidi@ReplaceClass}[2]{%
7140   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7141 }
7142 \newcommand*\bidi@UnReplaceClass}[1]{%
7143   \undeclare@file@substitution{#1.\@clsextension}%
7144 }
7145 \newcommand*\bidi@BeforeFile}[1]{%
7146   \AddToHook{file/#1/before}%
7147 }
7148 \newcommand*\bidi@AfterFile}[1]{%
7149   \AddToHook{file/#1/after}%
7150 }
7151 \newcommand*\bidi@BeforeClass}[1]{%
7152   \bidi@BeforeFile{#1.\@clsextension}%
7153 }
7154 \newcommand*\bidi@BeforePackage}[1]{%
7155   \bidi@BeforeFile{#1.\@pkgextension}%
7156 }
7157
7158 \long\def\bidi@protected@immediate@write#1#2#3{%
7159   \begingroup
7160     #2%
7161     \let\protect\unexpandable@protect
7162     \edef\reserved@a{\immediate\write#1{#3}}%
7163     \reserved@a
7164   \endgroup
7165   \if@nobreak\ifvmode\nobreak\fi\fi
7166 }
7167
7168 \def\bidi@patch@AfterPackage#1{%
7169   \@ifpackageloaded{#1}{%
7170     \@firstofone
7171   }{%
7172     \AddToHook{package/#1/after}%
7173   }%
7174 }
7175
7176 \def\bidi@patch@AfterFile#1{%
7177   \IfFileLoadedTF{#1}{%
7178     \@firstofone
7179   }{%
7180     \AddToHook{file/#1/after}%
7181   }%
7182 }
7183
7184 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7185 {
7186   \bidi@patch@AfterFile{#1.#2}{%

```



```

7187     \ifnum\catcode`\@=11
7188         \input{#1-xetex-#3.def}%
7189     \else
7190         \bidi@storecatcode\@
7191         \makeatletter
7192         \input{#1-xetex-#3.def}%
7193         \bidi@restorecatcode\@
7194     \fi
7195 }%
7196 }
7197
7198 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7199 {
7200     \bidi@patch@AfterFile{#1.#3}{#2}%
7201 }
7202
7203 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7204 {
7205     \AddToHook{begindocument/before}{%
7206         \IfPackageLoadedF{#1}{%
7207             \ApplyPatchToFiles{#2}[#3][#4]%
7208         }%
7209     }
7210 }
7211
7212 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7213 {
7214     \AddToHook{begindocument/before}{%
7215         \IfPackageLoadedF{#2}{%
7216             \ifnum\catcode`\@=11
7217                 \@ifclassloaded{#1}{%
7218                     \input{#1-xetex-#3.def}%
7219                 }{%
7220                 \else
7221                     \bidi@storecatcode\@
7222                     \makeatletter
7223                     \@ifclassloaded{#1}{%
7224                         \input{#1-xetex-#3.def}%
7225                     }{%
7226                         \bidi@restorecatcode\@
7227                     \fi
7228                 }%
7229             }
7230         }
7231
7232 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7233 {
7234     \AddToHook{begindocument/before}{%
7235         \IfPackageLoadedF{#2}{%
7236             \IfPackageLoadedT{#1}{%
7237                 \ifnum\catcode`\@=11
7238                     \input{#1-xetex-#3.def}%
7239                 \else
7240                     \bidi@storecatcode\@

```



```

7241         \makeatletter
7242         \input{#1-xetex-#3.def}%
7243         \bidi@restorecatcode\@
7244         \fi
7245     }%
7246 }%
7247 }
7248 }
7249
7250 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7251 {
7252     \AddToHook{begindocument/before}{%
7253         \ifnum\catcode`\@=11
7254             \@ifpackageloaded{#1}{#2}{#3}%
7255         \else
7256             \bidi@storecatcode\@
7257             \makeatletter
7258             \@ifpackageloaded{#1}{#2}{#3}%
7259             \bidi@restorecatcode\@
7260         \fi
7261     }
7262 }
7263
7264 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7265 {
7266     \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7267 }
7268
7269 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7270 {
7271     \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7272 }
7273
7274 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7275 {
7276     \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7277 }
7278
7279 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7280 {
7281     \bidi@patch@AfterPackage{#1}{#2}%
7282 }
7283
7284 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7285 {
7286     \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7287 }

```

53 File `biditytuftefloat.sty`

```

7288 \NeedsTeXFormat{LaTeX2e}
7289 \ProvidesPackage{biditytuftefloat}[2025/01/03 v0.3
7290 bidi implementation of tufte float]
7291 \RequirePackage{xifthen}

```



```

7292 \newcommand{\@biditytfloat@pkgname}{biditytfloat}
7293 \newcommand{\biditytfloatError}[2]{\PackageError{\@biditytfloat@pkgname}{#1}{#2}}
7294 \newcommand{\biditytfloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@biditytfloat@debug}}{\biditytfloat@debug}{\biditytfloat@debug}}
7295 \newcommand{\biditytfloatInfoNL}[1]{\PackageInfo{\@biditytfloat@pkgname}{#1\@gobble}}
7296 \newboolean{\@biditytfloat@reversegeometry}
7297 \setboolean{\@biditytfloat@reversegeometry}{false}
7298 \DeclareOption{reversegeometry}{\setboolean{\@biditytfloat@reversegeometry}{true}}
7299 \newboolean{\@biditytfloat@afourpaper}
7300 \DeclareOption{a4paper}{\setboolean{\@biditytfloat@afourpaper}{true}}
7301 \newboolean{\@biditytfloat@bfivepaper}
7302 \DeclareOption{b5paper}{\setboolean{\@biditytfloat@bfivepaper}{true}}
7303 \newboolean{\@biditytfloat@symmetric}
7304 \newboolean{\@biditytfloat@twoside}
7305 \DeclareOption{twoside}{%
7306 \@twosidetrue \@mparswitchtrue%
7307 \setboolean{\@biditytfloat@twoside}{true}%
7308 \setboolean{\@biditytfloat@symmetric}{true}%
7309 }
7310 \DeclareOption{oneside}{%
7311 \@twosidefalse \@mparswitchfalse%
7312 \setboolean{\@biditytfloat@twoside}{false}%
7313 \setboolean{\@biditytfloat@symmetric}{false}%
7314 }
7315 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7316 \newboolean{\@biditytfloat@debug}
7317 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodet}
7318 \ProcessOptions
7319 %% Globally sets the length
7320 \newcommand*{\gsetlength}[2]{%
7321 \setlength{#1}{#2}%
7322 \global#1=#1\relax%
7323 }
7324
7325 %% Set the font sizes and baselines to match biditytfloat's books
7326 \renewcommand\normalsize{%
7327 \setfontsize\normalsize\xpt{14}%
7328 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7329 \abovedisplayshortskip \z@ \@plus3\p@
7330 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7331 \belowdisplayskip \abovedisplayskip
7332 \let\@listi\@listI}
7333 \normalbaselineskip=14pt
7334 \normalsize
7335 \renewcommand\footnotesize{%
7336 \setfontsize\footnotesize\viiipt{10}%
7337 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7338 \abovedisplayshortskip \z@ \@plus\p@
7339 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7340 \def\@listi{\leftmargin\leftmarginI
7341 \topsep 3\p@ \@plus\p@ \@minus\p@
7342 \parsep 2\p@ \@plus\p@ \@minus\p@
7343 \itemsep \parsep}%
7344 \belowdisplayskip \abovedisplayskip
7345 }

```




```

7346 %% Paragraph indentation and separation for marginal text
7347 \newcommand{@biditytfloat@margin@par}{%
7348   \setlength{\RaggedRightParindent}{0.5pc}%
7349   \setlength{\JustifyingParindent}{0.5pc}%
7350   \setlength{\parindent}{0.5pc}%
7351   \setlength{\parskip}{0pt}%
7352 }
7353 \RequirePackage{ragged2e}
7354 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
7355 \RequirePackage[letterpaper, right=1in, top=1in, headsep=2\baselineskip, textwidth=26pc, marginpa
7356 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7357   {\geometry{a4paper, right=24.8mm, top=27.4mm, headsep=2\baselineskip, textwidth=107mm, marginpa
7358   }}
7359 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7360   {\geometry{paperwidth=176mm, paperheight=250mm, right=14.66mm, top=13.88mm, textwidth=102.66mm
7361   }}{%
7362 \RequirePackage[letterpaper, left=1in, top=1in, headsep=2\baselineskip, textwidth=26pc, marginpa
7363 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7364   {\geometry{a4paper, left=24.8mm, top=27.4mm, headsep=2\baselineskip, textwidth=107mm, marginpa
7365   }}
7366 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7367   {\geometry{paperwidth=176mm, paperheight=250mm, left=14.66mm, top=13.88mm, textwidth=102.66mm
7368   }}
7369 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7370   {}
7371   {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7372 \setlength\marginparpush{10pt}
7373 %% Font for margin items
7374 \newcommand{@biditytfloat@marginfont}{\normalfont\footnotesize}
7375 \newcommand*{@biditytfloat@caption@font}{@biditytfloat@marginfont}
7376 \newcommand*{\setcaptionfont}[1]{\renewcommand*{@biditytfloat@caption@font}{#1}}
7377 \newcommand{@biditytfloat@justification}{\justifying}%
7378 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7379 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7380 \newboolean{@biditytfloat@changepage}
7381 \IfFileExists{changepage.sty}{%
7382   \biditytfloatDebugInfoNL{Found changepage.sty}
7383   \RequirePackage[strict]{changepage}
7384   \setboolean{@biditytfloat@changepage}{true}
7385 }{%
7386   \biditytfloatDebugInfoNL{Found chngpage.sty}
7387   \RequirePackage[strict]{chngpage}
7388   \setboolean{@biditytfloat@changepage}{false}
7389 }
7390 \newboolean{@biditytfloat@odd@page}
7391 \setboolean{@biditytfloat@odd@page}{true}
7392 \newcommand*{@biditytfloat@checkoddpage}{%
7393   \checkoddpage%
7394   \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7395     \ifoddpage%
7396       \setboolean{@biditytfloat@odd@page}{true}%
7397     \else%
7398       \setboolean{@biditytfloat@odd@page}{false}%
7399   }

```



```

7400 }{%
7401   \ifcoddpage%
7402     \setboolean{@biditytfloat@odd@page}{true}%
7403   \else%
7404     \setboolean{@biditytfloat@odd@page}{false}%
7405   \fi%
7406 }%
7407 }
7408 \newlength{@biditytfloat@overhang}% used by the fullwidth environment and the running he
7409 \newlength{@biditytfloat@fullwidth}
7410 \newlength{@biditytfloat@caption@fill}
7411 \newcommand{@biditytfloatRecalculate}{%
7412   \setlength{@biditytfloat@overhang}{\marginparwidth}
7413   \addtolength{@biditytfloat@overhang}{\marginparsep}
7414
7415   \setlength{@biditytfloat@fullwidth}{\textwidth}
7416   \addtolength{@biditytfloat@fullwidth}{\marginparsep}
7417   \addtolength{@biditytfloat@fullwidth}{\marginparwidth}
7418
7419   \setlength{@biditytfloat@caption@fill}{\textwidth}
7420   \addtolength{@biditytfloat@caption@fill}{\marginparsep}
7421 }
7422 \AtBeginDocument{@biditytfloatRecalculate}
7423 \RequirePackage{optparams}% provides multiple optional arguments for commands
7424 \RequirePackage{placeins}
7425 \newsavebox{@biditytfloat@margin@floatbox}
7426 \newenvironment{@biditytfloat@margin@float}[2][{-1.2ex}%
7427   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in
7428   \begin{lrbox}{@biditytfloat@margin@floatbox}%
7429   \begin{minipage}{\marginparwidth}%
7430     \@biditytfloat@caption@font%
7431     \def@capytype{#2}%
7432     \hbox{} \vspace*{#1}%
7433     \@biditytfloat@caption@justification%
7434     \@biditytfloat@margin@par%
7435     \noindent%
7436   }
7437   {\end{minipage}%
7438   \end{lrbox}%
7439   \marginpar{\usebox{@biditytfloat@margin@floatbox}}}%
7440 }
7441 \newenvironment{marginfigure}[1][{-1.2ex}%
7442   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7443   {\end{@biditytfloat@margin@float}}
7444 \newenvironment{margintable}[1][{-1.2ex}%
7445   {\begin{@biditytfloat@margin@float}[#1]{table}}
7446   {\end{@biditytfloat@margin@float}}
7447 \newcommand*{@biditytfloat@justification@autodetect}{\justifying}%
7448
7449 \newcommand{@biditytfloat@float@debug@info}{% contains debug info generated as the floa
7450 \newcommand{@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7451   \ifthenelse{equal{@biditytfloat@float@debug@info}{}}%
7452     {\def{@biditytfloat@float@debug@info}{#1}}%
7453     {\g@addto@macro{@biditytfloat@float@debug@info}{\MessageBreak#1}}%

```



```

7454 }
7455 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7456 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@bituftefloat@float@deb
7457 \newboolean{@bituftefloat@float@recto}
7458 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@bituftefloat@float@recto}{true}\@bituft
7459 \newcommand{\forceversofloat}{\GlobalSetBoolean{@bituftefloat@float@recto}{false}\@bituft
7460 \newsavebox{@bituftefloat@figure@box}
7461 \newsavebox{@bituftefloat@caption@box}
7462 \let\@bituftefloat@orig@float\float
7463 \let\@bituftefloat@orig@endfloat\endfloat
7464 \newlength{@bituftefloat@caption@vertical@offset}
7465 \setlength{@bituftefloat@caption@vertical@offset}{0pt}
7466 \newcommand{@bituftefloat@stored@shortcaption}{}
7467 \newcommand{@bituftefloat@stored@caption}{}
7468 \newcommand{@bituftefloat@stored@label}{}
7469 \long\def\@bituftefloat@caption[#1][#2]#3{%
7470   \ifthenelse{\isempty{#1}}%
7471     {\gdef\@bituftefloat@stored@shortcaption{#3}}%
7472     {\gdef\@bituftefloat@stored@shortcaption{#1}}%
7473   \gsetlength{@bituftefloat@caption@vertical@offset}{-#2}% we want a positive offset to
7474   \gdef\@bituftefloat@stored@caption{#3}%
7475 }
7476 \newcommand{@bituftefloat@label}[1]{%
7477   \gdef\@bituftefloat@stored@label{#1}%
7478 }
7479 \newcommand{@bituftefloat@fps}{}
7480 \newboolean{@bituftefloat@float@star}
7481 \newlength{@bituftefloat@float@contents@width}
7482 \newenvironment{@bituftefloat@float}[3][htbp]%
7483   {% begin @bituftefloat@float
7484     % Should this float be full-width or just text-width?
7485     \ifthenelse{\equal{#3}{star}}%
7486       {\GlobalSetBoolean{@bituftefloat@float@star}{true}}%
7487       {\GlobalSetBoolean{@bituftefloat@float@star}{false}}%
7488     % Check page side (recto/verso) and store detected value -- can be overridden in environ
7489     \@bituftefloat@checkoddpage%
7490     \ifthenelse{\boolean{@bituftefloat@odd@page}}%
7491       {\GlobalSetBoolean{@bituftefloat@float@recto}{true}\@bituftefloat@float@debug{Det
7492       {\GlobalSetBoolean{@bituftefloat@float@recto}{false}\@bituftefloat@float@debug{De
7493     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-page
7494     \renewcommand{@bituftefloat@fps}{#1}%
7495     \@bituftefloat@float@debug{Allowed positions: [ #1 ]}%
7496     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7497       {\renewcommand{\floatalignment}{b}\@bituftefloat@float@debug{Presumed position: [bo
7498       {\renewcommand{\floatalignment}{t}\@bituftefloat@float@debug{Presumed position: [to
7499     % Capture the contents of the \caption and \label commands to use later
7500     \global\let\@bituftefloat@orig@caption\caption%
7501     \global\let\@bituftefloat@orig@label\label%
7502     \renewcommand{\caption}{\optparams{@bituftefloat@caption}{[ ] [Opt]}}%
7503     \renewcommand{\label}[1]{\@bituftefloat@label{##1}}%
7504     % Handle subfigure package compatibility
7505     \ifthenelse{\boolean{@bituftefloat@packages@subfigure}}{%
7506       \bidi@patchcmd{\subfigure}{%
7507         \let\subfig@oldlabel=\label

```



```

7508     }{%
7509     \let\subfig@oldlabel=\@biditytfloat@orig@label
7510     }
7511     {}
7512     {}
7513     \let\subtable=\subfigure
7514     }{}% subfigure package is not loaded
7515     \@biditytfloat@orig@float{#2}[#1]%
7516     \ifthenelse{\boolean{@biditytfloat@float@star}}%
7517     {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7518     {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7519     \begin{lrbox}{\@biditytfloat@figure@box}%
7520     \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{}%
7521 }{% end @biditytfloat@float
7522     \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}%
7523     \end{minipage}%
7524     \end{lrbox}%
7525     % build the caption box
7526     \begin{lrbox}{\@biditytfloat@caption@box}%
7527     \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7528     \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}}{\@biditytfloat@orig@caption}%
7529     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}}{\@biditytfloat@orig@label}%
7530     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7531     \end{minipage}%
7532     \end{lrbox}%
7533     % now typeset the stored boxes
7534     \begin{fullwidth}%
7535     \begin{minipage}[\floatalignment]{\linewidth}%
7536     \ifthenelse{\boolean{@biditytfloat@float@star}}%
7537     {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@biditytfloat@float@fullwidth}}%
7538     {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@biditytfloat@float@textwidth}}%
7539     \end{minipage}%
7540     \end{fullwidth}%
7541     \@biditytfloat@orig@endfloat% end original LaTeX float environment
7542     % output debug info
7543     \ifthenelse{\boolean{@biditytfloat@debug}}{%
7544     \typeout{^^J^^J----- biditytfloat package float information -----}%
7545     \ifthenelse{\equal{\@biditytfloat@stored@label}}%
7546     {\typeout{Warning: Float unlabeled!}}%
7547     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7548     \typeout{Page number: [\thepage]}%
7549     \def\MessageBreak{^^J}%
7550     \typeout{\@biditytfloat@float@debug@info}%
7551     \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7552     {\typeout{Symmetric: [true]}}%
7553     {\typeout{Symmetric: [false]}}%
7554     \typeout{-----^^J^^J}%
7555     }{}%
7556     % reset commands and temp boxes and captions
7557     \gdef\@biditytfloat@float@debug@info{}%
7558     \let\caption\@biditytfloat@orig@caption%
7559     \let\label\@biditytfloat@orig@label%
7560     \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7561     \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%

```



```

7562 \gdef\@biditytfloat@stored@shortcaption{%
7563 \gdef\@biditytfloat@stored@caption{%
7564 \gdef\@biditytfloat@stored@label{%
7565 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7566 }
7567 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7568 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@rect}}
7569 % asymmetric or page is odd, so caption is on the right
7570 \hbox{%
7571 \usebox{#2}%
7572 \hspace{\marginparsep}%
7573 \smash{\raisebox{#1}{\usebox{#3}}}%
7574 }
7575 \@biditytfloat@float@debug{Caption position: [right]}%
7576 }{% symmetric pages and page is even, so caption is on the left
7577 \hbox{%
7578 \smash{\raisebox{#1}{\usebox{#3}}}%
7579 \hspace{\marginparsep}%
7580 \usebox{#2}%
7581 }
7582 \@biditytfloat@float@debug{Caption position: [left]}%
7583 }%
7584 }
7585 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7586 \ifthenelse{\equal{\floatalignment}{b}}%
7587 {% place caption above figure
7588 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@rect}}
7589 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug{Caption above}}
7590 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug{Caption above}}
7591 }{% place caption below figure
7592 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@rect}}
7593 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug{Caption below}}
7594 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug{Caption below}}
7595 }%
7596 }
7597 \renewenvironment{figure}[1][htbp]%
7598 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7599 {\end{@biditytfloat@float}}
7600 \renewenvironment{table}[1][htbp]
7601 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7602 {\end{@biditytfloat@float}}
7603 \renewenvironment{figure*}[1][htbp]%
7604 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7605 {\end{@biditytfloat@float}}
7606 \renewenvironment{table*}[1][htbp]%
7607 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7608 {\end{@biditytfloat@float}}
7609 \newenvironment{fullwidth}
7610 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7611 {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{-}\@biditytfloat@float@overhang}}%
7612 {\begin{adjustwidth*}{-}\@biditytfloat@float@overhang}}%
7613 }%
7614 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7615 {\ifthenelse{\boolean{@biditytfloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth*}}}

```



```

7616     {\end{adjustwidth}}%
7617   }
7618 \long\def\@caption#1[#2]#3{%
7619   \par%
7620   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7621     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7622   \begingroup%
7623     \@parboxrestore%
7624     \if@minipage%
7625       \setminipage%
7626     \fi%
7627     \@bidituftefloat@caption@font\@bidituftefloat@caption@justification%
7628     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7629     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7630   \endgroup}
7631 %%
7632 % Turns newlines into spaces. Based on code from the `titlesec' package.
7633 \DeclareRobustCommand{\@biditufteheading@newlinetospace}{%
7634   \ifstar{\@biditufteheading@newlinetospace@i}{\@biditufteheading@newlinetospace@i}%
7635 }
7636 \def\@biditufteheading@newlinetospace@i{%
7637   \ifdim\lastskip>\z@ \else \space \fi
7638   \ignorespaces%
7639 }
7640 \DeclareRobustCommand{\newlinetospace}[1]{%
7641   \let\@biditufteheading@orig@cr\% save the original meaning of \
7642   \def\{\@biditufteheading@newlinetospace}% turn \ and \* into \space
7643   \let\newline\% turn \newline into \space
7644   #1%
7645   \let\\\@biditufteheading@orig@cr% revert to original meaning of \
7646 }
7647 \RequirePackage{fancyhdr}
7648 \pagestyle{fancy}
7649 \AtBeginDocument{%
7650   \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7651     {\fancyhfoffset [LE,RO]{\@bidituftefloat@overhang}}
7652     {\fancyhfoffset [RE,RO]{\@bidituftefloat@overhang}}
7653 }
7654 % The running heads/feet don't have rules
7655 \renewcommand{\headrulewidth}{0pt}
7656 \renewcommand{\footrulewidth}{0pt}
7657 % The 'fancy' page style is the default style for all pages.
7658 \fancyhf{} % clear header and footer fields
7659   \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7660     {\fancyhead [LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7661     \fancyhead [RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7662     {\fancyhead [RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7663 % The `plain' page style is used on chapter opening pages.
7664 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7665 % bottom of pages -- the folios are unexpressed.
7666 \fancypagestyle{plain}{
7667   \fancyhf{} % clear header and footer fields
7668   % Uncomment the following five lines of code if you want the opening page
7669   % of the chapter to express the folio in the lower outside corner.

```



```

7670 % \ifthenelse{\boolean{@biditytfloat@symmetric}}
7671 % {\fancyfoot[LE,RO]{\thepage}}
7672 % {\fancyfoot[RE,RO]{\thepage}}
7673 }
7674 % The `empty' page style suppresses all headers and footers.
7675 % It's used on title pages and `intentionally blank' pages.
7676 \fancypagestyle{empty}{
7677 \fancyhf{} % clear header and footer fields
7678 }
7679 \def\morefloats{% provides a total of 52 floats
7680 \ifthenelse{\isundefined{\bx@S}}{%
7681 \biditytfloatDebugInfoNL{Adding 34 more float slots.}
7682 \newinsert\bx@S
7683 \newinsert\bx@T
7684 \newinsert\bx@U
7685 \newinsert\bx@V
7686 \newinsert\bx@W
7687 \newinsert\bx@X
7688 \newinsert\bx@Y
7689 \newinsert\bx@Z
7690 \newinsert\bx@a
7691 \newinsert\bx@b
7692 \newinsert\bx@c
7693 \newinsert\bx@d
7694 \newinsert\bx@e
7695 \newinsert\bx@f
7696 \newinsert\bx@g
7697 \newinsert\bx@h
7698 \newinsert\bx@i
7699 \newinsert\bx@j
7700 \newinsert\bx@k
7701 \newinsert\bx@l
7702 \newinsert\bx@m
7703 \newinsert\bx@n
7704 \newinsert\bx@o
7705 \newinsert\bx@p
7706 \newinsert\bx@q
7707 \newinsert\bx@r
7708 \newinsert\bx@s
7709 \newinsert\bx@t
7710 \newinsert\bx@u
7711 \newinsert\bx@v
7712 \newinsert\bx@w
7713 \newinsert\bx@x
7714 \newinsert\bx@y
7715 \newinsert\bx@z
7716 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7717 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7718 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7719 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7720 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7721 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7722 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7723 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j

```




```

7724         \elt\bx@k\elt\bx@l\elt\bx@m\elt\bx@n
7725         \elt\bx@o\elt\bx@p\elt\bx@q\elt\bx@r
7726         \elt\bx@s\elt\bx@t\elt\bx@u\elt\bx@v
7727         \elt\bx@w\elt\bx@x\elt\bx@y\elt\bx@z}%
7728 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7729 \ifthenelse{\isundefined{\bx@AA}}{%
7730   \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7731   \newinsert\bx@AA
7732   \newinsert\bx@BB
7733   \newinsert\bx@CC
7734   \newinsert\bx@DD
7735   \newinsert\bx@EE
7736   \newinsert\bx@FF
7737   \newinsert\bx@GG
7738   \newinsert\bx@HH
7739   \newinsert\bx@II
7740   \newinsert\bx@JJ
7741   \newinsert\bx@KK
7742   \newinsert\bx@LL
7743   \newinsert\bx@MM
7744   \newinsert\bx@NN
7745   \newinsert\bx@OO
7746   \newinsert\bx@PP
7747   \newinsert\bx@QQ
7748   \newinsert\bx@RR
7749   \newinsert\bx@SS
7750   \newinsert\bx@TT
7751   \newinsert\bx@UU
7752   \newinsert\bx@VV
7753   \newinsert\bx@WW
7754   \newinsert\bx@XX
7755   \newinsert\bx@YY
7756   \newinsert\bx@ZZ
7757   \gdef\@freelist{\elt\bx@A\elt\bx@B\elt\bx@C\elt\bx@D\elt\bx@E
7758     \elt\bx@F\elt\bx@G\elt\bx@H\elt\bx@I\elt\bx@J
7759     \elt\bx@K\elt\bx@L\elt\bx@M\elt\bx@N
7760     \elt\bx@O\elt\bx@P\elt\bx@Q\elt\bx@R
7761     \elt\bx@S\elt\bx@T\elt\bx@U\elt\bx@V
7762     \elt\bx@W\elt\bx@X\elt\bx@Y\elt\bx@Z
7763     \elt\bx@a\elt\bx@b\elt\bx@c\elt\bx@d\elt\bx@e
7764     \elt\bx@f\elt\bx@g\elt\bx@h\elt\bx@i\elt\bx@j
7765     \elt\bx@k\elt\bx@l\elt\bx@m\elt\bx@n
7766     \elt\bx@o\elt\bx@p\elt\bx@q\elt\bx@r
7767     \elt\bx@s\elt\bx@t\elt\bx@u\elt\bx@v
7768     \elt\bx@w\elt\bx@x\elt\bx@y\elt\bx@z
7769     \elt\bx@AA\elt\bx@BB\elt\bx@CC\elt\bx@DD\elt\bx@EE
7770     \elt\bx@FF\elt\bx@GG\elt\bx@HH\elt\bx@II\elt\bx@JJ
7771     \elt\bx@KK\elt\bx@LL\elt\bx@MM\elt\bx@NN
7772     \elt\bx@OO\elt\bx@PP\elt\bx@QQ\elt\bx@RR
7773     \elt\bx@SS\elt\bx@TT\elt\bx@UU\elt\bx@VV
7774     \elt\bx@WW\elt\bx@XX\elt\bx@YY\elt\bx@ZZ}%
7775 }{%
7776   \bidituftefloatError{You may only call \string\morefloats\space twice. See the\Message
7777     {There are already 78 float slots allocated. Try using \string\FloatBarrier\space o

```




```

7778 }%
7779 }%
7780 }
7781 \newboolean{@biditytfloat@packages@subfigure}
7782 \setboolean{@biditytfloat@packages@subfigure}{false}
7783 \AtBeginDocument{%
7784   \@ifpackageloaded{subfigure}
7785     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7786     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
7787 }
7788 \AtBeginDocument{%
7789   \@ifpackageloaded{float}{%
7790     % Save the redefined float environment (instead of the LaTeX float environment)
7791     \let\@biditytfloat@orig@float\float
7792     \let\@biditytfloat@orig@endfloat@endfloat
7793
7794     % Define Tuftian float styles (with the caption in the margin)
7795     \newcommand{\floatc@biditytfloatplain}[2]{%
7796       \begin{lrbox}{\@biditytfloat@caption@box}%
7797         \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7798           \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7799         }\end{minipage}%
7800       \end{lrbox}%
7801       \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7802   }
7803   \newcommand{\fs@biditytfloatplain}{%
7804     \def\@fs@cfont{\@biditytfloat@caption@font}%
7805     \let\@fs@capt\floatc@biditytfloatplain%
7806     \def\@fs@pre{}%
7807     \def\@fs@post{}%
7808     \def\@fs@mid{}%
7809     \let\@fs@iftopcapt\iftrue%
7810   }
7811   \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7812   \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7813   \newcommand\floatc@biditytfloatruled[2]{%
7814     {\@fs@cfont #1} #2\par%
7815   }
7816   \newcommand\fs@biditytfloatruled{%
7817     \def\@fs@cfont{\@biditytfloat@caption@font}%
7818     \let\@fs@capt\floatc@biditytfloatplain%
7819     \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7820     \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7821     \def\@fs@mid{}%
7822     \let\@fs@iftopcapt\iftrue%
7823   }
7824   \newcommand\fs@biditytfloatboxed{%
7825     \def\@fs@cfont{}%
7826     \let\@fs@capt\floatc@biditytfloatplain%
7827     \def\@fs@pre{%
7828       \setbox\@currbox\vbox{\hbadness10000
7829         \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7830           \hrule \hbox to\hsize{\vrule\kern3pt
7831             \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}

```



```

7832     }%
7833     \def\@fs@mid{\kern2pt}%
7834     \def\@fs@post{}%
7835     \let\@fs@iftopcapt\iftrue%
7836   }
7837 }{%
7838   % Nothing to do
7839 }
7840 }
7841 \AtBeginDocument{%
7842   \@ifpackageloaded{algorithm}{%
7843     % Set the float style to the Tuftian version
7844     \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@floatstyle}{bidituftesidenote}}{\@ifpackageloaded{algorithm}{\@floatstyle{algorithm}}{\@floatstyle{bidituftesidenote}}}{\@floatstyle{algorithm}}%
7845     \bidituftesidenoteInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to bidituftesidenote}%
7846     \floatstyle{bidituftesidenote}\ALG@floatstyle}%
7847     \restylefloat{algorithm}%
7848   }{}%
7849 }{%
7850   % Nothing to do
7851 }
7852 }
7853 \PassOptionsToPackage{caption=false}{subfig}

```

54 File `bidituftesidenote.sty`

```

7854 \NeedsTeXFormat{LaTeX2e}
7855 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7856 bidi implementation of tufte sidenote]
7857 \RequirePackage{xifthen}
7858 \RequirePackage{ragged2e}
7859 \RequirePackage{setspace}
7860 \RequirePackage{biditools}
7861 \def\bidituftesidenotemarginpar{%
7862   \ifhmode
7863     \@bsphack
7864     \@floatpenalty -\@Mii
7865   \else
7866     \@floatpenalty-\@Miii
7867   \fi
7868   \ifinner
7869     \@parmoderr
7870     \@floatpenalty\z@
7871   \else
7872     \@next\@currbox\@freelist{}{}%
7873     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7874     {\@floatpenalty\z@
7875     \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7876   \fi
7877   \@ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteypar}
7878 \long\def\@bidituftesidenotexmpar[#1]#2{%
7879   \@bidituftesidenotesavemarbox\@marbox{#1}%
7880   \@bidituftesidenotesavemarbox\@currbox{#2}%
7881   \@xympar}
7882 \long\def\@bidituftesidenoteypar#1{%

```



```

7883 \@bidityftesidenotesavemarbox\@marbox{#1}%
7884 \global\setbox\@currbox\copy\@marbox
7885 \@xympar}
7886 \long\def \@bidityftesidenotesavemarbox #1#2{%
7887 \global\setbox #1%
7888 \color@vbox
7889 \vtop{%
7890 \hsize\marginparwidth
7891 \@parboxrestore
7892 \@bidityftesidenotemarginparreset
7893 #2%
7894 \@minipagefalse
7895 \outer@nobreak
7896 }%
7897 \color@endbox
7898 }
7899 \def \@bidityftesidenotemarginparreset {%
7900 \reset@font
7901 \normalsize
7902 \@minipagetrue
7903 \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7904 }
7905 \def\LTRbidityftesidenotemarginpar{%
7906 \ifhmode
7907 \@bsphack
7908 \@floatpenalty -\@Mii
7909 \else
7910 \@floatpenalty-\@Miii
7911 \fi
7912 \ifinner
7913 \@parmoderr
7914 \@floatpenalty\z@
7915 \else
7916 \@next\@currbox\@freelist{-}{}%
7917 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7918 {\@floatpenalty\z@
7919 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7920 \fi
7921 \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7922 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7923 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7924 \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7925 \@xympar}
7926 \long\def\@LTRbidityftesidenoteympar#1{%
7927 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7928 \global\setbox\@currbox\copy\@marbox
7929 \@xympar}
7930 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7931 \global\setbox #1%
7932 \color@vbox
7933 \vtop{%
7934 \hsize\marginparwidth
7935 \@parboxrestore
7936 \@LTRbidityftesidenotemarginparreset

```



```

7937     #2%
7938     \@minipagefalse
7939     \outer@nobreak
7940     }%
7941     \color@endbox
7942 }
7943 \def \@LTRbidityftesidenotemarginparreset {%
7944     \reset@font
7945     \normalsize
7946     \@minipagetrue
7947     \everypar{\@minipagefalse\everypar{}\beginL}%
7948 }
7949 \def\RTLbidityftesidenotemarginpar{%
7950     \ifhmode
7951         \@bsphack
7952         \@floatpenalty -\@Mii
7953     \else
7954         \@floatpenalty-\@Miii
7955     \fi
7956     \ifinner
7957         \@parmoderr
7958         \@floatpenalty\z@
7959     \else
7960         \@next\@currbox\@freelist{}-{}%
7961         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7962         {\@floatpenalty\z@
7963         \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7964     \fi
7965     \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7966 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7967     \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7968     \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7969     \@xympar}
7970 \long\def\@RTLbidityftesidenoteympar#1{%
7971     \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7972     \global\setbox\@currbox\copy\@marbox
7973     \@xympar}
7974 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7975     \global\setbox #1%
7976     \color@vbox
7977     \vtop{%
7978     \hsize\marginparwidth
7979     \@parboxrestore
7980     \@RTLbidityftesidenotemarginparreset
7981     #2%
7982     \@minipagefalse
7983     \outer@nobreak
7984     }%
7985     \color@endbox
7986 }
7987 \def \@RTLbidityftesidenotemarginparreset {%
7988     \reset@font
7989     \normalsize
7990     \@minipagetrue

```



```

7991 \everypar{\@minipagefalse\everypar{}}\beginR}%
7992 }
7993 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7994 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7995 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7996 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7997 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7998 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7999 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
8000 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
8001 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
8002 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
8003 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
8004 \newcommand*{\@bidityftesidenote@RTLCitation@font}{\@bidityftesidenote@RTLmarginfont}
8005 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
8006 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
8007 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
8008 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
8009 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
8010 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
8011 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
8012 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
8013 \newcommand*{\setRTLCitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLCitation@font}{#1}}
8014 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@font}
8015 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@font}
8016 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@font}
8017 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
8018 \newcommand{\@bidityftesidenote@margin@par}{%
8019 \setlength{\RaggedRightParindent}{0.5pc}%
8020 \setlength{\JustifyingParindent}{0.5pc}%
8021 \setlength{\parindent}{0.5pc}%
8022 \setlength{\parskip}{0pt}%
8023 }
8024 %%
8025 % Globally sets the length
8026 \@ifundefined{gsetlength}{%
8027 \newcommand*{gsetlength}[2]{%
8028 \setlength{#1}{#2}%
8029 \global#1=#1\relax%
8030 }%
8031 }{}
8032
8033 %%
8034 % A function that removes leading and trailing spaces from the supplied macro.
8035 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
8036 % Executing \@bidityftesidenote@trim@spaces\xzyzy will result in the contents of \xzyzy
8037 % being trimmed of leading and trailing white space.
8038 \catcode`\Q=3
8039 \def\@bidityftesidenote@trim@spaces#1{%
8040 % Use grouping to emulate a multi-token afterassignment queue
8041 \begingroup%
8042 % Put \toks 0 {' into the afterassignment queue
8043 \aftergroup\toks\aftergroup0\aftergroup{%
8044 % Apply \trim to the replacement text of #1, adding a leading

```



```

8045 % \noexpand to prevent brace stripping and to serve another purpose
8046 % later.
8047 \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8048 % Transfer the trimmed text back into #1.
8049 \edef#1{\the\toks0}%
8050 }
8051 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8052 % clean up any leftover bizarre Qs, and trim a leading space. In
8053 % order for \trimc to work properly we need to put back a Q first.
8054 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8055 % Execute \vfuzz assignment to remove leading space; the \noexpand
8056 % will now prevent unwanted expansion of a macro or other expandable
8057 % token at the beginning of the trimmed text. The \endgroup will feed
8058 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8059 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8060 \catcode`Q=11
8061 %%
8062 % Citations should go in the margin as sidenotes
8063
8064 \RequirePackage{natbib}
8065 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography en
8066 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8067 \renewcommand\BR@b@bibitem[2] []{%
8068   \ifthenelse{\isempty{#1}}{%
8069     {\BR@bibitem{#2}}%
8070     {\BR@bibitem[#1]{#2}}%
8071     \BR@c@bibitem{#2}}%
8072 }
8073 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8074 %%
8075 % Normal \cite behavior
8076 \newcounter{@bidityftesidenote@num@bibkeys}%
8077 \newcommand{\@bidityftesidenote@normal@cite}[2] [Opt]{%
8078   % Snag the last bibentry in the list for later comparison
8079   \let\@temp@last@bibkey\@empty%
8080   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8081   \sidenote[] [#1]{%
8082     % Loop through all the bibentries, separating them with semicolons and spaces
8083     \normalsize\normalfont\@bidityftesidenote@citation@font%
8084     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8085     \@for\@temp@bibkeyx:=#2\do{%
8086       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8087         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8088           \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8089           \bibentry{\@temp@bibkeyx}}%
8090         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8091           \bibentry{\@temp@bibkeyx};\ }%
8092       \stepcounter{@bidityftesidenote@num@bibkeys}%
8093     }%
8094   }%
8095 }
8096 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2] [Opt]{%
8097   % Snag the last bibentry in the list for later comparison
8098   \let\@temp@last@bibkey\@empty%

```



```

8099 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8100 \LTRsidenote[] [#1]{%
8101 % Loop through all the bibentries, separating them with semicolons and spaces
8102 \normalsize\normalfont\@bidityftesidenoteLTRcitation@font%
8103 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8104 \@for\@temp@bibkeyx:=#2\do{%
8105 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8106 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8107 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8108 \bibentry{\@temp@bibkeyx}}%
8109 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8110 \bibentry{\@temp@bibkeyx};\ }%
8111 \stepcounter{\@bidityftesidenote@num@bibkeys}%
8112 }%
8113 }%
8114 }
8115 \newcommand{\@bidityfteRTLsidenote@normal@cite}[2][Opt]{%
8116 % Snag the last bibentry in the list for later comparison
8117 \let\@temp@last@bibkey\@empty%
8118 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8119 \RTLsidenote[] [#1]{%
8120 % Loop through all the bibentries, separating them with semicolons and spaces
8121 \normalsize\normalfont\@bidityftesidenote@citation@font%
8122 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8123 \@for\@temp@bibkeyx:=#2\do{%
8124 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8125 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8126 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8127 \bibentry{\@temp@bibkeyx}}%
8128 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8129 \bibentry{\@temp@bibkeyx};\ }%
8130 \stepcounter{\@bidityftesidenote@num@bibkeys}%
8131 }%
8132 }%
8133 }
8134 %%
8135 % Macros for holding the list of cite keys until after the \sidenote
8136 \gdef\@bidityftesidenote@citations{}% list of cite keys
8137 \newcommand\@bidityftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cit
8138 \ifx\@bidityftesidenote@citations\@empty\else
8139 \g@addto@macro\@bidityftesidenote@citations{,% separate by commas
8140 \fi
8141 \g@addto@macro\@bidityftesidenote@citations{#1}
8142 }
8143 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin n
8144 % Snag the last bibentry in the list for later comparison
8145 \let\@temp@last@bibkey\@empty%
8146 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}
8147 \marginpar{%
8148 \hbox{} \vspace*{#1}%
8149 \@bidityftesidenote@citation@font%
8150 \@bidityftesidenote@citation@justification%
8151 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8152 \vspace*{-1\baselineskip}%

```



```

8153 % Loop through all the bibentries, separating them with semicolons and spaces
8154 \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8155 \@for@temp@bibkeyx:=\@bidituftesidenote@citations\do{%
8156   \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8157     {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{\and\ }%
8158     \@bidituftesidenote@trim@spaces@temp@bibkeyx% trim spaces around bibkey
8159     \bibentry{\@temp@bibkeyx}}%
8160     {\@bidituftesidenote@trim@spaces@temp@bibkeyx% trim spaces around bibkey
8161     \bibentry{\@temp@bibkeyx};\ }%
8162   \stepcounter{@bidituftesidenote@num@bibkeys}%
8163 }%
8164 }%
8165 }
8166 %%
8167 % \cite behavior when executed within a sidenote
8168 \newcommand{\@bidituftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8169 \newcommand{\@bidituftesidenote@infootnote@cite}[1]{%
8170   \@bidituftesidenote@add@citation{#1}
8171 }
8172 %%
8173 % Set the default \cite style. This is set and reset by the \sidenote command.
8174 \let\cite\@bidituftesidenote@normal@cite
8175 \let\LTRcite\@bidituftesidenote@normal@cite
8176 \let\RTLcite\@bidituftesidenote@normal@cite
8177 %%
8178 % Transform existing \footnotes into \sidenotes
8179 % Sidenote: ``Where God meant footnotes to go.''' ---bidituftesidenote
8180 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arg
8181 \providecommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenote}
8182 \renewcommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenote}
8183 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8184 % sidenote's text block.
8185 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark#1{\@textsuperscript{\@bidituftesidenote@}#1}}
8186 % Set the in-text footnote mark in the same typeface as the body text itself.
8187 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\@normalfont\footnotemark}}}
8188 \providecommand*{\multiplefootnotemark}{3sp}
8189 \providecommand*{\multfootsep}{,}
8190 \bidi@patch@AfterPackage{bidi}{%
8191 \renewcommand{\@footnotemark}{%
8192   \leavevmode%
8193   \ifhmode%
8194     \edef\@x@sf{\the\spacefactor}%
8195     \@bidituftesidenote@check@multiple@sidenotes%
8196     \nobreak%
8197     \fi%
8198     \@makefnmark%
8199     \ifhmode\spacefactor\@x@sf\fi%
8200     \relax%
8201 }%
8202 }
8203 \newcommand{\@bidituftesidenote@check@multiple@sidenotes}{%
8204   \ifdim\lastkern=\multiplefootnotemark\relax%
8205     \edef\@x@sf{\the\spacefactor}%
8206     \unkern%

```




```

8207 \textsuperscript{\multifootsep}%
8208 \spacefactor\@x@sf\relax%
8209 \fi
8210 }
8211 \bidi@patch@AfterPackage{bidi}{%
8212 \renewcommand\@footnotetext[2][Opt]{%
8213 \bidityftesidenotemarginpar{%
8214 \hbox{}}\vspace*{#1}%
8215 \def\baselinestretch {\setspace@singlespace}%
8216 \reset@font%
8217 \bidi@@footnotetext@font% \reset@font\footnotesize%
8218 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8219 \vspace*{-1\baselineskip}\noindent%
8220 \protected@edef\@currentlabel{%
8221 \csname p@footnote\endcsname\@thefnmark%
8222 }%
8223 \color@begingroup%
8224 \@makefntext{%
8225 \ignorespaces#2%
8226 }%
8227 \color@endgroup%
8228 }%
8229 }%
8230 \renewcommand\@LTRfootnotetext[2][Opt]{%
8231 \LTRbidityftesidenotemarginpar{%
8232 \hbox{}}\vspace*{#1}%
8233 \def\baselinestretch {\setspace@singlespace}%
8234 \reset@font%
8235 \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
8236 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8237 \vspace*{-1\baselineskip}\noindent%
8238 \protected@edef\@currentlabel{%
8239 \csname p@footnote\endcsname\@thefnmark%
8240 }%
8241 \color@begingroup%
8242 \@makefntext{%
8243 \ignorespaces#2%
8244 }%
8245 \color@endgroup%
8246 }%
8247 }%
8248 \renewcommand\@RTLfootnotetext[2][Opt]{%
8249 \RTLbidityftesidenotemarginpar{%
8250 \hbox{}}\vspace*{#1}%
8251 \def\baselinestretch {\setspace@singlespace}%
8252 \reset@font%
8253 \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8254 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8255 \vspace*{-1\baselineskip}\noindent%
8256 \protected@edef\@currentlabel{%
8257 \csname p@footnote\endcsname\@thefnmark%
8258 }%
8259 \color@begingroup%
8260 \@makefntext{%

```



```

8261         \ignorespaces#2%
8262     }%
8263     \color@endgroup%
8264 }%
8265 }%
8266 }
8267 %
8268 % Define \sidenote command. Can handle \cite.
8269 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8270 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{Opt}
8271 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8272 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8273     \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
8274     \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8275     \ifthenelse{\NOT\isempty{#2}}{%
8276         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8277     }{%
8278         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{Opt}%
8279     }%
8280     \ifthenelse{\isempty{#1}}{%
8281         % no specific footnote number provided
8282         \stepcounter\@mpfn%
8283         \protected@xdef\@thefnmark{\thempfn}%
8284         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8285     }{%
8286         % specific footnote number provided
8287         \begingroup%
8288             \csname c@\@mpfn\endcsname #1\relax%
8289             \unrestored@protected@xdef\@thefnmark{\thempfn}%
8290         \endgroup%
8291         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8292     }%
8293     \@bidityftesidenote@print@citations%             print any citations
8294     \let\cite\@bidityftesidenote@normal@cite%       go back to using normal in-text \cite com
8295     \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8296     \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8297     \unskip\ignorespaces%                          remove extra white space
8298     \kern-\multiplefootnotemarker%                 remove \kern left behind by sidenote
8299     \kern\multiplefootnotemarker\relax%            add new \kern here to replace the one we yanked
8300 }
8301 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8302     \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
8303     \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8304     \ifthenelse{\NOT\isempty{#2}}{%
8305         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8306     }{%
8307         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{Opt}%
8308     }%
8309     \ifthenelse{\isempty{#1}}{%
8310         % no specific footnote number provided
8311         \stepcounter\@mpfn%
8312         \protected@xdef\@thefnmark{\thempfn}%
8313         \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8314     }{%

```



```

8315 % specific footnote number provided
8316 \begingroup%
8317   \csname c@\@mpfn\endcsname #1\relax%
8318   \unrestored@protected@xdef\@thefnmark{\thempfn}%
8319 \endgroup%
8320 \@footnotemark\@LTRfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
8321 }%
8322 \@bidituftesidenote@print@citations%          print any citations
8323 \let\cite\@bidituftesidenote@normal@cite%      go back to using normal in-text \cite com
8324 \let\LTRcite\@bidituftelTRSidenote@normal@cite% go back to using normal in-text \LT
8325 \let\RTLcite\@biditufterTLsidenote@normal@cite% go back to using normal in-text \RT
8326 \unskip\ignorespaces%                          remove extra white space
8327 \kern-\multiplefootnotemarker%                 remove \kern left behind by sidenote
8328 \kern\multiplefootnotemarker\relax%            add new \kern here to replace the one we yanked
8329 }
8330 \long\def\@RTLbidituftesidenote@sidenote[#1][#2]#3{%
8331   \let\cite\@bidituftesidenote@infootnote@cite% use the in-sidenote \cite command
8332   \gdef\@bidituftesidenote@citations{}%        clear out any old citations
8333   \ifthenelse{\NOT\isempty{#2}}{%
8334     \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
8335   }{%
8336     \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
8337   }%
8338   \ifthenelse{\isempty{#1}}{%
8339     % no specific footnote number provided
8340     \stepcounter\@mpfn%
8341     \protected@xdef\@thefnmark{\thempfn}%
8342     \@footnotemark\@RTLfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
8343   }{%
8344     % specific footnote number provided
8345     \begingroup%
8346       \csname c@\@mpfn\endcsname #1\relax%
8347       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8348     \endgroup%
8349     \@footnotemark\@RTLfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
8350   }%
8351   \@bidituftesidenote@print@citations%          print any citations
8352   \let\cite\@bidituftesidenote@normal@cite%      go back to using normal in-text \cite com
8353   \let\LTRcite\@bidituftelTRSidenote@normal@cite% go back to using normal in-text \LT
8354   \let\RTLcite\@biditufterTLsidenote@normal@cite% go back to using normal in-text \RT
8355   \unskip\ignorespaces%                          remove extra white space
8356   \kern-\multiplefootnotemarker%                 remove \kern left behind by sidenote
8357   \kern\multiplefootnotemarker\relax%            add new \kern here to replace the one we yanked
8358 }
8359 \newcommand{\sidenote}{\optparams{\@bidituftesidenote@sidenote}{[] [Opt]}}
8360 \newcommand{\LTRsidenote}{\optparams{\@LTRbidituftesidenote@sidenote}{[] [Opt]}}
8361 \newcommand{\RTLSidenote}{\optparams{\@RTLbidituftesidenote@sidenote}{[] [Opt]}}
8362 \bidi@patch@AfterPackage{bidi}{%
8363 \renewcommand{\footnote}{\optparams{\@bidituftesidenote@sidenote}{[] [Opt]}}%
8364 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidituftesidenote@sidenote}{[] [Opt]}}%
8365 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidituftesidenote@sidenote}{[] [Opt]}}%
8366 }
8367 %%
8368 % Sidenote without the footnote mark

```



```

8369 \newcommand\marginnote[2] [Opt]{%
8370 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8371 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8372 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidityft
8373 \@bidityftesidenote@print@citations% print any citations
8374 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite com
8375 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8376 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8377 }
8378 \newcommand\LTRmarginnote[2] [Opt]{%
8379 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8380 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8381 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\
8382 \@bidityftesidenote@print@citations% print any citations
8383 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite com
8384 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8385 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8386 }
8387 \newcommand\RTLmarginnote[2] [Opt]{%
8388 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8389 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8390 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\
8391 \@bidityftesidenote@print@citations% print any citations
8392 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite com
8393 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8394 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8395 }

```

55 File bidityfttetoc.sty

```

8396 \NeedsTeXFormat{LaTeX2e}
8397 \ProvidesPackage{bidityfttetoc}[2011/06/17 v0.1
8398 bidi implementation of tuft toc]
8399 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8400 \newcommand{\@bidityfttetoc@pkgname}{bidityfttetoc}
8401 \newcommand{\bidityfttetocError}[2]{\PackageError{\@bidityfttetoc@pkgname}{#1}{#2}}
8402 %%
8403 % Turn off section numbering
8404 \setcounter{secnumdepth}{-1}
8405 \newboolean{@bidityfttetoc@toc}
8406 \setboolean{@bidityfttetoc@toc}{true}
8407 \DeclareOption{notoc}{\setboolean{@bidityfttetoc@toc}{false}}
8408 \DeclareOption{toc}{\setboolean{@bidityfttetoc@toc}{true}}
8409 \ProcessOptions
8410 %%
8411 % Make Tuftian-style section headings and TOC formatting
8412 \bidityft@patch@AfterPackage{bidi}{%
8413 \titleformat{\chapter}{%
8414 [display]% shape
8415 {\relax\ifthenelse{\NOT\boolean{@bidityftfloat@symmetric}}{\begin{fullwidth}}{}}% format
8416 {\itshape\huge\thechapter}% label
8417 {0pt}% horizontal separation between label and title body
8418 {\huge\rmfamily\itshape}% before the title body
8419 [\ifthenelse{\NOT\boolean{@bidityftfloat@symmetric}}{\end{fullwidth}}{}}% after the titl

```



```

8420 \titleformat{\section}%
8421   [hang]% shape
8422   {\normalfont\Large\itshape}% format applied to label+text
8423   {\thesection}% label
8424   {1em}% horizontal separation between label and title body
8425   {}% before the title body
8426   []% after the title body
8427 \titleformat{\subsection}%
8428   [hang]% shape
8429   {\normalfont\large\itshape}% format applied to label+text
8430   {\thesubsection}% label
8431   {1em}% horizontal separation between label and title body
8432   {}% before the title body
8433   []% after the title body
8434 \titleformat{\paragraph}%
8435   [runin]% shape
8436   {\normalfont\itshape}% format applied to label+text
8437   {\theparagraph}% label
8438   {1em}% horizontal separation between label and title body
8439   {}% before the title body
8440   []% after the title body
8441 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8442 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8443 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8444 }
8445 % Subsubsection and following section headings shouldn't be used.
8446 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8447 \renewcommand\subsubsection{%
8448   \bidityfttocError{\noexpand\subsubsection is undefined by this class.%
8449     \MessageBreak See Robert Bringhurst's _The Elements of
8450     \MessageBreak Typographic Style_, section 4.2.2.
8451     \MessageBreak \noexpand\subsubsection was used}
8452   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8453     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the
8454     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityfttoc.com/.}
8455 }
8456 \renewcommand\subparagraph{%
8457   \bidityfttocError{\noexpand\subparagraph is undefined by this class.%
8458     \MessageBreak See Robert Bringhurst's _The Elements of
8459     \MessageBreak Typographic Style_, section 4.2.2.
8460     \MessageBreak \noexpand\subparagraph was used}
8461   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8462     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the
8463     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityfttoc.com/.}
8464 }
8465 % Formatting for main TOC (printed in front matter)
8466 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8467 \ifthenelse{\boolean{@bidityfttoc@toc}}{%
8468   \bidi@patch@AfterPackage{bidi}{%
8469     \titlecontents{part}% FIXME
8470     [0em] % distance from left margin
8471     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global for
8472     {\contentslabel{2em}} % before w/label (label = ``II'')
8473     {} % before w/o label

```



```

8474     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8475     [\end{fullwidth}] % after
8476 \titlecontents{chapter}%
8477     [0em] % distance from left margin
8478     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global for
8479     {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8480     {\hspace*{0em}} % before w/o label
8481     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8482     [\end{fullwidth}] % after
8483 \titlecontents{section}% FIXME
8484     [0em] % distance from left margin
8485     {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global forma
8486     {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8487     {\hspace*{2em}} % before w/o label
8488     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8489     [\end{fullwidth}] % after
8490 \titlecontents{subsection}% FIXME
8491     [0em] % distance from left margin
8492     {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global forma
8493     {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8494     {\hspace*{4em}} % before w/o label
8495     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8496     [\end{fullwidth}] % after
8497 \titlecontents{paragraph}% FIXME
8498     [0em] % distance from left margin
8499     {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global
8500     {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8501     {\hspace*{6em}} % before w/o label
8502     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8503     [\end{fullwidth}] % after
8504 }%
8505 }{}
8506 %%
8507 % Format lists of figures/tables
8508 \renewcommand\listoffigures{%
8509   \@ifundefined{chapter}%
8510     {\section*{\listfigurename}}%
8511     {\chapter*{\listfigurename}}%
8512 % \begin{fullwidth}%
8513   \@starttoc{lof}%
8514 % \end{fullwidth}%
8515 }
8516 \renewcommand\listoftables{%
8517   \@ifundefined{chapter}%
8518     {\section*{\listtablename}}%
8519     {\chapter*{\listtablename}}%
8520 % \begin{fullwidth}%
8521   \@starttoc{lot}%
8522 % \end{fullwidth}%
8523 }
8524 \newcommand{\@biditytetoc@lof@line}[2]{%
8525   % #1 is the figure/table number and its caption text
8526   % #2 is the page number on which the figure/table appears
8527   \leftskip 0.0em

```



```

8528 \rightskip 0em
8529 \parfillskip 0em plus 1fil
8530 \parindent 0.0em
8531 \@afterindenttrue
8532 \interlinepenalty\@M
8533 \leavevmode
8534 \@tempdima 2.0em
8535 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8536 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8537 {#1}\nobreak\quad\nobreak#2%
8538 \par%
8539 }
8540 \renewcommand*\l@figure{\@biditytetoc@lof@line}
8541 \let\l@table\l@figure

```

56 File `bidituftegeneralstructure.sty`

```

8542 \NeedsTeXFormat{LaTeX2e}
8543 \ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
8544 bidi implementation of tuft general structure]
8545 \renewcommand\small{%
8546   \@setfontsize\small\@ixpt{12}%
8547   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8548   \abovedisplayshortskip \z@ \@plus2\p@
8549   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8550   \def\@listi{\leftmargin\leftmargini
8551     \topsep 4\p@ \@plus2\p@ \@minus2\p@
8552     \parsep 2\p@ \@plus\p@ \@minus\p@
8553     \itemsep \parsep}%
8554   \belowdisplayskip \abovedisplayskip
8555 }
8556 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8557 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8558 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8559 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8560 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8561 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8562 \renewcommand\Huge{\@setfontsize\Huge\@24\@36}}
8563 \setlength\leftmargini {1pc}
8564 \setlength\leftmarginii {1pc}
8565 \setlength\leftmarginiii {1pc}
8566 \setlength\leftmarginiv {1pc}
8567 \setlength\leftmarginv {1pc}
8568 \setlength\leftmarginvi {1pc}
8569 \setlength\labelsep {.5pc}
8570 \setlength\labelwidth {\leftmargini}
8571 \addtolength\labelwidth{-\labelsep}
8572 \setlength{\parindent}{1.0pc}%
8573 \setlength{\parskip}{0pt}%
8574 \RequirePackage{ragged2e}
8575 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8576 % Paragraph indentation and separation for normal text
8577 \newcommand{\@biditytegeneralstructure@reset@par}{%
8578   \setlength{\RaggedRightParindent}{1.0pc}%

```




```

8579 \setlength{\JustifyingParindent}{1.0pc}%
8580 \setlength{\parindent}{1pc}%
8581 \setlength{\parskip}{0pt}%
8582 }
8583 \@biditytgeneralstructure@reset@par
8584 % Require paralist package for tighter lists
8585 \RequirePackage{paralist}
8586 % Add rightmargin to compactenum
8587 \def\@compactenum@{%
8588 \expandafter\list\csname label\@enumctr\endcsname{%
8589 \usecounter{\@enumctr}%
8590 \rightmargin=2em% added this
8591 \parsep\plparsep
8592 \itemsep\plitemsep
8593 \topsep\pltopsep
8594 \partopsep\plpartopsep
8595 \def\makelabel##1{\hss\llap{##1}}}}
8596 %%
8597 % An environment for paragraph-style section
8598 \providecommand\newthought[1]{%
8599 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8600 \noindent\textbf{#1}%
8601 }
8602 %%
8603 % Redefine the display environments (quote, quotation, etc.)
8604 \renewenvironment{verse}
8605 \let\@centercr
8606 \list{}{\itemsep \z@
8607 \itemindent -1pc%
8608 \listparindent\itemindent
8609 \rightmargin \leftmargin
8610 \advance\leftmargin 1pc}%
8611 \small%
8612 \item\relax}
8613 {\endlist}
8614 \renewenvironment{quotation}
8615 \list{}{\listparindent 1pc%
8616 \itemindent \listparindent
8617 \rightmargin \leftmargin
8618 \parsep \z@ \@plus\p@}%
8619 \small%
8620 \item\relax\noindent\ignorespaces}
8621 {\endlist}
8622 \renewenvironment{quote}
8623 \list{}{\rightmargin\leftmargin}%
8624 \small%
8625 \item\relax}
8626 {\endlist}
8627 % Italicize description run-in headings (instead of the default bold)
8628 \renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8629 %%
8630 % Redefine \bibsection to not mark the running heads.
8631 % (Code modified from natbib.sty.)
8632 \@ifundefined{chapter}%

```




```

8633 {\renewcommand\bibsection{\section*{\refname}}}
8634 {\@ifundefined{NAT@sectionbib}%
8635     {\renewcommand\bibsection{\chapter{\bibname}}}
8636     {\renewcommand\bibsection{\section*{\bibname}}}}
8637 \RequirePackage{multicol}
8638 \renewenvironment{theindex}{%
8639 \@ifundefined{chapter}%
8640     {\section*{\indexname}}%
8641     {\chapter{\indexname}}%
8642     \begin{fullwidth}%
8643     \small%
8644     \parskip0pt%
8645     \parindent0pt%
8646     \let\item\@idxitem%
8647     \begin{multicols}{3}%
8648 }{%
8649     \end{multicols}%
8650     \end{fullwidth}%
8651 }
8652 \AtBeginDocument{%
8653 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8654 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8655 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8656 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8657 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

57 File `bidituftehyperref.sty`

```

8658 \NeedsTeXFormat{LaTeX2e}
8659 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8660 bidi implementation of tufte hyperref]
8661 %%
8662 % Color
8663 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8664 \newboolean{@bidituftehyperref@loadhyper}
8665 \setboolean{@bidituftehyperref@loadhyper}{true}
8666 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8667 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8668 \ProcessOptions
8669 %% Loads the hyperref package and sets some default options.
8670 \newcommand{\bidituftehyperrefLoadHyperref}{%
8671 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8672 \hypersetup{%
8673     bookmarksdepth = section,
8674     citecolor = DarkGreen,
8675     linkcolor = DarkBlue,
8676 %     pagecolor = DarkBlue,
8677     urlcolor = DarkGreen,
8678 }%
8679 }
8680 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8681     \bidituftehyperrefLoadHyperref%
8682 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8683     \PassOptionsToPackage{hyperfootnotes=false}{hyperref}

```



8684 }

58 File `bidituftetitle.sty`

```
8685 \NeedsTeXFormat{LaTeX2e}
8686 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8687 bidi implementation of tufte title]
8688 \RequirePackage{biditools}
8689 %%
8690 % `titlepage' option -- creates a full title page with \maketitle
8691 \newboolean{@bidituftetitle@titlepage}
8692 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
8693 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
8694 % Default `book' and `handout' options
8695 \@ifclassloaded{book}{%
8696 \ExecuteOptions{titlepage}}{%
8697 \@ifclassloaded{article}{%
8698 \ExecuteOptions{notitlepage}}%
8699 {}}
8700 \ProcessOptions
8701 %%
8702 % Modified \title, \author, and \date commands. These store the
8703 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8704 \newcommand{\plaintitle}{}% plain-text-only title
8705 \newcommand{\plainauthor}{}% plain-text-only author
8706 \newcommand{\plainpublisher}{}% plain-text-only publisher
8707 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8708 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8709 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8710 \newcommand{@publisher}{}% full publisher with \thanks{}
8711 \newcommand{\thedata}{\today}
8712 \bidi@patch@AfterPackage{bidi}{%
8713 \renewcommand{\thanks}[1]{\footnote{#1}}
8714 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8715 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8716 }
8717 \renewcommand{\title}[2] [] {%
8718 \gdef@title{#2}%
8719 \begingroup%
8720 % TODO store contents of \thanks command
8721 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8722 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8723 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8724 \protected@xdef\thanklesstitle{#2}%
8725 \endgroup%
8726 \ifthenelse{\isempty{#1}}%
8727 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8728 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8729 \@ifundefined{hypersetup}%
8730 {}% hyperref is not loaded; do nothing
8731 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8732 }
8733 \let@author@empty% suppress default latex.ltx ``no author'' warning
8734 \renewcommand{\author}[2] [] {%
```



```

8735 \ifthenelse{\isempty{#2}}-{}{\gdef\@author{#2}}%
8736 \begingroup%
8737 % TODO store contents of \thanks command
8738 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8739 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8740 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8741 \protected@xdef\thanklessauthor{#2}%
8742 \endgroup%
8743 \ifthenelse{\isempty{#1}}%
8744   {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8745   {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8746 \@ifundefined{hypersetup}%
8747   {}% hyperref is not loaded; do nothing
8748   {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8749 }
8750 \renewcommand{\date}[1]{%
8751   \gdef\@date{#1}%
8752   \begingroup%
8753   % TODO store contents of \thanks command
8754   \renewcommand{\thanks}[1]{}% swallow \thanks contents
8755   \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8756   \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8757   \protected@xdef\thedata{#1}%
8758   \endgroup%
8759 }
8760 %%
8761 % Provides a \publisher command to set the publisher
8762 \newcommand{\publisher}[2] []{%
8763   \gdef\@publisher{#2}%
8764   \begingroup%
8765   \renewcommand{\thanks}[1]{}% swallow \thanks contents
8766   \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8767   \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8768   \protected@xdef\thanklesspublisher{#2}%
8769   \endgroup%
8770   \ifthenelse{\isempty{#1}}
8771     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8772     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8773 }
8774 %%
8775 % Produces a full title page
8776 \newcommand{\maketitlepage}[0]{%
8777   \cleardoublepage%
8778   {%
8779     \bfseries%
8780     \begin{fullwidth}%
8781     \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8782     \vspace{11.5pc}%
8783     \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8784     \vfill%
8785     \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8786     \end{fullwidth}%
8787   }
8788   \thispagestyle{empty}%

```



```

8789 \clearpage%
8790 }
8791 %%
8792 % Title block
8793 \bidi@AfterEndPreamble{%
8794 \renewcommand{\maketitle}{%
8795 \newpage%
8796 \global\@topnum\z@% prevent floats from being placed at the top of the page
8797 \begingroup%
8798 \setlength{\parindent}{0pt}%
8799 \setlength{\parskip}{4pt}%
8800 \let\@title\@empty%
8801 \let\@author\@empty%
8802 \let\@date\@empty%
8803 \gdef\@title{\LARGE\itshape\@title\par}%
8804 \gdef\@author{\Large\itshape\@author\par}%
8805 \gdef\@date{\Large\itshape\@date\par}%
8806 \@title%
8807 \@author%
8808 \@date%
8809 \endgroup%
8810 \thispagestyle{plain}% suppress the running head
8811 }%
8812 }
8813 %%
8814 % Title page (if the `titlepage' option was passed to the bidingtitle-handout
8815 % class.)
8816 \bidi@AfterEndPreamble{%
8817 \ifthenelse{\boolean{@bidingtitle@titlepage}}
8818 {\renewcommand{\maketitle}{\maketitlepage}}
8819 {}
8820 }
8821 %%
8822 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8823 % without headers and footers
8824 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8825 \hbox{}
8826 %\vspace*{\fill}
8827 %\begin{center}
8828 % This page intentionally contains only this sentence.
8829 %\end{center}
8830 %\vspace{\fill}
8831 \thispagestyle{empty}
8832 \newpage
8833 \if@twocolumn\hbox{} \newpage\fi\fi}

```

59 File bidingtitle-handout.cls

```

8834 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8835 \ProvidesClass{bidingtitle-handout}[2011/06/18 v0.1 bidingtitle-handout class]
8836 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8837 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidingtitlefloat}}
8838 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidingtitletoc}}
8839 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidingtitlehyperref}}

```



```

8840 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditufтетitle}}
8841 \ProcessOptions\relax
8842 \LoadClass{article}
8843 \RequirePackage{biditufтеfloat}
8844 \RequirePackage{biditufтеsidenote}
8845 \RequirePackage{biditufтетoc}
8846 \RequirePackage{biditufтеgeneralstructure}
8847 \RequirePackage{biditufтеhyperref}
8848 \RequirePackage{biditufтетitle}
8849 \renewenvironment{abstract}
8850   {\begin{quotation}}
8851   {\end{quotation}}
8852 \AtBeginDocument{%
8853   \IfFileExists{biditufте-handout.cfg}
8854     {\input{biditufте-handout.cfg}
8855       \ClassInfo{biditufте-handout}{Loading biditufте-handout configuration file \@gobble}}
8856     {}}%
8857 }

```

60 File biditufте-book.cls

```

8858 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8859 \ProvidesClass{biditufте-book}[2011/06/18 v0.1 biditufте-book class]
8860 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8861 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditufтеfloat}}
8862 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditufтетoc}}
8863 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditufтеhyperref}}
8864 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditufтетitle}}
8865 \ProcessOptions\relax
8866 \LoadClass{book}
8867 \RequirePackage{biditufтеfloat}
8868 \RequirePackage{biditufтеsidenote}
8869 \RequirePackage{biditufтетoc}
8870 \RequirePackage{biditufтеgeneralstructure}
8871 \RequirePackage{biditufтеhyperref}
8872 \RequirePackage{biditufтетitle}
8873 %%
8874 % Set up any book-specific stuff now
8875 %%
8876 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8877 % to the opening page of Chapter 1. The running heads, when they appear,
8878 % contain only the (arabic) page number in the outside corner.
8879 %\newif\if@mainmatter \@mainmattertrue
8880 \renewcommand\frontmatter{%
8881   \cleardoublepage%
8882   \@mainmatterfalse%
8883   \pagenumbering{arabic}%
8884   %\pagestyle{plain}%
8885   \fancyhf{}}%
8886   \ifthenelse{\boolean{@biditufтеfloat@twoside}}%
8887     {\fancyhead[LE,RO]{\thepage}}%
8888     {\fancyhead[RE,RO]{\thepage}}%
8889 }
8890 %%

```



```

8891 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8892 % numbering---it continues where it left off in the front matter.
8893 \renewcommand\mainmatter{%
8894   \cleardoublepage%
8895   \@mainmattertrue%
8896   \fancyhf{}}%
8897   \ifthenelse{\boolean{@biditytuftefloat@twoside}}%
8898     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8899     \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8900     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8901     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8902 }
8903 %%
8904 % The back matter contains appendices, indices, glossaries, endnotes,
8905 % bibliographies, list of contributors, illustration credits, etc.
8906 \renewcommand\backmatter{%
8907   \if@openright%
8908     \cleardoublepage%
8909   \else%
8910     \clearpage%
8911   \fi%
8912   \@mainmatterfalse%
8913 }
8914 %%
8915 % Only show the chapter titles in the table of contents
8916 \setcounter{tocdepth}{0}
8917 \AtBeginDocument{%
8918   \IfFileExists{biditytufte-book.cfg}
8919     {\input{biditytufte-book.cfg}
8920     \ClassInfo{biditytufte-book}{Loading biditytufte-book configuration file \@gobble}}
8921   {}}%
8922 }

```

61 File bidipoem.sty

```

8923 \NeedsTeXFormat{LaTeX2e}
8924 \ProvidesPackage{bidipoem}%
8925 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8926
8927 % Usage:
8928 %
8929 % \Setversedim #1#2 % define the layout (within a group):
8930 % #1 = length of both half-verses
8931 % #2 = separation distance = length of a connection, if present
8932 % Variant:
8933 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8934 % #1 = length of first (=right) half-verse
8935 % #2 = length of second (=left) half-verse
8936 % #3 = separation distance = length of a connection, if present
8937 %
8938 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8939 % #1 = text of first (=right) half-verse
8940 % #2 = text of second (=left) half-verse
8941 % Variant:

```



```

8942 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8943 % #1 = text of first (=right) half-verse
8944 % #2 = text of connection
8945 % #3 = text of second (=left) half-verse
8946 %
8947 % Alternative (if preferred):
8948 %
8949 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8950
8951
8952 \newcommand*\bidipoem@spreadbox}[2]{\hbox to #1[#2]}
8953
8954 % define the layout, verses will be centered
8955
8956 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8957 \newdimen \bidipoem@hvind \newdimen \bidipoem@hvlen
8958
8959 \newcommand*\Setversedim}[2]{% set lengths of half-verse, [separation]
8960 \bidipoem@hvind \textwidth
8961 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8962 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8963 \bidipoem@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipo
8964
8965 \def \bidipoem@set@verseI [#1]{% optional parameter
8966 \bidipoem@hvlen #1\relax \bidipoem@set@@verse }
8967
8968 \newcommand*\bidipoem@set@@verse}[1]{% separation
8969 \advance \bidipoem@hvind -\bidipoem@hvlen \bidipoem@hvsep #1\relax
8970 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8971
8972 \newcommand*\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8973 \ifdim Opt > \bidipoem@hvind %
8974 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
8975 \else
8976 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8977 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8978 \bidipoem@spreadbox \bidipoem@hvlen {#3}% second block
8979 \par }
8980
8981 % macro for two half verses
8982 \newcommand*\traditionalhalfverses}[2]{% optional parameter?
8983 \ifx [#2\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
8984 \else\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8985 \bidipoem@half@verses@next}
8986
8987 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8988 \traditionalconnverses {#1}{#2}{#3}}
8989
8990
8991 {\catcode\^^M=\active % these lines must end with %
8992 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8993 \global\let^^M\traditionalpoem@par % this is in case ^^M appears in a \write
8994 {\catcode\^^M=\active % these lines must end with %
8995 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%

```



```

8996 \global\let^M\modernpoem@par} % this is in case ^M appears in a \write
8997 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8998 \def\poemmarginsskip{1em plus 1fil minus 1em}
8999 \def\poemextrabaselineskip{0\baselineskip}
9000 \def\poemskip{\medskip}
9001 \newcommand{\bidipoem@openbox}{\leavevmode
9002 \hbox to.77778em{%
9003 \hfil\vrule
9004 \vbox to.675em{\hrule width.6em\vfil\hrule}%
9005 \vrule\hfil}}
9006 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
9007 \newdimen\versewidth
9008 \newtoks\bidipoem@p@ftn
9009 \def\poem@verse#1{%
9010 \ifdim\wd#1>\new@poem@width
9011 \xdef\new@poem@width{\the\wd#1}%
9012 \ifdim\new@poem@width>\poem@width
9013 \xdef\poem@width{\new@poem@width}%
9014 \global\let\poem@needrun\relax
9015 \fi
9016 \fi
9017 \hbox to\poem@width{\unhbox#1}%
9018 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
9019 }
9020 \def\poem@linebegin{\vadjust{}}\hskip\@flushglue\hskip\poemmarginsskip\relax}
9021 \def\poem@lineend{\nobreak\hskip\poemmarginsskip\hskip\@flushglue\vadjust{}}
9022 \def\poem@lineversesep{%
9023 \nobreak
9024 \hskip\z@ plus 1filll%
9025 \penalty600%
9026 \hskip\poemcolsepskip
9027 \hskip\z@ plus -2filll%
9028 \vadjust{}}%
9029 \nobreak
9030 \hskip\z@ plus 1filll%
9031 }
9032 \def\poem@lineparsebegin{%
9033 \halign\bgroup
9034 \global\setbox\verse@i=\hbox{%
9035 \let\@footnotetext\bidipoem@p@ftntext%
9036 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9037 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9038 \let\@xfootnotenext\bidipoem@p@xftntext%
9039 \let\@xfootnote\bidipoem@p@xfootnote%
9040 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9041 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9042 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9043 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9044 \ignorespaces##\unskip}&&
9045 \global\setbox\verse@ii=\hbox{%
9046 \let\@footnotetext\bidipoem@p@ftntext%
9047 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9048 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9049 \let\@xfootnotenext\bidipoem@p@xftntext%

```




```

9050 \let\@xfootnote\bidipoem@p@xfootnote%
9051 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9052 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9053 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9054 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9055 \ignorespaces##\unskip}
9056 \cr
9057 }
9058 \def\poem@lineparseend{%
9059 \crr\egroup
9060 \vskip-\baselineskip
9061 }
9062 \def\traditionalpoem@cr{%
9063 \cr\poem@line
9064 }
9065 \newbox\verse@i
9066 \newbox\verse@ii
9067 \newif\ifpoem@started
9068
9069 \def\poem@line{%
9070 \poem@lineparseend
9071 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9072 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9073 \ifpoem@started
9074 \ifdim\wd\verse@ii>\z@\else
9075 \nopagebreak[3]
9076 \fi
9077 \leavevmode
9078 \poem@linebegin
9079 \poem@verse\verse@i
9080 \ifdim\wd\verse@ii>\z@
9081 \poem@lineversesep
9082 \poem@verse\verse@ii
9083 \fi
9084 \poem@lineend
9085 % \nopagebreak
9086 \par
9087 \vskip\poemextrabaselineskip
9088 \fi
9089 \poem@lineparsebegin
9090 }
9091 \def\@traditionalpoem{%
9092 \stepcounter{poem@no}
9093 \ifnum\max@poem@no<\number\c@poem@no%
9094 \xdef\poem@width{\z@}%
9095 \else
9096 \xdef\poem@width{\poem@prop{poem@width}}%
9097 \fi
9098 \xdef\new@poem@width{\z@}%
9099 \global\versewidth=\poem@width
9100 \poemskip\par
9101 \begingroup
9102 \tabskip=\z@
9103 \parskip=\z@

```



```

9104 \parindent=\z@
9105 \parfillskip=\z@
9106 \rightskip=\z@
9107 \leftskip=\z@
9108 \widowpenalty=10000% No break between verses of the same line.
9109 \clubpenalty=10000% Same as above. Not really needed.
9110 \def\newblock{\hfil\poemblocksep\hfil\null}%
9111 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9112 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9113 \global\poem@startedfalse
9114 \csname poem@obeylines\endcsname
9115 \let\poem@obeylines\relax
9116 \poem@lineparsebegin
9117 }
9118 \def\@endtraditionalpoem{%
9119 \cr
9120 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9121 \noalign{%
9122 \skip0=\poemextrabaselineskip
9123 \vskip-\skip0
9124 \vskip-\baselineskip
9125 }%
9126 \fi\fi
9127 \poem@lineparseend
9128 \endgroup
9129 \par
9130 \vskip\baselineskip
9131 \poemskip
9132 \ifdim\new@poem@width<\poem@width
9133 \global\let\poem@needrun\relax
9134 \fi
9135 \poem@write@aux{\poem@width@romannumeral\c@poem@no}{\new@poem@width}%
9136 \ifx\AtEndDocument\undefined\poem@finish\fi
9137 \@endparenv
9138 }
9139
9140
9141 \long\def\bidipoem@p@ftntext#1{%
9142 \edef\@temp{x\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
9143 \global\bidipoem@p@ftn\expandafter{\@temp{x#1}}}%
9144 \long\def\bidipoem@p@LTRftntext#1{%
9145 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9146 \global\bidipoem@p@ftn\expandafter{\@tempxi{x#1}}}%
9147 \long\def\bidipoem@p@RTLftntext#1{%
9148 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9149 \global\bidipoem@p@ftn\expandafter{\@tempxii{x#1}}}%
9150
9151 \long\def\bidipoem@p@xftntext[#1]#2{%
9152 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}%
9153
9154 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9155 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}%
9156
9157 \long\def\bidipoem@p@xRTLftntext[#1]#2{%

```



```

9158 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}
9159
9160 \def\bidipoem@p@xfootnote[#1]{%
9161   \begingroup
9162     \csname c@\@mpfn\endcsname #1\relax
9163     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9164   \endgroup
9165   \@footnotemark\bidipoem@p@xftntext[#1]}
9166
9167 \def\bidipoem@p@xLTRfootnote[#1]{%
9168   \begingroup
9169     \csname c@\@mpfn\endcsname #1\relax
9170     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9171   \endgroup
9172   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9173
9174 \def\bidipoem@p@xRTLfootnote[#1]{%
9175   \begingroup
9176     \csname c@\@mpfn\endcsname #1\relax
9177     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9178   \endgroup
9179   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9180
9181
9182
9183 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9184 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obe
9185 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9186 \def\poem@finish{%
9187 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9188 \ifx\poem@needrun\relax
9189 \PackageWarning{bidipoem}{Unjustified poem. Rerun TeX to get poem right}%
9190 \global\let\poem@needrun\undefined
9191 \fi
9192 }
9193 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9194 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9195 \ifx\max@poem@no\undefined
9196   \def\max@poem@no{0}%
9197 \fi
9198 \newcommand{\poem@prop}[1]{\@nameuse{#1\romannumeral\c@poem@no}}
9199 \newcommand{\poem@write@aux}[2]{%
9200   \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9201   \@x
9202 }
9203 \def\@modernpoem{%
9204 \par
9205 \begingroup
9206 \parskip=\z@
9207 \parindent=\z@
9208 \def\@settab\@tabplus\ignorespaces}%
9209 \def\@settab\@tabminus\ignorespaces}%
9210 \def\newblock{\poemblocksep}%
9211 \let\newpoem@tabcr\@tabcr

```



```

9212 \def\modernpoem@par{% Redefine \par for possible \obeylines
9213   \ifpoem@started\else
9214     \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9215       \@stopfield
9216     \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9217     \@contfield
9218   \fi
9219 \fi
9220 \ifpoem@started\newpoem@tabcr\fi}%
9221 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9222 \global\poem@startedfalse
9223 \csname poem@obeylines\endcsname
9224 \let\poem@obeylines\relax
9225 \begin{tabbing}%
9226 }
9227 \def\@endmodernpoem{%
9228 \global\poem@startedfalse
9229 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9230   \@stopfield
9231 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9232 \@contfield
9233 \fi
9234 \ifpoem@started\else\let\@stopline\@stopfield\fi
9235 \end{tabbing}%
9236 \endgroup
9237 \par
9238 \if@nparlist \else
9239   \ifdim\lastskip >\z@
9240     \@tempskipa\lastskip \vskip -\lastskip
9241     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9242     \vskip\@tempskipa
9243   \fi
9244   \@endparenv
9245 \fi
9246 }
9247 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9248 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mod
9249 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9250 \gdef\@startfield{%
9251 \global\setbox\@curfield\hbox\bgroup%
9252 \let\@footnotetext\bidipoem@p@ftntext%
9253 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9254 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9255 \let\@xfootnotenext\bidipoem@p@xftntext%
9256 \let\@xfootnote\bidipoem@p@xfootnote%
9257 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9258 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9259 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9260 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9261 \color@begingroup}
9262 \gdef\@stopfield{%
9263 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn
9264 \gdef\@contfield{%
9265 \global\setbox\@curfield\hbox\bgroup%

```



```

9266 \let\@footnotetext\bidipoem@p@fnttext%
9267 \let\@LTRfootnotetext\bidipoem@p@LTRfnttext%
9268 \let\@RTLfootnotetext\bidipoem@p@RTLfnttext%
9269 \let\@xfootnotenext\bidipoem@p@xftntext%
9270 \let\@xfootnote\bidipoem@p@xfootnote%
9271 \let\@xLTRfootnotenext\bidipoem@p@xLTRfnttext%
9272 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9273 \let\@xRTLfootnotenext\bidipoem@p@xRTLfnttext%
9274 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9275 \color@begingroup\unhbox\@curfield}

```

62 File boek3-xetex-bidi.def

```

9276 \ProvidesFile{boek3-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for boek3 class for Xe
9277 \renewenvironment{theindex}{%
9278   \if@twocolumn
9279     \@restonecolfalse
9280   \else
9281     \@restonecoltrue
9282   \fi
9283   \columnseprule \z@
9284   \columnsep 35\p@
9285   \twocolumn[\@makeschapterhead{\indexname}]{%
9286     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9287     \thispagestyle{plain}\parindent\z@
9288     \parskip\z@ \@plus .3\p@\relax
9289     \let\item\@idxitem
9290   }{%
9291     \if@restonecol\onecolumn\else\clearpage\fi}
9292 \renewcommand*{head@style}{%
9293   \interlinepenalty \@M
9294   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9295   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hspace\relax}
9296 \renewcommand*{@regtocline[3]}{%
9297   \ifnum #1>\c@tocdepth
9298   \else
9299     \vskip\z@ \@plus .2\p@
9300     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9301     \if@RTL\rightskip\else\leftskip\fi\unitindent
9302     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9303     \parfillskip\z@
9304     \@tempdima\unitindent
9305     \parindent\z@
9306     \leavevmode
9307     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9308     \hskip 1em \nobreak{\slshape #3}\par
9309   }%
9310   \fi}
9311 \if@oldtoc
9312 \renewcommand*{l@part[2]}{%
9313   \ifnum \c@tocdepth >-2\relax
9314     \addpenalty{-\@highpenalty}%
9315     \addvspace{2.25em \@plus\p@}%
9316   \begingroup

```



```

9317     \setlength\@tempdima{3em}%
9318     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9319     \parfillskip -\@pnumwidth
9320     {\leavevmode
9321       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9322     \nobreak
9323     \global\@nobreaktrue
9324     \everypar{\global\@nobreakfalse\everypar{}}%
9325   \endgroup
9326 \fi}
9327 \else
9328   \renewcommand*\l@part{%
9329     \ifnum \c@tocdepth >-2\relax
9330       \addpenalty{-\@highpenalty}%
9331       \advvspace{2.25em \@plus \p@}%
9332       \@regtocline{0}%
9333     \fi}
9334 \fi
9335 \if@oldtoc
9336 \renewcommand*\l@chapter[2]{%
9337   \addpenalty{-\@highpenalty}%
9338   \vskip 1.0em \@plus \p@
9339   \setlength\@tempdima{1.5em}%
9340   \begingroup
9341   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9342   \parfillskip -\@pnumwidth
9343   \leavevmode \bfseries
9344   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9345   \hskip -\if@RTL\rightskip\else\leftskip\fi
9346   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9347   \penalty\@highpenalty
9348   \endgroup}
9349 \else
9350   \renewcommand*\l@chapter{\@regtocline{0}}
9351 \fi
9352 \renewenvironment{abstract}{%
9353   \titlepage
9354   \null\vfil
9355   \section*{\SectFont \abstractname}
9356   \noindent\ignorespaces}
9357 {\par\vfil\null\endtitlepage}
9358 \renewenvironment{thebibliography}[1]
9359 {\chapter*{\bibname}%
9360   \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9361   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9362   \bidi@thebibliography@font@hook%
9363   \list{\@biblabel{\@arabic\c@enumiv}}%
9364     {\settowidth\labelwidth{\@biblabel{#1}}%
9365     \leftmargin\labelwidth
9366     \advance\leftmargin\labelsep
9367     \@openbib@code
9368     \usecounter{enumiv}%
9369     \let\p@enumiv\@empty
9370     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%

```



```

9371     \sloppy\clubpenalty4000\widowpenalty4000%
9372     \sfcode`.\@M}
9373     {\def\@noitemerr
9374       {\@latex@warning{Empty `thebibliography' environment}}%
9375     \endlist}
9376 \renewcommand*\left@footnoterule{%
9377   \kern-3\p@
9378   \kern.5\baselineskip
9379   \hrule\@width\unitindent
9380   \kern.4\baselineskip
9381 }
9382 \renewcommand*\right@footnoterule{%
9383   \kern-3\p@
9384   \kern.5\baselineskip
9385   \nointerlineskip
9386   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9387   \kern.4\baselineskip}
9388 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9389 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
9390 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
9391 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9392 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9393 \renewcommand*\theequation{%
9394   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9395 \renewcommand*\thefigure{%
9396   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
9397 \renewcommand*\thetable{%
9398   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
9399 \renewcommand*\maketitle{%
9400   \begin{titlepage}%
9401     \let\footnotesize\small
9402     \let\right@footnoterule\relax
9403     \let\left@footnoterule\relax
9404     \let\textwidth@footnoterule\relax
9405     \let \footnote \thanks
9406     \long\def\@makefnmark##1{\parindent\z@
9407       \def\labelitemi{\textendash}\@revlabeltrue
9408       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9409     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9410     \if@compatibility\setcounter{page}{0}\fi
9411     \null\vfil
9412     \vskip 60\p@
9413     \begin{center}%
9414       \TitleFont
9415       {\LARGE \def\\{\penalty -\@M}
9416         \if@allcaps
9417           \expandafter\uc@nothanks\@title\thanks\relax
9418         \else
9419           \@title
9420         \fi\par}%
9421       \vskip 3em%
9422       {\large
9423         \lineskip .75em \parindent\z@
9424         \begin{tabular}[t]{c}%

```



```

9425         \if@allcaps
9426             \expandafter\uc@authornothanks \@author\and\relax
9427         \else
9428             \@author
9429         \fi
9430     \end{tabular}\par}%
9431 \vskip 1.5em%
9432 {\large
9433     \if@allcaps
9434         \uppercase\expandafter{\@date}%
9435     \else
9436         \@date
9437     \fi\par}%
9438 \end{center}\par
9439 \@thanks
9440 \vfil\null
9441 \end{titlepage}%
9442 \setcounter{footnote}{0}%
9443 \global\let\thanks\relax
9444 \global\let\maketitle\relax
9445 \global\let\@thanks\@empty
9446 \global\let\@author\@empty
9447 \global\let\@title\@empty
9448 \global\let\@date\@empty
9449 \global\let\title\relax
9450 \global\let\author\relax
9451 \global\let\date\relax
9452 \global\let\and\relax
9453 }

```

63 File boek-xetex-bidi.def

```

9454 \ProvidesFile{boek-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for boek class for XeTeX]
9455 \renewenvironment{theindex}{%
9456     \if@twocolumn
9457         \@restonecolfalse
9458     \else
9459         \@restonecoltrue
9460     \fi
9461     \columnseprule \z@
9462     \columnsep 35\p@
9463     \twocolumn[\@makeschapterhead{\indexname}]%
9464     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9465     \thispagestyle{plain}\parindent\z@
9466     \parskip\z@ \@plus .3\p@\relax
9467     \let\item\@idxitem
9468 }{%
9469     \if@restonecol\onecolumn\else\clearpage\fi}
9470 \renewcommand*{head@style}{%
9471     \interlinepenalty \@M
9472     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9473     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9474 \renewcommand*{@regtocline[3]}{%
9475     \ifnum #1>\c@tocdepth

```




```

9476 \else
9477 \vskip\z@\@plus.2\p@
9478 {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
9479 \if@RTL\rightskip\else\leftskip\fi\unitindent
9480 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9481 \parfillskip\z@
9482 \@tempdima\unitindent
9483 \parindent\z@
9484 \leavevmode
9485 \hbox{\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9486 \hskip 1em \nobreak{\slshape #3}\par
9487 }%
9488 \fi}
9489 \if@oldtoc
9490 \renewcommand*\l@part[2]{%
9491 \ifnum \c@tocdepth >-2\relax
9492 \addpenalty{-\@highpenalty}%
9493 \addvspace{2.25em \@plus\p@}%
9494 \begingroup
9495 \setlength\@tempdima{3em}%
9496 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9497 \parfillskip -\@pnumwidth
9498 {\leavevmode
9499 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9500 \nobreak
9501 \global\@nobreaktrue
9502 \everypar{\global\@nobreakfalse\everypar{}}%
9503 \endgroup
9504 \fi}
9505 \else
9506 \renewcommand*\l@part{%
9507 \ifnum \c@tocdepth >-2\relax
9508 \addpenalty{-\@highpenalty}%
9509 \addvspace{2.25em \@plus \p@}%
9510 \@regtocline{0}%
9511 \fi}
9512 \fi
9513 \if@oldtoc
9514 \renewcommand*\l@chapter[2]{%
9515 \addpenalty{-\@highpenalty}%
9516 \vskip 1.0em \@plus\p@
9517 \setlength\@tempdima{1.5em}%
9518 \begingroup
9519 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9520 \parfillskip -\@pnumwidth
9521 \leavevmode \bfseries
9522 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9523 \hskip -\if@RTL\rightskip\else\leftskip\fi
9524 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9525 \penalty\@highpenalty
9526 \endgroup}
9527 \else
9528 \renewcommand*\l@chapter{\@regtocline{0}}
9529 \fi

```



```

9530 \renewcommand*\left@footnoterule{%
9531   \kern-3\p@
9532   \kern.5\baselineskip
9533   \hrule\@width\unitindent
9534   \kern.4\baselineskip
9535 }
9536 \renewcommand*\right@footnoterule{%
9537   \kern-3\p@
9538   \kern.5\baselineskip
9539   \nointerlineskip
9540   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9541   \kern.4\baselineskip}
9542 \renewenvironment{abstract}{%
9543   \titlepage
9544   \null\vfil
9545   \section*{\SectFont \abstractname}
9546   \noindent\ignorespaces}
9547   {\par\vfil\null\endtitlepage}
9548 \renewenvironment{thebibliography}[1]
9549   {\chapter*{\bibname}%
9550    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9551    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9552    \bidi@thebibliography@font@hook%
9553    \list{\@biblabel{\@arabic\c@enumiv}}%
9554          {\settowidth\labelwidth{\@biblabel{#1}}%
9555           \leftmargin\labelwidth
9556           \advance\leftmargin\labelsep
9557           \@openbib@code
9558           \usecounter{enumiv}%
9559           \let\p@enumiv\@empty
9560           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9561    \sloppy\clubpenalty4000\widowpenalty4000%
9562    \sfcode`. \m}
9563   {\def\@noitemerr
9564    {\@latex@warning{Empty `thebibliography' environment}}%
9565    \endlist}
9566 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9567 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
9568 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
9569 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
9570 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}
9571 \renewcommand*\theequation{%
9572   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9573 \renewcommand*\thefigure{%
9574   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9575 \renewcommand*\thetable{%
9576   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9577 \renewcommand*\maketitle{%
9578   \begin{titlepage}%
9579     \let\footnotesize\small
9580     \let\right@footnoterule\relax
9581     \let\left@footnoterule\relax
9582     \let\textwidth@footnoterule\relax
9583     \let \footnote \thanks

```



```

9584 \long\def\@makefntext##1{\parindent\z@
9585 \def\labelitemi{\textendash}\@revlabeltrue
9586 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9587 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9588 \if@compatibility\setcounter{page}{0}\fi
9589 \null\vfil
9590 \vskip 60\p@
9591 \begin{center}%
9592 \TitleFont
9593 {\LARGE \def\\{\penalty -\@M}
9594 \if@allcaps
9595 \expandafter\uc@nothanks\@title\thanks\relax
9596 \else
9597 \@title
9598 \fi\par}%
9599 \vskip 3em%
9600 {\large
9601 \lineskip .75em \parindent\z@
9602 \begin{tabular}[t]{c}%
9603 \if@allcaps
9604 \expandafter\uc@authornothanks\@author\and\relax
9605 \else
9606 \@author
9607 \fi
9608 \end{tabular}\par}%
9609 \vskip 1.5em%
9610 {\large
9611 \if@allcaps
9612 \uppercase\expandafter{\@date}%
9613 \else
9614 \@date
9615 \fi\par}%
9616 \end{center}\par
9617 \@thanks
9618 \vfil\null
9619 \end{titlepage}%
9620 \setcounter{footnote}{0}%
9621 \global\let\thanks\relax
9622 \global\let\maketitle\relax
9623 \global\let\@thanks\@empty
9624 \global\let\@author\@empty
9625 \global\let\@title\@empty
9626 \global\let\@date\@empty
9627 \global\let\title\relax
9628 \global\let\author\relax
9629 \global\let\date\relax
9630 \global\let\and\relax
9631 }

```

64 File `bookest-xetex-bidi.def`

```

9632 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class fo
9633 \def\@makechapterhead#1{%
9634 \vspace*{20\p@}

```



```

9635 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9636 \ifnum \c@secnumdepth >\m@ne
9637 \if@mainmatter
9638 {\colorA\huge\scshape \@chapapp\space \thechapter}
9639 \par\nobreak
9640 \vskip 10\p@
9641 \fi
9642 \fi
9643 \interlinepenalty\@M
9644 {\colorB\hrule}
9645 \vskip 15\p@
9646 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9647 {\colorA\Huge \bfseries #1}\par\nobreak
9648 \if@RTL\end{flushleft}\else\end{flushright}\fi
9649 \vskip 5\p@
9650 {\colorB\hrule}
9651 \vskip 30\p@
9652 }
9653 \def\@makeschapterhead#1{%
9654 \vspace*{20\p@}
9655 {\parindent \z@ \raggedright \normalfont
9656 {\colorB\hrule}
9657 \vskip 15\p@
9658 \begin{center}
9659 {\colorA\Huge \bfseries #1}\par\nobreak
9660 \end{center}
9661 \vskip 5\p@
9662 {\colorB\hrule}
9663 \vskip 30\p@
9664 }

```

65 File book-xetex-bidi.def

```

9665 \ProvidesFile{book-xetex-bidi.def}[2025/09/30 v1.4 bidi adaptations for standard book class]
9666 \renewenvironment{theindex}
9667 {\if@twocolumn
9668 \restonecolfalse
9669 \else
9670 \restonecoltrue
9671 \fi
9672 \columnseprule \z@
9673 \columnsep 35\p@
9674 \twocolumn[\@makeschapterhead{\indexname}]%
9675 \mkboth{\MakeUppercase\indexname}%
9676 {\MakeUppercase\indexname}%
9677 \thispagestyle{plain}\parindent\z@
9678 \parskip\z@ \@plus .3\p@\relax
9679 \let\item\@idxitem}
9680 {\if@restonecol\onecolumn\else\clearpage\fi}
9681 \IfClassLoadedF{bookest}{%
9682 \if@titlepage
9683 \renewcommand\maketitle{\begin{titlepage}%
9684 \let\footnotesize\small
9685 \let\right@footnoterule\relax

```



```

9686 \let\left@footnoterule\relax
9687 \let\textwidth@footnoterule\relax
9688 \let \footnote \thanks
9689 \let \LTRfootnote \LTRthanks
9690 \let \RTLfootnote \RTLthanks
9691 \null\vfil
9692 \vskip 60\p@
9693 \begin{center}%
9694   {\LARGE \@title \par}%
9695   \vskip 3em%
9696   {\large
9697     \lineskip .75em%
9698     \begin{tabular}[t]{c}%
9699       \@author
9700     \end{tabular}\par}%
9701     \vskip 1.5em%
9702     {\large \@date \par}%           % Set date in \large size.
9703 \end{center}\par
9704 \@thanks
9705 \vfil\null
9706 \end{titlepage}%
9707 \setcounter{footnote}{0}%
9708 \global\let\thanks\relax
9709 \global\let\LTRthanks\relax
9710 \global\let\RTLthanks\relax
9711 \global\let\maketitle\relax
9712 \global\let\@thanks\@empty
9713 \global\let\@author\@empty
9714 \global\let\@date\@empty
9715 \global\let\@title\@empty
9716 \global\let\title\relax
9717 \global\let\author\relax
9718 \global\let\date\relax
9719 \global\let\and\relax
9720 }
9721 \else
9722 \renewcommand\maketitle{\par
9723   \begingroup
9724     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9725     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9726     \long\def\@makefntext##1{\parindent 1em\noindent
9727       \hb@xt@1.8em{%
9728         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9729     \if@twocolumn
9730       \ifnum \col@number=\@ne
9731         \@maketitle
9732       \else
9733         \twocolumn[\@maketitle]%
9734       \fi
9735     \else
9736       \newpage
9737       \global\@topnum\z@ % Prevents figures from going at top of page.
9738       \@maketitle
9739     \fi

```



```

9740   \thispagestyle{plain}\@thanks
9741   \endgroup
9742   \setcounter{footnote}{0}%
9743   \global\let\thanks\relax
9744   \global\let\LTRthanks\relax
9745   \global\let\RTLthanks\relax
9746   \global\let\maketitle\relax
9747   \global\let\@maketitle\relax
9748   \global\let\@thanks\@empty
9749   \global\let\@author\@empty
9750   \global\let\@date\@empty
9751   \global\let\@title\@empty
9752   \global\let\title\relax
9753   \global\let\author\relax
9754   \global\let\date\relax
9755   \global\let\and\relax
9756 }
9757 \def\@maketitle{%
9758   \newpage
9759   \null
9760   \vskip 2em%
9761   \begin{center}%
9762     \let \footnote \thanks
9763     \let \LTRfootnote \LTRthanks
9764     \let \RTLfootnote \RTLthanks
9765     {\LARGE \@title \par}%
9766     \vskip 1.5em%
9767     {\large
9768       \lineskip .5em%
9769       \begin{tabular}[t]{c}%
9770         \@author
9771       \end{tabular}\par}%
9772     \vskip 1em%
9773     {\large \@date}%
9774   \end{center}%
9775   \par
9776   \vskip 1.5em}
9777 \fi}
9778 \IfPackageLoadedF{tocloft}{%
9779 \renewcommand*\l@part[2]{%
9780   \ifnum \c@tocdepth >-2\relax
9781     \addpenalty{-\@highpenalty}%
9782     \addvspace{2.25em \@plus\p@}%
9783     \setlength\@tempdima{3em}%
9784     \begingroup
9785       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9786       \parfillskip -\@pnumwidth
9787       {\leavevmode
9788         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9789       \nobreak
9790       \global\@nobreaktrue
9791       \everypar{\global\@nobreakfalse\everypar{}}%
9792     \endgroup
9793   \fi}

```



```

9794 \renewcommand*\l@chapter[2]{%
9795   \ifnum \c@tocdepth >\m@ne
9796     \addpenalty{-\@highpenalty}%
9797     \vskip 1.0em \@plus\p@
9798     \setlength\@tempdima{1.5em}%
9799     \begingroup
9800       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9801       \parfillskip -\@pnumwidth
9802       \leavevmode \bfseries
9803       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9804       \hskip -\if@RTL\rightskip\else\leftskip\fi
9805       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9806       \penalty\@highpenalty
9807     \endgroup
9808   \fi}
9809 }
9810 \renewcommand\left@footnoterule{%
9811   \kern-3\p@
9812   \hrule\@width.4\columnwidth
9813   \kern2.6\p@}
9814 \renewcommand\right@footnoterule{%
9815   \kern-3\p@
9816   \nointerlineskip
9817   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9818   \kern2.6\p@}
9819 \renewcommand\theequation
9820   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9821 \renewcommand \thefigure
9822   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9823 \renewcommand \thetable
9824   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9825 \renewcommand \thechapter {\@arabic\c@chapter}
9826 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9827 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9828 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9829 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9830 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9831 \def\@makechapterhead#1{%
9832   \vspace*{50\p@}%
9833   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9834     \ifnum \c@secnumdepth >\m@ne
9835       \if@mainmatter
9836         \huge\bfseries \@chapapp\space \thechapter
9837         \par\nobreak
9838         \vskip 20\p@
9839       \fi
9840     \fi
9841     \interlinepenalty\@M
9842     \Huge \bfseries #1\par\nobreak
9843     \vskip 40\p@
9844   }}
9845 \def\@makeschapterhead#1{%
9846   \vspace*{50\p@}%
9847   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi

```



```

9848 \normalfont
9849 \interlinepenalty\@M
9850 \Huge \bfseries #1\par\nobreak
9851 \vskip 40\p@
9852 }}
9853 \renewcommand\backmatter{%
9854 \if@openright
9855 \cleardoublepage
9856 \else
9857 \clearpage
9858 \fi
9859 \@mainmatterfalse}
9860 \IfPackageLoadedF{natbib}{%
9861 \renewenvironment{thebibliography}[1]
9862 {\chapter*{\bibname}%
9863 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9864 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
9865 \bidi@thebibliography@font@hook%
9866 \list{\@biblabel{\@arabic\c@enumiv}}%
9867 {\settowidth\labelwidth{\@biblabel{#1}}%
9868 \leftmargin\labelwidth
9869 \advance\leftmargin\labelsep
9870 \@openbib@code
9871 \usecounter{enumiv}%
9872 \let\p@enumiv\@empty
9873 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9874 \sloppy
9875 \clubpenalty4000
9876 \@clubpenalty \clubpenalty
9877 \widowpenalty4000%
9878 \sfcode\.\@m}
9879 {\def\@noitemerr
9880 {\@latex@warning{Empty `thebibliography' environment}}%
9881 \endlist}
9882 }

```

66 File breqn-xetex-bidi.def

```

9883 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for
9884 \def\@dmath[#1]{\ifRTL\@RTLfalse\fi%
9885 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9886 \if@noskipsec \leavevmode \fi
9887 \if@inlabel \leavevmode \global\@inlabelfalse \fi
9888 \if\eq@group\else\eq@prelim\fi
9889 \setkeys{breqn}{#1}%
9890 \the\eqstyle
9891 \eq@setnumber
9892 \begingroup
9893 \eq@setup@a
9894 \eq@startup
9895 }
9896 \def\@dgroup[#1]{\ifRTL\@RTLfalse\fi%
9897 \let\eq@group\@True \global\let\eq@GRP@first\@dmath\@True
9898 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x

```




```

9899 \global\let\GRP@label\@empty
9900 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9901 \global\grp@linewidth\z@\global\grp@wdNum\z@
9902 \global\let\grp@eqs@numbered\@False
9903 \global\let\grp@aligned\@True
9904 \global\let\grp@shiftnumber\@False
9905 \eq@prelim
9906 \setkeys{breqn}{#1}%
9907 \if\grp@hasNumber \grp@setnumber \fi
9908 }
9909 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9910 \let\display@setup\dseries@display@setup
9911 % Question: should this be the default for dseries???
9912 \global\eq@wdCond\z@
9913 \@dmath[layout={M},#1]%
9914 \mathsurround\z@\@math \penalty\@Mi
9915 \let\endmath\ends@math
9916 \def\premath{%
9917 \ifdim\lastskip<.3em \unskip
9918 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9919 }%
9920 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9921 \ignorespaces
9922 }
9923 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9924 \renewenvironment{dsuspend}{%
9925 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9926 \parshape 1 \displayindent \displaywidth\relax
9927 \hsize=\columnwidth \noindent\ignorespaces
9928 }{%
9929 \par\egroup
9930 \global\setbox\GRP@box\vbox{%
9931 \hbox{\copy\EQ@box\top{\unvbox\EQ@box}}%
9932 \unvbox\GRP@box
9933 }%
9934 \global\GRP@queue\@xp{\the\GRP@queue
9935 \@elt{\let\eq@isIntertext\@True}%
9936 }%
9937 }

```

67 File calcs-xetex-bidi.def

```

9938 \ProvidesFile{calcs-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for calcs package for Xe
9939 \renewcommand\calcs@setup@alignment[1]{%
9940 \if c#1\relax \calcs@vfillAdd \leftskip \calcs@vfillAdd \rightskip \fi
9941 \if l#1\relax \calcs@vfillDrop\leftskip \calcs@vfillDrop\rightskip \fi
9942 \if r#1\relax \calcs@vfillAdd \leftskip \calcs@vfillDrop\rightskip \fi
9943 }
9944 \renewcommand\calcs@table@alignment{\if@RTLtab r\else l\fi}
9945 \renewenvironment{calstable}[1][\calcs@table@alignment]{%
9946 \if@RTLtab\calcs@activate@rtl\fi
9947 \let\calcs@thead@tokens=\relax
9948 \let\calcs@tfoot@tokens=\relax
9949 \let\calcs@tbody@tokens=\relax

```



```

9950 \cals@tfoot@height=Opt \relax
9951 \let\cals@last@context=n%
9952 \let\cals@current@context=b%
9953 \parindent=Opt \relax%
9954 \cals@setup@alignment{#1}%
9955 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9956 %% Alignment inside is independent on center/flushright outside
9957 \parfillskip=Opt plus1fil\relax
9958 \let\cals@borderL=\relax
9959 \let\cals@borderR=\relax
9960 \let\cals@borderT=\relax
9961 \let\cals@borderB=\relax
9962 \setbox\cals@backup@row=\box\voidb@x\relax
9963 \cals@AtBeginTable
9964 }{% End of the table
9965 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9966 \renewcommand\alignL{%
9967 \if@RTLtab
9968   \cals@vfillAdd\cals@paddingL
9969 \else
9970   \cals@vfillDrop\cals@paddingL
9971 \fi
9972 \cals@vfillDrop\cals@paddingR}
9973 \renewcommand\alignR{%
9974 \if@RTLtab
9975   \cals@vfillDrop\cals@paddingL
9976 \else
9977   \cals@vfillAdd\cals@paddingL
9978 \fi
9979 \cals@vfillDrop\cals@paddingR}

```

68 File caption-xetex-bidi.def

```

9980 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package
9981 \let\@makecaption\caption@makecaption

```

69 File caption3-xetex-bidi.def

```

9982 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9983 \renewcommand*\caption@par{%
9984   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

70 File colortbl-xetex-bidi.def

```

9985 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9986 \def\CT@setup{%
9987   \@tempdimb\col@sep
9988   \@tempdimc\col@sep
9989   \def\CT@color{%
9990     \global\let\CT@do@color\CT@@do@color
9991     \bidicolor}}
9992 \def\@classz{\@classx
9993   \@tempcnta \count@
9994   \prepnext@tok

```



```

9995 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9996   \@addtopreamble{\if@RTLtab\beginL\fi%
9997   \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9998     \ifcase \@cnum
9999     \hskip\stretch{.5}\kern\z@
10000   \d@llarbegin
10001   \insert@column
10002   \d@llarend\hskip\stretch{.5}\or
10003   \d@llarbegin \insert@column \d@llarend \hfill \or
10004   \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
10005   $\vcenter
10006   \@startpbox{\@nextchar}\insert@column \@endpbox $\or
10007   \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
10008   \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
10009   \fi
10010 \if@RTLtab\endR\fi\egroup\egroup
10011 \begingroup
10012   \CT@setup
10013   \CT@column@color
10014   \CT@row@color
10015   \CT@cell@color
10016   \CT@do@color
10017 \endgroup
10018   \@tempdima\ht\z@
10019   \advance\@tempdima\minrowclearance
10020   \vrule\@height\@tempdima\@width\z@
10021   \unhbox\z@\if@RTLtab\endL\fi}%
10022 \prepnext@tok}

```

71 File color-xetex-bidi.def

```

10023 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for
10024 \long\def\color@b@x#1#2#3{%
10025 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
10026 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
10027 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
10028 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
10029 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
10030   \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
10031 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi}
10032 \DeclareRobustCommand\color{%
10033   \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]
10034 \def\@declaredcolor#1{%
10035   \@ifundefined{string\color @#1}%
10036     {\color@error{`#1'}}%
10037     {\expandafter\let\expandafter\current@color
10038       \csname\string\color @#1\endcsname
10039       \set@color}%
10040   \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10041 \def\@undeclaredcolor[#1]#2{%
10042   \@ifundefined{color@#1}%
10043     {\color@error{model `#1'}}%
10044     {\csname color@#1\endcsname\current@color{#2}%
10045     \set@color}%

```



```

10046 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10047 \DeclareRobustCommand\bidicolor{%
10048 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
10049 \def\@bidiundeclaredcolor[#1]#2{%
10050 \@ifundefined{color@#1}%
10051 {\color@error{model `#1'}}%
10052 {\csname color@#1\endcsname\current@color{#2}%
10053 \set@color}%
10054 \ignorespaces}
10055 \def\@bidideclaredcolor#1{%
10056 \@ifundefined{\string\color @#1}%
10057 {\color@error{`#1'}}%
10058 {\expandafter\let\expandafter\current@color
10059 \csname\string\color @#1\endcsname
10060 \set@color}%
10061 \ignorespaces}
10062 \def\color@box#1#2{\color@bex\relax{\bidicolor#1{#2}}}
10063 \def\color@fbox#1#2#3{%
10064 \color@bex{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10065 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

72 File combine-xetex-bidi.def

```

10066 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for Xe
10067 \renewcommand{\c@ll@chapsecii}[2]{%
10068 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10069 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10070 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10071 }
10072 \renewcommand{\c@ll@chapseci}{%
10073 \setlength\@tempdima{0em}%
10074 \begingroup
10075 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10076 \parfillskip -\@pnumwidth
10077 \leavevmode
10078 }
10079 \renewenvironment{tocindent}[1]{%
10080 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

73 File crop-xetex-bidi.def

```

10081 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for Xe
10082 \IfClassLoadedT{memoir}{\endinput}
10083 \RequirePackage{graphicx}
10084 \renewcommand*\CROP@ulc{%
10085 \if@RTLmain%
10086 \begin{picture}(0,0)
10087 \unitlength\p@\thinline
10088 \put(-40,0){\circle{10}}
10089 \put(-30,-5){\line(0,1){10}}
10090 \put(-35,0){\line(1,0){30}}
10091 \put(-10,30){\circle{10}}
10092 \put(-5,30){\line(1,0){10}}
10093 \put(0,35){\line(0,-1){30}}

```



```

10094 \end{picture}%
10095 \else%
10096 \begin{picture}(0,0)
10097 \unitlength\p@\thinlines
10098 \put(-30,0){\circle{10}}
10099 \put(-30,-5){\line(0,1){10}}
10100 \put(-35,0){\line(1,0){30}}
10101 \put(0,30){\circle{10}}
10102 \put(-5,30){\line(1,0){10}}
10103 \put(0,35){\line(0,-1){30}}
10104 \end{picture}%
10105 \fi%
10106 }
10107 \renewcommand*\CROP@urc{%
10108 \if@RTLmain%
10109 \begin{picture}(0,0)
10110 \unitlength\p@\thinlines
10111 \put(20,0){\circle{10}}
10112 \put(30,-5){\line(0,1){10}}
10113 \put(35,0){\line(-1,0){30}}
10114 \put(-10,30){\circle{10}}
10115 \put(-5,30){\line(1,0){10}}
10116 \put(0,35){\line(0,-1){30}}
10117 \end{picture}%
10118 \else%
10119 \begin{picture}(0,0)
10120 \unitlength\p@\thinlines
10121 \put(30,0){\circle{10}}
10122 \put(30,-5){\line(0,1){10}}
10123 \put(35,0){\line(-1,0){30}}
10124 \put(0,30){\circle{10}}
10125 \put(-5,30){\line(1,0){10}}
10126 \put(0,35){\line(0,-1){30}}
10127 \end{picture}%
10128 \fi%
10129 }
10130 \renewcommand*\CROP@llc{%
10131 \if@RTLmain%
10132 \begin{picture}(0,0)
10133 \unitlength\p@\thinlines
10134 \put(-40,0){\circle{10}}
10135 \put(-30,-5){\line(0,1){10}}
10136 \put(-35,0){\line(1,0){30}}
10137 \put(-10,-30){\circle{10}}
10138 \put(-5,-30){\line(1,0){10}}
10139 \put(0,-35){\line(0,1){30}}
10140 \end{picture}%
10141 \else%
10142 \begin{picture}(0,0)
10143 \unitlength\p@\thinlines
10144 \put(-30,0){\circle{10}}
10145 \put(-30,-5){\line(0,1){10}}
10146 \put(-35,0){\line(1,0){30}}
10147 \put(0,-30){\circle{10}}

```



```

10148     \put(-5,-30){\line(1,0){10}}
10149     \put(0,-35){\line(0,1){30}}
10150 \end{picture}%
10151 \fi%
10152 }
10153 \renewcommand*\CROP@lrc{%
10154   \if@RTLmain%
10155     \begin{picture}(0,0)
10156       \unitlength\p@\thinlines
10157       \put(20,0){\circle{10}}
10158       \put(30,-5){\line(0,1){10}}
10159       \put(35,0){\line(-1,0){30}}
10160       \put(-10,-30){\circle{10}}
10161       \put(-5,-30){\line(1,0){10}}
10162       \put(0,-35){\line(0,1){30}}
10163     \end{picture}%
10164   \else%
10165     \begin{picture}(0,0)
10166       \unitlength\p@\thinlines
10167       \put(30,0){\circle{10}}
10168       \put(30,-5){\line(0,1){10}}
10169       \put(35,0){\line(-1,0){30}}
10170       \put(0,-30){\circle{10}}
10171       \put(-5,-30){\line(1,0){10}}
10172       \put(0,-35){\line(0,1){30}}
10173     \end{picture}%
10174   \fi%
10175 }
10176 \@ifpackagewith{crop}{cam}{%
10177 \CROP@execopt{cam}%
10178 }{}

```

74 File cutwin-xetex-bidi.def

```

10179 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10180 \renewcommand*\c@twcompctr}[2]{%
10181   \def\c@twfirst{1}
10182   \loop\advance\c@twinlines\m@ne
10183   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10184   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10185   \c@twprune{\c@twslicea}{\c@twlftside}%
10186   \c@twprune{\c@twsliceb}{\c@twrtside}%
10187   \ifnum\c@twfirst=\@ne
10188     \setbox#2=\vbox{\unvbox#2\hbox
10189       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi}\pageinwindow\hfil\if@RTL\box\c@tw
10190     \else
10191       \setbox#2=\vbox{\unvbox#2\hbox
10192         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi}\hfil\if@RTL\box\c@twslicea\else\
10193     \fi
10194   \def\c@twfirst{2}
10195   \ifnum\c@twinlines>\z@\repeat}
10196 \renewcommand*\c@twcompoddctr}[2]{%
10197   \def\c@twrounds{1}
10198   \def\c@twfirst{1}

```



```

10199 \@for\c@twlspec:=\c@twb\do{%
10200   \ifnum\c@twrounds=1
10201     \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10202     \c@twprune{\c@twslicea}{\c@twlspec}%
10203     \def\c@twrounds{2}
10204   \else
10205     \setbox\c@twliceb=\vsplit#1 to\baselineskip % second of pair
10206     \c@twprune{\c@twliceb}{\c@twlspec}%
10207     \ifnum\c@twfirst=1
10208       \setbox#2=\vbox{\unvbox#2\hbox
10209         to\hsize{\if@RTL\box\c@twliceb\else\box\c@twslicea\fi}\hfil\picinwindow\hfil\if@RTL\
10210       \def\c@twfirst{2}
10211     \else
10212       \setbox#2=\vbox{\unvbox#2\hbox
10213         to\hsize{\if@RTL\box\c@twliceb\else\box\c@twslicea\fi}\hfil\if@RTL\box\c@twlicea\
10214     \fi
10215     \def\c@twrounds{1}
10216   \fi}}

```

75 File cuted-xetex-bidi.def

```

10217 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for
10218
10219 \def\RTL@outputdblcol{%
10220   \if@firstcolumn
10221     \global\@firstcolumnfalse
10222     \global\setbox\@leftcolumn\copy\@outputbox
10223     \splitmaxdepth\maxdimen
10224     \vbadness\maxdimen
10225     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10226     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10227     \toks@\expandafter{\topmark}%
10228     \xdef\@firstcoltopmark{\the\toks@}%
10229     \toks@\expandafter{\splitfirstmark}%
10230     \xdef\@firstcolfirstmark{\the\toks@}%
10231     \ifx\@firstcolfirstmark\@empty
10232       \global\let\@setmarks\relax
10233     \else
10234       \gdef\@setmarks{%
10235         \let\firstmark\@firstcolfirstmark
10236         \let\topmark\@firstcoltopmark}%
10237     \fi
10238   \else
10239     \global\@firstcolumntrue
10240     \setbox\@outputbox\vbox{%
10241       \hb@xt@\textwidth{%
10242         \hskip \columnwidth
10243         \hfil
10244         {\normalcolor\vrule \@width\columnseprule}%
10245       \hfil
10246       \hb@xt@\columnwidth{%
10247         \bidi@firstcolumn@status@write%
10248         \box\@leftcolumn \hss}%
10249       \hskip -\textwidth

```



```

10250     \hb@xt@\columnwidth{%
10251     \bidi@lastcolumn@status@write%
10252     \box\@outputbox \hss}%
10253     \hskip \columnsep
10254     \hskip \columnwidth }%
10255     \ifvoid\hold@viper
10256     \else
10257     \setbox\@outputbox \vbox to\textheight{%
10258     \box\hold@viper
10259     \box\@outputbox
10260     \vss
10261     }%
10262     \fi
10263     \@combinedblfloats
10264     \@setmarks
10265     \@outputpage
10266     \begingroup
10267     \@dblfloatplacement
10268     \@startdblcolumn
10269     \@whilesw\if@fcolmade \fi{\@outputpage
10270     \@startdblcolumn}%
10271     \ifvoid\@viper
10272     \else
10273     \global\setbox\@viper\vbox{%
10274     \vskip-\stripsep
10275     \unvbox\@viper
10276     }%
10277     \@viperoutput
10278     \fi
10279     \endgroup
10280     \fi}%
10281
10282 \def\LTR@outputdblcol{%
10283     \if@firstcolumn
10284     \global\@firstcolumnfalse
10285     \global\setbox\@leftcolumn\copy\@outputbox
10286     \splitmaxdepth\maxdimen
10287     \vbadness\maxdimen
10288     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10289     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10290     \toks@\expandafter{\topmark}%
10291     \xdef\@firstcoltopmark{\the\toks@}%
10292     \toks@\expandafter{\splitfirstmark}%
10293     \xdef\@firstcolfirstmark{\the\toks@}%
10294     \ifx\@firstcolfirstmark\@empty
10295     \global\let\@setmarks\relax
10296     \else
10297     \gdef\@setmarks{%
10298     \let\firstmark\@firstcolfirstmark
10299     \let\topmark\@firstcoltopmark}%
10300     \fi
10301     \else
10302     \global\@firstcolumntrue
10303     \setbox\@outputbox\vbox{%

```




```

10304 \hb@xt@\textwidth{%
10305 \hb@xt@\columnwidth{%
10306 \bidi@firstcolumn@status@write%
10307 \box\@leftcolumn \hss}%
10308 \hfil
10309 {\normalcolor\vrule \@width\columnseprule}%
10310 \hfil
10311 \hb@xt@\columnwidth{%
10312 \bidi@lastcolumn@status@write%
10313 \box\@outputbox \hss}}}%
10314 \ifvoid\hold@viper
10315 \else
10316 \setbox\@outputbox \vbox to\textheight{%
10317 \box\hold@viper
10318 \box\@outputbox
10319 \vss
10320 }%
10321 \fi
10322 \@combinedblfloats
10323 \@setmarks
10324 \@outputpage
10325 \begingroup
10326 \@dblfloatplacement
10327 \@startdblcolumn
10328 \@whilesw\if@fcolmade \fi{\@outputpage
10329 \@startdblcolumn}%
10330 \ifvoid\@viper
10331 \else
10332 \global\setbox\@viper\vbox{%
10333 \vskip-\stripsep
10334 \unvbox\@viper
10335 }%
10336 \@viperoutput
10337 \fi
10338 \endgroup
10339 \fi}%
10340
10341 \def\@addviper{%
10342 \@insertfalse
10343 \def\var@@thecol@num{2}%
10344 \if@firstcolumn
10345 \def\var@@thecol@num{1}%
10346 \@reqcolroom=.5\@pageht
10347 \ht@viper=\@reqcolroom
10348 \advance\@reqcolroom by\ht\@viper
10349 \advance\@reqcolroom by\stripsep
10350 \else
10351 \@reqcolroom=\@colht
10352 \advance\@reqcolroom by\@pageht
10353 \ht@viper.5\@reqcolroom
10354 \@reqcolroom=\ht@viper
10355 \advance\@reqcolroom by\ht\@viper
10356 \advance\@reqcolroom by\stripsep
10357 \global\setbox\@holdpg\vbox{%

```



```

10358         \setbox\cuted@@tempbox@a\vbox{%
10359             \aftergroup\unvbox
10360             \unvcopy\@leftcolumn
10361             \unskip\unkern\unpenalty
10362             \setbox\@tempbox@a\lastbox
10363             \ifdim\dimexpr\ht\@tempbox+a\wd\@tempbox+a\dp\@tempbox>\z@
10364                 %% keeps lastbox
10365                 \aftergroup\@leftcolumn
10366             \else
10367                 %% removes lastbox
10368                 \aftergroup\cuted@@tempbox@a
10369             \fi
10370         }%
10371         \unskip\unkern\unpenalty
10372         \on@stripcols@break
10373         \the\At@ViperColsBreak
10374         \unvbox\@holdpg
10375     }%
10376     \global\At@ViperColsBreak{}%
10377     \ht@viper=.5\ht\@holdpg
10378     \ifdim\ht@viper>\@colht
10379         \ht@viper=\@colht
10380     \fi
10381 \fi
10382 %%
10383 %% calculations for breaking
10384 %%
10385 \ifvoid\hold@viper
10386     \ht@hold@viper=\z@
10387 \else
10388     \ht@hold@viper=\ht\hold@viper
10389 \fi
10390 \cuted@@tempdim@b\ht@viper
10391 \set@split@topskip@to\topskip
10392 \loop
10393     \xdef\saved@tempdim@b{\the\cuted@@tempdim@b}%
10394     \setbox\cuted@@varbox@a\copy\@holdpg
10395     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10396     %% set leftcolumn boxes
10397     \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10398     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10399     \xdef\var@@leftcolumn@badness{\the\badness}%
10400     %% set rightcolumn boxes
10401     \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10402     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10403     \xdef\var@@rightcolumn@badness{\the\badness}%
10404     %% analyzing split goodness
10405     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10406     \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10407     \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10408     \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10409     \cuted@@wlog@debug{CUTED [----]}%
10410     ^^JLeft: \the\ht\cuted@@tempbox@c
10411         +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness

```



```

10412      ^^JRight: \the\ht\cuted@@varbox@c
10413      +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10414      ^^JSplit: \the\cuted@@tempdim@b
10415      ^^JExtra height: \the\cuted@@tempdim@spread
10416      }%
10417      \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10418      \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10419      \cuted@@tempdim@spread=\z@
10420      \fi
10421      \fi
10422      \ifdim\cuted@@tempdim@spread<\z@
10423      \if@left@column@spread
10424      \if@right@column@shrink
10425      \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10426      \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10427      \else
10428      \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10429      \fi
10430      \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10431      \ifnum\badness<\cuted@@column@badness
10432      \cuted@@tempdim@b=\cuted@@tempdim@a
10433      \cuted@@tempdim@spread=\z@
10434      \fi
10435      \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on \the\relax}
10436      \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10437      \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on \the\relax}
10438      \else
10439      \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10440      \unvcopy\cuted@@tempbox@c
10441      }%
10442      \ifnum\badness<\cuted@@column@badness
10443      \@tempdimb=\ht\cuted@@varbox@c
10444      \cuted@@tempdim@spread=\z@
10445      \fi
10446      \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\relax}
10447      \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10448      \unvcopy\cuted@@varbox@c
10449      }%
10450      \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\relax}
10451      \fi
10452      \else
10453      \if@right@column@shrink
10454      \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10455      \else
10456      \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10457      \cuted@@tempdim@spread=\z@
10458      \fi
10459      \fi
10460      \fi
10461      \else
10462      \ifdim\cuted@@tempdim@spread>\z@
10463      \ifdim\dimexpr\@tempdimb+\p@\relax>\@colht
10464      \cuted@@tempdim@b=\@colht
10465      \cuted@@tempdim@spread=\z@

```



```

10466         \fi
10467         \fi
10468     \fi
10469 \ifdim\cuted@@tempdim@spread<\z@
10470     \advance\cuted@@tempdim@b 1\p@
10471 \repeat
10472 \wlog{CUTED [- LAST -]}%
10473     ^^JExtra skip:\the\cuted@@tempdim@spread
10474     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10475     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10476     ^^JSplit: \saved@tempdimb
10477     ^^JOutput:\the\cuted@@tempdim@b
10478     ^^JPageshrink: \the\pageshrink
10479     ^^JPagestretch: \the\pagestretch
10480     ^^Jcolht:\the\colht
10481 }%
10482 %%
10483 %% final construction of the cuted page above strip
10484 %%
10485 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10486 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10487     \cuted@@tempdim@a=\dimexpr
10488         \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10489         \relax
10490     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10491     \unvbox\cuted@@tempbox@c
10492     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10493     \else
10494         \vskip-\cuted@@tempdim@spread
10495     \fi
10496     \prevdepth\z@
10497     \hrule\@height\cuted@@page@rule width\textwidth
10498     \vskip-\cuted@@page@rule
10499     \ifdim\cuted@@tempdim@a>\z@
10500         \if@left@column@spread
10501         \else
10502             \vss
10503         \fi
10504     \else
10505         \ifdim\cuted@@tempdim@a<\z@
10506             \if@left@column@shrink
10507             \else
10508                 \vss
10509             \fi
10510         \fi
10511     \fi
10512 }%
10513 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10514     ^^JCUTED [leftcolumn badness]: \number\badness
10515 }%
10516 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10517     \cuted@@tempdim@a=\dimexpr
10518         \cuted@@tempdim@b-\ht\@holdpg
10519     \relax

```



```

10520     \unvbox\@holdpg
10521     \ifdim\cuted@@tempdim@a>\z@
10522         \if@right@column@spread
10523         \else
10524             \vss
10525         \fi
10526     \else
10527         \ifdim\cuted@@tempdim@a<\z@
10528             \if@right@column@shrink
10529             \else
10530                 \vss
10531             \fi
10532         \fi
10533     \fi
10534 }%
10535 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10536 \setbox\cuted@@tempbox@var\vbox{%
10537     \hb@xt@\textwidth{%
10538         \if@RTLmain
10539             \hskip \columnwidth
10540             \hfil
10541             {\normalcolor\vrule \@width\columnseprule}%
10542             \hfil
10543             \hb@xt@\columnwidth{%
10544                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10545                 \hss
10546             }%
10547             \hskip -\textwidth
10548             \hb@xt@\columnwidth{%
10549                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10550                 \hss
10551             }%
10552             \hskip \columnsep
10553             \hskip \columnwidth
10554         \else
10555             \hb@xt@\columnwidth{%
10556                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10557                 \hss
10558             }%
10559             \hfil
10560             {\normalcolor\vrule \@width\columnseprule}%
10561             \hfil
10562             \hb@xt@\columnwidth{%
10563                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10564                 \hss
10565             }%
10566         \fi
10567     }%
10568 }%
10569 %%
10570 %% finalize cuted page
10571 %%
10572 \ifvoid\hold@viper
10573     \global\setbox\hold@viper\vbox{%

```



```

10574         \unvbox\cuted@@tempbox@var
10575         \penalty\interlinepenalty
10576         \vskip\stripsep
10577         \the\preCutedStrip
10578         \ifnum\outputpenalty<-\@Mii
10579             \vskip -\parskip
10580         \fi
10581         \outputpenalty\z@
10582     }%
10583 \else
10584     \global\setbox\hold@viper\vbox{%
10585         \unvbox\hold@viper
10586         \cuted@@tempbox@var
10587         \penalty\interlinepenalty
10588         \vskip\stripsep
10589         \the\preCutedStrip
10590         \ifnum\outputpenalty<-\@Mii
10591             \vskip -\parskip
10592         \fi
10593         \outputpenalty\z@
10594     }%
10595 \fi
10596 \ifdim\@colht>\@reqcolroom
10597     \global\setbox\hold@viper\vbox{%
10598         \unvbox\hold@viper
10599         \box\@viper
10600         \penalty\interlinepenalty
10601         \the\postCutedStrip
10602         \vskip\stripsep
10603         \ifnum\outputpenalty<-\@Mii
10604             \vskip -\parskip
10605         \fi
10606         \outputpenalty\z@
10607     }%
10608 \inserttrue
10609 \global\@firstcolumntrue
10610 \advance\ht@hold@viper by-\ht@hold@viper
10611 \global\advance\@colht by\ht@hold@viper
10612 \ifdim\@colht<2.5\baselineskip
10613     \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10614                             too tall on page \thepage (\var@@thecol@num column)}%
10615     \@emptycol
10616     \if@firstcolumn
10617     \else
10618         \@emptycol
10619     \fi
10620     \global\@lastvipertrue
10621 \else
10622     \global\vsizel\@colht
10623     \global\@colroom\@colht
10624     \checkfloats\cuted@@tempdim@a
10625     \ifdim\cuted@@tempdim@a>\z@
10626         \global\advance\@colroom by-\cuted@@tempdim@a
10627     \fi

```



```

10628         \ifdim\@colroom<\z@
10629             \global\@colroom1\p@
10630             \ifdim\cuted@tempdim@a>\@colht
10631                 \@latex@warning@no@line{TOP and/or BOT FLOAT's
10632                     to large on \thepage (\var@thecol@num column)}%
10633             \fi
10634             \@emptycol
10635             \if@firstcolumn
10636             \else
10637                 \@emptycol
10638             \fi
10639             \global\@lastvipertrue
10640         \fi
10641     \fi
10642 \fi
10643 \if@insert
10644 \else
10645     \advance\ht@hold@viper by-\ht\hold@viper
10646     \global\advance\@colht by\ht@hold@viper
10647     \global\setbox\hold@viper\vbox{%
10648         \unvbox\hold@viper
10649         \set@split@topskip@to{\z@ plus2\p@}%
10650         \vsplit\@viper to\@colht
10651         \vss
10652     }%
10653     \vbox{}%
10654     \global\@firstcolumnfalse
10655     \newpage
10656 \fi
10657 }

```

76 File cvthemebidicasual.sty

```

10658 \NeedsTeXFormat{LaTeX2e}
10659 \ProvidesPackage{cvthemebidicasual}
10660 \DeclareOption{blue}{}
10661 \newif\if@colourorange\@colourorangefalse
10662 \DeclareOption{orange}{\@colourorangetrue}
10663 \newif\if@colourgreen\@colourgreenfalse
10664 \DeclareOption{green}{\@colourgreentrue}
10665 \newif\if@colourred\@colourredfalse
10666 \DeclareOption{red}{\@colourredtrtrue}
10667 \newif\if@colourgrey\@colourgreyfalse
10668 \DeclareOption{grey}{\@colourgreytrue}
10669 \DeclareOption*{
10670     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10671 \ExecuteOptions{colour}
10672 \ProcessOptions\relax
10673 \renewcommand*{\listitemsymbol}{\textbullet}
10674 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10675 \familynamecolour{808080}
10676 \firstnamecolour{A9A9A9}
10677 \quotecolour{696969}
10678 \addresscolour{696969}

```



```

10679 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10680 \sectiontitlecolour{1E90FF}
10681 \subsectioncolour{4682B4}
10682 \definecolor{rulecolour}{gray}{0.6}
10683 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10684 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10685 \if@colourorange
10686   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10687   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10688   \sectiontitlecolour{FF8C00}
10689   \subsectioncolour{FF8C00}
10690   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10691   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10692 \if@colourgreen
10693   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10694   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10695   \sectiontitlecolour{008000}
10696   \subsectioncolour{008000}
10697   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10698   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10699 \if@coloured
10700   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10701   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10702   \sectiontitlecolour{FF0000}
10703   \subsectioncolour{FF0000}
10704   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10705   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10706 \if@colourgrey
10707   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10708   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10709   \sectiontitlecolour{808080}
10710   \subsectioncolour{808080}
10711   \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10712   \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10713 \renewcommand*{\ttdefault}{pcr}
10714 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10715 \renewcommand*{\familynamefont}{\firstnamefont}
10716 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10717 \renewcommand*{\quoteont}{\large\slshape}
10718 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10719 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10720 \renewcommand*{\maketitle}{%
10721   {%
10722     \ifthenelse{\isundefined{\@photo}}{%
10723       }%
10724       {\color{firstnamecolor}\framebox{\includegraphics[width=\photowidth]{\@photo}}}}%
10725     \hfill%
10726     \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\ll[-.35em]
10727     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\ll[2.5em]}%
10728     \ifthenelse{\isundefined{\@quote}}{%
10729       }%
10730       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\ll[2.5em]}%
10731     }%
10732 \newif\if@firstfooterelement\@firstfooterelementtrue

```




```

10733 \providecommand*{\footersymbol}{}
10734 \renewcommand*{\footersymbol}{%
10735   \if@firstfooterelement%
10736   \else%
10737     { ~-\color{footersymbolcolor}\textbullet~~}\fi}
10738 \providecommand*{\makefooter}{}
10739 \renewcommand*{\makefooter}{%
10740   \fancypagestyle{plain}{%
10741     \fancyfoot[c]{%
10742       \parbox{0.8\textwidth}{%
10743         \centering%
10744         \addressfont\@addresscolour%
10745         \ifthenelse{\isundefined{\@address}}{}{}%
10746         \addresssymbol-\@address\%
10747         \@firstfooterelementfalse}%
10748         \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol-\@mobile\@firstfooterelementfalse}
10749         \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol-\@phone\@firstfooterelementfalse}
10750         \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol-\@fax\@firstfooterelementfalse}
10751         \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol-\@email\@firstfooterelementfalse}
10752         \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}
10753       }%
10754     \pagestyle{plain}}
10755 \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10756 \NeedsTeXFormat{LaTeX2e}
10757 \ProvidesPackage{cvthemebidiclassic}
10758 \DeclareOption{blue}{}
10759 \newif\if@colourorange\@colourorangefalse
10760 \DeclareOption{orange}{\@colourorange>true}
10761 \newif\if@colourgreen\@colourgreenfalse
10762 \DeclareOption{green}{\@colourgreen>true}
10763 \newif\if@colourred\@colourredfalse
10764 \DeclareOption{red}{\@colourred>true}
10765 \newif\if@colourgrey\@colourgreyfalse
10766 \DeclareOption{grey}{\@colourgrey>true}
10767 \DeclareOption*{
10768   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10769 \ExecuteOptions{colour}
10770 \ProcessOptions\relax
10771 \renewcommand*{\listitemsymbol}{\textbullet}
10772 \firstnamecolour{}
10773 \familynamecolour{}
10774 \titlecolour{808080}
10775 \quotecolour{696969}
10776 \addresscolour{696969}
10777 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10778 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10779 \sectiontitlecolour{1E90FF}
10780 \subsectioncolour{4682B4}
10781 \if@colourorange
10782   \addresscolour{FF8C00}
10783   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}

```



```

10784 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10785 \sectiontitlecolour{FF8C00}
10786 \subsectioncolour{FF8C00}\fi
10787 \if@colougreen
10788 \addresscolour{008000}
10789 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10790 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10791 \sectiontitlecolour{008000}
10792 \subsectioncolour{008000}\fi
10793 \if@coloured
10794 \addresscolour{FF0000}
10795 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10796 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10797 \sectiontitlecolour{FF0000}
10798 \subsectioncolour{FF0000}\fi
10799 \if@colourgrey
10800 \addresscolour{808080}
10801 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10802 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10803 \sectiontitlecolour{808080}
10804 \subsectioncolour{808080}\fi
10805 \renewcommand*{\ttdefault}{pcr}
10806 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10807 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10808 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10809 \renewcommand*{\familynamefont}{\firstnamefont}
10810 \renewcommand*{\quotefont}{\large\slshape}
10811 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10812 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10813 \newlength{\maketitlenamemaxwidth}
10814 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10815 \newlength{\maketitlenamewidth}
10816 \settowidth{\maketitlenamewidth}{\firstnamestyle{\@firstname-}\familynamestyle{\@familyname}}
10817 \newlength{\maketitlepicturewidth}
10818 \ifnum\maketitlenamemaxwidth<\maketitlenamewidth\setlength{\maketitlepicturewidth}{\maketitlenamewidth}
10819 \newlength{\maketitlepicturewidth}
10820 \setlength{\maketitlepicturewidth}{\@photowidth}
10821 \newlength{\maketitledetailwidth}
10822 \renewcommand*{\recomputethemelengths}{%
10823 \setlength{\maketitledetailwidth}{\textwidth}%
10824 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10825 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10826 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10827 \recomputethemelengths
10828 \newif\if@firstdetailselement\@firstdetailselementtrue
10829 \newcommand*{\maketitledetailsnewline}{
10830 \if@firstdetailselement%
10831 \@firstdetailselementfalse%
10832 \else%
10833 \[\.2em]\fi}
10834 \renewcommand*{\maketitle}{%
10835 % name and title
10836 \begin{minipage}[b]{\maketitlenamewidth}%
10837 \firstnamestyle{\@firstname-}\familynamestyle{\@familyname}%

```



```

10838 \ifthenelse{\equal{\@title}{}}{\[1.25em]\titlestyle{\@title}}%
10839 \end{minipage}%
10840 % optional data
10841 \begin{minipage}[b]{\maketitledetailswidth}%
10842 \bidi@raggedleft\addressfont\@addresscolour%
10843 \ifthenelse{\isundefined{\@address}}{\-%
10844 \maketitledetailsnewline%
10845 \addresssymbol~\\\@address}%
10846 \ifthenelse{\isundefined{\@mobile}}{\maketitledetailsnewline\mobilesymbol~\@mobile}%
10847 \ifthenelse{\isundefined{\@phone}}{\maketitledetailsnewline\phonesymbol~\@phone}%
10848 \ifthenelse{\isundefined{\@fax}}{\maketitledetailsnewline\faxsymbol~\@fax}%
10849 \ifthenelse{\isundefined{\@email}}{\maketitledetailsnewline\emailsymbol~\emailink{\@
10850 \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailsnewline\@extrainfo}%
10851 \end{minipage}%
10852 % optional photo
10853 \ifthenelse{\isundefined{\@photo}}%
10854 {}%
10855 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10856 % optional quote
10857 \ifthenelse{\isundefined{\@quote}}%
10858 {}%
10859 {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\
10860 }

```

78 File dblfnote-xetex-bidi.def

```

10861 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10862 \let\autofootnoterule\relax
10863 \let\rightfootnoterule\relax
10864 \let\leftfootnoterule\relax
10865 \let\textwidthfootnoterule\relax
10866 \let\LRfootnoterule\relax
10867 \def\footnoterule{\kern-3\p@
10868 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10869 \AtBeginDocument{\let\dfn@latex@footnotetext\footnotetext}
10870 \let\@footnotetext\dfn@footnotetext}
10871 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
10872 \let\insert\dfn@gobble
10873 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10874 \def\@makefnmark{\smash{\dfn@makefnmark}}
10875 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10876 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10877 \ifdim\dfn@dima>\z@\else
10878 \dfn@dima1sp\relax
10879 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10880 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10881 \ifvoid\dfn@ins\else
10882 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10883 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10884 \setbox\dfn@boxa\copy\dfn@ins
10885 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10886 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10887 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10888 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%

```



```

10889     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10890 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10891 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10892 \long\def\dfn@RTLfootnotetext#1{\setbox\dfn@boxa\vbox{
10893     \let\insert\dfn@gobble
10894     \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10895     \def\@makefnmark{\smash{\dfn@makefnmark}}
10896     \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10897     \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10898     \ifdim\dfn@dima>\z@\else
10899         \dfn@dima1sp\relax
10900         \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10901     \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10902         \ifvoid\dfn@ins\else
10903             \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10904             \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10905     \setbox\dfn@boxa\copy\dfn@ins
10906     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10907     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10908     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10909     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10910     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10911 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10912 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10913 \def\dfn@RTLmakecol{\ifvoid\footins\else
10914     \dfn@dima\ht\footins
10915     \@tempcnta\z@ \dfn@countins
10916     \@tempdima\z@ \let\@elt\dfn@elt@getht
10917     \dfn@list\@nil
10918     \ifdim\@tempdima=\z@\else
10919     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10920     \global\setbox\dfn@ins\box\dfn@ins
10921     \@tempswatruer
10922     \ifdfn@trysingle
10923         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10924         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10925         \advance\@tempdima-\skip\footins
10926         \advance\@tempdima-\ht\dfn@boxa
10927         \ifdim\@tempdima<\z@\else \@tempswafalse
10928             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10929                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10930     \if@tempswa
10931     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10932     \global\setbox\footins\vbox{\hbox{%
10933         \hskip \DFNcolumnwidth
10934         \hskip\DFNcolumnsep
10935         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10936             \unvbox\dfn@boxb\vss}\hss}
10937         \hskip -\textwidth
10938         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10939             \vbox to\@tempdima{
10940                 \setbox\@tempboxa\vbox{\footnoterule}
10941                 \ifdfn@ruleboth \unvbox\@tempboxa
10942                 \else \@tempdima\ht\@tempboxa

```



```

10943                                     \advance\@tempdima\dp\@tempboxa
10944                                     \vskip\@tempdima
10945                                     \prevdepth\dp\@tempboxa \fi
10946                                     \unvbox\dfn@boxa\vss}\fi\hss}
10947                                     \hskip \DFNcolumnsep
10948                                     \hskip \DFNcolumnwidth}}\fi\fi
10949 \global\dfn@fnht\z@
10950 \ifx\dfn@list\@empty\else
10951     \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10952     \dfn@list \global\advance\dfn@fnht\dfn@dimb
10953     \let\@elt\relax
10954     \ifdim\dfn@dimb>\z@
10955         \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10956         \insert\footins{\floatingpenalty\@MM
10957             \vbox to\dfn@dimb{}}\fi
10958     \ifdim\dfn@fnht>\@tempdima
10959         \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10960         \global\dfn@fnht\@tempdima
10961         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10962         \xdef\dfn@afteroutput{\insert\footins{
10963             \floatingpenalty\@MM
10964             \vbox to\number\@tempdimb sp{}}}%
10965         \global\let\noexpand\dfn@afteroutput\relax}%
10966     \fi\fi
10967 \fi}%
10968 \let\footnoterule\relax \dfn@latex@makecol
10969 \let\footnoterule\dfn@footnoterule}
10970 \def\dfn@LTRmakecol{\ifvoid\footins\else
10971     \dfn@dima\ht\footins
10972     \@tempcnta\z@ \dfn@countins
10973     \@tempdima\z@ \let\@elt\dfn@elt@getht
10974     \dfn@list\@nil
10975     \ifdim\@tempdima=\z@\else
10976         \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10977         \global\setbox\dfn@ins\box\dfn@ins
10978         \@tempswatrue
10979         \ifdfn@trysingle
10980             \setbox\dfn@boxb\vbox{\unvcopy\@cc1v}\@tempdima\@colroom
10981             \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10982             \advance\@tempdima-\skip\footins
10983             \advance\@tempdima-\ht\dfn@boxa
10984             \ifdim\@tempdima<\z@\else \@tempswafalse
10985                 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10986                     \footnoterule \unvbox\dfn@boxa}\fi\fi
10987         \if@tempswa
10988             \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10989             \global\setbox\footins\vbox{\hbox{%
10990                 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10991                     \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10992                 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10993                     \vbox to\@tempdima{
10994                         \setbox\@tempboxa\vbox{\footnoterule}
10995                         \ifdfn@ruleboth \unvbox\@tempboxa
10996                         \else \@tempdima\ht\@tempboxa

```



```

10997                                     \advance\@tempdima\dp\@tempboxa
10998                                     \vskip\@tempdima
10999                                     \prevdepth\dp\@tempboxa \fi
11000                                     \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
11001 \global\dfn@fnht\z@
11002 \ifx\dfn@list\@empty\else
11003     \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
11004     \dfn@list \global\advance\dfn@fnht\dfn@dimb
11005     \let\@elt\relax
11006     \ifdim\dfn@dimb>\z@
11007         \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
11008         \insert\footins{\floatingpenalty\@MM
11009             \vbox to\dfn@dimb{}}}\fi
11010     \ifdim\dfn@fnht>\@tempdima
11011         \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
11012         \global\dfn@fnht\@tempdima
11013         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
11014         \xdef\dfn@afteroutput{\insert\footins{
11015             \floatingpenalty\@MM
11016             \vbox to\number\@tempdimb sp{}}}%
11017         \global\let\noexpand\dfn@afteroutput\relax}%
11018     \fi\fi
11019 \fi}%
11020 \let\footnoterule\relax \dfn@latex@makecol
11021 \let\footnoterule\dfn@footnoterule}
11022 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
11023 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
11024 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
11025 \DFNalwaysdouble

```

79 File diagbox-xetex-bidi.def

```

11026 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package]
11027 \bidi@patchcmd{\diagbox@double}{%
11028     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11029 }{\bidi@@diagbox@double@ii}{-}{-}
11030 \bidi@patchcmd{\diagbox@double}{%
11031     \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11032 }{\bidi@@diagbox@double@iii}{-}{-}
11033 \newcommand*{\bidi@@diagbox@double@ii}{%
11034     \if@RTL
11035     \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}
11036     \else
11037     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11038     \fi
11039 }
11040 \newcommand*{\bidi@@diagbox@double@iii}{%
11041     \if@RTL
11042     \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11043     \else
11044     \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11045     \fi
11046 }
11047 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%

```



```

11048 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11049 }{\bidi@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11050 \bidi@patchcmd{\diagbox@triple@setbox@NW}{-%
11051 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11052 }{\bidi@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11053 \bidi@patchcmd{\diagbox@triple@setbox@NW}{-%
11054 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11055 }{\bidi@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11056 \newcommand*{\bidi@diagbox@triple@setbox@NW@tabular@i@ii}{-%
11057 \ifRTL
11058 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
11059 \else
11060 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11061 \fi}
11062 \newcommand*{\bidi@diagbox@triple@setbox@NW@tabular@iii}{-%
11063 \ifRTL
11064 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11065 \else
11066 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11067 \fi}
11068 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11069 \bidi@patchcmd{\diagbox@triple@setbox@SE}{-%
11070 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11071 }{\bidi@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11072 \bidi@patchcmd{\diagbox@triple@setbox@SE}{-%
11073 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}%
11074 }{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11075 \bidi@patchcmd{\diagbox@triple@setbox@SE}{-%
11076 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}%
11077 }{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11078 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@i}{-%
11079 \ifRTL
11080 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
11081 \else
11082 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11083 \fi}
11084 }
11085 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{-%
11086 \ifRTL
11087 \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11088 \else
11089 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11090 \fi}
11091 }
11092 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11093 \bidi@patchcmd{\diagbox@double@pict@SE}{-%
11094 \diagbox@setlinecolor
11095 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11096 }-%
11097 {\diagbox@setlinecolor
11098 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11099 }{-}{-}
11100 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11101 \bidi@patchcmd{\diagbox@double@pict@NE}{-%

```




```

11102 \diagbox@setlinecolor
11103 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11104 }{%
11105 {\diagbox@setlinecolor
11106 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11107 }{}{}
11108 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11109 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11110 \diagbox@setlinecolor
11111 \Line(0,\yym)(\x,0)
11112 \Line(\xm,\y)(\x,0)%
11113 }{%
11114 {\diagbox@setlinecolor
11115 \Line(0,\yym)(\x,0)
11116 \Line(\xm,\y)(\x,0)}%
11117 }{}{}
11118 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11119 \diagbox@setlinecolor
11120 \Line(0,0)(\xxm,\y)
11121 \Line(0,0)(\x,\yym)%
11122 }{%
11123 {\diagbox@setlinecolor
11124 \Line(0,0)(\xxm,\y)
11125 \Line(0,0)(\x,\yym)}%
11126 }{}{}
11127 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11128 \diagbox@setlinecolor
11129 \Line(0,\ym)(\x,\y)
11130 \Line(\xm,0)(\x,\y)%
11131 }{%
11132 {\diagbox@setlinecolor
11133 \Line(0,\ym)(\x,\y)
11134 \Line(\xm,0)(\x,\y)}%
11135 }{}{}
11136 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11137 \diagbox@setlinecolor
11138 \Line(0,\y)(\xxm,0)
11139 \Line(0,\y)(\x,\ym)%
11140 }{%
11141 {\diagbox@setlinecolor
11142 \Line(0,\y)(\xxm,0)
11143 \Line(0,\y)(\x,\ym)}%
11144 }{}{}

```

80 File draftwatermark-xetex-bidi.def

```

11145 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwatermark]
11146 \renewcommand\SetWatermarkText[1]{%
11147 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

81 File eso-pic-xetex-bidi.def

```

11148 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package]
11149 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%

```




```

11150 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
11151
11152 \ESO@isMEMOIR{%
11153 \renewcommand\AtTextUpperLeft[1]{%
11154 \begingroup
11155 \ifodd\c@page
11156 \if@RTLmain
11157 \ESO@tempdima=\paperwidth
11158 \advance\ESO@tempdima-\textwidth
11159 \advance\ESO@tempdima-\spinmargin
11160 \else
11161 \ESO@tempdima=\spinmargin
11162 \fi
11163 \else
11164 \if@RTLmain
11165 \ESO@tempdima=\spinmargin
11166 \else
11167 \ESO@tempdima=\paperwidth
11168 \advance\ESO@tempdima-\textwidth
11169 \advance\ESO@tempdima-\spinmargin
11170 \fi
11171 \fi
11172 \ESO@tempdimb=-\uppermargin
11173 \AtPageUpperLeft{%
11174 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11175 }%
11176 \endgroup
11177 }
11178 }{%
11179 \renewcommand\AtTextUpperLeft[1]{%
11180 \begingroup
11181 \ESO@tempdima=1in\relax
11182 \if@twoside
11183 \ifodd\c@page
11184 \if@RTLmain
11185 \advance\ESO@tempdima\evensidemargin
11186 \else
11187 \advance\ESO@tempdima\oddsidemargin
11188 \fi
11189 \else
11190 \if@RTLmain
11191 \advance\ESO@tempdima\oddsidemargin
11192 \else
11193 \advance\ESO@tempdima\evensidemargin
11194 \fi
11195 \fi
11196 \else
11197 \advance\ESO@tempdima\oddsidemargin
11198 \fi
11199 \ESO@tempdimb=-1in\relax
11200 \advance\ESO@tempdimb-\topmargin
11201 \advance\ESO@tempdimb-\headheight
11202 \advance\ESO@tempdimb-\headsep
11203 \AtPageUpperLeft{%

```



```

11204     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11205     }%
11206   \endgroup
11207 }
11208 }

```

82 File empheq-xetex-bidi.def

```

11209 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package fo
11210 \MHInternalSyntaxOn
11211 \def\EQ_tag_plus_endmark:{%
11212   \iftagsleft@
11213     \gdef\maketag@@@##1{%
11214       \hfuzz\displaywidth
11215       \if@RTL\makebox[\widthof{##1}][r]{%
11216         \hbox to \displaywidth{\m@th\normalfont##1\hss
11217           \raisebox{-\dp\EQ_mathdisplay_box
11218             -\depthof{\EQ_outerbox:}}{
11219             {\PotEndMark{\hss}}}}
11220       \else\makebox[\widthof{##1}][l]{%
11221         \hbox to \displaywidth{\m@th\normalfont##1\hss
11222           \raisebox{-\dp\EQ_mathdisplay_box
11223             -\depthof{\EQ_outerbox:}}{
11224             {\PotEndMark{\hss}}}}\fi}%
11225   \MH_else:
11226     \gdef\maketag@@@##1{%
11227       \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11228         \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11229       \MH_addtolength:dn \@tempdima
11230         {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11231       \setlength{\@tempdimb}
11232         {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11233         +\depthof{\EQ_innerbox:}}
11234       \MH_if_dim:w \@tempdima>\@tempdimb
11235         \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11236         -\@tempdima+\g_EQ_bottomrow_depth_dim}
11237       \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11238     \def\EQ_next:{\raisebox{\@tempdima}}%
11239   \MH_else:
11240     \def\EQ_next:{
11241       \raisebox{-\dp\EQ_mathdisplay_box
11242         -\depthof{\EQ_outerbox:}}}%
11243     \MH_fi:\EQ_next:}}}%
11244   \MH_fi:}
11245 \def\EQ_post_process:{%
11246   \EQ_initialize:
11247   \EQ_begin_equation:
11248   \MH_if_boolean:nT {outer_mult}{
11249     \setkeys{MT_options_name}{
11250       firstline-afterskip=Opt,
11251       lastline-preskip=Opt,
11252       multlined-width=Opt,
11253     }
11254   \ifodd \l_EQ_alignmentmode_int

```



```

11255     \setkeys{\MT_options_name:}{multlined-pos=b}
11256 \MH_else:
11257     \setkeys{\MT_options_name:}{multlined-pos=t}
11258 \MH_fi:
11259     \g@addto@macro\EQ_complete_mathdisplay:{
11260         \begin{MTmultlined}\relax}
11261 }
11262 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11263 \MH_if_boolean:nT {outer_mult}{
11264     \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11265 }
11266 \EQ_end_equation:
11267 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11268 \savecounters@
11269 \EQ_typeset_tags:
11270 \edef\l_EQ_equation_fint{\number\c@equation}
11271 \restorecounters@
11272 \Hy@linkcounter=\EQ_hyperref_link_fint
11273 \settowidth\l_EQ_totalwidth_dim{%
11274     $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11275 \MH_if_boolean:nTF {outer_mult}
11276 { \def\EQ_next:{_mult} }
11277 { \def\EQ_next:{} }
11278 \@nameuse{EQ_modify_linewidth_
11279     \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11280 \EQ_typeset_display:
11281 \@nameuse{EQ_find_displaywidth_
11282     \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11283 \MH_addtolength:dn
11284 \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11285 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11286     $\EQ_left_side:
11287     \EQ_innerbox:{%
11288         \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11289         \makebox[\l_EQ_displaywidth_dim][c]
11290         {\usebox{\EQ_mathdisplay_box}}}%
11291     \MH_or:
11292     \makebox[\l_EQ_displaywidth_dim][c]
11293     {\usebox{\EQ_mathdisplay_box}}}%
11294     \MH_or:
11295     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11296         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11297         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11298         \kern-\@mathmargin
11299         \MH_fi:
11300         \MH_fi:
11301         \usebox{\EQ_mathdisplay_box}}}%
11302     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11303         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11304         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11305         \kern-\@mathmargin
11306         \MH_fi:
11307         \MH_fi:
11308         \usebox{\EQ_mathdisplay_box}}\fi%

```



```

11309     \MH_or:
11310     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11311         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11312             \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11313                 \kern-\@mathmargin
11314                 \MH_fi:
11315     \MH_fi:
11316     \usebox{\EQ_mathdisplay_box}}
11317 \else\makebox[\l_EQ_displaywidth_dim][l]{%
11318     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11319     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11320     \kern-\@mathmargin
11321     \MH_fi:
11322     \MH_fi:
11323     \usebox{\EQ_mathdisplay_box}}\fi%
11324 \MH_fi:}%
11325 \EQ_right_side:$}%
11326 \begin{AmSequation*}
11327 \@nameuse{EQ_place_display_
11328     \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11329 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11330 \MH_set_boolean_T:n {show_manual_tags}
11331 \MH_if_case:w \l_EQ_alignmentmode_int
11332 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11333 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11334 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11335 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11336 \MH_fi:
11337 \MH_fi:
11338 \end{AmSequation*}
11339 \global\c@equation=\l_EQ_equation_fint\relax
11340 }
11341 \AtBeginDocument{%
11342 \ifpackageloaded{fancybox}{%
11343     \ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11344     {\renewcommand*{\textcolor[2]{\normalcolor{#2}}}%
11345     \renewcommand*{\shadowbox{%
11346         \ifstar{\MH_set_boolean_T:n {shadowbox_star}
11347             \VerbBox\EQ_shadowbox:n}
11348             {\MH_set_boolean_F:n {shadowbox_star}
11349             \VerbBox\EQ_shadowbox:n}}
11350 \def\EQ_shadowbox:n #1{%
11351     \sbox{\z@}{\fbox{#1}}%
11352     \MH_if_boolean:nTF {shadowbox_star}{
11353         \MH_setlength:dn \@tempdima{\z@}%
11354     }{
11355         \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11356     }
11357     \raisebox{\@tempdima}{%
11358         \if@RTL\makebox[\z@][r]{%
11359             \kern\shadowsize \textcolor{shadowcolor}{%
11360                 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11361         }%
11362     \else\makebox[\z@][l]{%

```



```

11363         \kern\shadowsize \textcolor{shadowcolor}{%
11364             \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11365     } \fi%
11366     \usebox\z@\textcolor{shadowcolor}{%
11367         \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11368 }{}%
11369 }
11370 \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

```

11371 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/30 v0.8 bidi adaptations for extarticle cl
11372 \renewcommand*\l@section[2]{%
11373     \ifnum \c@tocdepth >\z@
11374         \addpenalty\@secpenalty
11375         \advvspace{1.0em \@plus\p@}%
11376         \setlength\@tempdima{1.5em}%
11377         \begingroup
11378             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11379             \parfillskip -\@pnumwidth
11380             \leavevmode \bfseries
11381             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11382             \hskip -\if@RTL\rightskip\else\leftskip\fi
11383             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11384         \endgroup
11385     \fi}
11386 \renewcommand*\l@part[2]{%
11387     \ifnum \c@tocdepth >-2\relax
11388         \addpenalty\@secpenalty
11389         \advvspace{2.25em \@plus\p@}%
11390         \begingroup
11391             \setlength\@tempdima{3em}%
11392             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11393             \parfillskip -\@pnumwidth
11394             {\leavevmode
11395             \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11396             \nobreak
11397         \endgroup
11398     \fi}
11399 \ApplyPatchIfPackageLoaded{nameref}{%
11400     \bidi@patchcmd\NR@part\raggedright{%
11401         \if@RTL\raggedleft\else\raggedright\fi
11402     }{}{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}%
11403     \bidi@patchcmd\NR@spart\raggedright{%
11404         \if@RTL\raggedleft\else\raggedright\fi
11405     }{}{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
11406 }{}%
11407     \bidi@patchcmd\@part\raggedright{%
11408         \if@RTL\raggedleft\else\raggedright\fi
11409     }{}{\bidi@warningnoline{Oops! patching `string\@part' failed}}%
11410     \bidi@patchcmd\@spart\raggedright{%
11411         \if@RTL\raggedleft\else\raggedright\fi
11412     }{}{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
11413 }

```



```

11414 \renewenvironment{thebibliography}[1]
11415     {\section*{\refname
11416         \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11417         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11418         \bidi@thebibliography@font@hook%
11419         \list{\@biblabel{\@arabic\c@enumiv}}%
11420         {\settowidth\labelwidth{\@biblabel{#1}}%
11421         \leftmargin\labelwidth
11422         \advance\leftmargin\labelsep
11423         \@openbib@code
11424         \usecounter{enumiv}%
11425         \let\p@enumiv\@empty
11426         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11427         \sloppy\clubpenalty4000\widowpenalty4000%
11428         \sfcode`..\@m}
11429     {\def\@noitemerr
11430         {\@latex@warning{Empty `thebibliography' environment}}%
11431         \endlist}
11432 \renewcommand\left@footnoterule{%
11433     \kern-3\p@
11434     \hrule\@width.4\columnwidth
11435     \kern2.6\p@}
11436 \renewcommand\right@footnoterule{%
11437     \kern-3\p@
11438     \nointerlineskip
11439     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11440     \kern2.6\p@}
11441     \if@titlepage
11442     \renewcommand\maketitle{\begin{titlepage}%
11443     \let\footnotesize\small
11444     \let\right@footnoterule\relax
11445     \let\left@footnoterule\relax
11446     \let\textwidth@footnoterule\relax
11447     \let \footnote \thanks
11448     \null\vfil
11449     \vskip 60\p@
11450     \begin{center}%
11451     {\LARGE \@title \par}%
11452     \vskip 3em%
11453     {\large
11454     \lineskip .75em%
11455     \begin{tabular}[t]{c}%
11456     \@author
11457     \end{tabular}\par}%
11458     \vskip 1.5em%
11459     {\large \@date \par}%           % Set date in \large size.
11460     \end{center}\par
11461     \@thanks
11462     \vfil\null
11463     \end{titlepage}%
11464     \setcounter{footnote}{0}%
11465     \global\let\thanks\relax
11466     \global\let\maketitle\relax
11467     \global\let\@thanks\@empty

```



```

11468 \global\let\@author\@empty
11469 \global\let\@date\@empty
11470 \global\let\@title\@empty
11471 \global\let\title\relax
11472 \global\let\author\relax
11473 \global\let\date\relax
11474 \global\let\and\relax
11475 }
11476 \else
11477 \renewcommand\maketitle{\par
11478 \begingroup
11479 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11480 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11481 \long\def\@makefntext##1{\parindent 1em\noindent
11482 \hb@xt@1.8em{%
11483 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11484 \if@twocolumn
11485 \ifnum \col@number=\@one
11486 \@maketitle
11487 \else
11488 \twocolumn[\@maketitle]%
11489 \fi
11490 \else
11491 \newpage
11492 \global\@topnum\z@ % Prevents figures from going at top of page.
11493 \@maketitle
11494 \fi
11495 \thispagestyle{plain}\@thanks
11496 \endgroup
11497 \setcounter{footnote}{0}%
11498 \global\let\thanks\relax
11499 \global\let\maketitle\relax
11500 \global\let\@maketitle\relax
11501 \global\let\@thanks\@empty
11502 \global\let\@author\@empty
11503 \global\let\@date\@empty
11504 \global\let\@title\@empty
11505 \global\let\title\relax
11506 \global\let\author\relax
11507 \global\let\date\relax
11508 \global\let\and\relax
11509 }
11510 \def\@maketitle{%
11511 \newpage
11512 \null
11513 \vskip 2em%
11514 \begin{center}%
11515 \let \footnote \thanks
11516 {\LARGE \@title \par}%
11517 \vskip 1.5em%
11518 {\large
11519 \lineskip .5em%
11520 \begin{tabular}[t]{c}%
11521 \@author

```



```

11522     \end{tabular}\par}%
11523     \vskip 1em%
11524     {\large \@date}%
11525     \end{center}%
11526     \par
11527     \vskip 1.5em}
11528 \fi
11529 \renewcommand\thesubsection  {\thesection\@SepMark\@arabic\c@subsection}
11530 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11531 \renewcommand\theparagraph  {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11532 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

84 File extbook-xetex-bidi.def

```

11533 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class fo
11534 \if@titlepage
11535 \renewcommand\maketitle{\begin{titlepage}%
11536 \let\footnotesize\small
11537 \let\right@footnoterule\relax
11538 \let\left@footnoterule\relax
11539 \let\textwidth@footnoterule\relax
11540 \let \footnote \thanks
11541 \let \LTRfootnote \LTRthanks
11542 \let \RTLfootnote \RTLthanks
11543 \null\vfil
11544 \vskip 60\p@
11545 \begin{center}%
11546     {\LARGE \@title \par}%
11547     \vskip 3em%
11548     {\large
11549     \lineskip .75em%
11550     \begin{tabular}[t]{c}%
11551         \@author
11552     \end{tabular}\par}%
11553     \vskip 1.5em%
11554     {\large \@date \par}%           % Set date in \large size.
11555 \end{center}\par
11556 \@thanks
11557 \vfil\null
11558 \end{titlepage}%
11559 \setcounter{footnote}{0}%
11560 \global\let\thanks\relax
11561 \global\let\LTRthanks\relax
11562 \global\let\RTLthanks\relax
11563 \global\let\maketitle\relax
11564 \global\let\@thanks\@empty
11565 \global\let\@author\@empty
11566 \global\let\@date\@empty
11567 \global\let\@title\@empty
11568 \global\let\title\relax
11569 \global\let\author\relax
11570 \global\let\date\relax
11571 \global\let\and\relax
11572 }

```




```

11573 \else
11574 \renewcommand\maketitle{\par
11575   \begingroup
11576     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11577     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11578     \long\def\@makefntext##1{\parindent 1em\noindent
11579       \hb@xt@1.8em{%
11580         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11581     \if@twocolumn
11582       \ifnum \col@number=\@ne
11583         \@maketitle
11584       \else
11585         \twocolumn[\@maketitle]%
11586       \fi
11587     \else
11588       \newpage
11589       \global\@topnum\z@   % Prevents figures from going at top of page.
11590       \@maketitle
11591     \fi
11592     \thispagestyle{plain}\@thanks
11593   \endgroup
11594   \setcounter{footnote}{0}%
11595   \global\let\thanks\relax
11596   \global\let\LTRthanks\relax
11597   \global\let\RTLthanks\relax
11598   \global\let\maketitle\relax
11599   \global\let\@maketitle\relax
11600   \global\let\@thanks\@empty
11601   \global\let\@author\@empty
11602   \global\let\@date\@empty
11603   \global\let\@title\@empty
11604   \global\let\title\relax
11605   \global\let\author\relax
11606   \global\let\date\relax
11607   \global\let\and\relax
11608 }
11609 \def\@maketitle{%
11610   \newpage
11611   \null
11612   \vskip 2em%
11613   \begin{center}%
11614     \let \footnote \thanks
11615     \let \LTRfootnote \LTRthanks
11616     \let \RTLfootnote \RTLthanks
11617     {\LARGE \@title \par}%
11618     \vskip 1.5em%
11619     {\large
11620       \lineskip .5em%
11621       \begin{tabular}[t]{c}%
11622         \@author
11623       \end{tabular}\par}%
11624     \vskip 1em%
11625     {\large \@date}%
11626   \end{center}%

```



```

11627 \par
11628 \vskip 1.5em}
11629 \fi
11630 \renewcommand*\l@part[2]{%
11631 \ifnum \c@tocdepth >-2\relax
11632 \addpenalty{-\@highpenalty}%
11633 \addvspace{2.25em \@plus\p@}%
11634 \begingroup
11635 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11636 \parfillskip -\@pnumwidth
11637 {\leavevmode
11638 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11639 \nobreak
11640 \global\@nobreaktrue
11641 \everypar{\global\@nobreakfalse\everypar{}}%
11642 \endgroup
11643 \fi}
11644 \renewcommand\theequation
11645 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11646 \renewcommand \thefigure
11647 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11648 \renewcommand \thetable
11649 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11650 \renewcommand \thechapter {\@arabic\c@chapter}
11651 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11652 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11653 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11654 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11655 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11656 \def\@makechapterhead#1{%
11657 \vspace*{50\p@}%
11658 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11659 \ifnum \c@secnumdepth >\m@ne
11660 \if@mainmatter
11661 \huge\bfseries \@chapapp\space \thechapter
11662 \par\nobreak
11663 \vskip 20\p@
11664 \fi
11665 \fi
11666 \interlinepenalty\@M
11667 \Huge \bfseries #1\par\nobreak
11668 \vskip 40\p@
11669 }}
11670
11671 \def\@makeschapterhead#1{%
11672 \vspace*{50\p@}%
11673 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11674 \normalfont
11675 \interlinepenalty\@M
11676 \Huge \bfseries #1\par\nobreak
11677 \vskip 40\p@
11678 }}
11679 \renewcommand\backmatter{%
11680 \if@openright

```



```

11681 \cleardoublepage
11682 \else
11683 \clearpage
11684 \fi
11685 \@mainmatterfalse}
11686 \renewenvironment{thebibliography}[1]
11687   {\chapter*{\bibname
11688     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11689     \ifRTL\ifLTRbibitems@RTLfalse\else\fi\else\ifRTLbibitems@RTLtrue\else\fi\fi
11690     \bidi@thebibliography@font@hook%
11691     \list{\@biblabel{\@arabic\c@enumiv}}%
11692       {\settowidth\labelwidth{\@biblabel{#1}}%
11693         \leftmargin\labelwidth
11694         \advance\leftmargin\labelsep
11695         \@openbib@code
11696         \usecounter{enumiv}%
11697         \let\p@enumiv\empty
11698         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11699     \sloppy
11700     \clubpenalty4000
11701     \@clubpenalty \clubpenalty
11702     \widowpenalty4000%
11703     \sfcode`. \m}
11704   {\def\@noitemerr
11705     {\@latex@warning{Empty `thebibliography' environment}}%
11706     \endlist}

```

85 File extletter-xetex-bidi.def

```

11707 \ProvidesFile{extletter-xetex-bidi.def}[2025/09/30 v0.3 bidi adaptations for extletter clas
11708 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11709   \thispagestyle{firstpage}%
11710   {\ifRTL\raggedright\else\raggedleft\fi\@date\par}%
11711   \else % home address
11712     \thispagestyle{empty}%
11713     {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignor
11714     \fromaddress \*[2\parskip]%
11715     \@date \end{tabular}\par}%
11716   \fi
11717   \vspace{2\parskip}%
11718   {\ifRTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
11719   \vspace{2\parskip}%
11720   #1\par\nobreak}
11721 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11722   \stopbreaks
11723   \noindent
11724   \ifx\@empty\fromaddress\else
11725     \hspace*{\longindentation}\fi
11726   \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
11727     \ignorespaces #1\ \ [6\medskipamount]%
11728     \ifx\@empty\fromsig
11729       \fromname
11730     \else \fromsig \fi\strut}%
11731   \par}

```



```

11732 \renewcommand\left@footnoterule{%
11733   \kern-\p@
11734   \hrule \@width .4\columnwidth
11735   \kern .6\p@}
11736 \renewcommand\right@footnoterule{%
11737   \kern-\p@
11738   \nointerlineskip
11739   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11740   \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11741 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/09/13 v2.8 bidi extra footnote fea
11742 \newdimen\bidi@columnwidth
11743 \def\bidi@floathook{%
11744   \bidi@columnwidth\columnwidth
11745 }
11746 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11747 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11748 \if@bidi@csundef{HLTR@@LTRfootnotetext}{-}{%
11749 \ifHy@hyperfootnotes
11750   \let\@H@@footnotetext\@footnotetext
11751   \let\@HLTR@@LTRfootnotetext@LTRfootnotetext
11752   \let\@HRTL@@RTLfootnotetext@RTLfootnotetext
11753   \let\@H@@mpfootnotetext\@mpfootnotetext
11754   \let\@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11755   \let\@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11756 \fi
11757 }%
11758 }%
11759 }
11760 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11761 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11762 \if@bidi@csundef{HLTR@@LTRfootnotetext}{-}{%
11763 \ifHy@hyperfootnotes
11764   \let\H@@footnotetext\@footnotetext
11765   \let\@footnotetext\@H@@footnotetext
11766   \let\HLTR@@LTRfootnotetext@LTRfootnotetext
11767   \let@LTRfootnotetext\@HLTR@@LTRfootnotetext
11768   \let\HRTL@@RTLfootnotetext@RTLfootnotetext
11769   \let@RTLfootnotetext\@HRTL@@RTLfootnotetext
11770   \let\H@@mpfootnotetext\@mpfootnotetext
11771   \let\@mpfootnotetext\@H@@mpfootnotetext
11772   \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11773   \let@mpLTRfootnotetext\@HLTR@@mpLTRfootnotetext
11774   \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11775   \let@mpRTLfootnotetext\@HRTL@@mpRTLfootnotetext
11776 \fi
11777 }%
11778 }%
11779 }
11780 \let\autofootnoterule\relax
11781 \let\rightfootnoterule\relax
11782 \let\leftfootnoterule\relax

```



```

11783 \let\textwidthfootnoterule\relax
11784 \let\LRfootnoterule\relax
11785 \def\footnoterule{\kern-3\p@
11786   \hrule \@width \columnwidth \kern 2.6\p@}
11787 \newcommand{\@preamnormalfmt}{%
11788   \parindent 1em%
11789   \noindent
11790 }
11791 \newcommand{\@normalfootfmt}[1]{%
11792   \@preamnormalfmt
11793   \footfootmark
11794   \rule{z@\footnotesep\ignorespaces}{\foottextfont #1}%
11795   \@finalstrut\strutbox
11796 }
11797 \newcommand{\@normalRTLfootfmt}[1]{%
11798   \@preamnormalfmt
11799   \RTLfootfootmark
11800   \rule{z@\footnotesep\ignorespaces}{\RTLfoottextfont #1}%
11801   \@finalstrut\strutbox
11802 }
11803 \newcommand{\@normalLTRfootfmt}[1]{%
11804   \@preamnormalfmt
11805   \LTRfootfootmark
11806   \rule{z@\footnotesep\ignorespaces}{\LTRfoottextfont #1}%
11807   \@finalstrut\strutbox
11808 }
11809 \renewcommand{\@footnotetext}[1]{%
11810   \insert\footins{%
11811     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11812     \def\baselinestretch{\m@m@footnote@spacing}%
11813     \reset@font
11814     \foottextfont
11815     \@preamfntext
11816     \hsize\columnwidth
11817     \protected@edef\@currentlabel{%
11818       \csname p@footnote\endcsname\@thefnmark}%
11819     \color@begingroup
11820       \@normalfootfmt{#1}%
11821     \color@endgroup}%
11822     \m@mmf@prepare}
11823 \renewcommand{\@RTLfootnotetext}[1]{%
11824   \insert\footins{%
11825     \@RTLtrue%
11826     \def\baselinestretch{\m@m@footnote@spacing}%
11827     \reset@font
11828     \RTLfoottextfont
11829     \@preamfntext
11830     \hsize\columnwidth
11831     \protected@edef\@currentlabel{%
11832       \csname p@footnote\endcsname\@thefnmark}%
11833     \color@begingroup
11834       \@normalRTLfootfmt{#1}%
11835     \color@endgroup}%
11836     \m@mmf@prepare}

```



```

11837 \renewcommand{\@LTRfootnotetext}[1]{%
11838   \insert\footins{%
11839     \@RTLfalse%
11840     \def\baselinestretch{\m@m@footnote@spacing}%
11841     \reset@font
11842     \LTRfoottextfont
11843     \@preamfntext
11844     \hsize\columnwidth
11845     \protected@edef\@currentlabel{%
11846       \csname p@footnote\endcsname\@thefnmark}%
11847     \color@begingroup
11848     \@normalLTRfootfmt{#1}%
11849     \color@endgroup}%
11850   \m@mmf@prepare}
11851 \renewcommand{\@mpfootnotetext}[1]{%
11852   \global\setbox\@mpfootins\vbox{%
11853     \unvbox\@mpfootins
11854     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11855     \def\baselinestretch{\m@m@footnote@spacing}%
11856     \reset@font%
11857     \foottextfont \hsize\columnwidth \@parboxrestore
11858     \protected@edef\@currentlabel{%
11859       \csname p@mpfootnote\endcsname\@thefnmark}%
11860     \color@begingroup
11861     \@normalfootfmt{#1}%
11862     \color@endgroup}}
11863 \renewcommand{\@mpLTRfootnotetext}[1]{%
11864   \global\setbox\@mpfootins\vbox{%
11865     \unvbox\@mpfootins
11866     \@RTLfalse
11867     \def\baselinestretch{\m@m@footnote@spacing}%
11868     \reset@font%
11869     \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11870     \protected@edef\@currentlabel{%
11871       \csname p@mpfootnote\endcsname\@thefnmark}%
11872     \color@begingroup
11873     \@normalLTRfootfmt{#1}%
11874     \color@endgroup}}
11875 \renewcommand{\@mpRTLfootnotetext}[1]{%
11876   \global\setbox\@mpfootins\vbox{%
11877     \unvbox\@mpfootins
11878     \@RTLtrue
11879     \def\baselinestretch{\m@m@footnote@spacing}%
11880     \reset@font%
11881     \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11882     \protected@edef\@currentlabel{%
11883       \csname p@mpfootnote\endcsname\@thefnmark}%
11884     \color@begingroup
11885     \@normalRTLfootfmt{#1}%
11886     \color@endgroup}}
11887 \let\m@mold@footnotetext\@footnotetext
11888 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11889 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11890 \let\m@mold@mpfootnotetext\@mpfootnotetext

```



```

11891 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11892 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11893 \bidi@ensure@newcommand{\normalfootnotes}{%
11894   \@bidi@before@Hy@hyperfootnotes
11895   \let\@footnotetext\m@mold@footnotetext
11896   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11897   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11898   \let\@mpfootnotetext\m@mold@mpfootnotetext
11899   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11900   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11901   \@bidi@after@Hy@hyperfootnotes
11902   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11903 }
11904 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11905 \bidi@ensure@newcommand*\setSingleSpace[1]{%
11906   \def\m@m@singlespace{#1}%
11907   \def\m@m@footnote@spacing{#1}%
11908   \def\m@m@float@spacing{#1} %
11909 }
11910 \setSingleSpace{1}
11911 \bidi@ensure@newcommand*\multiplefootnotemarker{3sp}
11912 \bidi@ensure@newcommand*\m@mmf@prepare{%
11913   \kern-\multiplefootnotemarker
11914   \kern\multiplefootnotemarker\relax}
11915 \bidi@ensure@newlength{\footmarkwidth}
11916 \bidi@ensure@newcommand*\footmarkstyle[1]{\def\footscript##1{#1}}
11917 \bidi@ensure@newcommand*\LTRfootmarkstyle[1]{\def\LTRfootscript##1{#1}}
11918 \bidi@ensure@newcommand*\RTLfootmarkstyle[1]{\def\RTLfootscript##1{#1}}
11919 \bidi@ensure@newcommand{\footfootmark}{%
11920   \ifdim\footmarkwidth < \z@
11921     \llap{\hb@xt@ -\footmarkwidth{%
11922       \hss\normalfont\footscript{\@thefnmark}}%
11923       \hspace*{-\footmarkwidth}}%
11924   \else
11925     \ifdim\footmarkwidth = \z@
11926       {\normalfont\footscript{\@thefnmark}}%
11927     \else
11928       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11929     \fi
11930   \fi}
11931 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11932   \ifdim\footmarkwidth < \z@
11933     \llap{\hb@xt@ -\footmarkwidth{%
11934       \hss\normalfont\LTRfootscript{\@thefnmark}}%
11935       \hspace*{-\footmarkwidth}}%
11936   \else
11937     \ifdim\footmarkwidth = \z@
11938       {\normalfont\LTRfootscript{\@thefnmark}}%
11939     \else
11940       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11941     \fi
11942   \fi}
11943 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11944   \ifdim\footmarkwidth < \z@

```



```

11945 \llap{\hb@xt@ -\footmarkwidth{%
11946 \hss\normalfont\RTLfootscript{\@thefnmark}}%
11947 \hspace*{-\footmarkwidth}}%
11948 \else
11949 \ifdim\footmarkwidth = \z@
11950 {\normalfont\RTLfootscript{\@thefnmark}}%
11951 \else
11952 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11953 \fi
11954 \fi}
11955 \footmarkstyle{\textsuperscript{#1}}
11956 \LTRfootmarkstyle{\textsuperscript{#1}}
11957 \RTLfootmarkstyle{\textsuperscript{#1}}
11958 \newcommand*\bidi@normal@footmarkwidth}{%
11959 \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11960 }
11961 \newcommand*\bidi@star@footmarkwidth}{%
11962 \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11963 }
11964 \bidi@normal@footmarkwidth
11965 \bidi@ensure@newcommand{\m@doextrafeet}{\extrafeetins}
11966 \bidi@ensure@newcommand*\extrafeetins}{%
11967 \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11968 \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11969 \bidi@joinfootnotes\@bidi@copyins@{\unvbox\@bidi@copyins@}%
11970 \extrafeetinshook}
11971 \bidi@ensure@newcommand{\extrafeetinshook}{%
11972 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11973 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11974 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11975 \bidi@ensure@newlength{\footinsdim}
11976 \setlength{\footinsdim}{8in} % standard for \dimen\footins
11977 \bidi@ensure@newcommand{\@preamfntext}{%
11978 \interlinepenalty\interfootnotelinepenalty
11979 \floatingpenalty \@MM
11980 \splittopskip=\footnotesep
11981 \splitmaxdepth=\dp\strutbox
11982 \@parboxrestore}
11983 \def\bidi@ifmulticol#1#2{\@tempswafalse
11984 \ifnum\col@number>\@ne
11985 \ifnum\count\footins>1999 \@tempwatrue \fi
11986 \fi
11987 \if@tempswa #1\else #2\fi
11988 }
11989 \def\bidi@joinfootnotes#1#2#3{%
11990 \ifvoid#1
11991 \else
11992 \@tempskipa\skip#1%
11993 \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
11994 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11995 \bidi@removexfootskip
11996 \ifvoid\footins
11997 \global\setbox\footins\vbox{#2#3}%
11998 \else

```




```

11999     \global\setbox\footins\vbox{%
12000         \unvbox\footins
12001         \bidi@footskip
12002         #2#3%
12003     }%
12004     \fi
12005     \fi
12006 }
12007 \def\bidi@joinmpfootnotes#1#2#3{%
12008     \ifvoid#1
12009     \else
12010         \@tempskipa\skip#1%
12011         \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12012         \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12013         \bidi@removexfootskip
12014         \ifvoid\@mpfootins
12015             \global\setbox\@mpfootins\vbox{#2#3}%
12016         \else
12017             \global\setbox\@mpfootins\vbox{%
12018                 \unvbox\@mpfootins
12019                 \bidi@footskip
12020                 #2#3%
12021             }%
12022         \fi
12023     \fi
12024 }
12025 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12026     \extrafeetminihook}
12027 \bidi@ensure@newcommand{\extrafeetendmini}{%
12028 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12029 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12030 \extrafeetendminihook}
12031 \bidi@ensure@newcommand{\extrafeetendminihook}{}
12032 \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12033 \def\endminipage{%
12034     \par
12035     \unskip
12036     \m@mdoextrafeetendmini
12037     \ifvoid\@mpfootins
12038     \else
12039         \vskip\skip\@mpfootins
12040         \normalcolor
12041         \footnoterule
12042         \unvbox\@mpfootins
12043     \fi
12044     \@minipagefalse
12045     \color@endgroup
12046     \egroup
12047     \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12048 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12049     \@namedef{@footstart#1}{%
12050         \leftskip=\z@
12051         \rightskip=\z@
12052         \parindent=\z@

```



```

12053 }%
12054 }
12055 \newinsert\footinsv@r
12056 \skip\footinsv@r\skip\footins
12057 \count\footinsv@r=1000 % no magnification
12058 \dimen\footinsv@r=\footinsdim
12059 \make@footstart{v@r}
12060 \newinsert\footinsv@l
12061 \skip\footinsv@l\skip\footins
12062 \count\footinsv@l=1000 % no magnification
12063 \dimen\footinsv@l=\footinsdim
12064 \make@footstart{v@l}
12065 \bidi@ensure@newcommand{\@footgroupv@r}{%}
12066 \newinsert\@mpfootinsv@r
12067 \skip\@mpfootinsv@r\skip\@mpfootins
12068 \newinsert\@mpfootinsv@l
12069 \skip\@mpfootinsv@l\skip\@mpfootins
12070 \bidi@ensure@newcommand{\mp@footgroupv@r}{%}
12071 \newcount\m@m@k \newdimen\m@m@h
12072 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12073 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12074 \valign{##\vfill\cr\m@m@dosplits}\endR}}
12075 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12076 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12077 \valign{##\vfill\cr\m@m@dosplits}\endL}}
12078 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
12079 \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
12080 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
12081 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12082 \setbox2 \vsplit0 to \dimen0
12083 \unvbox2 }
12084 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12085 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12086 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12087 \@bidi@before@Hy@hyperfootnotes
12088 \let\@footnotetext\@twocolfootnotetext
12089 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12090 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12091 \dimen\footinsv@r=2\footinsdim
12092 \count\footinsv@r=500\relax
12093 \make@twocol@footgroup{v@r}%
12094 \let\@footgroupv@r\@twocol@footgroupv@r
12095 \dimen\footinsv@l=2\footinsdim
12096 \count\footinsv@l=500\relax
12097 \bidi@make@twocol@LTRfootgroup{v@l}%
12098 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12099 \let\@mpfootnotetext\@mptwocolfootnotetext
12100 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12101 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12102 \@bidi@after@Hy@hyperfootnotes
12103 \make@mptwocol@footgroup{v@r}%
12104 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12105 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12106 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l

```



```

12107 \@ifstar\ bidi@star@footmarkwidth\ bidi@normal@footmarkwidth
12108 }
12109 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12110 \if@RTL@footnote
12111 \footinsv@r
12112 \else
12113 \footinsv@l
12114 \fi
12115 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12116 \def\baselinestretch{\m@m@footnote@spacing}%
12117 \reset@font\foottextfont
12118 \@preamfntext
12119 \protected@edef\@currentlabel{%
12120 \csname p@footnote\endcsname\@thefnmark}%
12121 \color@begingroup
12122 \@twocolfootfmt{#1}%
12123 \color@endgroup}%
12124 \m@mmf@prepare}
12125 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12126 \def\baselinestretch{\m@m@footnote@spacing}%
12127 \reset@font\LTRfoottextfont
12128 \@preamfntext
12129 \protected@edef\@currentlabel{%
12130 \csname p@footnote\endcsname\@thefnmark}%
12131 \color@begingroup
12132 \@twocolLTRfootfmt{#1}%
12133 \color@endgroup}%
12134 \m@mmf@prepare}
12135 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12136 \def\baselinestretch{\m@m@footnote@spacing}%
12137 \reset@font\RTLfoottextfont
12138 \@preamfntext
12139 \protected@edef\@currentlabel{%
12140 \csname p@footnote\endcsname\@thefnmark}%
12141 \color@begingroup
12142 \@twocolRTLfootfmt{#1}%
12143 \color@endgroup}%
12144 \m@mmf@prepare}
12145 \bidi@ensure@newcommand{\@preamtwofmt}{%
12146 \hsize .45\hsize
12147 \parindent=\z@
12148 \tolerance=5000\relax
12149 \leavevmode}
12150 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12151 \@preamtwofmt
12152 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12153 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12154 \@preamtwofmt
12155 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12156 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12157 \@preamtwofmt
12158 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12159 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12160 \global\setbox

```



```

12161 \if@RTL@footnote
12162 \@mpfootinsv@r
12163 \else
12164 \@mpfootinsv@l
12165 \fi
12166 \vbox{%
12167 \unvbox
12168 \if@RTL@footnote
12169 \@mpfootinsv@r
12170 \else
12171 \@mpfootinsv@l
12172 \fi
12173 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12174 \def\baselinestretch{\m@m@footnote@spacing}%
12175 \reset@font\foottextfont
12176 \hsize\columnwidth \@parboxrestore
12177 \protected@edef\@currentlabel{%
12178 \csname p@mpfootnote\endcsname\@thefnmark}%
12179 \color@begingroup
12180 \@twocolfootfmt{#1}%
12181 \color@endgroup}%
12182 \m@m@prepare}
12183 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12184 \global\setbox\@mpfootinsv@l\vbox{%
12185 \unvbox\@mpfootinsv@l
12186 \@RTLfalse
12187 \def\baselinestretch{\m@m@footnote@spacing}%
12188 \reset@font\LTRfoottextfont
12189 \hsize\columnwidth \@parboxrestore
12190 \protected@edef\@currentlabel{%
12191 \csname p@mpfootnote\endcsname\@thefnmark}%
12192 \color@begingroup
12193 \@twocolLTRfootfmt{#1}%
12194 \color@endgroup}%
12195 \m@m@prepare}
12196 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12197 \global\setbox\@mpfootinsv@r\vbox{%
12198 \unvbox\@mpfootinsv@r
12199 \@RTLtrue
12200 \def\baselinestretch{\m@m@footnote@spacing}%
12201 \reset@font\RTLfoottextfont
12202 \hsize\columnwidth \@parboxrestore
12203 \protected@edef\@currentlabel{%
12204 \csname p@mpfootnote\endcsname\@thefnmark}%
12205 \color@begingroup
12206 \@twocolRTLfootfmt{#1}%
12207 \color@endgroup}%
12208 \m@m@prepare}
12209 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12210 \@namedef{twocol@footgroup#1}{%
12211 \def\baselinestretch{\m@m@footnote@spacing}%
12212 \hsize\bidi@columnwidth
12213 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12214 \m@m@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}

```



```

12215 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12216   \@namedef{@twocol@LTRfootgroup#1}{%
12217     \def\baselinestretch{\m@m@footnote@spacing}%
12218     \hsize\bidi@columnwidth
12219     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12220     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12221 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12222   \@namedef{@mptwocol@footgroup#1}{%
12223     \def\baselinestretch{\m@m@footnote@spacing}%
12224     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12225     \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12226 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12227   \@namedef{@mptwocol@LTRfootgroup#1}{%
12228     \def\baselinestretch{\m@m@footnote@spacing}%
12229     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12230     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12231 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12232   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12233   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12234   \@bidi@before@Hy@hyperfootnotes
12235   \let\@footnotetext\@threecolfootnotetext
12236   \let\@LTRfootnotetext\@threecolLTRfootnotetext
12237   \let\@RTLfootnotetext\@threecolRTLfootnotetext
12238   \dimen\footinsv@r=3\footinsdim
12239   \count\footinsv@r=333\relax
12240   \m@make@threecol@footgroup{v@r}%
12241   \let\@footgroupv@r\@threecol@footgroupv@r
12242   \dimen\footinsv@l=3\footinsdim
12243   \count\footinsv@l=333\relax
12244   \bidi@make@threecol@LTRfootgroup{v@l}%
12245   \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12246   \let\@mpfootnotetext\@mpthreecolfootnotetext
12247   \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12248   \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12249   \@bidi@after@Hy@hyperfootnotes
12250   \m@make@mpthreecol@footgroup{v@r}%
12251   \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12252   \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12253   \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12254   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12255 }
12256 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12257   \if@RTL@footnote
12258     \footinsv@r
12259   \else
12260     \footinsv@l
12261   \fi
12262   {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12263   \def\baselinestretch{\m@m@footnote@spacing}%
12264   \reset@font\foottextfont
12265   \@preamfntext
12266   \protected@edef\@currentlabel{%
12267     \csname p@footnote\endcsname\@thefnmark}%
12268   \color@begingroup

```



```

12269     \@threecolfootfmt{#1}%
12270     \color@endgroup}\m@mmf@prepare}
12271 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@1{\@RTLfalse%
12272   \def\baselinestretch{\m@m@footnote@spacing}%
12273   \reset@font\LTRfoottextfont
12274   \@preamfntext
12275   \protected@edef\@currentlabel{%
12276     \csname p@footnote\endcsname\@thefnmark}%
12277   \color@begingroup
12278     \@threecolLTRfootfmt{#1}%
12279     \color@endgroup}\m@mmf@prepare}
12280 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12281   \def\baselinestretch{\m@m@footnote@spacing}%
12282   \reset@font\RTLfoottextfont
12283   \@preamfntext
12284   \protected@edef\@currentlabel{%
12285     \csname p@footnote\endcsname\@thefnmark}%
12286   \color@begingroup
12287     \@threecolRTLfootfmt{#1}%
12288     \color@endgroup}\m@mmf@prepare}
12289 \bidi@ensure@newcommand{\@preamthreefmt}{%
12290   \hspace .3\hspace
12291   \parindent=\z@
12292   \tolerance=5000\relax
12293   \leavevmode}
12294 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12295   \@preamthreefmt
12296   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12297 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12298   \@preamthreefmt
12299   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12300 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12301   \@preamthreefmt
12302   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12303 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12304   \global\setbox
12305     \if@RTL@footnote
12306     \@mpfootinsv@r
12307   \else
12308     \@mpfootinsv@l
12309   \fi
12310   \vbox{%
12311     \unvbox
12312     \if@RTL@footnote
12313     \@mpfootinsv@r
12314   \else
12315     \@mpfootinsv@l
12316   \fi
12317   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12318   \def\baselinestretch{\m@m@footnote@spacing}%
12319   \reset@font\foottextfont
12320   \hspace\columnwidth \@parboxrestore
12321   \protected@edef\@currentlabel{%
12322     \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

12323 \color@begingroup
12324 \@threecolfootfmt{#1}%
12325 \color@endgroup}\m@mmf@prepare}
12326 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12327 \global\setbox\@mpfootinsv@l\vbox{%
12328 \unvbox\@mpfootinsv@l
12329 \@RTLfalse
12330 \def\baselinestretch{\m@m@footnote@spacing}%
12331 \reset@font\LTRfoottextfont
12332 \hsize\columnwidth \@parboxrestore
12333 \protected@edef\@currentlabel{%
12334 \csname p@mpfootnote\endcsname\@thefnmark}%
12335 \color@begingroup
12336 \@threecolLTRfootfmt{#1}%
12337 \color@endgroup}\m@mmf@prepare}
12338 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12339 \global\setbox\@mpfootinsv@r\vbox{%
12340 \unvbox\@mpfootinsv@r
12341 \@RTLtrue
12342 \def\baselinestretch{\m@m@footnote@spacing}%
12343 \reset@font\RTLfoottextfont
12344 \hsize\columnwidth \@parboxrestore
12345 \protected@edef\@currentlabel{%
12346 \csname p@mpfootnote\endcsname\@thefnmark}%
12347 \color@begingroup
12348 \@threecolRTLfootfmt{#1}%
12349 \color@endgroup}\m@mmf@prepare}
12350 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12351 \@namedef{@threecol@footgroup#1}{%
12352 \def\baselinestretch{\m@m@footnote@spacing}%
12353 \hsize\bidi@columnwidth
12354 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12355 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@}{\splittopskip}}}}
12356 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12357 \@namedef{@threecol@LTRfootgroup#1}{%
12358 \def\baselinestretch{\m@m@footnote@spacing}%
12359 \hsize\bidi@columnwidth
12360 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12361 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@}{\splittopskip}}}}
12362 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12363 \@namedef{@mpthreecol@footgroup#1}{%
12364 \def\baselinestretch{\m@m@footnote@spacing}%
12365 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12366 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\thr@}{\splittopskip}}}}
12367 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12368 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12369 \def\baselinestretch{\m@m@footnote@spacing}%
12370 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12371 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\thr@}{\splittopskip}}}}
12372 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12373 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12374 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12375 \@bidi@before@Hy@hyperfootnotes
12376 \let\@footnotetext\@fourcolfootnotetext

```



```

12377 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12378 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12379 \dimen\footinsv@r=4\footinsdim
12380 \count\footinsv@r=250\relax
12381 \m@make@fourcol@footgroup{v@r}%
12382 \let\@footgroupv@r\@fourcol@footgroupv@r
12383 \dimen\footinsv@l=4\footinsdim
12384 \count\footinsv@l=250\relax
12385 \bidi@make@fourcol@LTRfootgroup{v@l}%
12386 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12387 \let\@mpfootnotetext\@mpfourcolfootnotetext
12388 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12389 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12390 \@bidi@after@Hy@hyperfootnotes
12391 \m@make@mpfourcol@footgroup{v@r}%
12392 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12393 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12394 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12395 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12396 }
12397 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12398 \if@RTL@footnote
12399 \footinsv@r
12400 \else
12401 \footinsv@l
12402 \fi
12403 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12404 \def\baselinestretch{\m@m@footnote@spacing}%
12405 \reset@font\foottextfont
12406 \@preamfntext
12407 \protected@edef\@currentlabel{%
12408 \csname p@footnote\endcsname\@thefnmark}%
12409 \color@begingroup
12410 \@fourcolfootfmt{#1}%
12411 \color@endgroup}%
12412 \m@mmf@prepare}
12413 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12414 \def\baselinestretch{\m@m@footnote@spacing}%
12415 \reset@font\LTRfoottextfont
12416 \@preamfntext
12417 \protected@edef\@currentlabel{%
12418 \csname p@footnote\endcsname\@thefnmark}%
12419 \color@begingroup
12420 \@fourcolLTRfootfmt{#1}%
12421 \color@endgroup}%
12422 \m@mmf@prepare}
12423 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12424 \def\baselinestretch{\m@m@footnote@spacing}%
12425 \reset@font\RTLfoottextfont
12426 \@preamfntext
12427 \protected@edef\@currentlabel{%
12428 \csname p@footnote\endcsname\@thefnmark}%
12429 \color@begingroup
12430 \@fourcolRTLfootfmt{#1}%

```




```

12431 \color@endgroup}%
12432 \m@mmf@prepare}
12433 \bidi@ensure@newcommand{\@preamfourfmt}{%
12434 \hspace .25\hspace
12435 \parindent=\z@
12436 \tolerance=5000\relax
12437 \leavevmode}
12438 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12439 \@preamfourfmt
12440 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12441 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12442 \@preamfourfmt
12443 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12444 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12445 \@preamfourfmt
12446 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12447 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12448 \global\setbox
12449 \if@RTL@footnote
12450 \mpfootinsv@r
12451 \else
12452 \mpfootinsv@l
12453 \fi
12454 \vbox{%
12455 \unvbox
12456 \if@RTL@footnote
12457 \mpfootinsv@r
12458 \else
12459 \mpfootinsv@l
12460 \fi
12461 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12462 \def\baselinestretch{\m@mm@footnote@spacing}%
12463 \reset@font\foottextfont
12464 \hspace\columnwidth \@parboxrestore
12465 \protected@edef\@currentlabel{%
12466 \csname p@mpfootnote\endcsname\@thefnmark}%
12467 \color@begingroup
12468 \@fourcolfootfmt{#1}%
12469 \color@endgroup}%
12470 \m@mmf@prepare}
12471 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12472 \global\setbox\mpfootinsv@l\vbox{%
12473 \unvbox\mpfootinsv@l
12474 \@RTLfalse
12475 \def\baselinestretch{\m@mm@footnote@spacing}%
12476 \reset@font\LTRfoottextfont
12477 \hspace\columnwidth \@parboxrestore
12478 \protected@edef\@currentlabel{%
12479 \csname p@mpfootnote\endcsname\@thefnmark}%
12480 \color@begingroup
12481 \@fourcolLTRfootfmt{#1}%
12482 \color@endgroup}%
12483 \m@mmf@prepare}
12484 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%

```



```

12485 \global\setbox\@mpfootinsv@r\vbox{%
12486 \unvbox\@mpfootinsv@r
12487 \@RTLtrue
12488 \def\baselinestretch{\m@m@footnote@spacing}%
12489 \reset@font\RTLfoottextfont
12490 \hsize\columnwidth \@parboxrestore
12491 \protected@edef\@currentlabel{%
12492 \csname p@mpfootnote\endcsname\@thefnmark}%
12493 \color@begingroup
12494 \@fourcolRTLfootfmt{#1}%
12495 \color@endgroup}%
12496 \m@m@prepare}
12497 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
12498 \@namedef{fourcol@footgroup#1}{%
12499 \def\baselinestretch{\m@m@footnote@spacing}%
12500 \hsize\bidi@columnwidth
12501 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12502 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}
12503 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
12504 \@namedef{fourcol@LTRfootgroup#1}{%
12505 \def\baselinestretch{\m@m@footnote@spacing}%
12506 \hsize\bidi@columnwidth
12507 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12508 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}
12509 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
12510 \@namedef{mpfourcol@footgroup#1}{%
12511 \def\baselinestretch{\m@m@footnote@spacing}%
12512 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12513 \m@mrigidbalance{\@nameuse{mpfootins#1}}{4}{\splittopskip}}
12514 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
12515 \@namedef{mpfourcol@LTRfootgroup#1}{%
12516 \def\baselinestretch{\m@m@footnote@spacing}%
12517 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12518 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{4}{\splittopskip}}
12519 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
12520 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12521 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12522 \@bidi@before@Hy@hyperfootnotes
12523 \let\@footnotetext\@fivecolfootnotetext
12524 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
12525 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
12526 \dimen\footinsv@r=5\footinsdim
12527 \count\footinsv@r=200\relax
12528 \m@make@fivecol@footgroup{v@r}%
12529 \let\@footgroupv@r\@fivecol@footgroupv@r
12530 \dimen\footinsv@l=5\footinsdim
12531 \count\footinsv@l=200\relax
12532 \bidi@make@fivecol@LTRfootgroup{v@l}%
12533 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
12534 \let\@mpfootnotetext\@mpfivecolfootnotetext
12535 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
12536 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
12537 \@bidi@after@Hy@hyperfootnotes
12538 \m@make@mpfivecol@footgroup{v@r}%

```



```

12539 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
12540 \bidi@make@mpfivecol@LTRfootgroup{v@1}%
12541 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
12542 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12543 }
12544 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
12545 \if@RTL@footnote
12546 \footinsv@r
12547 \else
12548 \footinsv@l
12549 \fi
12550 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12551 \def\baselinestretch{\m@m@footnote@spacing}%
12552 \reset@font\foottextfont
12553 \@preamfntext
12554 \protected@edef\@currentlabel{%
12555 \csname p@footnote\endcsname\@thefnmark}%
12556 \color@begingroup
12557 \@fivecolfootfmt{#1}%
12558 \color@endgroup}%
12559 \m@mmf@prepare}
12560 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12561 \def\baselinestretch{\m@m@footnote@spacing}%
12562 \reset@font\LTRfoottextfont
12563 \@preamfntext
12564 \protected@edef\@currentlabel{%
12565 \csname p@footnote\endcsname\@thefnmark}%
12566 \color@begingroup
12567 \@fivecolLTRfootfmt{#1}%
12568 \color@endgroup}%
12569 \m@mmf@prepare}
12570 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12571 \def\baselinestretch{\m@m@footnote@spacing}%
12572 \reset@font\RTLfoottextfont
12573 \@preamfntext
12574 \protected@edef\@currentlabel{%
12575 \csname p@footnote\endcsname\@thefnmark}%
12576 \color@begingroup
12577 \@fivecolRTLfootfmt{#1}%
12578 \color@endgroup}%
12579 \m@mmf@prepare}
12580 \bidi@ensure@newcommand{\@preamfivefmt}{%
12581 \hsize .2\hsize
12582 \parindent=\z@
12583 \tolerance=5000\relax
12584 \leavevmode}
12585 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
12586 \@preamfivefmt
12587 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12588 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
12589 \@preamfivefmt
12590 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12591 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
12592 \@preamfivefmt

```



```

12593   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12594 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
12595   \global\setbox
12596     \if@RTL@footnote
12597     \@mpfootinsv@r
12598   \else
12599     \@mpfootinsv@l
12600   \fi
12601   \vbox{%
12602     \unvbox
12603     \if@RTL@footnote
12604     \@mpfootinsv@r
12605   \else
12606     \@mpfootinsv@l
12607   \fi
12608   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12609   \def\baselinestretch{\m@m@footnote@spacing}%
12610   \reset@font\foottextfont
12611   \hsize\columnwidth \@parboxrestore
12612   \protected@edef\@currentlabel{%
12613     \csname p@mpfootnote\endcsname\@thefnmark}%
12614   \color@begingroup
12615     \@fivecolfootfmt{#1}%
12616   \color@endgroup}%
12617   \m@m@mmf@prepare}
12618 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
12619   \global\setbox\@mpfootinsv@l\vbox{%
12620     \unvbox\@mpfootinsv@l
12621     \@RTLfalse
12622     \def\baselinestretch{\m@m@footnote@spacing}%
12623     \reset@font\LTRfoottextfont
12624     \hsize\columnwidth \@parboxrestore
12625     \protected@edef\@currentlabel{%
12626       \csname p@mpfootnote\endcsname\@thefnmark}%
12627     \color@begingroup
12628       \@fivecolLTRfootfmt{#1}%
12629     \color@endgroup}%
12630     \m@m@mmf@prepare}
12631 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
12632   \global\setbox\@mpfootinsv@r\vbox{%
12633     \unvbox\@mpfootinsv@r
12634     \@RTLtrue
12635     \def\baselinestretch{\m@m@footnote@spacing}%
12636     \reset@font\RTLfoottextfont
12637     \hsize\columnwidth \@parboxrestore
12638     \protected@edef\@currentlabel{%
12639       \csname p@mpfootnote\endcsname\@thefnmark}%
12640     \color@begingroup
12641       \@fivecolRTLfootfmt{#1}%
12642     \color@endgroup}%
12643     \m@m@mmf@prepare}
12644 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
12645   \@namedef{#1}{%
12646     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12647 \hsize\ bidi@columnwidth
12648 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12649 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}
12650 \newcommand{\ bidi@make@fivecol@LTRfootgroup}[1]{%
12651 \@namedef{@fivecol@LTRfootgroup#1}{%
12652 \def\baselinestretch{\m@m@footnote@spacing}%
12653 \hsize\ bidi@columnwidth
12654 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12655 \ bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}
12656 \ bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
12657 \@namedef{@mpfivecol@footgroup#1}{%
12658 \def\baselinestretch{\m@m@footnote@spacing}%
12659 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12660 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}
12661 \newcommand{\ bidi@make@mpfivecol@LTRfootgroup}[1]{%
12662 \@namedef{@mpfivecol@LTRfootgroup#1}{%
12663 \def\baselinestretch{\m@m@footnote@spacing}%
12664 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12665 \ bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}
12666 \ bidi@ensure@newcommand{\@sixcolumnfootnotes}{%
12667 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12668 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12669 \@bidi@before@Hy@hyperfootnotes
12670 \let@footnotetext\@sixcolfootnotetext
12671 \let@LTRfootnotetext\@sixcolLTRfootnotetext
12672 \let@RTLfootnotetext\@sixcolRTLfootnotetext
12673 \dimen\footinsv@r=6\footinsdim
12674 \count\footinsv@r=166\relax
12675 \m@make@sixcol@footgroup{v@r}%
12676 \let@footgroupv@r\@sixcol@footgroupv@r
12677 \dimen\footinsv@l=6\footinsdim
12678 \count\footinsv@l=166\relax
12679 \ bidi@make@sixcol@LTRfootgroup{v@l}%
12680 \let@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
12681 \let@mpfootnotetext\@mpsixcolfootnotetext
12682 \let@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
12683 \let@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
12684 \@bidi@after@Hy@hyperfootnotes
12685 \m@make@mpsixcol@footgroup{v@r}%
12686 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
12687 \ bidi@make@mpsixcol@LTRfootgroup{v@l}%
12688 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
12689 \@ifstar\ bidi@star@footmarkwidth\ bidi@normal@footmarkwidth
12690 }
12691 \ bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
12692 \if@RTL@footnote
12693 \footinsv@r
12694 \else
12695 \footinsv@l
12696 \fi
12697 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12698 \def\baselinestretch{\m@m@footnote@spacing}%
12699 \reset@font\foottextfont
12700 \@preamfntext

```



```

12701 \protected@edef\@currentlabel{%
12702   \csname p@footnote\endcsname\@thefnmark}%
12703 \color@begingroup
12704   \@sixcolfootfmt{#1}%
12705 \color@endgroup}%
12706 \m@mmf@prepare}
12707 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12708   \def\baselinestretch{\m@m@footnote@spacing}%
12709   \reset@font\LTRfoottextfont
12710   \@preamfntext
12711   \protected@edef\@currentlabel{%
12712     \csname p@footnote\endcsname\@thefnmark}%
12713   \color@begingroup
12714     \@sixcolLTRfootfmt{#1}%
12715   \color@endgroup}%
12716   \m@mmf@prepare}
12717 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12718   \def\baselinestretch{\m@m@footnote@spacing}%
12719   \reset@font\RTLfoottextfont
12720   \@preamfntext
12721   \protected@edef\@currentlabel{%
12722     \csname p@footnote\endcsname\@thefnmark}%
12723   \color@begingroup
12724     \@sixcolRTLfootfmt{#1}%
12725   \color@endgroup}%
12726   \m@mmf@prepare}
12727 \bidi@ensure@newcommand{\@preamsixfmt}{%
12728   \hspace .16\hspace
12729   \parindent=\z@
12730   \tolerance=5000\relax
12731   \leavevmode}
12732 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
12733   \@preamsixfmt
12734   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12735 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
12736   \@preamsixfmt
12737   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12738 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12739   \@preamsixfmt
12740   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12741 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
12742   \global\setbox
12743     \if@RTL@footnote
12744     \@mpfootinsv@r
12745   \else
12746     \@mpfootinsv@l
12747   \fi
12748   \vbox{%
12749     \unvbox
12750     \if@RTL@footnote
12751     \@mpfootinsv@r
12752   \else
12753     \@mpfootinsv@l
12754   \fi

```



```

12755 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12756 \def\baselinestretch{\m@m@footnote@spacing}%
12757 \reset@font\foottextfont
12758 \hsize\columnwidth \@parboxrestore
12759 \protected@edef\@currentlabel{%
12760 \csname p@mpfootnote\endcsname\@thefnmark}%
12761 \color@begingroup
12762 \@sixcolfootfmt{#1}%
12763 \color@endgroup}%
12764 \m@mmf@prepare}
12765 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
12766 \global\setbox\@mpfootinsv@l\vbox{%
12767 \unvbox\@mpfootinsv@l
12768 \@RTLfalse
12769 \def\baselinestretch{\m@m@footnote@spacing}%
12770 \reset@font\LTRfoottextfont
12771 \hsize\columnwidth \@parboxrestore
12772 \protected@edef\@currentlabel{%
12773 \csname p@mpfootnote\endcsname\@thefnmark}%
12774 \color@begingroup
12775 \@sixcolLTRfootfmt{#1}%
12776 \color@endgroup}%
12777 \m@mmf@prepare}
12778 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
12779 \global\setbox\@mpfootinsv@r\vbox{%
12780 \unvbox\@mpfootinsv@r
12781 \@RTLtrue
12782 \def\baselinestretch{\m@m@footnote@spacing}%
12783 \reset@font\RTLfoottextfont
12784 \hsize\columnwidth \@parboxrestore
12785 \protected@edef\@currentlabel{%
12786 \csname p@mpfootnote\endcsname\@thefnmark}%
12787 \color@begingroup
12788 \@sixcolRTLfootfmt{#1}%
12789 \color@endgroup}%
12790 \m@mmf@prepare}
12791 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12792 \@namedef{@sixcol@footgroup#1}{%
12793 \def\baselinestretch{\m@m@footnote@spacing}%
12794 \hsize\bidi@columnwidth
12795 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12796 \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}
12797 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
12798 \@namedef{@sixcol@LTRfootgroup#1}{%
12799 \def\baselinestretch{\m@m@footnote@spacing}%
12800 \hsize\bidi@columnwidth
12801 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12802 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}
12803 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
12804 \@namedef{@mpsixcol@footgroup#1}{%
12805 \def\baselinestretch{\m@m@footnote@spacing}%
12806 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12807 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}
12808 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%

```




```

12809 \@namedef{@mpsixcol@LTRfootgroup#1}{%
12810 \def\baselinestretch{\m@m@footnote@spacing}%
12811 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12812 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}
12813 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12814 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12815 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12816 \@bidi@before@Hy@hyperfootnotes
12817 \let\@footnotetext\@sevendcolfootnotetext
12818 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
12819 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
12820 \dimen\footinsv@r=7\footinsdim
12821 \count\footinsv@r=142\relax
12822 \m@make@sevendcol@footgroup{v@r}%
12823 \let\@footgroupv@r\@sevendcol@footgroupv@r
12824 \dimen\footinsv@l=7\footinsdim
12825 \count\footinsv@l=142\relax
12826 \bidi@make@sevendcol@LTRfootgroup{v@l}%
12827 \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
12828 \let\@mpfootnotetext\@mpsevendcolfootnotetext
12829 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
12830 \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
12831 \@bidi@after@Hy@hyperfootnotes
12832 \m@make@mpsevendcol@footgroup{v@r}%
12833 \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r
12834 \bidi@make@mpsevendcol@LTRfootgroup{v@l}%
12835 \let\mp@LTRfootgroupv@l\@mpsevendcol@LTRfootgroupv@l
12836 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12837 }
12838 \bidi@ensure@newcommand{\@sevendcolfootnotetext}[1]{\insert
12839 \if@RTL@footnote
12840 \footinsv@r
12841 \else
12842 \footinsv@l
12843 \fi
12844 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12845 \def\baselinestretch{\m@m@footnote@spacing}%
12846 \reset@font\foottextfont
12847 \@preamfntext
12848 \protected@edef\@currentlabel{%
12849 \csname p@footnote\endcsname\@thefnmark}%
12850 \color@begingroup
12851 \@sevendcolfootfmt{#1}%
12852 \color@endgroup}%
12853 \m@mmf@prepare}
12854 \bidi@ensure@newcommand{\@sevendcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12855 \def\baselinestretch{\m@m@footnote@spacing}%
12856 \reset@font\LTRfoottextfont
12857 \@preamfntext
12858 \protected@edef\@currentlabel{%
12859 \csname p@footnote\endcsname\@thefnmark}%
12860 \color@begingroup
12861 \@sevendcolLTRfootfmt{#1}%
12862 \color@endgroup}%

```




```

12863 \m@mmf@prepare}
12864 \bidi@ensure@newcommand{\@sevendcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12865 \def\baselinestretch{\m@m@footnote@spacing}%
12866 \reset@font\RTLfoottextfont
12867 \@preamfntext
12868 \protected@edef\@currentlabel{%
12869 \csname p@footnote\endcsname\@thefnmark}%
12870 \color@begingroup
12871 \@sevendcolRTLfootfmt{#1}%
12872 \color@endgroup}%
12873 \m@mmf@prepare}
12874 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12875 \hsize .142\hsize
12876 \parindent=\z@
12877 \tolerance=5000\relax
12878 \leavevmode}
12879 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
12880 \@preamsevenfmt
12881 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12882 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
12883 \@preamsevenfmt
12884 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12885 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
12886 \@preamsevenfmt
12887 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12888 \bidi@ensure@newcommand{\@mpsevendcolfootnotetext}[1]{%
12889 \global\setbox
12890 \if@RTL@footnote
12891 \@mpfootinsv@r
12892 \else
12893 \@mpfootinsv@l
12894 \fi
12895 \vbox{%
12896 \unvbox
12897 \if@RTL@footnote
12898 \@mpfootinsv@r
12899 \else
12900 \@mpfootinsv@l
12901 \fi
12902 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12903 \def\baselinestretch{\m@m@footnote@spacing}%
12904 \reset@font\foottextfont
12905 \hsize\columnwidth \@parboxrestore
12906 \protected@edef\@currentlabel{%
12907 \csname p@mpfootnote\endcsname\@thefnmark}%
12908 \color@begingroup
12909 \@sevendcolfootfmt{#1}%
12910 \color@endgroup}%
12911 \m@mmf@prepare}
12912 \bidi@ensure@newcommand{\@mpsevendcolLTRfootnotetext}[1]{%
12913 \global\setbox\@mpfootinsv@l\vbox{%
12914 \unvbox\@mpfootinsv@l
12915 \@RTLfalse
12916 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12917 \reset@font\LTRfoottextfont
12918 \hsize\columnwidth \@parboxrestore
12919 \protected@edef\@currentlabel{%
12920 \csname p@mpfootnote\endcsname\@thefnmark}%
12921 \color@begingroup
12922 \@sevenscolLTRfootfmt{#1}%
12923 \color@endgroup}%
12924 \m@mmf@prepare}
12925 \bidi@ensure@newcommand{\@mpsevenscolRTLfootnotetext}[1]{%
12926 \global\setbox\@mpfootinsv@r\vbox{%
12927 \unvbox\@mpfootinsv@r
12928 \@RTLtrue
12929 \def\baselinestretch{\m@m@footnote@spacing}%
12930 \reset@font\RTLfoottextfont
12931 \hsize\columnwidth \@parboxrestore
12932 \protected@edef\@currentlabel{%
12933 \csname p@mpfootnote\endcsname\@thefnmark}%
12934 \color@begingroup
12935 \@sevenscolRTLfootfmt{#1}%
12936 \color@endgroup}%
12937 \m@mmf@prepare}
12938 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
12939 \@namedef{@sevenscol@footgroup#1}{%
12940 \def\baselinestretch{\m@m@footnote@spacing}%
12941 \hsize\bidi@columnwidth
12942 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12943 \m@Mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
12944 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
12945 \@namedef{@sevenscol@LTRfootgroup#1}{%
12946 \def\baselinestretch{\m@m@footnote@spacing}%
12947 \hsize\bidi@columnwidth
12948 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12949 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
12950 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
12951 \@namedef{@mpsevenscol@footgroup#1}{%
12952 \def\baselinestretch{\m@m@footnote@spacing}%
12953 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12954 \m@Mrigidbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}}
12955 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
12956 \@namedef{@mpsevenscol@LTRfootgroup#1}{%
12957 \def\baselinestretch{\m@m@footnote@spacing}%
12958 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12959 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}}
12960 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12961 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12962 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12963 \@bidi@before@Hy@hyperfootnotes
12964 \let\@footnotetext\@eightcolfootnotetext
12965 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12966 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12967 \dimen\footinsv@r=8\footinsdim
12968 \count\footinsv@r=125\relax
12969 \m@make@eightcol@footgroup{v@r}%
12970 \let\@footgroupv@r\@eightcol@footgroupv@r

```



```

12971 \dimen\footinsv@1=8\footinsdim
12972 \count\footinsv@1=125\relax
12973 \bidi@make@eightcol@LTRfootgroup{v@1}%
12974 \let\@LTRfootgroupv@1\@eightcol@LTRfootgroupv@1
12975 \let\@mpfootnotetext\@mpeightcolfootnotetext
12976 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12977 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12978 \@bidi@after@Hy@hyperfootnotes
12979 \m@make@mpeightcol@footgroup{v@r}%
12980 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12981 \bidi@make@mpeightcol@LTRfootgroup{v@1}%
12982 \let\mp@LTRfootgroupv@1\@mpeightcol@LTRfootgroupv@1
12983 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12984 }
12985 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
12986 \if@RTL@footnote
12987 \footinsv@r
12988 \else
12989 \footinsv@l
12990 \fi
12991 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12992 \def\baselinestretch{\m@m@footnote@spacing}%
12993 \reset@font\foottextfont
12994 \@preamfntext
12995 \protected@edef\@currentlabel{%
12996 \csname p@footnote\endcsname\@thefnmark}%
12997 \color@begingroup
12998 \@eightcolfootfmt{#1}%
12999 \color@endgroup}%
13000 \m@m@prepare}
13001 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@1{\@RTLfalse%
13002 \def\baselinestretch{\m@m@footnote@spacing}%
13003 \reset@font\LTRfoottextfont
13004 \@preamfntext
13005 \protected@edef\@currentlabel{%
13006 \csname p@footnote\endcsname\@thefnmark}%
13007 \color@begingroup
13008 \@eightcolLTRfootfmt{#1}%
13009 \color@endgroup}%
13010 \m@m@prepare}
13011 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13012 \def\baselinestretch{\m@m@footnote@spacing}%
13013 \reset@font\RTLfoottextfont
13014 \@preamfntext
13015 \protected@edef\@currentlabel{%
13016 \csname p@footnote\endcsname\@thefnmark}%
13017 \color@begingroup
13018 \@eightcolRTLfootfmt{#1}%
13019 \color@endgroup}%
13020 \m@m@prepare}
13021 \bidi@ensure@newcommand{\@preameightfmt}{%
13022 \hsize .125\hsize
13023 \parindent=\z@
13024 \tolerance=5000\relax

```



```

13025 \leavevmode}
13026 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
13027 \@preameightfmt
13028 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13029 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
13030 \@preameightfmt
13031 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13032 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
13033 \@preameightfmt
13034 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13035 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
13036 \global\setbox
13037 \if@RTL@footnote
13038 \@mpfootinsv@r
13039 \else
13040 \@mpfootinsv@l
13041 \fi
13042 \vbox{%
13043 \unvbox
13044 \if@RTL@footnote
13045 \@mpfootinsv@r
13046 \else
13047 \@mpfootinsv@l
13048 \fi
13049 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13050 \def\baselinestretch{\m@m@footnote@spacing}%
13051 \reset@font\foottextfont
13052 \hsize\columnwidth \@parboxrestore
13053 \protected@edef\@currentlabel{%
13054 \csname p@mpfootnote\endcsname\@thefnmark}%
13055 \color@begingroup
13056 \@eightcolfootfmt{#1}%
13057 \color@endgroup}%
13058 \m@m@prepare}
13059 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
13060 \global\setbox\@mpfootinsv@l\vbox{%
13061 \unvbox\@mpfootinsv@l
13062 \@RTLfalse
13063 \def\baselinestretch{\m@m@footnote@spacing}%
13064 \reset@font\LTRfoottextfont
13065 \hsize\columnwidth \@parboxrestore
13066 \protected@edef\@currentlabel{%
13067 \csname p@mpfootnote\endcsname\@thefnmark}%
13068 \color@begingroup
13069 \@eightcolLTRfootfmt{#1}%
13070 \color@endgroup}%
13071 \m@m@prepare}
13072 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
13073 \global\setbox\@mpfootinsv@r\vbox{%
13074 \unvbox\@mpfootinsv@r
13075 \@RTLtrue
13076 \def\baselinestretch{\m@m@footnote@spacing}%
13077 \reset@font\RTLfoottextfont
13078 \hsize\columnwidth \@parboxrestore

```



```

13079 \protected@edef\@currentlabel{%
13080 \csname p@mpfootnote\endcsname\@thefnmark}%
13081 \color@begingroup
13082 \@eightcolRTLfootfmt{#1}%
13083 \color@endgroup}%
13084 \m@mmf@prepare}
13085 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
13086 \@namedef{@eightcol@footgroup#1}{%
13087 \def\baselinestretch{\m@m@footnote@spacing}%
13088 \hsize\bidi@columnwidth
13089 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13090 \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}
13091 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
13092 \@namedef{@eightcol@LTRfootgroup#1}{%
13093 \def\baselinestretch{\m@m@footnote@spacing}%
13094 \hsize\bidi@columnwidth
13095 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13096 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}
13097 \bidi@ensure@newcommand{\m@make@peightcol@footgroup}[1]{%
13098 \@namedef{@peightcol@footgroup#1}{%
13099 \def\baselinestretch{\m@m@footnote@spacing}%
13100 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13101 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}
13102 \newcommand{\bidi@make@peightcol@LTRfootgroup}[1]{%
13103 \@namedef{@peightcol@LTRfootgroup#1}{%
13104 \def\baselinestretch{\m@m@footnote@spacing}%
13105 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13106 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}
13107 \bidi@ensure@newcommand{\@ninecolumnfootnotes}{%
13108 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13109 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13110 \@bidi@before@Hy@hyperfootnotes
13111 \let\@footnotetext\@ninecolfootnotetext
13112 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
13113 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
13114 \dimen\footinsv@r=9\footinsdim
13115 \count\footinsv@r=111\relax
13116 \m@make@ninecol@footgroup{v@r}%
13117 \let\@footgroupv@r\@ninecol@footgroupv@r
13118 \dimen\footinsv@l=9\footinsdim
13119 \count\footinsv@l=111\relax
13120 \bidi@make@ninecol@LTRfootgroup{v@l}%
13121 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
13122 \let\@mpfootnotetext\@mpninecolfootnotetext
13123 \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
13124 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
13125 \@bidi@after@Hy@hyperfootnotes
13126 \m@make@mpninecol@footgroup{v@r}%
13127 \let\@mp@footgroupv@r\@mpninecol@footgroupv@r
13128 \bidi@make@mpninecol@LTRfootgroup{v@l}%
13129 \let\@mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
13130 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13131 }
13132 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert

```



```

13133 \if@RTL@footnote
13134 \footinsv@r
13135 \else
13136 \footinsv@l
13137 \fi
13138 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13139 \def\baselinestretch{\m@m@footnote@spacing}%
13140 \reset@font\foottextfont
13141 \@preamfntext
13142 \protected@edef\@currentlabel{%
13143 \csname p@footnote\endcsname\@thefnmark}%
13144 \color@begingroup
13145 \@ninecolfootfmt{#1}%
13146 \color@endgroup}%
13147 \m@mmf@prepare}
13148 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13149 \def\baselinestretch{\m@m@footnote@spacing}%
13150 \reset@font\LTRfoottextfont
13151 \@preamfntext
13152 \protected@edef\@currentlabel{%
13153 \csname p@footnote\endcsname\@thefnmark}%
13154 \color@begingroup
13155 \@ninecolLTRfootfmt{#1}%
13156 \color@endgroup}%
13157 \m@mmf@prepare}
13158 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13159 \def\baselinestretch{\m@m@footnote@spacing}%
13160 \reset@font\RTLfoottextfont
13161 \@preamfntext
13162 \protected@edef\@currentlabel{%
13163 \csname p@footnote\endcsname\@thefnmark}%
13164 \color@begingroup
13165 \@ninecolRTLfootfmt{#1}%
13166 \color@endgroup}%
13167 \m@mmf@prepare}
13168 \bidi@ensure@newcommand{\@preamninefmt}{%
13169 \hsize .1\hsize
13170 \parindent=\z@
13171 \tolerance=5000\relax
13172 \leavevmode}
13173 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
13174 \@preamninefmt
13175 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13176 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
13177 \@preamninefmt
13178 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13179 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
13180 \@preamninefmt
13181 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13182 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
13183 \global\setbox
13184 \if@RTL@footnote
13185 \@mpfootinsv@r
13186 \else

```



```

13187 \mpfootinsv@l
13188 \fi
13189 \vbox{%
13190 \unvbox
13191 \if@RTL@footnote
13192 \mpfootinsv@r
13193 \else
13194 \mpfootinsv@l
13195 \fi
13196 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13197 \def\baselinestretch{\m@m@footnote@spacing}%
13198 \reset@font\foottextfont
13199 \hsize\columnwidth \@parboxrestore
13200 \protected@edef\@currentlabel{%
13201 \csname p@mpfootnote\endcsname\@thefnmark}%
13202 \color@begingroup
13203 \@ninecolfootfmt{#1}%
13204 \color@endgroup}%
13205 \m@mmf@prepare}
13206 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
13207 \global\setbox\@mpfootinsv@l\vbox{%
13208 \unvbox\@mpfootinsv@l
13209 \@RTLfalse
13210 \def\baselinestretch{\m@m@footnote@spacing}%
13211 \reset@font\LTRfoottextfont
13212 \hsize\columnwidth \@parboxrestore
13213 \protected@edef\@currentlabel{%
13214 \csname p@mpfootnote\endcsname\@thefnmark}%
13215 \color@begingroup
13216 \@ninecolLTRfootfmt{#1}%
13217 \color@endgroup}%
13218 \m@mmf@prepare}
13219 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
13220 \global\setbox\@mpfootinsv@r\vbox{%
13221 \unvbox\@mpfootinsv@r
13222 \@RTLtrue
13223 \def\baselinestretch{\m@m@footnote@spacing}%
13224 \reset@font\RTLfoottextfont
13225 \hsize\columnwidth \@parboxrestore
13226 \protected@edef\@currentlabel{%
13227 \csname p@mpfootnote\endcsname\@thefnmark}%
13228 \color@begingroup
13229 \@ninecolRTLfootfmt{#1}%
13230 \color@endgroup}%
13231 \m@mmf@prepare}
13232 \bidi@ensure@newcommand{\@make@ninecol@footgroup}[1]{%
13233 \@namedef{@ninecol@footgroup#1}{%
13234 \def\baselinestretch{\m@m@footnote@spacing}%
13235 \hsize\columnwidth
13236 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13237 \m@rigrigidbodybalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
13238 \newcommand{\bidi@make@ninecol@LTR@footgroup}[1]{%
13239 \@namedef{@ninecol@LTR@footgroup#1}{%
13240 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13241 \hsize\ bidi@columnwidth
13242 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13243 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}
13244 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
13245 \@namedef{@mpninecol@footgroup#1}{%
13246 \def\baselinestretch{\m@m@footnote@spacing}%
13247 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13248 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}
13249 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
13250 \@namedef{@mpninecol@LTRfootgroup#1}{%
13251 \def\baselinestretch{\m@m@footnote@spacing}%
13252 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13253 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}
13254 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
13255 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13256 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13257 \@bidi@before@Hy@hyperfootnotes
13258 \let\@footnotetext\@tencolfootnotetext
13259 \let\@LTRfootnotetext\@tencolLTRfootnotetext
13260 \let\@RTLfootnotetext\@tencolRTLfootnotetext
13261 \dimen\footinsv@r=10\footinsdim
13262 \count\footinsv@r=100\relax
13263 \m@make@tencol@footgroup{v@r}%
13264 \let\@footgroupv@r\@tencol@footgroupv@r
13265 \dimen\footinsv@l=10\footinsdim
13266 \count\footinsv@l=100\relax
13267 \bidi@make@tencol@LTRfootgroup{v@l}%
13268 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
13269 \let\@mpfootnotetext\@mptencolfootnotetext
13270 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
13271 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
13272 \@bidi@after@Hy@hyperfootnotes
13273 \m@make@mptencol@footgroup{v@r}%
13274 \let\mp@footgroupv@r\@mptencol@footgroupv@r
13275 \bidi@make@mptencol@LTRfootgroup{v@l}%
13276 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
13277 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13278 }
13279 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
13280 \if@RTL@footnote
13281 \footinsv@r
13282 \else
13283 \footinsv@l
13284 \fi
13285 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13286 \def\baselinestretch{\m@m@footnote@spacing}%
13287 \reset@font\foottextfont
13288 \@preamfntext
13289 \protected@edef\@currentlabel{%
13290 \csname p@footnote\endcsname\@thefnmark}%
13291 \color@begingroup
13292 \@tencolfootfmt{#1}%
13293 \color@endgroup}%
13294 \m@mmf@prepare}

```




```

13295 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13296 \def\baselinestretch{\m@m@footnote@spacing}%
13297 \reset@font\LTRfoottextfont
13298 \@preamfntext
13299 \protected@edef\@currentlabel{%
13300 \csname p@footnote\endcsname\@thefnmark}%
13301 \color@begingroup
13302 \@tencolLTRfootfmt{#1}%
13303 \color@endgroup}%
13304 \m@m@mmf@prepare}
13305 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13306 \def\baselinestretch{\m@m@footnote@spacing}%
13307 \reset@font\RTLfoottextfont
13308 \@preamfntext
13309 \protected@edef\@currentlabel{%
13310 \csname p@footnote\endcsname\@thefnmark}%
13311 \color@begingroup
13312 \@tencolRTLfootfmt{#1}%
13313 \color@endgroup}%
13314 \m@m@mmf@prepare}
13315 \bidi@ensure@newcommand{\@preamtenfmt}{%
13316 \hsize .1\hsize
13317 \parindent=\z@
13318 \tolerance=5000\relax
13319 \leavevmode}
13320 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
13321 \@preamtenfmt
13322 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13323 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
13324 \@preamtenfmt
13325 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13326 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
13327 \@preamtenfmt
13328 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13329 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
13330 \global\setbox
13331 \if@RTL@footnote
13332 \@mpfootinsv@r
13333 \else
13334 \@mpfootinsv@l
13335 \fi
13336 \vbox{%
13337 \unvbox
13338 \if@RTL@footnote
13339 \@mpfootinsv@r
13340 \else
13341 \@mpfootinsv@l
13342 \fi
13343 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13344 \def\baselinestretch{\m@m@footnote@spacing}%
13345 \reset@font\foottextfont
13346 \hsize\columnwidth \@parboxrestore
13347 \protected@edef\@currentlabel{%
13348 \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

13349 \color@begingroup
13350 \tencolfootfmt{#1}%
13351 \color@endgroup}%
13352 \m@mmf@prepare}
13353 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
13354 \global\setbox\@mpfootinsv@l\vbox{%
13355 \unvbox\@mpfootinsv@l
13356 \@RTLfalse
13357 \def\baselinestretch{\m@m@footnote@spacing}%
13358 \reset@font\LTRfoottextfont
13359 \hsize\columnwidth \@parboxrestore
13360 \protected@edef\@currentlabel{%
13361 \csname p@mpfootnote\endcsname\@thefnmark}%
13362 \color@begingroup
13363 \tencolLTRfootfmt{#1}%
13364 \color@endgroup}%
13365 \m@mmf@prepare}
13366 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
13367 \global\setbox\@mpfootinsv@r\vbox{%
13368 \unvbox\@mpfootinsv@r
13369 \@RTLtrue
13370 \def\baselinestretch{\m@m@footnote@spacing}%
13371 \reset@font\RTLfoottextfont
13372 \hsize\columnwidth \@parboxrestore
13373 \protected@edef\@currentlabel{%
13374 \csname p@mpfootnote\endcsname\@thefnmark}%
13375 \color@begingroup
13376 \tencolRTLfootfmt{#1}%
13377 \color@endgroup}%
13378 \m@mmf@prepare}
13379 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
13380 \@namedef{tencol@footgroup#1}{%
13381 \def\baselinestretch{\m@m@footnote@spacing}%
13382 \hsize\bidi@columnwidth
13383 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13384 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
13385 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
13386 \@namedef{tencol@LTRfootgroup#1}{%
13387 \def\baselinestretch{\m@m@footnote@spacing}%
13388 \hsize\bidi@columnwidth
13389 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13390 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
13391 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
13392 \@namedef{mptencol@footgroup#1}{%
13393 \def\baselinestretch{\m@m@footnote@spacing}%
13394 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13395 \m@mrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}}
13396 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
13397 \@namedef{mptencol@LTRfootgroup#1}{%
13398 \def\baselinestretch{\m@m@footnote@spacing}%
13399 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
1400 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}}
1401 \bidi@ensure@newcommand{\m@munvxh}[1]{%
1402 \setbox0=\vbox{\unvbox#1%

```



```

13403 \global\setbox1=\lastbox}%
13404 \unhbox1
13405 \unskip
13406 \unskip
13407 \unpenalty
13408 \hskip\m@mipn@skip}
13409 \bidi@ensure@newcommand{\m@mungebox}{-%
13410 \setbox0=\hbox{\m@munvxh0}%
13411 \dp0=\z@
13412 \ht0=\footfudgefactor\wd0
13413 \box0
13414 \penalty0}
13415 \newskip\m@mipn@skip
13416 \bidi@ensure@newcommand*{\m@minterparanoteglu}[1]{%
13417 {\foottextfont\global\m@mipn@skip=#1\relax}}
13418 \m@minterparanoteglu{1em plus.3em minus.3em}
13419 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{-%
13420 \setbox0=\hbox{}}%
13421 \loop
13422 \unpenalty
13423 \setbox2=\lastbox
13424 \ifhbox2
13425 \setbox0=\hbox{\box2\unhbox0}
13426 \repeat}
13427 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
13428 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
13429 \newcommand*\AddExtraParaSkip[1]{%
13430 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
13431 }
13432 \let\bidi@xparaskip\relax
13433 \@onlypreamble\AddExtraParaSkip
13434 \@onlypreamble\bidi@xparaskip
13435 \def\bidi@startparafootskip#1{%
13436 \global\advance\skip#1\bidi@paraskip
13437 }
13438 \@onlypreamble\bidi@startparafootskip
13439 \bidi@ensure@newcommand{\paragraphfootnotes}{-%
13440 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13441 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13442 \@bidi@before@Hy@hyperfootnotes
13443 \let\@footnotetext\@parafootnotetext
13444 \let\@LTRfootnotetext\@paraLTRfootnotetext
13445 \let\@RTLfootnotetext\@paraRTLfootnotetext
13446 \dimen\footinsv@r=\footinsdim
13447 \count\footinsv@r=1000\relax
13448 \let\bidi@removexfootskip\bidi@removexparafootskip
13449 \m@make@para@footgroup{v@r}%
13450 \m@make@para@footstart{v@r}%
13451 \let\@footgroupv@r\@para@footgroupv@r
13452 \let\@footstartv@r\@para@footstartv@r
13453 \dimen\footinsv@l=\footinsdim
13454 \count\footinsv@l=1000\relax
13455 \bidi@make@para@LTRfootgroup{v@l}%
13456 \m@make@para@footstart{v@l}%

```



```

13457 \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
13458 \let\@footstartv@1\@para@footstartv@1
13459 \let\@mpfootnotetext\@mpparafootnotetext
13460 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13461 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
13462 \@bidi@after@Hy@hyperfootnotes
13463 \m@make@mppara@footgroup{v@r}%
13464 \@bidi@make@mppara@LTRfootgroup{v@l}%
13465 \let\mp@footgroupv@r\@mppara@footgroupv@r
13466 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
13467 \g@addto@macro\bidi@floathook{%
13468   \begingroup
13469     \foottextfont \@tempdima\normalbaselineskip
13470     \multiply \@tempdima \@cclvi
13471     \@tempdimb \columnwidth
13472     \divide \@tempdimb \@cclvi
13473     \divide \@tempdima \@tempdimb
13474     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13475   \endgroup
13476 }
13477 \AtBeginDocument{%
13478   \begingroup
13479     \foottextfont
13480     \@tempdima\footnotesep
13481     \advance\@tempdima -\ht\strutbox
13482     \ifdim\@tempdima<z@ \@tempdima\z@ \fi
13483     \advance\@tempdima.5\normalbaselineskip
13484     \bidi@xparaskip
13485     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13486   \endgroup
13487   \bidi@startparafootskip\footinsv@r
13488   \bidi@startparafootskip\footinsv@l
13489 }
13490 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13491 }
13492 \newcommand{\normalRTLparaLTRfootnotes}{%
13493   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
13494   \@bidi@before@Hy@hyperfootnotes
13495   \if@RTL@footnote
13496     \let\@footnotetext\m@mold@footnotetext
13497   \else
13498     \let\@footnotetext\@parafootnotetext
13499   \fi
13500   \let\@LTRfootnotetext\@paraLTRfootnotetext
13501   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
13502   \dimen\footinsv@1=\footinsdim
13503   \count\footinsv@1=1000\relax
13504   \let\bidi@removexfootskip\bidi@removexparafootskip
13505   \@bidi@make@para@LTRfootgroup{v@l}%
13506   \m@make@para@footstart{v@l}%
13507   \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
13508   \let\@footstartv@1\@para@footstartv@1
13509   \if@RTL@footnote
13510     \let\@mpfootnotetext\m@mold@mpfootnotetext

```



```

13511 \else
13512 \let\@mpfootnotetext\@mpparafootnotetext
13513 \fi
13514 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13515 \let\@mpRTLfootnotetext\@mold@mpRTLfootnotetext
13516 \@bidi@after@Hy@hyperfootnotes
13517 \bidi@make@mppara@LTRfootgroup{v@1}%
13518 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
13519 \g@addto@macro\bidi@floathook{%
13520 \begingroup
13521 \LTRfoottextfont \@tempdima\normalbaselineskip
13522 \multiply \@tempdima \@cclvi
13523 \@tempdimb \columnwidth
13524 \divide \@tempdimb \@cclvi
13525 \divide \@tempdima \@tempdimb
13526 \xdef\footfudgefactor{\strip@pt\@tempdima}%
13527 \endgroup
13528 }
13529 \@AtBeginDocument{%
13530 \begingroup
13531 \LTRfoottextfont
13532 \@tempdima\footnotesep
13533 \advance\@tempdima -\ht\strutbox
13534 \ifdim\@tempdima<z@ \@tempdima\z@ \fi
13535 \advance\@tempdima.5\normalbaselineskip
13536 \bidi@xparaskip
13537 \xdef\bidi@paraskip{\the\@tempdima\relax}%
13538 \endgroup
13539 \bidi@startparafootskip\footinsv@1
13540 }
13541 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13542 }
13543 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
13544 \ifRTL@footnote
13545 \footinsv@r
13546 \else
13547 \footinsv@l
13548 \fi
13549 {%
13550 \let\bidi@RTL@everypar\@empty%
13551 \def\baselinestretch{\m@m@footnote@spacing}%
13552 \reset@font\foottextfont
13553 \@preamfntext
13554 \protected@edef\@currentlabel{%
13555 \csname p@footnote\endcsname\@thefnmark}%
13556 \setbox0=\vbox{\hsize=\maxdimen
13557 \color@begingroup
13558 \noindent \@parafootfmt{#1}%
13559 \color@endgroup}%
13560 \m@mungebox}\m@m@prepare}
13561 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
13562 \let\bidi@RTL@everypar\@empty%
13563 \def\baselinestretch{\m@m@footnote@spacing}%
13564 \reset@font\LTRfoottextfont

```



```

13565 \@preamfntext
13566 \protected@edef\@currentlabel{%
13567   \csname p@footnote\endcsname\@thefnmark}%
13568 \setbox0=\vbox{\hsize=\maxdimen
13569   \color@begingroup
13570   \noindent \@paraLTRfootfmt{#1}%
13571   \color@endgroup}%
13572 \m@ungebox}\m@mfm@prepare}
13573 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
13574   \let\bidi@RTL@everypar\@empty%
13575   \def\baselinestretch{\m@m@footnote@spacing}%
13576   \reset@font\RTLfoottextfont
13577   \@preamfntext
13578   \protected@edef\@currentlabel{%
13579     \csname p@footnote\endcsname\@thefnmark}%
13580   \setbox0=\vbox{\hsize=\maxdimen
13581     \color@begingroup
13582     \noindent \@paraRTLfootfmt{#1}%
13583     \color@endgroup}%
13584   \m@ungebox}\m@mfm@prepare}
13585 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
13586   \parindent=\z@
13587   \parfillskip=0pt \@plus 1fil
13588   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
13589 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
13590   \parindent=\z@
13591   \parfillskip=0pt \@plus 1fil
13592   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
13593 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
13594   \parindent=\z@
13595   \parfillskip=0pt \@plus 1fil
13596   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
13597 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
13598   \global\setbox
13599   \if@RTL@footnote
13600     \@mpfootinsv@r
13601   \else
13602     \@mpfootinsv@l
13603   \fi
13604   \vbox{%
13605     \unvbox
13606     \if@RTL@footnote
13607       \@mpfootinsv@r
13608     \else
13609       \@mpfootinsv@l
13610     \fi
13611     \let\bidi@RTL@everypar\@empty
13612     \def\baselinestretch{\m@m@footnote@spacing}%
13613     \reset@font\foottextfont
13614     \hsize\columnwidth \@parboxrestore
13615     \protected@edef\@currentlabel{%
13616       \csname p@mpfootnote\endcsname\@thefnmark}%
13617     \setbox0=\vbox{\hsize=\maxdimen
13618       \color@begingroup

```



```

13619     \noindent \@parafootfmt{#1}%
13620     \color@endgroup}%
13621 \m@mungebox}\m@mmf@prepare}
13622 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
13623 \global\setbox\@mpfootinsv@l\vbox{%
13624 \unvbox\@mpfootinsv@l
13625 \let\bidi@RTL@everypar\@empty
13626 \def\baselinestretch{\m@m@footnote@spacing}%
13627 \reset@font\LTRfoottextfont
13628 \hsize\columnwidth \@parboxrestore
13629 \protected@edef\@currentlabel{%
13630 \csname p@mpfootnote\endcsname\@thefnmark}%
13631 \setbox0=\vbox{\hsize=\maxdimen
13632 \color@begingroup
13633 \noindent \@paraLTRfootfmt{#1}%
13634 \color@endgroup}%
13635 \m@mungebox}\m@mmf@prepare}
13636 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
13637 \global\setbox\@mpfootinsv@r\vbox{%
13638 \unvbox\@mpfootinsv@r
13639 \let\bidi@RTL@everypar\@empty
13640 \def\baselinestretch{\m@m@footnote@spacing}%
13641 \reset@font\RTLfoottextfont
13642 \hsize\columnwidth \@parboxrestore
13643 \protected@edef\@currentlabel{%
13644 \csname p@mpfootnote\endcsname\@thefnmark}%
13645 \setbox0=\vbox{\hsize=\maxdimen
13646 \color@begingroup
13647 \noindent \@paraRTLfootfmt{#1}%
13648 \color@endgroup}%
13649 \m@mungebox}\m@mmf@prepare}
13650 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
13651 \@namedef{@para@footgroup#1}{%
13652 \unvbox\@nameuse{footins#1}
13653 \@RTLtrue
13654 \m@mmakehboxofhboxes
13655 \setbox0=\hbox{\unhbox0 \m@removehboxes}%
13656 \hsize\bidi@columnwidth
13657 \@parboxrestore
13658 \def\baselinestretch{\m@m@footnote@spacing}%
13659 \@nameuse{foottextfont#1}%
13660 \noindent\unhbox0\par}}
13661 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
13662 \@namedef{@para@LTRfootgroup#1}{%
13663 \unvbox\@nameuse{footins#1}
13664 \@RTLfalse
13665 \m@mmakehboxofhboxes
13666 \setbox0=\hbox{\unhbox0 \m@removehboxes}%
13667 \hsize\bidi@columnwidth
13668 \@parboxrestore
13669 \def\baselinestretch{\m@m@footnote@spacing}%
13670 \@nameuse{foottextfont#1}%
13671 \noindent\unhbox0\par}}
13672 \newcommand{\bidi@removexparafootskip}{%

```



```

13673 \advance\@tempskipa -\bidi@paraskip
13674 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
13675 }
13676 \let\bidi@removexfootskip\relax
13677 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
13678 \@namedef{@mppara@footgroup#1}{%
13679 \unvbox\@nameuse{@mpfootins#1}
13680 \@RTLtrue
13681 \m@mmakehboxofhboxes
13682 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13683 \def\baselinestretch{\m@m@footnote@spacing}%
13684 \@nameuse{foottextfont#1}%
13685 \noindent\unhbox0\par}}
13686 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
13687 \@namedef{@mppara@LTRfootgroup#1}{%
13688 \unvbox\@nameuse{@mpfootins#1}
13689 \@RTLfalse
13690 \m@mmakehboxofhboxes
13691 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13692 \def\baselinestretch{\m@m@footnote@spacing}%
13693 \@nameuse{foottextfont#1}%
13694 \noindent\unhbox0\par}}
13695 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
13696 \@namedef{@para@footstart#1}{%
13697 \leftskip=\z@
13698 \rightskip=\z@
13699 \parindent=\z@
13700 }%
13701 }
13702 \bidi@ensure@newcommand*\m@m@makecolfloats}{%
13703 \xdef\@freelist{\@freelist\@midlist}%
13704 \global\let\@midlist\@empty
13705 \@combinefloats}
13706 \bidi@ensure@newcommand*\m@m@makecoltext}{%
13707 \ifvbox\@kludgeins
13708 \@makespecialcolbox
13709 \else
13710 \setbox\@outputbox \vbox to\@colht{%
13711 \@texttop
13712 \dimen@ \dp\@outputbox
13713 \unvbox \@outputbox
13714 \vskip -\dimen@
13715 \@textbottom}%
13716 \fi}
13717 \bidi@ensure@newcommand*\m@m@makecolintro}{%}
13718 \bidi@ensure@newcommand*\m@m@opfootnote}{\setbox\@outputbox \vbox{%
13719 \boxmaxdepth\@maxdepth
13720 \@tempdima\dp\@cclv
13721 \unvbox\@cclv
13722 \vskip-\@tempdima
13723 \bidi@mopfn@bottom
13724 \vskip \skip\footins
13725 \color@begingroup
13726 \normalcolor

```




```

13727 \footnoterule
13728 \unvbox \footins
13729 \color@endgroup
13730 }%
13731 }
13732 \newcommand*{\bidi@mopfootnotebf}{%
13733 \setbox\@outputbox \vbox{%
13734 \boxmaxdepth\@maxdepth
13735 \unvbox\@outputbox
13736 \bidi@mopfn@bottom
13737 \vskip\skip\footins
13738 \color@begingroup
13739 \normalcolor
13740 \footnoterule
13741 \unvbox \footins
13742 \color@endgroup
13743 }%
13744 }
13745 \gdef\mem@makecol{%
13746 \m@m@makecolintro
13747 \m@mdoextrafeet
13748 \ifvoid\footins
13749 \setbox\@outputbox \box\@cclv
13750 \else
13751 \m@mopfootnote
13752 \fi
13753 \m@m@makecolfloats
13754 \m@m@makecoltext
13755 \global \maxdepth \@maxdepth}
13756 \gdef\bidi@makecolbf{%
13757 \m@m@makecolintro
13758 \m@mdoextrafeet
13759 \setbox\@outputbox \box\@cclv
13760 \m@m@makecolfloats
13761 \ifvoid\footins
13762 \else
13763 \bidi@mopfootnotebf
13764 \fi
13765 \m@m@makecoltext
13766 \global \maxdepth \@maxdepth}
13767 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
13768 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
13769 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
13770 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
13771 \FeetAboveFloat
13772 \FeetBelowRagged
13773 \def\bidi@reinserts#1{\ifvoid#1\else
13774 \ifnum\count\@currbox>\z@
13775 \advance\@pageht \ht#1%
13776 \advance\@pageht \skip#1%
13777 \advance\@pageht \dp#1%
13778 \fi
13779 \insert#1{\unvbox#1}%
13780 \fi

```



```

13781 }
13782 \def\ bidi@init@multi@footins#1{%
13783     \multiply\count#1\col@number
13784     \multiply\skip#1\col@number
13785 }
13786 \def\ bidi@reinsert@footnotes#1{\ifvoid#1\else
13787     \insert#1{}\fi}
13788 \AtBeginDocument{%
13789     \ bidi@preto\@docclearpage\m@mdoextrafeet
13790     \g@addto@macro\@reinserts{%
13791         \ bidi@reinserts\footinsv@r
13792         \ bidi@reinserts\footinsv@l
13793     }
13794     \ bidi@floathook
13795     \g@addto@macro\@floatplacement{%
13796         \ bidi@ifmulticol{}\ \ bidi@floathook}%
13797     }%
13798     \if\ bidi@csundef{multi@column@out}{%
13799         \@onlypreamble\ bidi@init@multi@footins
13800         \let\ bidi@ifmulticol\@secondoftwo
13801     }{%
13802         \ bidi@preto\multi@column@out\m@mdoextrafeet
13803         \g@addto@macro\init@mult@footins{%
13804             \ bidi@init@multi@footins\footinsv@r
13805             \ bidi@init@multi@footins\footinsv@l
13806         }%
13807         \g@addto@macro\reinsert@footnotes{%
13808             \ bidi@reinsert@footnotes\footinsv@r
13809             \ bidi@reinsert@footnotes\footinsv@l
13810         }%
13811     }%
13812 }

```

87 File extreport-xetex-bidi.def

```

13813 \ProvidesFile{extreport-xetex-bidi.def}[2025/09/30 v0.4 bidi adaptations for extreport clas
13814 \renewcommand*\l@part[2]{%
13815     \ifnum \c@tocdepth >-2\relax
13816         \addpenalty{-\@highpenalty}%
13817         \addvspace{2.25em \@plus\p@}%
13818         \begingroup
13819             \setlength\@tempdima{3em}%
13820             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13821             \parfillskip -\@pnumwidth
13822             {\leavevmode
13823                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
13824             \nobreak
13825             \global\@nobreaktrue
13826             \everypar{\global\@nobreakfalse\everypar{}}%
13827         \endgroup
13828     \fi}
13829 \renewcommand*\l@chapter[2]{%
13830     \ifnum \c@tocdepth >\m@ne
13831         \addpenalty{-\@highpenalty}%

```



```

13832 \vskip 1.0em \@plus\p@
13833 \setlength\@tempdima{1.5em}%
13834 \begingroup
13835 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13836 \parfillskip -\@pnumwidth
13837 \leavevmode \bfseries
13838 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
13839 \hskip -\if@RTL\rightskip\else\leftskip\fi
13840 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
13841 \penalty\@highpenalty
13842 \endgroup
13843 \fi}
13844 \def\@makechapterhead#1{%
13845 \vspace*{50\p@}%
13846 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
13847 \ifnum \c@secnumdepth >\m@ne
13848 \huge\bfseries \@chapapp\space \thechapter
13849 \par\nobreak
13850 \vskip 20\p@
13851 \fi
13852 \interlinepenalty\@M
13853 \Huge \bfseries #1\par\nobreak
13854 \vskip 40\p@
13855 }}
13856 \def\@makeschapterhead#1{%
13857 \vspace*{50\p@}%
13858 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
13859 \normalfont
13860 \interlinepenalty\@M
13861 \Huge \bfseries #1\par\nobreak
13862 \vskip 40\p@
13863 }}
13864 \renewcommand\left@footnoterule{%
13865 \kern-3\p@
13866 \hrule\@width.4\columnwidth
13867 \kern2.6\p@}
13868 \renewcommand\right@footnoterule{%
13869 \kern-3\p@
13870 \nointerlineskip
13871 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13872 \kern2.6\p@}
13873 \renewenvironment{thebibliography}[1]
13874 {\chapter*\bibname
13875 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
13876 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13877 \bidi@thebibliography@font@hook%
13878 \list{\@biblabel{\@arabic\c@enumiv}}%
13879 {\settowidth\labelwidth{\@biblabel{#1}}%
13880 \leftmargin\labelwidth
13881 \advance\leftmargin\labelsep
13882 \@openbib@code
13883 \usecounter{enumiv}%
13884 \let\p@enumiv\@empty
13885 \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

13886     \sloppy\clubpenalty4000\widowpenalty4000%
13887     \sfcode`.\@m}
13888     {\def\@noitemerr
13889       {\@latex@warning{Empty `thebibliography' environment}}%
13890     \endlist}
13891 \if@titlepage
13892 \renewcommand\maketitle{\begin{titlepage}%
13893 \let\footnotesize\small
13894 \let\right@footnoterule\relax
13895 \let\left@footnoterule\relax
13896 \let\textwidth@footnoterule\relax
13897 \let \footnote \thanks
13898 \null\vfil
13899 \vskip 60\p@
13900 \begin{center}%
13901   {\LARGE \@title \par}%
13902   \vskip 3em%
13903   {\large
13904     \lineskip .75em%
13905     \begin{tabular}[t]{c}%
13906       \@author
13907     \end{tabular}\par}%
13908     \vskip 1.5em%
13909     {\large \@date \par}%           % Set date in \large size.
13910 \end{center}\par
13911 \@thanks
13912 \vfil\null
13913 \end{titlepage}%
13914 \setcounter{footnote}{0}%
13915 \global\let\thanks\relax
13916 \global\let\maketitle\relax
13917 \global\let\@thanks\@empty
13918 \global\let\@author\@empty
13919 \global\let\@date\@empty
13920 \global\let\@title\@empty
13921 \global\let\title\relax
13922 \global\let\author\relax
13923 \global\let\date\relax
13924 \global\let\and\relax
13925 }
13926 \else
13927 \renewcommand\maketitle{\par
13928   \begingroup
13929     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13930     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13931     \long\def\@makefntext##1{\parindent 1em\noindent
13932       \hb@xt@1.8em{%
13933         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
13934     \if@twocolumn
13935       \ifnum \col@number=\@ne
13936         \@maketitle
13937       \else
13938         \twocolumn[\@maketitle]%
13939       \fi

```



```

13940 \else
13941 \newpage
13942 \global\let\topnum\z@ % Prevents figures from going at top of page.
13943 \maketitle
13944 \fi
13945 \thispagestyle{plain}\@thanks
13946 \endgroup
13947 \setcounter{footnote}{0}%
13948 \global\let\thanks\relax
13949 \global\let\maketitle\relax
13950 \global\let\@maketitle\relax
13951 \global\let\@thanks\@empty
13952 \global\let\@author\@empty
13953 \global\let\@date\@empty
13954 \global\let\@title\@empty
13955 \global\let\title\relax
13956 \global\let\author\relax
13957 \global\let\date\relax
13958 \global\let\and\relax
13959 }
13960 \def\@maketitle{%
13961 \newpage
13962 \null
13963 \vskip 2em%
13964 \begin{center}%
13965 \let \footnote \thanks
13966 {\LARGE \@title \par}%
13967 \vskip 1.5em%
13968 {\large
13969 \lineskip .5em%
13970 \begin{tabular}[t]{c}%
13971 \@author
13972 \end{tabular}\par}%
13973 \vskip 1em%
13974 {\large \@date}%
13975 \end{center}%
13976 \par
13977 \vskip 1.5em}
13978 \fi
13979 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
13980 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\csubsection}
13981 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\csubsubsection}
13982 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\cparagraph}
13983 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\csubparagraph}
13984 \renewcommand\theequation{%
13985 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
13986 \renewcommand\thefigure{%
13987 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
13988 \renewcommand\thetable{%
13989 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

88 File fancybox-xetex-bidi.def

```
13990 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
```



```

13991 \def\fancy@@oval#1#2#3{%
13992   \boxmaxdepth \maxdimen
13993   \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
13994   \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
13995   \@ovxx#1\relax
13996   \advance\@ovxx-\@wholewidth
13997   \@ovyy#2\relax
13998   \advance\@ovyy-\@wholewidth
13999   \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
14000   \advance\@tempdimb-2\p@
14001   \ifdim\@tempdimb>\the@cornersize\relax
14002     \@tempdimb=\the@cornersize
14003   \fi
14004   \@getcirc\@tempdimb
14005   \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
14006   \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
14007   \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
14008   \@circlefnt
14009   \setbox\@tempboxa\hbox{\beginL%
14010     \if@ovr \@ovvert32\kern -\@tempdima \fi
14011     \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
14012     \if@ovt \@ovhorz \kern -\@ovxx \fi
14013     \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
14014   \advance\@ovdx\@ovro
14015   \advance\@ovdy\@ovro
14016   \advance\@ovxx\@wholewidth
14017   \wd\@tempboxa=\@ovxx
14018   \dp\@tempboxa=\z@}

```

89 File fancyhdr-xetex-bidi.def

```

14019 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
14020
14021 \let\f@nch@everypar\everypar
14022
14023 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
14024 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
14025

```

90 File fix2col-xetex-bidi.def

```

14026 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
14027 \def\RTL@outputdblcol{%
14028   \if@firstcolumn
14029     \global\@firstcolumnfalse
14030     \global\setbox\@leftcolumn\copy\@outputbox
14031     \splitmaxdepth\maxdimen
14032     \vbadness\maxdimen
14033     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14034     \toks@\expandafter{\topmark}%
14035     \xdef\@firstcoltopmark{\the\toks@}%
14036     \toks@\expandafter{\splitfirstmark}%
14037     \xdef\@firstcolfirstmark{\the\toks@}%
14038     \ifx\@firstcolfirstmark\@empty

```



```

14039     \global\let\@setmarks\relax
14040   \else
14041     \gdef\@setmarks{%
14042       \let\firstmark\@firstcolfirstmark
14043       \let\topmark\@firstcoltopmark}%
14044   \fi
14045 \else \global\@firstcolumntrue
14046 \setbox\@outputbox \vbox {\hbox to\textwidth {%
14047 \hskip \columnwidth
14048 \hfil \vrule width\columnseprule \hfil
14049 \hbox to\columnwidth {%
14050 \bidi@firstcolumn@status@write%
14051 \box\@leftcolumn \hss}%
14052 \hskip -\textwidth
14053 \hbox to\columnwidth{%
14054 \bidi@lastcolumn@status@write%
14055 \box\@outputbox \hss}%
14056 \hskip \columnsep
14057 \hskip \columnwidth }}%
14058 \@combinedblfloats \@setmarks \@outputpage
14059 \begingroup \@dblfloatplacement \@startdblcolumn
14060 \@whilesw@if@fcolmade \fi
14061 {\@outputpage \@startdblcolumn }\endgroup
14062 \fi}
14063 \def\LTR@outputdblcol{%
14064   \if@firstcolumn
14065     \global\@firstcolumnfalse
14066     \global\setbox\@leftcolumn\copy\@outputbox
14067     \splitmaxdepth\maxdimen
14068     \vbadness\maxdimen
14069     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14070     \toks@\expandafter{\topmark}%
14071     \xdef\@firstcoltopmark{\the\toks@}%
14072     \toks@\expandafter{\splitfirstmark}%
14073     \xdef\@firstcolfirstmark{\the\toks@}%
14074     \ifx\@firstcolfirstmark\@empty
14075       \global\let\@setmarks\relax
14076     \else
14077       \gdef\@setmarks{%
14078         \let\firstmark\@firstcolfirstmark
14079         \let\topmark\@firstcoltopmark}%
14080     \fi
14081   \else
14082     \global\@firstcolumntrue
14083     \setbox\@outputbox\vbox{%
14084       \hb@xt@\textwidth{%
14085         \hb@xt@\columnwidth{%
14086           \bidi@firstcolumn@status@write%
14087           \box\@leftcolumn \hss}%
14088         \hfil
14089         \vrule \@width\columnseprule
14090         \hfil
14091         \hb@xt@\columnwidth{%
14092           \bidi@lastcolumn@status@write%

```



```

14093     \box\@outputbox \hss}}}%
14094 \@combinedblfloats
14095     \@setmarks
14096     \@outputpage
14097     \begingroup
14098     \@dblfloatplacement
14099     \@startdblcolumn
14100     \@whiles\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
14101     \endgroup
14102     \fi}

```

91 File fleqn-xetex-bidi.def

```

14103 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
14104 \DeclareRobustCommand\{\relax
14105     \ifmode\@badmath
14106     \else
14107     \begin{trivlist}%
14108     \@beginparpenalty\predisplaypenalty
14109     \@endparpenalty\postdisplaypenalty
14110     \item[]\leavevmode
14111     \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
14112     \hskip\mathindent\bgroup
14113     \fi}
14114 \DeclareRobustCommand\}{\relax
14115     \ifmode
14116     \egroup $\hfil% $
14117     \endL\egroup
14118     \end{trivlist}%
14119     \else \@badmath
14120     \fi}
14121 \renewenvironment{equation}%
14122     {\@beginparpenalty\predisplaypenalty
14123     \@endparpenalty\postdisplaypenalty
14124     \refstepcounter{equation}%
14125     \trivlist \item[]\leavevmode
14126     \hb@xt@\linewidth\bgroup\beginL $\m@th$ $
14127     \displaystyle
14128     \hskip\mathindent}%
14129     {$\hfil % $
14130     \displaywidth\linewidth\hbox{\@eqnnum}%
14131     \endL\egroup
14132     \endtrivlist}

```

92 File float-xetex-bidi.def

```

14133 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for XeTeX]
14134 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
14135 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
14136 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
14137 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]}%
14138 \expandafter\edef\csname the#1\endcsname{%
14139 \expandafter\noexpand\csname
14140 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%

```




```
14141 {\PackageWarning{float}{Can't redefine counter variable for #1.}}
```

93 File floatrow-xetex-bidi.def

```
14142 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow packag
14143 \RequirePackage{color}
14144 \renewcommand\flnew@within[1]{\@addtoreset{\FB@captype}{#1}%
14145 \expandafter\edef\csname the\FB@captype\endcsname{%
14146 \expandafter\noexpand\csname
14147 the#1\endcsname\@SepMark\noexpand\arabic{\FB@captype}}}
```

94 File flowfram-xetex-bidi.def

```
14148 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram packag
14149 \def\@outputdblcol{%
14150 \@nxtcol=\c@thisframe
14151 \c@curpg=\c@page
14152 \@g@tnextcol{\@nxtcol}%
14153 \if@ff@nwpg % next flow frame starts on new page
14154 \global\@firstcolumntrue
14155 \setcolbox\c@thisframe
14156 \if@specialpage
14157 \global\@specialpagefalse
14158 \nameuse{ps@\@specialstyle}\relax
14159 \fi
14160 \if@twoside
14161 \ifodd\count\z@
14162 \let\@thehead\@oddhead
14163 \let\@thefoot\@oddfoot
14164 \else
14165 \let\@thehead\@evenhead
14166 \let\@thefoot\@evenfoot
14167 \fi
14168 \else
14169 \let\@thehead\@oddhead
14170 \let\@thefoot\@oddfoot
14171 \fi
14172 \@begindvi
14173 \@dynamicthehead\@dynamicthefoot
14174 \vbadness=\@M
14175 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14176 \@combinedblfloats
14177 \@outputpage
14178 \advance\c@curpg by -\c@page\relax
14179 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
14180 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14181 \@outputpage}
14182 \begingroup
14183 \dblfloatplacement
14184 \startdblcolumn
14185 \@whilesw \if@fcolmade \fi
14186 {\@outputpage \startdblcolumn }\endgroup
14187 \resetst@tics
14188 \resetdyn@tics
```



```

14189 \else % still on same page, save contents of box255
14190   \global\@firstcolumnfalse
14191   \@setcolbox\c@thisframe
14192 \fi
14193 \global\c@thisframe=\@nxtcol
14194 \@setcol{\c@thisframe}\relax
14195 \global\@colht\vsiz
14196 }
14197 \def\@outputpage{%
14198 \begingroup
14199   \let\protect\noexpand
14200   \@resetactivechars
14201   \global\let\@ifnewlist\ifnewlist
14202   \global\@newlistfalse\@parboxrestore
14203   \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
14204   \bidi@beforeoutputpageshipouthook
14205   \shipout\vbox{\set@typeset@protect
14206     \aftergroup
14207     \endgroup
14208     \aftergroup
14209     \set@typeset@protect
14210     \reset@font\normalsize
14211     \bidi@font\@outputpage
14212     \normalsfcodes
14213     \let\label\@gobble
14214     \let\index\@gobble
14215     \let\glossary\@gobble
14216     \baselineskip\z@skip
14217     \lineskip\z@skip
14218     \lineskiplimit\z@
14219     \vskip\topmargin\moveright\@themargin
14220     \vbox{%
14221       \global\let\@bidi@BeforeHeader\@firstofone
14222       \bidi@beforeheaderhook
14223       \vskip\headheight
14224       \vskip\headsep
14225       \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
14226       \bidi@beforeoutputboxoutputpagehook
14227       \box\@outputbox
14228       \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
14229       \bidi@afteroutputboxoutputpagehook
14230     }}%
14231   \global\let\@bidi@AfterOutputPageShipOut\@firstofone
14232   \bidi@afteroutputpageshipouthook
14233   \global\let\ifnewlist\@ifnewlist
14234   \stepcounter{page}%
14235   \setcounter{displayedframe}{0}%
14236   \let\firstmark\botmark
14237   \global\let\@bidi@AtEndOutputPage\@firstofone
14238   \bidi@atendoutputpagehook
14239 }
14240
14241
14242 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}{%

```



```

14243 \expandafter\bidicolor\ff@txtcol}}
14244
14245 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
14246 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z0}}}}
14247
14248
14249 \renewcommand*\@docolbox}[1]{%
14250 \edef\ff@frametype{%
14251 \csname @ff@frametype@romannumeral#1\endcsname}%
14252 \edef\ff@col{\csname @ff@col@romannumeral#1\endcsname}%
14253 \edef\ff@txtcol{\csname @ff@txtcol@romannumeral#1\endcsname}%
14254 \edef\ff@backcol{\csname @ff@backcol@romannumeral#1\endcsname}%
14255 \@ff@setoffset{#1}%
14256 \rotateframe{\csname @ff@angle@romannumeral#1\endcsname}{%
14257 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
14258 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
14259 {\csname colheight\romannumeral#1\endcsname}}{%
14260 \expandafter\box\csname column\romannumeral#1\endcsname}}%
14261 \csname\ff@frametype\endcsname}%
14262 }{%
14263 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
14264 {\csname colheight\romannumeral#1\endcsname}}{%
14265 \expandafter\box\csname column\romannumeral#1\endcsname}%
14266 }}}
14267 \IfClassLoadedT{book}{%
14268 \renewcommand\theequation
14269 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14270 \renewcommand \thefigure
14271 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14272 \renewcommand \thetable
14273 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14274 \renewcommand \thechapter {\@arabic\c@chapter}
14275 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14276 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14277 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14278 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14279 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
14280 \IfClassLoadedT{report}{%
14281 \renewcommand\theequation
14282 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14283 \renewcommand \thefigure
14284 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14285 \renewcommand \thetable
14286 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14287 \renewcommand \thechapter {\@arabic\c@chapter}
14288 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14289 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14290 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14291 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14292 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
14293 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
14294 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}}%
14295 \else
14296 #2\relax

```



14297 \fi}

95 File fnpct-xetex-bidi.def

```
14298 \ProvidesFile{fnpct-xetex-bidi.def}[2025/09/12 v0.2 bidi adaptations for fnpct package for
14299 \ExplSyntaxOn
14300   \@ifclassloaded{beamer}
14301   {
14302     \AdaptNote \footnote{d<>o+m} [\beamer@mpfn]
14303     {
14304       \IfNoValueTF{#1}
14305         {\IfNoValueTF{#2}-{#NOTE{#3}}-{#NOTE[#2]{#3}}}
14306         {\IfNoValueTF{#2}-{#NOTE<#1>{#3}}-{#NOTE<#1>[#2]{#3}}}
14307     }
14308   \AdaptNote \RTLfootnote{d<>o+m} [\beamer@mpfn]
14309   {
14310     \IfNoValueTF{#1}
14311     {\IfNoValueTF{#2}-{#NOTE{#3}}-{#NOTE[#2]{#3}}}
14312     {\IfNoValueTF{#2}-{#NOTE<#1>{#3}}-{#NOTE<#1>[#2]{#3}}}
14313   }
14314   \AdaptNote \LTRfootnote{d<>o+m} [\beamer@mpfn]
14315   {
14316     \IfNoValueTF{#1}
14317     {\IfNoValueTF{#2}-{#NOTE{#3}}-{#NOTE[#2]{#3}}}
14318     {\IfNoValueTF{#2}-{#NOTE<#1>{#3}}-{#NOTE<#1>[#2]{#3}}}
14319   }
14320 }
14321 {
14322   \AdaptNote \RTLfootnote {o+m} [\@mpfn]
14323   { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
14324   \AdaptNote \LTRfootnote {o+m} [\@mpfn]
14325   { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
14326 }
14327 \ExplSyntaxOff
```

96 File footnote-xetex-bidi.def

```
14328 \ProvidesFile{footnote-xetex-bidi.def}[2025/09/30 v1.6 bidi footnote macros for XeTeX engine
14329 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
14330 \newif\ifbidi@autofooterule
14331 \def\bidi@mpfootnoterule{\footnoterule}
14332 \newcounter{footdir@label}
14333 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
14334 \newcommand*{\footdir@write}{%
14335   \stepcounter{footdir@label}%
14336   \zref@labelbyprops{\thefootdir@label}{abspage}%
14337 }
14338 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
14339 \newtoks\footdir@toks
14340 \newcommand*{\footdir@debug}[1]{%
14341   \iffootdir@debug
14342     \typeout{[footdir] #1}%
14343   \fi
14344 }
```



```

14345 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
14346 % \newcommand*{\footdir@LeftRightElse}{%
14347 % \ltx@ifundefined{footdir@the\value{zabspage}}{%
14348 % \footdir@debug{abspage \the\value{zabspage}: else}%
14349 % \ltx@thirdofthree
14350 % }{%
14351 % \if\csname footdir@the\value{zabspage}\endcsname L%
14352 % \footdir@debug{abspage \the\value{zabspage}: left}%
14353 % \expandafter\ltx@firstofthree
14354 % \else
14355 % \footdir@debug{abspage \the\value{zabspage}: right}%
14356 % \expandafter\ltx@secondofthree
14357 % \fi
14358 % }%
14359 % }%
14360 %}%
14361 \providecommand*{\c@zabspage}{\c@abspage}%
14362 \newcommand*{\footdir@LeftRightElse}{%
14363 \footdir@write
14364 \zifrefundefined{\thefootdir@label}{%
14365 \footdir@debug{abspage ??: else}%
14366 \ltx@thirdofthree
14367 }{%
14368 \edef\footdir@abspage{%
14369 \zref@extractdefault{\thefootdir@label}{abspage}{0}%
14370 }%
14371 \ltx@ifundefined{footdir@\footdir@abspage}{%
14372 \footdir@debug{\footdir@abspage: else}%
14373 \ltx@thirdofthree
14374 }{%
14375 \if\csname footdir@\footdir@abspage\endcsname L%
14376 \footdir@debug{\footdir@abspage: left}%
14377 \expandafter\ltx@firstofthree
14378 \else
14379 \footdir@debug{\footdir@abspage: right}%
14380 \expandafter\ltx@secondofthree
14381 \fi
14382 }%
14383 }%
14384 }%
14385 %}
14386 \newcommand*{\footdir@fntext}[1]{%
14387 \zifrefundefined{\thefootdir@label}{%
14388 }{%
14389 \edef\footdir@name{%
14390 footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
14391 }%
14392 \@ifundefined{\footdir@name}{%
14393 \expandafter\gdef\csname\footdir@name\endcsname{#1}%
14394 }{}%
14395 }%
14396 }
14397
14398 \newcommand*{\footdir@temp}[3]{%

```



```

14399 \@ifdefinable{#1}{%
14400   \let#1#2%
14401   \renewcommand{#2}[1]{%
14402     \footdir@write
14403     \footdir@fntext{#3}%
14404     \stepcounter{footdir@label}%
14405     \footdir@fntext{#3}%
14406     \footdir@toks{##1}%
14407     \footdir@toks\expandafter{%
14408       \the\expandafter\footdir@toks
14409       \expandafter
14410       \zref@labelbyprops\expandafter{\the\footdir@label}{abspage}%
14411     }%
14412     \expandafter#1\expandafter{\the\footdir@toks}%
14413   }%
14414 }%
14415 }
14416
14417 \def\right@footnoterule{%
14418   \kern-3\p@
14419   \nointerlineskip
14420   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14421   \kern2.6\p@}
14422 \def\left@footnoterule{\kern-3\p@
14423   \hrule \@width .4\columnwidth \kern 2.6\p@}
14424 \def\textwidth@footnoterule{\kern-3\p@
14425   \hrule \@width \columnwidth \kern 2.6\p@}
14426 \def\leftfootnoterule{%
14427 \bidi@autofootnoterulefalse
14428 \def\footnoterule{\left@footnoterule}}
14429 \let\LRfootnoterule=\leftfootnoterule
14430 \def\rightfootnoterule{%
14431 \bidi@autofootnoterulefalse
14432 \def\footnoterule{\right@footnoterule}}
14433 \def\textwidthfootnoterule{%
14434 \bidi@autofootnoterulefalse
14435 \def\footnoterule{\textwidth@footnoterule}}
14436
14437
14438
14439 \def\auto@footnoterule{%
14440 \footdir@LeftRightElse%
14441 \left@footnoterule%
14442 \right@footnoterule%
14443 \left@footnoterule%
14444 }
14445
14446
14447
14448 \def\autofootnoterule{%
14449 \bidi@autofootnoteruletrue%
14450 \def\footnoterule{\auto@footnoterule}%
14451 }
14452

```



```

14453 \newcommand*\SplitFootnoteRule}{%
14454   \gdef\split@prev{0}
14455   \let\pagefootnoterule\footnoterule
14456   \let\mpfootnoterule\footnoterule
14457   \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
14458   \def\footnoterule{\relax
14459     \ifx \@listdepth\@mplistdepth
14460       \mpfootnoterule
14461     \else
14462       \ifnum\split@prev=\z@
14463         \pagefootnoterule
14464       \else
14465         \splitfootnoterule
14466       \fi
14467     \xdef\split@prev{\the\insertpenalties}%
14468   \fi
14469 }%
14470 }
14471
14472
14473
14474
14475 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
14476   \protected@xdef\@thefnmark{\thempfn}%
14477   \@footnotemark\@RTLfootnotetext}}
14478 \def\@xRTLfootnote[#1]{%
14479   \begingroup
14480     \csname c@\@mpfn\endcsname #1\relax
14481     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14482   \endgroup
14483   \@footnotemark\@RTLfootnotetext}
14484 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
14485   \protected@xdef\@thefnmark{\thempfn}%
14486   \@footnotemark\@LTRfootnotetext}}
14487 \def\@xLTRfootnote[#1]{%
14488   \begingroup
14489     \csname c@\@mpfn\endcsname #1\relax
14490     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14491   \endgroup
14492   \@footnotemark\@LTRfootnotetext}
14493
14494
14495 \def\setfootnoteRL{\@RTL@footnotetrue}
14496 \def\unsetfootnoteRL{\@RTL@footnotefalse}
14497 \def\setfootnoteLR{\unsetfootnoteRL}
14498
14499 \newcommand*\bidi@footnotetext@font{\footnotesize}
14500 \newcommand*\bidi@LTRfootnotetext@font{\footnotesize}
14501 \newcommand*\bidi@RTLfootnotetext@font{\footnotesize}
14502
14503 \long\def\@footnotetext#1{\insert\footins{%
14504   \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14505   \reset@font%
14506   \bidi@footnotetext@font% \reset@font\footnotesize

```



```

14507 \interlinepenalty\interfootnotelinepenalty
14508 \splittopskip\footnotesep
14509 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14510 \hsize\columnwidth \@parboxrestore
14511 \protected@edef\@currentlabel{%
14512   \csname p@footnote\endcsname\@thefnmark
14513 }%
14514 \color@begingroup
14515   \makefnfntext{%
14516     \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14517 \color@endgroup}}%
14518
14519
14520 \long\def\@RTLfootnotetext#1{\insert\footins{%
14521   \@RTLtrue%
14522   \reset@font%
14523   \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14524   \interlinepenalty\interfootnotelinepenalty
14525   \splittopskip\footnotesep
14526   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14527   \hsize\columnwidth \@parboxrestore
14528   \protected@edef\@currentlabel{%
14529     \csname p@footnote\endcsname\@thefnmark
14530   }%
14531   \color@begingroup
14532     \makefnfntext{%
14533       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14534   \color@endgroup}}%
14535
14536 \long\def\@LTRfootnotetext#1{\insert\footins{%
14537   \@RTLfalse%
14538   \reset@font%
14539   \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14540   \interlinepenalty\interfootnotelinepenalty
14541   \splittopskip\footnotesep
14542   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14543   \hsize\columnwidth \@parboxrestore
14544   \protected@edef\@currentlabel{%
14545     \csname p@footnote\endcsname\@thefnmark
14546   }%
14547   \color@begingroup
14548     \makefnfntext{%
14549       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14550   \color@endgroup}}%
14551
14552 \AtBeginDocument{%
14553   \if@RTL@footnote
14554     \newcommand*{\bidi@footdir@footnote}{R}
14555   \else
14556     \newcommand*{\bidi@footdir@footnote}{L}
14557   \fi%
14558 }
14559
14560 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%

```




```

14561 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
14562 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
14563
14564 \long\def\@mpRTLfootnotetext#1{%
14565   \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@fo
14566   \global\setbox\@mpfootins\vbox{%
14567     \unvbox\@mpfootins
14568     \@RTLtrue
14569     \reset@font%
14570     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14571     \hsize\columnwidth
14572     \@parboxrestore
14573     \protected@edef\@currentlabel
14574       {\csname p@mpfootnote\endcsname\@thefnmark}%
14575     \color@begingroup
14576       \makefntext{%
14577         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14578     \color@endgroup}}
14579 \long\def\@mpLTRfootnotetext#1{%
14580   \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footn
14581   \global\setbox\@mpfootins\vbox{%
14582     \unvbox\@mpfootins
14583     \@RTLfalse
14584     \reset@font%
14585     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14586     \hsize\columnwidth
14587     \@parboxrestore
14588     \protected@edef\@currentlabel
14589       {\csname p@mpfootnote\endcsname\@thefnmark}%
14590     \color@begingroup
14591       \makefntext{%
14592         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14593     \color@endgroup}}
14594 \long\def\@mpfootnotetext#1{%
14595   \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnot
14596   \global\setbox\@mpfootins\vbox{%
14597     \unvbox\@mpfootins
14598     \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
14599     \reset@font%
14600     \bidi@footnotetext@font% \reset@font\footnotesize
14601     \hsize\columnwidth
14602     \@parboxrestore
14603     \protected@edef\@currentlabel
14604       {\csname p@mpfootnote\endcsname\@thefnmark}%
14605     \color@begingroup
14606       \makefntext{%
14607         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14608     \color@endgroup}}
14609 \def\@iiminipage#1#2[#3]#4{%
14610   \leavevmode
14611   \@pboxswfalse
14612   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
14613   \ifRTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
14614   \setlength\@tempdima{#4}%

```



```

14615 \def\@mpargs{#1}{#2}[#3]{#4}%
14616 \setbox\@tempboxa\vbox\bgroup
14617   \color@begingroup
14618     \hsize\@tempdima
14619     \textwidth\hsize \columnwidth\hsize
14620     \@parboxrestore
14621     \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
14622     \let\@footnotetext\@mpfootnotetext
14623     \let\@LTRfootnotetext\@mpLTRfootnotetext
14624     \let\@RTLfootnotetext\@mpRTLfootnotetext
14625     \let\@listdepth\@mplistdepth \@mplistdepth\z@
14626     \@minipagerestore
14627     \@setminipage}
14628 \def\endminipage{%
14629   \par
14630   \unskip
14631   \ifvoid\@mpfootins\else
14632     \vskip\skip\@mpfootins
14633     \normalcolor
14634     \bidi@mpfootnoterule
14635     \unvbox\@mpfootins
14636   \fi
14637   \@minipagefalse %% added 24 May 89
14638   \color@endgroup
14639   \egroup
14640   \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
14641 \def\LTRthanks#1{\footnotemark
14642   \protected@xdef\@thanks{\@thanks
14643     \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
14644 }
14645 \def\LTRfootnotetext{%
14646   \@ifnextchar [\@xLTRfootnotenext
14647     {\protected@xdef\@thefnmark{\thempfn}%
14648     \@LTRfootnotetext}}
14649 \def\@xLTRfootnotenext[#1]{%
14650   \begingroup
14651     \csname c@\@mpfn\endcsname #1\relax
14652     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14653   \endgroup
14654   \@LTRfootnotetext}
14655 \def\RTLthanks#1{\footnotemark
14656   \protected@xdef\@thanks{\@thanks
14657     \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
14658 }
14659 \let\@thanks\@empty
14660 \def\RTLfootnotetext{%
14661   \@ifnextchar [\@xRTLfootnotenext
14662     {\protected@xdef\@thefnmark{\thempfn}%
14663     \@RTLfootnotetext}}
14664 \def\@xRTLfootnotenext[#1]{%
14665   \begingroup
14666     \csname c@\@mpfn\endcsname #1\relax
14667     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14668   \endgroup

```



```
14669 \@RTLfootnotetext}
14670 \leftfootnoterule
```

97 File footnotebackref-xetex-bidi.def

```
14671 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
14672 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
14673 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
14674
14675 \renewcommand*\LTRfootnote{%
14676   \refstepcounter{BackrefHyperFootnoteCounter}%
14677   \edef\BackrefFootnoteTag{bfn:\theBackrefHyperFootnoteCounter}%
14678   \label{\BackrefFootnoteTag}%
14679   \@ifnextchar[\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote]}
14680
14681 \renewcommand*\RTLfootnote{%
14682   \refstepcounter{BackrefHyperFootnoteCounter}%
14683   \edef\BackrefFootnoteTag{bfn:\theBackrefHyperFootnoteCounter}%
14684   \label{\BackrefFootnoteTag}%
14685   \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote]}
14686 \newcommand\Backref@HyperLTRFootnote[1]{%
14687   \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
14688
14689 \newcommand\Backref@HyperRTLFootnote[1]{%
14690   \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
14691
14692 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
14693   \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
14694
14695 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
14696   \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
14697
14698 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
14699 \ifFootnoteBackref@numberlinked
14700 \renewcommand{\footfootmark}{%
14701   \ifdim\footmarkwidth < \z@
14702     \llap{\hb@xt@ -\footmarkwidth{%
14703       \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14704       \hspace*{-\footmarkwidth}}%
14705   \else
14706     \ifdim\footmarkwidth = \z@
14707       {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14708     \else
14709       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14710     \fi
14711   \fi}
14712 \renewcommand{\LTRfootfootmark}{%
14713   \ifdim\footmarkwidth < \z@
14714     \llap{\hb@xt@ -\footmarkwidth{%
14715       \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14716       \hspace*{-\footmarkwidth}}%
14717   \else
14718     \ifdim\footmarkwidth = \z@
14719     {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14720   \fi}
```



```

14720 \else
14721 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag] {\@
14722 \fi
14723 \fi}
14724 \renewcommand{\RTLfootfootmark}{%
14725 \ifdim\footmarkwidth < \z@
14726 \llap{\hb@xt@ -\footmarkwidth{%
14727 \hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag] {\@thefnmark}}}%
14728 \hspace*{-\footmarkwidth}}%
14729 \else
14730 \ifdim\footmarkwidth = \z@
14731 {\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag] {\@thefnmark}}}%
14732 \else
14733 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag] {\@
14734 \fi
14735 \fi}
14736 \fi
14737 }

```

98 File framed-xetex-bidi.def

```

14738 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package fo
14739 \renewcommand\TitleBarFrame[3] [] {\begingroup
14740 \ifx\delimiter#1\delimiter
14741 \let\TF@conlab@empty
14742 \else
14743 \def\TF@conlab{% continuation label
14744 \nointerlineskip
14745 \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
14746 \fi
14747 %\let\TF@savecolor\current@color
14748 \textcolor{TFFrameColor}{%
14749 \CustomFBox
14750 {\TF@Title{#2}}{\TF@conlab}%
14751 \fbboxrule\fbboxrule\fbboxrule\fbboxrule
14752 %{\let\current@color\TF@savecolor\set@color #3}%
14753 {\normalcolor #3}%
14754 }\endgroup
14755 }
14756 \renewenvironment{titled-frame}[1]{%
14757 \def\FrameCommand{\fbboxsep8pt\fbboxrule2pt
14758 \TitleBarFrame{\textbf{#1}}}%
14759 \def\FirstFrameCommand{\fbboxsep8pt\fbboxrule2pt
14760 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
14761 \def\MidFrameCommand{\fbboxsep8pt\fbboxrule2pt
14762 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1} (co
14763 \def\LastFrameCommand{\fbboxsep8pt\fbboxrule2pt
14764 \TitleBarFrame{\textbf{#1} (cont)}}}%
14765 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
14766 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
14767 % could interfere with the width measurement.
14768 {\endMakeFramed}
14769 \chardef\FrameRestore=\catcode`\| % for debug
14770 \catcode`\|= \catcode`\% % (debug: insert space after backslash)

```



```

14771 \def\fb@put@frame#1#2{\relax
14772 \ifdim\pagegoal=\maxdimen \pagegoal\vszize \fi
14773 | \message{===== Entering putframe =====^^J
14774 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%
14775 \ifinner
14776 \fb@putboxa#1%
14777 \fb@afterframe
14778 \else
14779 \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
14780 \ifdim\dimen@<2\baselineskip % Too little room on page
14781 | \message{Page has only \the\dimen@\space room left; eject. }%
14782 \eject \fb@adjheight \fb@put@frame#1#2%
14783 \else % there's appreciable room left on the page
14784 \fb@sizeofframe#1%
14785 | \message{\string\pagetotal=\the\pagetotal,
14786 | \string\pagegoal=\the\pagegoal,
14787 | \string\pagestretch=\the\pagestretch,
14788 | \string\pageshrink=\the\pageshrink,
14789 | \string\fb@frh=\the\fb@frh. \space}
14790 | \message{^^JBox of size \the\ht@\tempboxa\space}%
14791 \begingroup % temporarily set \dimen@ to be...
14792 \advance\dimen@.8\pageshrink % maximum space available on page
14793 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
14794 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
14795 \expandafter\endgroup
14796 % expand \ifdim, then restore \dimen@ to real room left on page
14797 \ifdim\dimen@>\ht@\tempboxa % whole box does fit
14798 | \message{fits in \the\dimen@. }%
14799 % ToDo: Change this to use vsplit anyway to capture the marks
14800 % MERGE THIS WITH THE else CLAUSE!!!
14801 \fb@putboxa#1%
14802 \fb@afterframe
14803 \else % box must be split
14804 | \message{must be split to fit in \the\dimen@. }%
14805 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
14806 \fb@sizeofframe#2%
14807 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
14808 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
14809 \kern137sp\kern-137sp\penalty-30
14810 \unvbox\@tempboxa}%
14811 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
14812 \splittopskip\the\splittopskip}%
14813 \boxmaxdepth\z@ \splittopskip\z@
14814 | \message{^^JPadded box of size \the\ht@\tempboxa\space split to \the\dimen@}%
14815 % Split box here
14816 \setbox\tw@\vsplit\@tempboxa to\dimen@
14817 | \toks99\expandafter{\splitfirstmark}%
14818 | \toks98\expandafter{\splitbotmark}%
14819 | \message{Marks are: \the\toks99, \the\toks98. }%
14820 \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
14821 | \message{Natural height of split box is \the\ht\tw@, leaving
14822 | \the\ht@\tempboxa\space remainder. }%
14823 % If the split-to size > (\vszize-\topskip), then set box to full size.
14824 \begingroup

```



```

14825     \advance\dimen@\topskip
14826     \expandafter\endgroup
14827     \ifdim\dimen@>\pagegoal
14828 |     \message{Frame is big -- Use up the full column. }%
14829     \dimen@ii\pagegoal
14830     \advance\dimen@ii -\topskip
14831     \advance\dimen@ii \FrameHeightAdjust\relax
14832     \else % suspect this is implemented incorrectly:
14833     % If the split-to size > feasible room_on_page, rebox it smaller.
14834     \advance\dimen@.8\pageshrink
14835     \ifdim\ht\tw@>\dimen@
14836 |     \message{Box too tall; rebox it to \the\dimen@. }%
14837     \dimen@ii\dimen@
14838     \else % use natural size
14839     \dimen@ii\ht\tw@
14840     \fi
14841     \fi
14842     % Re-box contents to desired size \dimen@ii
14843     \advance\dimen@ii -\fb@frh
14844     \setbox\tw@\vbox to\dimen@ii \bgroup
14845     % remove simulated frame and page flexibility:
14846     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
14847     \unvbox\tw@ \unpenalty\unpenalty
14848     \ifdim\lastkern=-137sp % whole box went to next page
14849 |     \message{box split at beginning! }%
14850     % need work here???
14851     \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
14852     \fb@adjheight
14853     \fb@put@frame#1#2% INSERTED ???
14854     \else % Got material split off at the head
14855     \egroup \fb@resto@set
14856     \ifvoid\@tempboxa % it all fit after all
14857 |     \message{box split at end! }%
14858     \setbox\@tempboxa\box\tw@
14859     \fb@putboxa#1%
14860     \fb@afterframe
14861     \else % it really did split
14862 |     \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
14863     \ifdim\wd\tw@>\z@
14864     \wd\tw@\wd\@tempboxa
14865     \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
14866     \else
14867 |     \message{Zero width means likely blank. Don't frame it (guess)}%
14868     \box\tw@
14869     \fi
14870     \hrule \@height\z@ \@width\hsize
14871     \eject
14872     \fb@adjheight
14873     \fb@put@frame\LastFrameCommand\MidFrameCommand
14874     \fi\fi\fi\fi\fi
14875 }
14876 \def\fb@putboxa#1{%
14877     \ifvoid\@tempboxa
14878     \PackageWarning{framed}{Boxa is void -- discard it. }%

```



```

14879 \else
14880 | \message{Frame and place boxa. }%
14881 | %{\showoutput\showbox\@tempboxa}%
14882 \centerline{#1{\hboxL{\box\@tempboxa}}}%
14883 \fi
14884 }
14885 \catcode`\|=\FrameRestore
14886 \def\FrameRestore{%
14887 \let\if@nobraek\iffalse
14888 \let\if@noskipsec\iffalse
14889 \let\-\@dischyph
14890 \let'\@acci\let`\@accii\let\=\@acciii
14891 % \message{FrameRestore:
14892 % \totalleftmargin=\the \totalleftmargin,
14893 % \rightmargin=\the\rightmargin,
14894 % \listdepth=\the\listdepth. }%
14895 % Test if we are in a list (or list-like paragraph)
14896 \ifnum \ifdim\totalleftmargin>\z@ 1\fi
14897 \ifdim\rightmargin>\z@ 1\fi
14898 \ifnum\listdepth>\z@ 1\fi 0>\z@
14899 % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleft
14900 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
14901 % \labelwidth=\the\labelwidth. }%
14902 \@setminipage % snug fit around the item
14903 % Now try to propageate changes of width from \hsize to list parameters.
14904 % This is deficient, but a more advanced way to indicate modification to text
14905 % dimensions is not (yet) provided; in particular, no separate left/right
14906 % adjustment.
14907 \advance\linewidth-\columnwidth \advance\linewidth\hsize
14908 \parshape\@ne \totalleftmargin \linewidth
14909 \else % Not in list
14910 \linewidth=\hsize
14911 %\message{No list, set \string\linewidth=\the\hsize. }%
14912 \fi
14913 \sloppy
14914 }

```

99 File `ftnright-xetex-bidi.def`

```

14915 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright packag
14916
14917 \def\prepare@bidi@copyins{%
14918 \global\ bidi@rcol@copyinsskip\skip\@bidi@copyins@
14919 \global\skip\@bidi@copyins@\z@
14920 \global\count\@bidi@copyins@\z@
14921 \global\dimen\@bidi@copyins@\textheight}
14922
14923 \newskip\ bidi@rcol@copyinsskip
14924
14925 \def\LTR@outputdblcol{%
14926 \if@firstcolumn
14927 \global\@firstcolumnfalse
14928 \global\setbox\@leftcolumn\copy\@outputbox
14929 \global\count\footins\@m

```



```

14930 \global\skip\footins\rcol@footinsskip
14931 \global\count\@bidi@copyins@\@m
14932 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
14933 \splitmaxdepth\maxdimen
14934 \vbadness\maxdimen
14935 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14936 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14937 \toks@\expandafter{\topmark}%
14938 \xdef\@firstcoltopmark{\the\toks@}%
14939 \toks@\expandafter{\splitfirstmark}%
14940 \xdef\@firstcolfirstmark{\the\toks@}%
14941 \ifx\@firstcolfirstmark\@empty
14942 \global\let\@setmarks\relax
14943 \else
14944 \gdef\@setmarks{%
14945 \let\firstmark\@firstcolfirstmark
14946 \let\topmark\@firstcoltopmark}%
14947 \fi
14948 \else
14949 \preparefootins
14950 \prepare@bidi@copyins
14951 \global\@firstcolumntrue
14952 \setbox\@outputbox\vbox{%
14953 \hb@xt@\textwidth{%
14954 \hb@xt@\columnwidth{%
14955 \bidi@firstcolumn@status@write%
14956 \box\@leftcolumn \hss}%
14957 \hfil
14958 {\normalcolor\vrule \@width\columnseprule}%
14959 \hfil
14960 \hb@xt@\columnwidth{%
14961 \bidi@lastcolumn@status@write%
14962 \box\@outputbox \hss}}}%
14963 \@combinedblfloats
14964 \@setmarks
14965 \@outputpage
14966 \begingroup
14967 \@dblfloatplacement
14968 \@startdblcolumn
14969 \@whilesw\if@fcolmade \fi{\@outputpage
14970 \@startdblcolumn}%
14971 \endgroup
14972 \fi}%
14973
14974 \def\RTL@outputdblcol{%
14975 \if@firstcolumn
14976 \global\@firstcolumnfalse
14977 \global\setbox\@leftcolumn\copy\@outputbox
14978 \global\count\footins\@m
14979 \global\skip\footins\rcol@footinsskip
14980 \global\count\@bidi@copyins@\@m
14981 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
14982 \splitmaxdepth\maxdimen
14983 \vbadness\maxdimen

```




```

14984     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14985     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14986     \toks@\expandafter{\topmark}%
14987     \xdef\@firstcoltopmark{\the\toks@}%
14988     \toks@\expandafter{\splitfirstmark}%
14989     \xdef\@firstcolfirstmark{\the\toks@}%
14990     \ifx\@firstcolfirstmark\@empty
14991         \global\let\@setmarks\relax
14992     \else
14993         \gdef\@setmarks{%
14994             \let\firstmark\@firstcolfirstmark
14995             \let\topmark\@firstcoltopmark}%
14996     \fi
14997 \else
14998 \preparefootins
14999 \prepare@bidi@copyins
15000 \global\@firstcolumntrue
15001 \setbox\@outputbox\vbox{%
15002     \hb@xt@\textwidth{%
15003         \hskip \columnwidth
15004         \hfil
15005         {\normalcolor\vrule \@width\columnseprule}%
15006         \hfil
15007         \hb@xt@\columnwidth{%
15008             \bidi@firstcolumn@status@write%
15009             \box\@leftcolumn \hss}%
15010         \hskip -\textwidth
15011         \hb@xt@\columnwidth{%
15012             \bidi@lastcolumn@status@write%
15013             \box\@outputbox \hss}%
15014         \hskip \columnsep
15015         \hskip \columnwidth }}%
15016 \@combinedblfloats
15017 \@setmarks
15018 \@outputpage
15019 \begingroup
15020 \@dblfloatplacement
15021 \@startdblcolumn
15022 \@whilesw\if@fcolmade \fi{\@outputpage
15023 \@startdblcolumn}%
15024 \endgroup
15025 \fi}%
15026
15027 \def\@startcolumn{%
15028 \ifx\@deferlist\@empty
15029     \global\@fcolmadefalse
15030     \global\@colroom\@colht
15031 \else
15032     \ifvoid\footins\else
15033         \ftn@amount\ht\footins
15034         \advance\ftn@amount\dp\footins
15035         \advance\ftn@amount\skip\footins
15036     \fi
15037     \ifvoid\@bidi@copyins\else

```



```

15038     \bidi@copyins@amount\ht\@bidi@copyins@
15039     \advance\bidi@copyins@amount\dp\@bidi@copyins@
15040     \advance\bidi@copyins@amount\skip\@bidi@copyins@
15041     \fi
15042     \global\advance\@colht-\ftn@amount
15043     \global\advance\@colht-\bidi@copyins@amount
15044     \global\@colroom\@colht
15045     \@xstartcol
15046     \global\advance\@colht\ftn@amount
15047     \global\advance\@colroom\ftn@amount
15048     \global\advance\@colht\bidi@copyins@amount
15049     \global\advance\@colroom\bidi@copyins@amount
15050     \fi
15051     \if@colmade
15052     \setbox\@cclv\box\@outputbox
15053     \@makecol
15054     \else
15055     \ifvoid\footins\else
15056     \insert\footins{\unvbox\footins}\fi
15057     \ifvoid\@bidi@copyins@\else
15058     \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
15059     \fi}
15060
15061 \newdimen\bidi@copyins@amount
15062
15063 \def\@makecol{\if@firstcolumn
15064 \setbox\@outputbox\box\@cclv
15065 \if@twocolumn \else
15066 \ifvoid\footins \else
15067 \latexerr{ftnright package
15068         used in one-column mode}%
15069 {The ftnright package was designed to
15070 work with LaTeX's standard^^Jtwocolumn
15071 option. It does *not* work with the
15072 multicol package.^^JSo please specify
15073 `twocolumn' in the
15074 \noexpand\documentclass command.}%
15075 \shipout\box\footins \fi
15076 \ifvoid\@bidi@copyins@ \else
15077 \latexerr{ftnright package
15078         used in one-column mode}%
15079 {The ftnright package was designed to
15080 work with LaTeX's standard^^Jtwocolumn
15081 option. It does *not* work with the
15082 multicol package.^^JSo please specify
15083 `twocolumn' in the
15084 \noexpand\documentclass command.}%
15085 \shipout\box\@bidi@copyins@ \fi\fi
15086 \ifnum\insertpenalties>\z@
15087 \latexerr{ftnright package
15088         scrambled footnotes}%
15089 {There is too much footnote material in
15090 the first column and ftnright^^Jis
15091 unable to cope with this.^^JYou need

```



```

15092     to reduce the amount to get a properly
15093     formatted page.}%
15094 \fi
15095 \else
15096 \ifvoid\footins
15097   \ifvoid\@bidi@copyins@
15098     \setbox\@outputbox\box\@cclv
15099   \else
15100     \setbox\@outputbox\vbox
15101     {\ifvoid\@cclv \else
15102       \unvbox\@cclv
15103       \vskip \skip\@bidi@copyins@
15104     \fi
15105       \color@begingroup
15106       \normalcolor
15107       \unvbox \@bidi@copyins@
15108       \color@endgroup}%
15109   \fi
15110 \else
15111   \setbox\@outputbox\vbox
15112   {\ifvoid\@cclv \else
15113     \unvbox\@cclv
15114     \vskip\skip\footins\fi
15115     \color@begingroup
15116     \normalcolor
15117     \footnoterule\unvbox\footins
15118     \color@endgroup
15119     \ifvoid\@bidi@copyins@
15120     \else
15121       \vskip \skip\@bidi@copyins@
15122       \color@begingroup
15123       \normalcolor
15124       \unvbox \@bidi@copyins@
15125       \color@endgroup
15126     \fi
15127   }%
15128 \fi
15129 \fi
15130 \xdef\@freelist{\@freelist\@midlist}%
15131 \global \let \@midlist \@empty
15132 \@combinefloats
15133 \ifvbox\@kludgeins
15134   \@makespecialcolbox
15135 \else
15136   \setbox\@outputbox\vbox to\@colht
15137   {\boxmaxdepth\maxdepth
15138     \@texttop
15139     \@tempdima\dp\@outputbox
15140     \unvbox\@outputbox
15141     \vskip-\@tempdima
15142     \@textbottom}%
15143 \fi
15144 \global\maxdepth\@maxdepth}
15145

```



```

15146 \let\leftfootnoterule\@empty
15147 \let\rightfootnoterule\@empty
15148 \let\textwidthfootnoterule\@empty
15149 \let\autofootnoterule\@empty
15150 \let\footnoterule\@empty
15151 \long\def\@makefnctext#1{\parindent 1em
15152   \noindent\hbox to 2em{}}%
15153   \llap{\@thefnmark\hbox{.}\,\,}\,#1}
15154
15155 \setlength{\skip\@bidi@copyins@}
15156   {10pt plus 5pt minus 3pt}
15157 \AtBeginDocument{\prepare@bidi@copyins}

```

100 File graphicx-xetex-bidi.def

```

15158 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx packag
15159 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
15160   \Grot@setangle{#1}%
15161   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RT
15162   \Grot@x\z@
15163   \Grot@y\z@
15164   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
15165 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15166   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3
15167   \Grot@x\width \divide\Grot@x\tw@
15168   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
15169   \setkeys{Grot}{#1}%
15170   \setbox\z@\box@tempboxa
15171   \Grot@setangle{#2}%
15172   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15173   \@end@tempboxa}
15174 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15175   \leavevmode
15176   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15177   \setbox\z@\hbox{{#3}}%
15178   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15179   \ifdim#2\p@<\z@
15180     \ht\tw@-#2\dp\z@
15181     \dp\tw@-#2\ht\z@
15182   \else
15183     \ht\tw@#2\ht\z@
15184     \dp\tw@#2\dp\z@
15185   \fi
15186   \ifdim#1\p@<\z@
15187     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15188   \else
15189     \wd\tw@#1\wd\z@
15190     \box\tw@
15191   \fi\ifmmode\else\if@RTL\endL\fi\fi}
15192 \def\Gin@iii[#1,#2][#3,#4]#5{%
15193   \begingroup
15194   \ifmmode\else\if@RTL\beginL\fi\fi
15195   \Gin@bboxtrue
15196   \Gin@defaultbp\Gin@llx{#1}%

```



```

15197 \Gin@defaultbp\Gin@lly{#2}%
15198 \Gin@defaultbp\Gin@urx{#3}%
15199 \Gin@defaultbp\Gin@ury{#4}%
15200 \Gin@include@graphics{#5}%
15201 \ifmmode\else\if@RTL\endL\fi\fi
15202 \endgroup}
15203 \def\Gin@ii[#1]#2{%
15204   \def\@tempa{[]}\def\@tempb{#2}%
15205   \ifx\@tempa\@tempb
15206     \def\@tempa{\Gin@iii[#1] []}%
15207     \expandafter\@tempa
15208   \else
15209     \begingroup
15210       \ifmmode\else\if@RTL\beginL\fi\fi
15211       \@tempswafalse
15212       \toks@{\Gin@include@graphics{#2}}%
15213       \setkeys{Gin}{#1}%
15214       \Gin@esetsize
15215       \the\toks@
15216       \ifmmode\else\if@RTL\endL\fi\fi
15217     \endgroup
15218     \fi}
15219 \def\reflectbox{\bidiGscale@box-1[1]}
15220 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15221   \leavevmode
15222   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15223   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
15224   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15225   \ifdim#2\p@<\z@
15226     \ht\tw@-#2\dp\z@
15227     \dp\tw@-#2\ht\z@
15228   \else
15229     \ht\tw@#2\ht\z@
15230     \dp\tw@#2\dp\z@
15231   \fi
15232   \ifdim#1\p@<\z@
15233     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15234   \else
15235     \wd\tw@#1\wd\z@
15236     \box\tw@
15237   \fi\ifmmode\else\if@RTL\endL\fi\fi}
15238 \def\scalebox#1{%
15239   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}]
15240 \def\resizebox{%
15241   \leavevmode
15242   \@ifstar{\bidiGscale@@box@totalheight}{\bidiGscale@@box@height}}
15243 \def\bidiGscale@@box#1#2#3{%
15244   \let\@tempa\Gin@exclamation
15245   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
15246   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
15247   \ifx\@tempb\@tempa
15248     \ifx\@tempc\@tempa
15249       \toks@{\mbox}%
15250     \else

```



```

15251     \toks@{\bidiGscale@box@dd{#3}#1}%
15252     \fi
15253   \else
15254     \ifx\@tempc\@tempa
15255       \toks@{\bidiGscale@box@dd{#2}\width}%
15256     \else
15257       \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
15258     \fi
15259   \fi
15260   \the\toks@}
15261 \long\def\bidiGscale@box@dd#1#2#3{%
15262   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15263   \setlength\@tempdima{#1}%
15264   \setlength\@tempdimb{#2}%
15265   \Gscale@div\@tempa\@tempdima\@tempdimb
15266   \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
15267   \@end@tempboxa}
15268 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
15269   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
15270   \setlength\@tempdima{#1}%
15271   \setlength\@tempdimb{#2}%
15272   \Gscale@div\@tempa\@tempdima\@tempdimb
15273   \setlength\@tempdima{#3}%
15274   \setlength\@tempdimb{#4}%
15275   \Gscale@div\@tempb\@tempdima\@tempdimb
15276   \ifGin@iso
15277     \ifdim\@tempa\p@>\@tempb\p@
15278       \let\@tempa\@tempb
15279     \else
15280       \let\@tempb\@tempa
15281     \fi
15282   \fi
15283   \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
15284   \@end@tempboxa}

```

101 File geometry-xetex-bidi.def

```

15285 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
15286 \renewcommand*{\Gm@vrules@mpi}{%
15287 \if@RTLmain%
15288   \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15289   \llap{\Gm@vrule}\ignorespaces
15290   \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15291   \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
15292   \else%
15293   \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15294   \hskip \textwidth\Gm@vrule\hskip \marginparsep
15295   \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
15296 \renewcommand*{\Gm@vrules@mpii}{%
15297 \if@RTLmain%
15298   \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15299   \hskip \textwidth\Gm@vrule\hskip \marginparsep
15300   \llap{\Gm@vrule}\hfil\Gm@vrule}%
15301 \else%

```



```

15302 \hb@xt@{@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15303 \llap{\Gm@vrule}\ignorespaces
15304 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15305 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
15306 \bidi@patchcmd{\Gm@pageframes}{%
15307 \ifodd\count\z@
15308 \let\@themargin\oddsidemargin
15309 \else
15310 \let\@themargin\evensidemargin
15311 \fi
15312 }{%
15313 \ifodd\count\z@
15314 \if@RTLmain
15315 \let\@themargin\evensidemargin
15316 \else
15317 \let\@themargin\oddsidemargin
15318 \fi
15319 \else
15320 \if@RTLmain
15321 \let\@themargin\oddsidemargin
15322 \else
15323 \let\@themargin\evensidemargin
15324 \fi
15325 \fi
15326 }{}{}

```

102 File hgeneric-testphase-xetex-bidi.def

```

15327 \ProvidesFile{hgeneric-testphase-xetex-bidi.def}[2025/09/26 v0.3 bidi adaptations for gener
15328 \ExplSyntaxOn
15329 \bidi@undef\hyper@linkstart
15330 \bidi@undef\hyper@linkend
15331 \cs_new_protected:Npn \hyper@linkstart #1 #2 %#1 context, #2=destination name
15332 {
15333 \bool_if:NT \l__hyp_annot_GoTo_bool
15334 {
15335 \int_gincr:N\g__hyp_linknestlevel_int
15336 \__hyp_check_link_nesting:TF
15337 {
15338 \Hy@VerboseLinkStart{#1}{#2}% only for debug
15339 \group_begin:
15340 \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15341 \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{}
15342 \hook_use:n {hyp/link/#1}
15343 \ifmode\else\beginL\fi
15344 \__hyp_link_goto_begin:nw {#2}
15345 }
15346 {
15347 \group_begin:
15348 }
15349 }
15350 }
15351
15352 \cs_new_protected:Npn \hyper@linkend

```



```

15353 {
15354   \bool_if:NT \l__hyp_annot_GoTo_bool
15355   {
15356     \__hyp_check_link_nesting:TF
15357     {
15358       \__hyp_link_goto_end:
15359       \ifmode\else\endL\fi
15360       \group_end:
15361       \Hy@VerboseLinkStop
15362     }
15363     {
15364       \group_end:
15365     }
15366     \int_gdecr:N\g__hyp_linknestlevel_int
15367   }
15368 }
15369 \AtBeginDocument{%
15370 \bidi@undef\hyper@link
15371 \bidi@undef\hyper@linkfile
15372 \bidi@undef\hyper@linkurl
15373 \bidi@undef\hyper@linknamed
15374 \cs_new_protected:Npn \hyper@link #1 #2 #3 % #1 context, #2=destination name, #3 content
15375 {
15376   \bool_if:NTF \l__hyp_annot_GoTo_bool
15377   {
15378     \int_gincr:N\g__hyp_linknestlevel_int
15379     \__hyp_check_link_nesting:TF
15380     {
15381       \Hy@VerboseLinkStart{#1}{#2}
15382       \group_begin:
15383       \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15384       \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{#3}
15385       \hook_use:n {hyp/link/#1}
15386       \ifmode\else\beginL\fi
15387       \__hyp_link_goto_begin:nw {#2}\ifmode\else@if@RTL\beginR\fi\fi#3\ifmode\else\
15388       \__hyp_link_goto_end:
15389       \ifmode\else\endL\fi
15390       \group_end:
15391       \Hy@VerboseLinkStop
15392     }
15393     {
15394       \group_begin: #3\group_end:
15395     }
15396     \int_gdecr:N\g__hyp_linknestlevel_int
15397   }
15398   {\let\protect\relax#3}}
15399 }
15400 \cs_new_protected:Npn \hyper@linkfile #1 #2 #3 % link text, filename, destname
15401 {
15402   \bool_if:NTF \l__hyp_annot_GoToR_bool
15403   {
15404     \int_gincr:N\g__hyp_linknestlevel_int
15405     \__hyp_check_link_nesting:TF
15406     {

```




```

15407 \group_begin:
15408 \tl_set:Nc \l__hyp_filename_tmpa_tl { \text_expand:n { #2 } }
15409 \exp_args:Nc
15410 \pdf_object_if_exist:nF { __hyp_file\__tl_to_str:N \l__hyp_filename_tmpa_tl }
15411 {
15412 \pdfdict_put:nne { l_pdffile/Filespec}{Subtype}{\pdf_name_from_unicode_e:
15413 \pdffile_embed_file:noe
15414 {}
15415 {\l__hyp_filename_tmpa_tl }
15416 {\__hyp_file\__tl_to_str:N \l__hyp_filename_tmpa_tl }
15417 }
15418 \pdfdict_put:nne
15419 {l_hyp/annot/A/GoToR}
15420 {F}
15421 {\pdf_object_ref:e {\__hyp_file\__tl_to_str:N \l__hyp_filename_tmpa_tl}}
15422 \__hyp_text_pdfstring:nnN
15423 { #3 }
15424 { \l__hyp_text_enc_dest_print_tl }
15425 \l__hyp_dest_name_tmpa_tl
15426 \socket_use:nn{hyp/link/GoToR/Contents}{#2}
15427 \tl_if_blank:eTF {#3}
15428 {
15429 \pdfdict_put:nne {l_hyp/annot/A/GoToR}{D}
15430 {
15431 [
15432 \int_eval:n
15433 { \int_max:nn {0}{ 0\l__hyp_href_pdf_page_tl - 1 }}
15434 /\l__hyp_dest_pdfremotestartview_tl
15435 ]
15436 }
15437 }
15438 {
15439 \pdfdict_put:nno {l_hyp/annot/A/GoToR}{D}{\l__hyp_dest_name_tmpa_tl}
15440 }
15441 \mode_leave_vertical:
15442 \pdf_object_unnamed_write:ne{dict}{\pdfdict_use:n {l_hyp/annot/A/GoToR}}
15443 \pdfannot_dict_put:nne {link/GoToR}{A}{\pdf_object_ref_last:}
15444 \ifmmode\else\beginL\fi
15445 \pdfannot_link:nnn %expansion??
15446 { GoToR }
15447 {
15448 }
15449 {
15450 \let\protect\relax
15451 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace
15452 \Hy@VerboseLinkStop %where is the start??
15453 }
15454 \ifmmode\else\endL\fi
15455 \group_end:
15456 }
15457 {
15458 \group_begin: #1 \group_end:
15459 }
15460 \int_gdecr:N\g__hyp_linknestlevel_int

```



```

15461     }
15462     {{\let\protect\relax#1}}
15463   }
15464 \cs_new_protected:Npn \hyper@linkurl #1 #2 %#1:link text #2: URI,
15465   {
15466     \bool_if:NTF \l__hyp_annot_URI_bool
15467     {
15468       \int_gincr:N\g__hyp_linknestlevel_int
15469       \__hyp_check_link_nesting:TF
15470       {
15471         \group_begin:
15472         \__hyp_text_pdfstring:eoN
15473         { #2}
15474         { \l__hyp_text_enc_uri_print_tl }
15475         \l__hyp_uri_tmpa_tl
15476         \pdfdict_put:nno{l_hyp/annot/A/URI}{URI}{\l__hyp_uri_tmpa_tl}
15477         \bool_if:NT \l__hyp_href_url_ismap_bool
15478         {
15479           \pdfdict_put:nnn{l_hyp/annot/A/URI}{IsMap}{true}
15480         }
15481         \socket_use:nn{hyp/link/URI/Contents}{#2}
15482         \cs_set_eq:NN \# \c_hash_str
15483         \cs_set_eq:NN \% \c_percent_str
15484         \Hy@safe@activestru
15485         \mode_leave_vertical:
15486         \pdfannot_dict_put:nne {link/URI}{A}{<<\pdfdict_use:n {l_hyp/annot/A/URI}>>}
15487         \ifmode\else\beginL\fi
15488         \pdfannot_link:nen { URI }
15489         {
15490         }
15491         {
15492           \let\protect\relax
15493           \ifmode\else\if@RTL\beginR\fi\fi#1\ifmode\else\if@RTL\endR\fi\fi
15494           \Hy@xspace@end
15495           \Hy@VerboseLinkStop %where is the start??
15496         }
15497         \ifmode\else\endL\fi
15498         \group_end:
15499       }
15500     {
15501       \group_begin: #1 \group_end:
15502     }
15503     \int_gdecr:N\g__hyp_linknestlevel_int
15504   }
15505   {{\let\protect\relax#1}}
15506 }
15507 \RenewDocumentCommand \Acrobatmenu { m m }
15508 {
15509   \hyper@linknamed {#1} {#2}
15510 }
15511 \cs_new_protected:Npn \hyper@linknamed #1 #2 %#1 action, #2 link text
15512 {
15513   \bool_if:NTF \l__hyp_annot_Named_bool
15514   {

```



```

15515     \int_gincr:N\g__hyp_linknestlevel_int
15516     \__hyp_check_link_nesting:TF
15517     {
15518         \group_begin:
15519         \pdfmeta_standard_verify:nnTF {named_actions}{#1}
15520         {
15521             \mode_leave_vertical:
15522             \pdfdict_put:nne {l_hyp/annot/A/Named}{N}
15523             {\pdf_name_from_unicode_e:n{#1}}
15524             \pdfannot_dict_put:nne {link/Named}{A}{<<\pdfdict_use:n {l_hyp/annot/A/Name
15525             \ifmmode\else\beginL\fi
15526             \pdfannot_link:nnn { Named }
15527             {
15528                 % /A
15529                 % <<
15530                 % \pdfdict_use:n { l_hyp/annot/A/Named }
15531                 % >>
15532             }
15533             {
15534                 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi
15535                 \Hy@xspace@end
15536                 \Hy@VerboseLinkStop
15537             }
15538             \ifmmode\else\endL\fi
15539         }
15540         {
15541             \msg_warning:nnn { hyp } { pdfa-no-named-action }{#1}
15542             #2
15543         }
15544         \group_end:
15545     }
15546     { \group_begin: #2 \group_end: }
15547     \int_gdecr:N\g__hyp_linknestlevel_int
15548 }
15549 {{\let\protect\relax#2}}
15550 }
15551 }
15552 \bidi@patchcmd\@TextField{%
15553   \pdfannot_box:nnnn
15554 }{%
15555   \if@RTL
15556     \hskip\Fld@width
15557   \fi
15558   \pdfannot_box:nnnn
15559 }{}{}
15560 \bidi@patchcmd\@TextField{%
15561   \MakeTextField{\Fld@width}{\Fld@height}
15562 }{%
15563   \if@RTL
15564     \hskip-\Fld@width
15565   \fi
15566   \MakeTextField{\Fld@width}{\Fld@height}
15567 }{}{}
15568 \ExplSyntaxOff

```



103 File hvfloat-xetex-bidi.def

```
15569 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package
15570 \def\do@hvFloat[#1]#2#3{%
15571 \def\hv@shortCap{#1}
15572 \def\hv@longCap{#2}
15573 \def\hv@label{#3}
15574 %\newcommand*{\hvFloat}[5] [] {%
15575 % [#1]: keyvalues
15576 % #2: type figure | table | ...
15577 % #3: float contents
15578 % [#4]: short caption
15579 % #5: caption
15580 % #6: label
15581 % \setDefault%
15582 \def\@tempa{#1}%
15583 \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
15584 \def\@tempa{90}%
15585 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
15586 \else \setlength{\hvMaxCapWidth}{\linewidth}
15587 \fi
15588 %
15589 % First we save the object in \hvObjectBox
15590 %
15591 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
15592 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
15593 \else
15594 \savebox{\hvObjectBox}{%
15595 \rotatebox{\hvSet@objectAngle}{%
15596 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
15597 \fi
15598 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
15599 %
15600 % Now we save the caption with its defined \hvCapWidth
15601 %
15602 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
15603 \else
15604 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
15605 \else
15606 \setlength{\hvCapWidth}{\hvObjectWidth}
15607 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15608 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15609 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
15610 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
15611 \else
15612 \setlength{\hvCapWidth}{\hvMaxCapWidth}
15613 \fi
15614 \fi
15615 \fi
15616 %
15617 % now we have the object and the caption with the right
15618 % rotated angles saved in boxes
15619 %
15620 \def\fps@figure{\hvSet@floatPos}
```



```

15621 \ifhv@nonFloat\begin{group}% Start the nonfloat part
15622 \else \begin{\hv@floatType}% Start the floating environment
15623 \fi%
15624 \saveCaptionSkip% we put this space ourselves
15625 \ifx\hvSet@capAngle\hv@Width % need rotation?
15626 \sbox{\hvCaptionBox}{%
15627 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15628 \ifhv@nonFloat%
15629 \ifhv@onlyText#2%
15630 \else%
15631 \ifx\hv@floatType\hv@figure
15632 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15633 \else
15634 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15635 \fi
15636 \fi
15637 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15638 \fi%
15639 \label{#3}%
15640 \end{minipage}%
15641 }%
15642 \else%
15643 \sbox{\hvCaptionBox}{%
15644 \rotatebox{\hvSet@capAngle}{%
15645 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15646 \ifhv@nonFloat%
15647 \ifhv@onlyText#2%
15648 \else%
15649 \ifx\hv@floatType\hv@figure
15650 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15651 \else
15652 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15653 \fi
15654 \fi
15655 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15656 \fi%
15657 \label{#3}%
15658 \end{minipage}%
15659 }%
15660 }%
15661 \fi%
15662 %%
15663 \restoreCaptionSkip% save old values
15664 \ifx\hvSet@objectPos\hv@Right\bidicraggedleft%
15665 \else%
15666 \ifx\hvSet@objectPos\hv@Center
15667 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
15668 \fi%
15669 \fi%
15670 %
15671 % to rotate object and caption together, we save all in another box
15672 % the caption comes first, if its on the left or the top
15673 %
15674 \savebox{\@tempboxa}{%

```



```

15675 \ifx\hvSet@capPos\hv@Left % caption on left side
15676 \if@RTL%
15677 \ifx\hvSet@capVPos\hv@Center%
15678     \ifhv@fbox
15679         \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15680     \else
15681         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15682     \fi%
15683     \hspace{\hvSet@floatCapSep pt}%
15684     \ifhv@fbox
15685         \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15686     \else
15687         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15688     \fi%
15689 \else%
15690 \ifx\hvSet@capVPos\hv@Top
15691     \ifhv@fbox
15692         \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15693     \else
15694         \raisebox{-\height}{\usebox{\hvObjectBox}}%
15695     \fi%
15696     \hspace{\hvSet@floatCapSep pt}%
15697     \ifhv@fbox
15698         \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15699     \else
15700         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15701     \fi
15702 \else
15703     \ifhv@fbox
15704         \fbox{\usebox{\hvObjectBox}}%
15705     \else
15706         \usebox{\hvObjectBox}%
15707     \fi
15708     \hspace{\hvSet@floatCapSep pt}%
15709     \ifhv@fbox
15710         \fbox{\usebox{\hvCaptionBox}}%
15711     \else
15712         \usebox{\hvCaptionBox}%
15713     \fi%
15714 \fi%
15715 \fi%
15716 \else% not RTL
15717     \ifx\hvSet@capVPos\hv@Center%
15718         \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15719     \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15720     \fi%
15721     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15722     \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15723     \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15724     \fi%
15725 \else%
15726     \ifx\hvSet@capVPos\hv@Top % caption at top
15727         \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15728     \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%

```



```

15729     \fi
15730     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15731     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15732     \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
15733     \fi%
15734 \else% caption on bottom
15735     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15736         \else\usebox{\hvCaptionBox}
15737     \fi%
15738     \hspace{\hvSet@floatCapSep pt}%
15739     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15740     \else     \usebox{\hvObjectBox}
15741     \fi%
15742 \fi%
15743 \fi% end of RTL
15744 \fi%
15745 \else
15746     \ifx\hvSet@capPos\hv@Top
15747     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15748         \begin{minipage}{\wd\hvCaptionBox}
15749     \else
15750         \begin{minipage}{\wd\hvObjectBox}
15751     \fi
15752     \centering
15753     \ifhv@fbox
15754         \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
15755         \fbbox{\usebox{\hvObjectBox}}
15756     \else
15757         \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
15758         \usebox{\hvObjectBox}
15759     \fi%
15760     \end{minipage}
15761 \else
15762     \ifx\hvSet@capPos\hv@Bottom
15763     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15764         \begin{minipage}{\wd\hvCaptionBox}
15765     \else
15766         \begin{minipage}{\wd\hvObjectBox}
15767     \fi
15768     \centering
15769     \ifhv@fbox
15770         \fbbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
15771         \fbbox{\usebox{\hvCaptionBox}}
15772     \else
15773         \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
15774         \usebox{\hvCaptionBox}
15775     \fi%
15776     \end{minipage}
15777     \else% the last option: put the caption on the right
15778 \if@RTL%
15779     \ifx\hvSet@capVPos\hv@Center%
15780     \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15781     \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15782     \fi%

```



```

15783 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15784 \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15785 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15786 \fi%
15787 \else%
15788 \ifx\hvSet@capVPos\hv@Top % caption at top
15789 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15790 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15791 \fi
15792 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15793 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15794 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15795 \fi%
15796 \else% caption on bottom
15797 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15798 \else\usebox{\hvCaptionBox}
15799 \fi%
15800 \hspace{\hvSet@floatCapSep pt}%
15801 \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15802 \else \usebox{\hvObjectBox}
15803 \fi%
15804 \fi%
15805 \fi%
15806 \else% not RTL
15807 \ifx\hvSet@capVPos\hv@Center%
15808 \ifhv@fbox
15809 \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15810 \else
15811 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15812 \fi%
15813 \hspace{\hvSet@floatCapSep pt}%
15814 \ifhv@fbox
15815 \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15816 \else
15817 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15818 \fi%
15819 \else%
15820 \ifx\hvSet@capVPos\hv@Top
15821 \ifhv@fbox
15822 \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15823 \else
15824 \raisebox{-\height}{\usebox{\hvObjectBox}}%
15825 \fi%
15826 \hspace{\hvSet@floatCapSep pt}%
15827 \ifhv@fbox
15828 \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15829 \else
15830 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15831 \fi
15832 \else
15833 \ifhv@fbox
15834 \fbbox{\usebox{\hvObjectBox}}%
15835 \else
15836 \usebox{\hvObjectBox}%

```




```

15837     \fi
15838     \hspace{\hvSet@floatCapSep pt}%
15839     \ifhv@fbox
15840     \fbox{\usebox{\hvCaptionBox}}%
15841     \else
15842     \usebox{\hvCaptionBox}%
15843     \fi%
15844     \fi%
15845     \fi
15846 \fi% end of RTL
15847     \fi
15848     \fi
15849     \fi
15850 }% End savebox Object and caption
15851 %
15852 % now we rotate the object and caption, if needed
15853 %
15854 \ifx\hvSet@rotAngle\hv@Zero
15855 \usebox{\@tempboxa}
15856 \else
15857 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
15858 \fi
15859 \ifhv@nonFloat
15860 \ifx\hvSet@objectPos\hv@Center
15861 \ifhv@nonFloat
15862 \hspace{\fill}
15863 \fi
15864 \fi
15865 \endgroup% End the nonfloat part
15866 \else
15867 \end{\hv@floatType}% End the floating environment
15868 \fi
15869 }

```

104 File hyperref-xetex-bidi.def

```

15870 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
15871 \AtBeginDocument{%
15872 \def\contentsline#1#2#3#4{%
15873 \ifx\#4\%
15874 \csname l@#1\endcsname{#2}{#3}%
15875 \else
15876 \ifcase\Hy@linktoc % none
15877 \csname l@#1\endcsname{#2}{#3}%
15878 \or % section
15879 \csname l@#1\endcsname{%
15880 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15881 }{#3}%
15882 \or % page
15883 \csname l@#1\endcsname{{#2}}{#3}%
15884 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15885 }%
15886 \else % all
15887 \csname l@#1\endcsname{%

```



```

15888     \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15889   }{%
15890     \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15891   }%
15892   \fi
15893   \fi
15894 }
15895 \ifHy@hyperfootnotes
15896   \let\H@@footnotetext\@footnotetext
15897   \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
15898   \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
15899   \def\@xfootnotenext[#1]{%
15900     \begingroup
15901       \csname c@\@mpfn\endcsname #1\relax
15902       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15903     \endgroup
15904     \ifx\@footnotetext\@mpfootnotetext
15905       \expandafter\H@@mpfootnotetext
15906     \else
15907       \expandafter\H@@footnotetext
15908     \fi
15909   }%
15910   \def\@xRTLfootnotenext[#1]{%
15911     \begingroup
15912       \csname c@\@mpfn\endcsname #1\relax
15913       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15914     \endgroup
15915     \ifx\@RTLfootnotetext\@mpRTLfootnotetext
15916       \expandafter\HRTL@@mpRTLfootnotetext
15917     \else
15918       \expandafter\HRTL@@RTLfootnotetext
15919     \fi
15920   }%
15921   \def\@xLTRfootnotenext[#1]{%
15922     \begingroup
15923       \csname c@\@mpfn\endcsname #1\relax
15924       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15925     \endgroup
15926     \ifx\@LTRfootnotetext\@mpLTRfootnotetext
15927       \expandafter\HLTR@@mpLTRfootnotetext
15928     \else
15929       \expandafter\HLTR@@LTRfootnotetext
15930     \fi
15931   }%
15932   \def\@xfootnotemark[#1]{%
15933     \begingroup
15934       \c@footnote #1\relax
15935       \unrestored@protected@xdef\@thefnmark{\thefootnote}%
15936     \endgroup
15937     \H@@footnotemark
15938   }%
15939   \let\H@@mpfootnotetext\@mpfootnotetext
15940   \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
15941   \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext

```



```

15942 \long\def\@mpfootnotetext#1{%
15943 \H@mpfootnotetext{%
15944   \ifHy@nesting
15945     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15946   \else
15947     \Hy@raisedlink{%
15948       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15949     }#1%
15950   \fi
15951 }%
15952 }%
15953 \long\def\@mpRTLfootnotetext#1{%
15954 \HRTL@mpRTLfootnotetext{%
15955   \ifHy@nesting
15956     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15957   \else
15958     \Hy@raisedlink{%
15959       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15960     }#1%
15961   \fi
15962 }%
15963 }%
15964 \long\def\@mpLTRfootnotetext#1{%
15965 \HLTR@mpLTRfootnotetext{%
15966   \ifHy@nesting
15967     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15968   \else
15969     \Hy@raisedlink{%
15970       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15971     }#1%
15972   \fi
15973 }%
15974 }%
15975 \long\def\@footnotetext#1{%
15976 \H@@footnotetext{%
15977   \ifHy@nesting
15978     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15979   \else
15980     \Hy@raisedlink{%
15981       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15982     }%
15983     \let\@currentHlabel\Hy@footnote@currentHlabel
15984     \let\@currentHref\Hy@footnote@currentHref
15985     \let\@currentlabelname\@empty
15986     #1%
15987   \fi
15988 }%
15989 }%
15990 \long\def\@RTLfootnotetext#1{%
15991 \HRTL@RTLfootnotetext{%
15992   \ifHy@nesting
15993     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15994   \else
15995     \Hy@raisedlink{%

```



```

15996         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15997     }%
15998     \let\@currentHlabel\Hy@footnote@currentHlabel
15999     \let\@currentHref\Hy@footnote@currentHref
16000     \let\@currentlabelname\@empty
16001     #1%
16002     \fi
16003 }%
16004 }%
16005 \long\def\@LTRfootnotetext#1{%
16006 \HLTR@@LTRfootnotetext{%
16007     \ifHy@nesting
16008         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
16009     \else
16010         \Hy@raisedlink{%
16011             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
16012         }%
16013         \let\@currentHlabel\Hy@footnote@currentHlabel
16014         \let\@currentHref\Hy@footnote@currentHref
16015         \let\@currentlabelname\@empty
16016         #1%
16017     \fi
16018 }%
16019 }%
16020 \ApplyPatchCodeToPackage{tabularx}{%
16021 \let\HyOrg@TX@endtabularx\TX@endtabularx
16022 \def\Hy@tabularx@hook{%
16023     \let\@footnotetext\H@@footnotetext
16024     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16025     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16026     \let\@footnotemark\H@@footnotemark
16027     \let\@mpfootnotetext\H@@mpfootnotetext
16028     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
16029     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
16030 }%
16031 \begingroup
16032     \toks@ \expandafter{\TX@endtabularx}%
16033     \xdef\Hy@gtemp{%
16034         \noexpand\Hy@tabularx@hook
16035         \the\toks@
16036     }%
16037 \endgroup
16038 \let\TX@endtabularx\Hy@gtemp
16039 }%
16040 \ApplyPatchCodeToPackage{longtable}{%
16041 \CheckCommand{\LT@p@LTRftntext}[1]{%
16042     \edef\@tempa{%
16043         \the\LT@p@ftn
16044         \noexpand\LTRfootnotetext[\the\c@footnote]%
16045     }%
16046     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16047 }%
16048 \long\def\LT@p@LTRftntext#1{%
16049     \edef\@tempa{%

```



```

16050     \the\LT@p@ftn
16051     \begingroup
16052     \noexpand\c@footnote=\the\c@footnote\relax
16053     \noexpand\protected@xdef\noexpand\@thefnmark{%
16054         \noexpand\thempfn
16055     }%
16056     \noexpand\Hy@LT@LTRfootnotetext{%
16057         \Hy@footnote@currentHref
16058     }%
16059     }%
16060     \global\LT@p@ftn\expandafter{%
16061         \@tempa{#1}%
16062     \endgroup
16063     }%
16064 }%
16065 \long\def\Hy@LT@LTRfootnotetext#1#2{%
16066     \HLTR@LTRfootnotetext{%
16067         \ifHy@nesting
16068             \hyper@@anchor{#1}{#2}%
16069         \else
16070             \Hy@raisedlink{%
16071                 \hyper@@anchor{#1}{\relax}%
16072             }%
16073             \def\@currentHref{#1}%
16074             \let\@currentlabelname\@empty
16075             #2%
16076         \fi
16077     }%
16078 }%
16079 \CheckCommand{\LT@p@RTLftntext}[1]{%
16080     \edef\@tempa{%
16081         \the\LT@p@ftn
16082         \noexpand\RTLfootnotetext[\the\c@footnote]%
16083     }%
16084     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16085 }%
16086 \long\def\LT@p@RTLftntext#1{%
16087     \edef\@tempa{%
16088         \the\LT@p@ftn
16089         \begingroup
16090             \noexpand\c@footnote=\the\c@footnote\relax
16091             \noexpand\protected@xdef\noexpand\@thefnmark{%
16092                 \noexpand\thempfn
16093             }%
16094             \noexpand\Hy@LT@RTLfootnotetext{%
16095                 \Hy@footnote@currentHref
16096             }%
16097         }%
16098     \global\LT@p@ftn\expandafter{%
16099         \@tempa{#1}%
16100     \endgroup
16101     }%
16102 }%
16103 \long\def\Hy@LT@RTLfootnotetext#1#2{%

```



```

16104 \HRTL@RTLfootnotetext{%
16105   \ifHy@nesting
16106     \hyper@@anchor{#1}{#2}%
16107   \else
16108     \Hy@raisedlink{%
16109       \hyper@@anchor{#1}{\relax}%
16110     }%
16111     \def\@currentHref{#1}%
16112     \let\@currentlabelname\@empty
16113     #2%
16114   \fi
16115 }%
16116 }%
16117 }%
16118 \ApplyPatchCodeToPackage{bidipoem}{%
16119 \long\def\bidipoem@p@ftntext#1{%
16120   \edef\@tempx{%
16121     \the\bidipoem@p@ftn
16122   \begingroup
16123     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16124     \noexpand\protected@xdef\noexpand\@thefnmark{%
16125       \noexpand\thempfn
16126     }%
16127     \noexpand\Hy@bidipoem@footnotetext{%
16128       \Hy@footnote@currentHref
16129     }%
16130   }%
16131   \global\bidipoem@p@ftn\expandafter{%
16132     \@tempx{#1}%
16133   \endgroup
16134 }%
16135 }%
16136 \long\def\Hy@bidipoem@footnotetext#1#2{%
16137   \H@@footnotetext{%
16138     \ifHy@nesting
16139       \hyper@@anchor{#1}{#2}%
16140     \else
16141       \Hy@raisedlink{%
16142         \hyper@@anchor{#1}{\relax}%
16143       }%
16144       \def\@currentHref{#1}%
16145       \let\@currentlabelname\@empty
16146       #2%
16147     \fi
16148   }%
16149 }%
16150 \long\def\bidipoem@p@LTRftntext#1{%
16151   \edef\@tempxi{%
16152     \the\bidipoem@p@ftn
16153   \begingroup
16154     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16155     \noexpand\protected@xdef\noexpand\@thefnmark{%
16156       \noexpand\thempfn
16157     }%

```



```

16158         \noexpand\Hy@bidipoem@LTRfootnotetext{%
16159             \Hy@footnote@currentHref
16160         }%
16161     }%
16162     \global\bidipoem@p@ftn\expandafter{%
16163         \@tempxi{#1}%
16164     \endgroup
16165     }%
16166 }%
16167 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
16168     \HLTR@@LTRfootnotetext{%
16169         \ifHy@nesting
16170             \hyper@@anchor{#1}{#2}%
16171         \else
16172             \Hy@raisedlink{%
16173                 \hyper@@anchor{#1}{\relax}%
16174             }%
16175             \def\@currentHref{#1}%
16176             \let\@currentlabelname\@empty
16177             #2%
16178         \fi
16179     }%
16180 }%
16181     \long\def\bidipoem@p@RTLftntext#1{%
16182     \edef\@tempxii{%
16183         \the\bidipoem@p@ftn
16184     \begingroup
16185         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16186         \noexpand\protected@xdef\noexpand\@thefnmark{%
16187             \noexpand\thempfn
16188         }%
16189         \noexpand\Hy@bidipoem@RTLfootnotetext{%
16190             \Hy@footnote@currentHref
16191         }%
16192     }%
16193     \global\bidipoem@p@ftn\expandafter{%
16194         \@tempxii{#1}%
16195     \endgroup
16196     }%
16197 }%
16198 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
16199     \HRTL@@RTLfootnotetext{%
16200         \ifHy@nesting
16201             \hyper@@anchor{#1}{#2}%
16202         \else
16203             \Hy@raisedlink{%
16204                 \hyper@@anchor{#1}{\relax}%
16205             }%
16206             \def\@currentHref{#1}%
16207             \let\@currentlabelname\@empty
16208             #2%
16209         \fi
16210     }%
16211 }%

```



```

16212 }%
16213 \let\HyOrg@maketitle\maketitle
16214 \def\maketitle{%
16215   \let\Hy@saved@footnotemark\@footnotemark
16216   \let\Hy@saved@footnotetext\@footnotetext
16217   \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
16218   \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
16219   \let\@footnotemark\H@@footnotemark
16220   \let\@footnotetext\H@@footnotetext
16221   \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16222   \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16223   \ifnextchar[\Hy@maketitle@optarg{% ]
16224     \HyOrg@maketitle
16225     \Hy@maketitle@end
16226   }%
16227 }%
16228 \def\Hy@maketitle@optarg[#1]{%
16229   \HyOrg@maketitle[#1]}%
16230 \Hy@maketitle@end
16231 }%
16232 \def\Hy@maketitle@end{%
16233   \ifx\@footnotemark\H@@footnotemark
16234     \let\@footnotemark\Hy@saved@footnotemark
16235     \fi
16236   \ifx\@footnotetext\H@@footnotetext
16237     \let\@footnotetext\Hy@saved@footnotetext
16238     \fi
16239   \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
16240     \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
16241     \fi
16242   \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
16243     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
16244     \fi
16245   }%
16246 \def\realfootnote{%
16247   \@ifnextchar[\@xfootnote{%
16248     \stepcounter{\@mpfn}%
16249     \protected@xdef\@thefnmark{\thempfn}%
16250     \H@@footnotemark\H@@footnotetext
16251   }%
16252 }%
16253 \fi
16254 \def\Hy@BeginAnnot#1{%
16255   \ifmmode\else\beginL\fi%
16256   \global\advance\c@Hy@AnnotLevel\@ne
16257   \ifnum\c@Hy@AnnotLevel=\@ne
16258     #1%
16259   \fi
16260 }
16261 \def\Hy@EndAnnot{%
16262   \ifnum\c@Hy@AnnotLevel=\@ne
16263     \Hy@endcolorlink
16264     \@pdfm@mark{eann}%
16265   \fi

```




```

16266 \global\advance\c@Hy@AnnotLevel\m@ne
16267 \ifmmode\else\endL\fi%
16268 }
16269 \def\hyper@link#1#2#3{%
16270 \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi%
16271 }
16272 \def\hyper@linkfile#1#2#3{%
16273 \leavevmode
16274 \Hy@BeginAnnot{%
16275 \def\Hy@pstringF{#2}%
16276 \Hy@CleanupFile\Hy@pstringF
16277 \Hy@pstringdef\Hy@pstringF\Hy@pstringF
16278 \Hy@pstringdef\Hy@pstringD{#3}%
16279 \Hy@MakeRemoteAction
16280 \@pdfm@mark{%
16281 bann<<%
16282 /Type/Annot%
16283 /Subtype/Link%
16284 \ifHy@pdfa /F 4\fi
16285 \Hy@setpdfborder
16286 \ifx\@filebordercolor\relax
16287 \else
16288 /C[\@filebordercolor]%
16289 \fi
16290 /A<<%
16291 /S/GoToR%
16292 /F(\Hy@pstringF)%
16293 /D%
16294 \ifx\#3\%
16295 [\Hy@href@page\@pdfremotestartview]%
16296 \else
16297 (\Hy@pstringD)%
16298 \fi
16299 \Hy@SetNewWindow
16300 \Hy@href@nextactionraw
16301 >>%
16302 >>%
16303 }%
16304 \Hy@colorlink\@filecolor
16305 }%
16306 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16307 \Hy@EndAnnot
16308 }
16309 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
16310 \leavevmode
16311 \Hy@BeginAnnot{%
16312 \Hy@pstringdef\Hy@pstringF{#1}%
16313 \Hy@pstringdef\Hy@pstringP{#3}%
16314 \@pdfm@mark{%
16315 bann<<%
16316 /Type/Annot%
16317 /Subtype/Link%
16318 \ifHy@pdfa /F 4\fi
16319 \Hy@setpdfborder

```



```

16320     \ifx\@runbordercolor\relax
16321     \else
16322         /C[\@runbordercolor]%
16323     \fi
16324     /A<<%
16325         /F(\Hy@pstringF)%
16326         /S/Launch%
16327         \Hy@SetNewWindow
16328     \ifx\#3\%
16329     \else
16330         /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
16331     \fi
16332     \Hy@href@nextactionraw
16333     >>%
16334     >>%
16335     }%
16336     \Hy@colorlink\@runcolor
16337     }%
16338     \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16339     \Hy@EndAnnot
16340 }
16341 \def\hyper@linkurl#1#2{%
16342     \leavevmode
16343     \Hy@BeginAnnot{%
16344         \Hy@pstringdef\Hy@pstringURI{#2}%
16345         \@pdfm@mark{%
16346             bann<<%
16347                 /Type/Annot%
16348                 /Subtype/Link%
16349                 \ifHy@pdfa /F 4\fi
16350                 \Hy@setpdfborder
16351                 \ifx\@urlbordercolor\relax
16352                 \else
16353                     /C[\@urlbordercolor]%
16354                 \fi
16355                 /A<<%
16356                 /S/URI%
16357                 /URI(\Hy@pstringURI)%
16358                 \ifHy@href@ismap
16359                     /IsMap true%
16360                 \fi
16361                 \Hy@href@nextactionraw
16362             >>%
16363             >>%
16364         }%
16365         \Hy@colorlink\@urlcolor
16366     }%
16367     \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16368     \Hy@EndAnnot
16369 }
16370 \def\Acrobatmenu#1#2{%
16371     \Hy@Acrobatmenu{#1}{#2}{%
16372         \Hy@BeginAnnot{%
16373             \EdefEscapeName\Hy@temp@menu{#1}%

```



```

16374 \pdfmark{%
16375   bann<<%
16376     /Type/Annot%
16377     /Subtype/Link%
16378     \ifHy@pdfa /F 4\fi
16379     \Hy@setpdfborder
16380     \ifx\@menubordercolor\relax
16381     \else
16382       /C[\@menubordercolor]%
16383     \fi
16384     /A<<%
16385     /S/Named%
16386     /N/\Hy@temp@menu
16387     \Hy@href@nextactionraw
16388     >>%
16389   >>%
16390   }%
16391   \Hy@colorlink\@menucolor
16392 }%
16393 \ifmode\else\if@RTL\beginR\fi\fi#2\ifmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16394 \Hy@EndAnnot
16395 }%
16396 }
16397 \def\hyper@natlinkstart#1{%
16398   \Hy@backout{#1}%
16399   \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
16400   \def\hyper@nat@current{#1}%
16401 }
16402 \def\hyper@natlinkend{%
16403   \if@RTL\endR\fi\hyper@linkend
16404 }
16405 \def\hyper@natlinkbreak#1#2{%
16406   \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
16407 }%
16408 }
16409 \pdfstringdefDisableCommands{%
16410 \let\LRE\@firstofone
16411 \let\LR\@firstofone
16412 \let\RLE\@firstofone
16413 \let\RL\@firstofone
16414 \def\XeTeX{Xe\TeX}%
16415 \def\XeLaTeX{Xe\LaTeX}%
16416 }
16417 \bidi@patchcmd\@TextField{%
16418   \pdfmark
16419 }{%
16420   \if@RTL
16421     \hskip\Fld@width
16422   \fi
16423   \pdfmark
16424 }{}{}
16425 \bidi@patchcmd\@TextField{%
16426   \unhbox
16427 }{%

```



```

16428 \if@RTL
16429 \hskip-\Fld@width
16430 \fi
16431 \unhbox
16432 }-{}
16433 \bidi@patchcmd\@@Radio{%
16434 \@pdfm@mark
16435 }-{}
16436 \if@RTL
16437 \hskip\Fld@width
16438 \fi
16439 \@pdfm@mark
16440 }-{}
16441 \bidi@patchcmd\@@Radio{%
16442 \unhcopy
16443 }-{}
16444 \if@RTL
16445 \hskip-\Fld@width
16446 \fi
16447 \unhcopy
16448 }-{}
16449 \bidi@patchcmd\@Submit{%
16450 \@pdfm@mark
16451 }-{}
16452 \if@RTL
16453 \null
16454 \hskip\wd\pdfm@box
16455 \fi
16456 \@pdfm@mark
16457 }-{}
16458 \bidi@patchcmd\@Submit{%
16459 \unhbox
16460 }-{}
16461 \if@RTL
16462 \hskip-\wd\pdfm@box
16463 \fi
16464 \unhbox
16465 }-{}
16466 \bidi@patchcmd\@Reset{%
16467 \@pdfm@mark
16468 }-{}
16469 \if@RTL
16470 \null
16471 \hskip\wd\pdfm@box
16472 \fi
16473 \@pdfm@mark
16474 }-{}
16475 \bidi@patchcmd\@Reset{%
16476 \unhbox
16477 }-{}
16478 \if@RTL
16479 \hskip-\wd\pdfm@box
16480 \fi
16481 \unhbox

```




```

16533 \@ifempty{#4}{%
16534   \@tempdima\csname r@tocindent\number#1\endcsname\relax
16535 }{%
16536   \@tempdima#4\relax
16537 }%
16538 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else
16539 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
16540 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
16541 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16542 \nobreak
16543 \endgroup
16544 \fi}
16545 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
16546 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
16547 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
16548 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
16549 \def\maketitle{\par
16550 \@topnum\z@ % this prevents figures from falling at the top of page 1
16551 \@setcopyright
16552 \thispagestyle{firstpage}% this sets first page specifications
16553 \uppercase\nonmath\shorttitle
16554 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
16555 \else \andify\shortauthors
16556 \fi
16557 \@maketitle@hook
16558 \beginingroup
16559 \@maketitle
16560 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
16561 \toks4{\def\{\ignorespaces}}% defend against questionable usage
16562 \edef\@tempa{%
16563   \@nx\markboth{\the\toks4
16564     \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
16565 \@tempa
16566 \endgroup
16567 \c@footnote\z@
16568 \@cleartopmattertags
16569 }

```

106 File leqno-xetex-bidi.def

```

16570 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
16571 \renewcommand\@eqnum{\hb@xt@.01\p@{}}%
16572   \rlap{\hskip -\displaywidth
16573     {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR}}

```

107 File letter-xetex-bidi.def

```

16574 \ProvidesFile{letter-xetex-bidi.def}[2025/09/30 v0.4 bidi adaptations for standard letter class]
16575 \renewcommand*\@opening}[1]{\ifx\@empty\fromaddress
16576   \thispagestyle{firstpage}%
16577   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
16578 \else % home address
16579   \thispagestyle{empty}%
16580   {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}

```



```

16581     \fromaddress \*[2\parskip]%
16582     \@date \end{tabular}\par}%
16583 \fi
16584 \vspace{2\parskip}%
16585 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ \toaddress \par}%
16586 \vspace{2\parskip}%
16587 #1\par\nobreak}
16588 \renewcommand\left@footnoterule{%
16589 \kern-\p@
16590 \hrule \@width .4\columnwidth
16591 \kern .6\p@}
16592 \renewcommand\right@footnoterule{%
16593 \kern-\p@
16594 \nointerlineskip
16595 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16596 \kern .6\p@}

```

108 File lettrine-xetex-bidi.def

```

16597 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
16598 \RemoveFromHook{begindocument}[lettrine]
16599 \AtBeginDocument[lettrine]{%
16600 \if\DefaultOptionsFile\relax
16601 \else
16602 \InputIfFileExists{\DefaultOptionsFile}%
16603 {}%
16604 {\PackageWarning{lettrine.sty}%
16605 {File \DefaultOptionsFile\space not found}%
16606 }%
16607 \fi
16608 \let\ifL@RTL\if@RTL
16609 }

```

109 File lineno-xetex-bidi.def

```

16610 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package]
16611 \bidi@patchcmd{\MakeLineNo}{%
16612 \hb@xt@\z@\makeLineNumber}%
16613 }{%
16614 \hboxL to \z@\makeLineNumber}%
16615 }{}{}
16616
16617 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
16618 \if@RTL
16619 \hb@xt@\linewidth{\LineNumber\hss}%
16620 \else
16621 \LineNumber
16622 \fi
16623 }{}{}
16624
16625 \bidi@patchcmd{\makeLineNumberRight}{%
16626 \hb@xt@\linewidth{\hss\LineNumber}%
16627 }{%
16628 \if@RTL

```



```

16629     \LineNumber
16630     \else
16631     \hb@xt@\linewidthwidth{\hss\LineNumber}%
16632     \fi
16633 }{}{}
16634
16635 \bidi@AfterPreamble{%
16636     \if@RTLmain
16637     \rightlinenumbers*
16638     \else
16639     \leftlinenumbers*
16640     \fi
16641     \@ifpackagewith{lineno}{left}{%
16642     \leftlinenumbers*
16643     }{}
16644     \@ifpackagewith{lineno}{right}{%
16645     \rightlinenumbers*
16646     }{}
16647     \@ifpackagewith{lineno}{switch}{%
16648     \if@RTLmain
16649     \switchlinenumbers*%
16650     \else
16651     \switchlinenumbers
16652     \fi
16653     }{}
16654     \@ifpackagewith{lineno}{switch*}{%
16655     \if@RTLmain
16656     \switchlinenumbers
16657     \else
16658     \switchlinenumbers*%
16659     \fi
16660     }{}
16661 }
16662

```

110 File listings-xetex-bidi.def

```

16663 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
16664 \lst@Key{captiondirection}{textdirection}{%
16665     \lstKV@SwitchCases{#1}%
16666     {textdirection:\%
16667     RTL:\chardef\bidi@lst@caption@direction@one\%
16668     LTR:\chardef\bidi@lst@caption@direction@z\%
16669     }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16670
16671 \lst@Key{captionscript}{textscript}{%
16672     \lstKV@SwitchCases{#1}%
16673     {textscript:\%
16674     latin:\chardef\bidi@lst@caption@script@one\%
16675     nonlatin:\chardef\bidi@lst@caption@script@z\%
16676     }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16677
16678 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
16679     \ifundefined{bidi@lst@caption@direction}{-}{%

```




```

16680 \ifnum\ bidi@lst@caption@direction=\z{%
16681   #1%
16682 \else%
16683   \ifnum\ bidi@lst@caption@direction=\@ne%
16684     #2%
16685     \fi%
16686   \fi%
16687 }}
16688
16689 \newcommand*\ bidi@lst@ensure@caption@script}[2]{%
16690   \ifundefined{bidi@lst@caption@script}{%
16691     \ifnum\ bidi@lst@caption@script=\z{%
16692       #1%
16693     \else%
16694       \ifnum\ bidi@lst@caption@script=\@ne%
16695         #2%
16696       \fi%
16697     \fi%
16698 }}
16699
16700 \long\def\@bidi@lst@makecaption#1#2{%
16701   \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16702   \vskip\abovecaptionskip
16703   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16704   \sbox\@tempboxa{%
16705     \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
16706     #1: #2%
16707     \bidi@lst@ensure@caption@direction{\endL}{\endR}%
16708     }%
16709   \ifdim \wd\@tempboxa >\hsize
16710     #1: #2\par
16711   \else
16712     \global \@minipagefalse
16713     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16714   \fi
16715   \vskip\belowcaptionskip}%
16716 \def\lst@makecaption{\@bidi@lst@makecaption}
16717 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
16718 \bidi@AtEndPreamble{%
16719 \bidi@patchcmd{\lst@MakeCaption}{%
16720   \ifx #1t%
16721     \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16722       \expandafter\refstepcounter
16723     \fi {lstlisting}%
16724 }{%
16725   \ifx #1t%
16726     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16727     \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16728       \expandafter\refstepcounter
16729     \fi {lstlisting}%
16730     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
16731 }-}{-}%
16732 \bidi@patchcmd{\lst@MakeCaption}{%
16733   \addcontentsline{lol}{lstlisting}%

```



```

16734             {\protect\numberline{\thelstlisting}\lst@caption}%
16735 }{%
16736 \begingroup%
16737             \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16738             \addcontentsline{lol}{lstlisting}%
16739             {\protect\numberline{\thelstlisting}\lst@caption}%
16740 \endgroup%
16741 }-{}-%
16742 }
16743 \ApplyPatchIfPackageLoaded{caption}{%
16744   \AtBeginCaption{%
16745     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16746     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16747   }
16748   \let\@bidi@lst@makecaption\caption@makecaption%
16749   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
16750   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
16751 }{%
16752 \AtBeginDocument{%
16753   \@ifundefined{captionlabelfalse}{}{}%
16754   \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
16755   \@ifundefined{captionstartrue}{}{}%
16756   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
16757 }%
16758 }
16759 \AtBeginDocument{
16760   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
16761   \lst@ifnumberbychapter
16762     \gdef\thelstlisting%
16763       {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
16764   \else
16765     \gdef\thelstlisting{\@arabic\c@lstlisting}
16766   \fi}

```

111 File longtable-xetex-bidi.def

```

16767 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable pack
16768 \ExplSyntaxOn
16769 \def\LT@array[#1]#2{%
16770   \UseTaggingSocket{tbl/init}
16771   \tl_if_empty:eTF { \LTcapttype }
16772     {
16773       \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
16774     }
16775     {
16776       \@kernel@refstepcounter{\LTcapttype}\stepcounter{LT@tables}
16777       \tl_gset:Ne \@currentHref {\LTcapttype.\cs_if_exist_use:c {theH\LTcapttype}}
16778     }
16779   \tbl_gzero_row_count:
16780   \UseTaggingSocket{tbl/longtable/init}
16781   \if l#1%
16782     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
16783   \else\if r#1%
16784     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi

```



```

16785 \else\if c#1%
16786 \LTleft\fill \LTright\fill
16787 \fi\fi\fi
16788 \let\LT@mc\multicolumn
16789 \let\LT@@@tabarray\@tabarray
16790 \let\LT@@hl\hline
16791 \def\@tabarray{%
16792 \let\hline\LT@@hl
16793 \LT@@@tabarray}%
16794 \let\\\LT@tabularcr
16795 \let\tabularnewline\\%
16796 \def\newpage{\noalign{\break}}%
16797 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
16798 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
16799 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16800 \@tempdima\ht\strutbox
16801 \let\@endpbox\LT@endpbox
16802 \ifx\extrarowheight\undefined
16803 \let\@acol\@tabacol
16804 \let\@classz\@tabclassz \let\@classiv\@tabclassiv
16805 \def\@startpbox{\vtop\LT@startpbox}%
16806 \let\@@startpbox\@startpbox
16807 \let\@@endpbox\@endpbox
16808 \let\LT@LL@FM@cr\@tabularcr
16809 \else
16810 \advance\@tempdima\extrarowheight
16811 \col@sep\tabcolsep
16812 \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16813 \fi
16814 \setbox\@arstrutbox\hbox{\vrule
16815 \@height \arraystretch \@tempdima
16816 \@depth \arraystretch \dp \strutbox
16817 \@width \z@}%
16818 \let\@sharp##\let\protect\relax
16819 \begingroup
16820 \mkpream{#2}%
16821 \tbl_count_table_cols:
16822 \xdef\LT@bchunk{%
16823 \tbl_inbetween_rows:
16824 \global\advance\c@LT@chunks\@ne
16825 \global\LT@rows\z@\setbox\z@\vbox\bgroup
16826 \LT@setprevdepth
16827 \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16828 \tabskip\z@ \@arstrut
16829 \UseTaggingSocket{tbl/row/begin}%
16830 \tbl_init_cell_data_for_row:
16831 \@preamble \tabskip\LTright \cr}%
16832 \endgroup
16833 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
16834 \LT@make@row
16835 \m@th\let\par\@empty
16836 \everycr{%
16837 \noalign{%
16838 \tbl_trace:n {--longtable-->-chunk~row:~ \the\LT@rows \space

```



```

16839         row:~ \the\g__tbl_row_int \space
16840         column:~ \the\g__tbl_col_int
16841     }
16842     \tbl_if_row_was_started:T
16843     {
16844         \UseTaggingSocket{tbl/row/end}
16845         \tbl_inbetween_rows:
16846     }
16847     \int_compare:nNnT \LT@rows < \LTchunksize
16848     { \tbl_gincr_row_count: } % next is row about to start
16849 }%
16850 }%
16851 \lineskip\z@\baselineskip\z@
16852 \LT@bchunk}
16853 \ExplSyntaxOff
16854 \def\LT@makecaption#1#2#3{%
16855 \LT@mc\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
16856 \reset@font
16857 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
16858 \ifdim\wd\@tempboxa>\hsize
16859 #1{#2: }#3%
16860 \else
16861 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
16862 \fi
16863 \endgraf\vskip\baselineskip}%
16864 \hss}}
16865 \ApplyPatchCodeToPackage{caption}{%
16866 \renewcommand\LT@makecaption[3]{%
16867 \caption@LT@make{%
16868 \caption@LT@settype\LTcaptype
16869 \caption@LT@setup
16870 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16871 \caption@startrue#1\caption@starfalse
16872 \caption@prepare@stepcounter\LTcaptype
16873 \caption@begin\LTcaptype
16874 \caption@normalsize
16875 \vskip-\ht\strutbox
16876 \caption@ifdefined\FBifcaptop{%
16877 \let\caption@belowskip\@empty}{}%
16878 \caption@make@above
16879 \caption@@make{#2}{#3}\endgraf
16880 \caption@make@below
16881 \caption@end}}%
16882 }
16883 \def\LT@startpbox#1{%
16884 \bgroup
16885 \color@begingroup
16886 \let\@footnotetext\LT@p@ftntext
16887 \let\@LTRfootnotetext\LT@p@LTRftntext
16888 \let\@RTLfootnotetext\LT@p@RTLftntext
16889 \setlength\hsize{#1}%
16890 \@arrayparboxrestore
16891 \everypar{%
16892 \vrule \@height \ht\@arstrutbox \@width \z@

```



```

16893     \everypar{}}%
16894   }
16895 \long\def\LT@p@LTRftntext#1{%
16896   \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
16897   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16898 \long\def\LT@p@RTLftntext#1{%
16899   \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
16900   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16901 \def\LT@output{%
16902   \ifnum\outputpenalty <-\@Mi
16903     \ifnum\outputpenalty > -\LT@end@pen
16904       \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16905     \else
16906       \setbox\z@\vbox{\unvbox\@cclv}%
16907       \ifdim \ht\LT@lastfoot>\ht\LT@foot
16908         \dimen@\pagegoal
16909         \advance\dimen@-\ht\LT@foot
16910         \advance\dimen@-\ht\LT@lastfoot
16911         \ifdim\dimen@<\ht\z@
16912           \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
16913           \@makecol
16914           \@outputpage
16915           \global\vsiz@\colroom
16916           \setbox\z@\vbox{\box\LT@head}%
16917         \fi
16918       \fi
16919       \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16920       \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
16921       \UseTaggingSocket{tbl/longtable/foot}
16922       \if@RTLtab\egroup\endR\egroup\fi
16923     \fi
16924   \else
16925     \setbox\@cclv\vbox{%
16926       \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16927       \unvbox\@cclv\copy\LT@foot\vss
16928       \if@RTLtab\egroup\endR\egroup\fi
16929     }%
16930     \UseTaggingSocket{tbl/longtable/foot}
16931     \@makecol
16932     \@outputpage
16933     \global\vsiz@\colroom
16934     \copy\LT@head\nobreak
16935   \fi}

```

112 File `lscope-xetex-bidi.def`

```

16936 \ProvidesFile{lscope-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscope package fo
16937 \RequirePackage{graphicx}
16938 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
16939   \if@RTL
16940     \rotatebox[origin=br]{-90}{\box\@outputbox}%
16941   \else
16942     \rotatebox{90}{\box\@outputbox}%
16943   \fi

```



```

16944 }-{}
16945
16946 \g@addto@macro{\landscape}{%
16947   \if@bidi@csdef{bidi@columnwidth}{%
16948     \bidi@columnwidth\columnwidth
16949   }-{}%
16950   \let\bidi@left@footnoterule\left@footnoterule
16951   \let\bidi@right@footnoterule\right@footnoterule
16952   \def\left@footnoterule{%
16953     \if@RTL
16954       \bidi@right@footnoterule
16955     \else
16956       \bidi@left@footnoterule
16957     \fi
16958   }%
16959   \def\right@footnoterule{%
16960     \if@RTL
16961       \bidi@left@footnoterule
16962     \else
16963       \bidi@right@footnoterule
16964     \fi
16965   }%
16966 }

```

113 File `mathtools-xetex-bidi.def`

```

16967 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packag
16968 \RequirePackage{graphicx}
16969 \MHInternalSyntaxOn
16970 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16971   \@namedef{MT_tagform_#1:n}##1
16972     {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
16973 }
16974 \renewtagform{default}{({})}
16975 \MHInternalSyntaxOff

```

114 File `mdframed-xetex-bidi.def`

```

16976 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed packag
16977 \newif\if@bidi@mdf@RTL
16978 \def\mdf@lrbox#1{%
16979   \mdf@patchamsthm%patch amsthm
16980   \if@RTL\@bidi@mdf@RTLtrue\fi%
16981   \@RTLfalse%
16982   \setbox#1\vbox\bgroup%
16983     \color@begingroup%
16984     \if@bidi@mdf@RTL\@RTLtrue\fi%
16985     \mdf@horizontalmargin@equation%
16986     \columnwidth=\hsize%
16987     \textwidth=\hsize%
16988     \let\if@nobreak\iffalse%
16989     \let\if@noskipsec\iffalse%
16990     \let\par\@par%
16991     \let\-\@dischyph%

```



```

16992 \let'\@acci\let'\@accii\let\=@acciii%
16993 \parindent\z@ \parskip\z@skip%
16994 \linewidth\hsize%
16995 \@totalleftmargin\z@%
16996 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
16997 \parfillskip\@flushglue \lineskip\normallineskip%
16998 \baselineskip\normalbaselineskip%
16999 %% \sloppy%
17000 \let\\\@normalcr%
17001 \mdf@par@local%New feature to restore parskip/parindent local in save box
17002 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{ }%
17003 \@afterindentfalse%
17004 %\@afterheading%
17005 }
17006 \renewrobustcmd\mdfframedtitleenv[1]{%
17007 \mdf@lrbox{\mdf@frametitlebox}%
17008 \mdf@frametitlealignment%
17009 \leavevmode{\color{\mdf@frametitlefontcolor}%
17010 \normalfont\mdf@frametitlefont{#1}}
17011 \ifbool{mdf@ignorelastdescenders}%
17012 {%
17013 \par\strut\par
17014 \unskip\unskip\setbox0=\lastbox
17015 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
17016 }-{}%
17017 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%%
17018 \endmdf@lrbox\relax%
17019 \mdf@ignorevbadness%
17020 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
17021 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
17022 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
17023 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
17024 \mdfframetitleboxtotalheight=\dimexpr
17025 \ht\mdf@frametitlebox
17026 +\dp\mdf@frametitlebox%
17027 +\mdf@frametitleaboveskip@length
17028 +\mdf@frametitlebelowskip@length
17029 \relax%
17030 }
17031
17032 \renewrobustcmd*\mdf@footnoteoutput{%
17033 \ifvoid\@mpfootins\else%
17034 \nobreak%
17035 \vskip\mdf@footnotedistance@length%
17036 \normalcolor%
17037 \bidi@mpfootnoterule%
17038 \unvbox\@mpfootins%
17039 \fi%
17040 }
17041
17042
17043 \renewrobustcmd*\mdf@footnoteinput{%
17044 \def\@mpfn{mpfootnote}%
17045 \def\thempfn{\thempfootnote}%

```



```

17046 \c@mpfootnote\z@%
17047 \let\@footnotetext\@mpfootnotetext%
17048 \let\@LTRfootnotetext\@mpLTRfootnotetext%
17049 \let\@RTLfootnotetext\@mpRTLfootnotetext%
17050 }

```

115 File media9-xetex-bidi.def

```

17051 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package fo
17052 \RequirePackage{bidi-media9}

```

116 File bidi-media9.sty

```

17053 \ProvidesExplPackage{bidi-media9}[2022/02/18]{0.4}
17054 {bidi fixes for media9 package for the XeTeX engine}
17055
17056 \keys_define:nn{media9/mbtn}{
17057   draft .code:n = {},
17058   final .code:n = {},
17059
17060   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
17061   tooltip .value_required:n = {true},
17062
17063   overface .code:n = {
17064     \sbox\l_mix_poster_box{
17065       \bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17066       \mix_pdfxform:n{\l_mix_poster_box}
17067       \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
17068     },
17069     overface .value_required:n = {true},
17070
17071     downface .code:n = {
17072       \sbox\l_mix_poster_box{
17073         \bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17074         \mix_pdfxform:n{\l_mix_poster_box}
17075         \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
17076       },
17077       downface .value_required:n = {true},
17078
17079     3Dgotoview .code:n = {
17080       \tl_set:Nx\l_tmpa_tl{#1} %extract ref
17081       \regex_replace_once:nnN{([^\:]+):??.*}{\1}\l_tmpa_tl
17082       \tl_trim_spaces:N\l_tmpa_tl
17083       \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17084         \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17085           \tl_set:Nx\l_tmpb_tl{#1} %extract idx
17086           \regex_replace_once:nnN{[^\:]+:??}{\1}\l_tmpb_tl
17087           \tl_trim_spaces:N\l_tmpb_tl
17088           \tl_if_blank:VF\l_tmpb_tl{
17089             \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
17090               \tl_set:Nx\l_mix_vidx_tl{\l_tmpb_tl}
17091             }{
17092               \regex_match:nVTF{^d+$}\l_tmpb_tl{
17093                 \tl_set:Nx\l_mix_vidx_tl{~\l_tmpb_tl}

```




```

17094     }{
17095         \regex_replace_once:nnN{^\(\s*\)}{\l_tmpb_tl
17096         \regex_replace_once:nnN{\s*\)}{\l_tmpb_tl
17097         \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
17098     }
17099 }
17100 }
17101 \mix_pdfobj:nnn{}{dict}{
17102     /S/JavaScript/JS~(
17103         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17104         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17105             annotRM['\l_tmpa_tl']=
17106                 this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17107         }
17108         annotRM['\l_tmpa_tl'].activated=true;
17109     )
17110     \tl_if_blank:VF\l_tmpb_tl{
17111         /Next~<<
17112         /S/GoTo3DView
17113         /TA~\tl_use:c{ann@\l_tmpa_tl}
17114         /V\l_mix_vidx_tl
17115         >>
17116     }
17117 }
17118 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17119 }
17120 }{
17121     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17122     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17123         \tl_new:N\g_mix_refundefwarned_tl
17124         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17125     }
17126 }
17127 },
17128 3Dgotoview .value_required:n = {true},
17129
17130 mediacommand .code:n = {
17131     \tl_set:Nx\l_tmpa_tl{#1}
17132     \regex_replace_once:nnN{([\^:]+):??.*}{\1}\l_tmpa_tl %extract ref
17133     \tl_trim_spaces:N\l_tmpa_tl
17134     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17135         \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17136             \tl_set:Nx\l_tmpb_tl{#1}
17137             \regex_replace_once:nnN{[\^:]+\.:?}{\l_tmpb_tl
17138             \tl_trim_spaces:N\l_tmpb_tl
17139             \regex_replace_all:nnN{^\{\|\}\$}{\l_tmpb_tl
17140             \tl_set:Nx\l_mix_cmd_tl{
17141                 \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
17142             \tl_trim_spaces:N\l_mix_cmd_tl
17143             \tl_set:Nx\l_mix_arg_tl{
17144                 \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
17145             \tl_trim_spaces:N\l_mix_arg_tl
17146             \mix_pdfobj:nnn{}{dict}{
17147                 /S/JavaScript/JS~(

```



```

17148         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17149         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17150             annotRM['\l_tmpa_tl']=
17151                 this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17152         }
17153         annotRM['\l_tmpa_tl'].activated=true;
17154     )
17155     \tl_if_blank:VF\l_mix_cmd_tl{
17156         /Next~<<
17157         /S/RichMediaExecute
17158         /TA~\tl_use:c{ann@\l_tmpa_tl}
17159         /TI~\tl_use:c{main@\l_tmpa_tl}
17160         /CMD~<<
17161         /C~(\l_mix_cmd_tl)
17162         \tl_if_blank:VF\l_mix_arg_tl{
17163             /A~[\l_mix_arg_tl]
17164         }
17165         >>
17166     }
17167 }
17168 }
17169 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17170 }
17171 }{
17172 \msg_warning:nx{media9}{undefined~reference}{\l_tmpa_tl}
17173 \cs_if_exist:NF\g_mix_refundefwarned_tl{
17174     \tl_new:N\g_mix_refundefwarned_tl
17175     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17176 }
17177 }
17178 },
17179 mediacommand .value_required:n = {true},
17180
17181 jsaction .code:n = {
17182     \tl_set:Nx\l_tmpa_tl{#1}
17183     \regex_match:nVTF{^[^\{:+\.\*}$}\l_tmpa_tl{
17184         \regex_replace_once:nnN{([^\{:+\.\*}$)\1}\l_tmpa_tl %extract ref
17185         \tl_trim_spaces:N\l_tmpa_tl
17186     }{\tl_clear:N\l_tmpa_tl}
17187     \tl_set:Nx\l_tmpb_tl{#1}
17188     \tl_if_blank:VF\l_tmpa_tl{
17189         \tl_if_exist:cF{ann@\l_tmpa_tl}{
17190             \msg_warning:nx{media9}{undefined~reference}{\l_tmpa_tl}
17191             \cs_if_exist:NF\g_mix_refundefwarned_tl{
17192                 \tl_new:N\g_mix_refundefwarned_tl
17193                 \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17194             }
17195         }
17196         \regex_replace_once:nnN{[^\{:+\.\*}$]\1}\l_tmpb_tl
17197     }
17198     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
17199     \tl_trim_spaces:N\l_tmpb_tl
17200     \tl_if_blank:VF\l_tmpb_tl{
17201         \mix_pdfobj:nnn{}{dict}{

```



```

17202     /S/JavaScript/JS~(
17203     try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
17204 \bool_lazy_and:nnT{
17205     \tl_if_exist_p:c{ann@\l_tmpa_tl}
17206 }{
17207     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17208 }{
17209     \mix_pdfobj:nnn{}{dict}{
17210     /S/JavaScript/JS~(
17211     if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
17212     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17213     annotRM['\l_tmpa_tl']=
17214     this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17215     }
17216     annotRM['\l_tmpa_tl'].activated=true;
17217     )
17218     \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
17219     }
17220     }
17221     \bool_if:nT{
17222     \bool_lazy_and_p:nn{
17223     \tl_if_exist_p:c{ann@\l_tmpa_tl}
17224     }{
17225     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17226     }
17227     || !\tl_if_blank_p:V\l_tmpb_tl
17228     }{
17229     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17230     }
17231     },
17232     jsaction .value_required:n = {true},
17233
17234     unknown .code:n = {
17235     \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
17236     }
17237 }
17238
17239 \RenewDocumentCommand\includemedia{0}{mm}{%#1 options, #2 text/image #3 media file
17240 \mix_uriend:
17241 \group_begin:
17242 \mix_beginLTR:
17243 \mode_leave_vertical:
17244 %empty stream as appearance dummy
17245 \cs_if_exist:NF\g_mix_appearance_tl{
17246 \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
17247 \mix_pdfxform:n{\l_mix_poster_box}
17248 \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
17249 }
17250 \mix_reset:
17251 \mix_uribegin: %treat URI characters correctly
17252 \keys_set:nn{media9/user}{#1}
17253 \mix_uriend:
17254 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
17255 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}

```



```

17256 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~}{=}
17257 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=}{~}
17258 \tl_gtrim_spaces:N\g_mix_flashvars_tl
17259
17260 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
17261
17262 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
17263 %\hbox_set:Nn\l_mix_poster_box{#2}
17264 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17265 \mix_scale:n{\l_mix_poster_box}
17266 \bool_if:nT{
17267   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
17268   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
17269 }{
17270   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
17271 }
17272 \bool_if:NTF\g_mix_usrdraft_bool{
17273   \tl_if_empty:NF\g_mix_usrlabel_tl{
17274     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
17275   }
17276   \tl_if_blank:oTF{#2}{
17277     \mix_uribegin: %treat URI characters correctly
17278     \mix_draftbox:n{\tl_to_str:n{#3}}
17279     \mix_urierend:
17280   }{
17281     \hbox_to_wd:nn{\g_mix_wd_tl}{
17282       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
17283       \box_use:N\l_mix_poster_box\hss
17284     }
17285   }
17286 }{
17287   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
17288     %attach script that switches off play button overlay upon activation
17289     \mix_pdfobj:nnn{}{stream}{
17290       {}{
17291         var~ocgs=host.getOCGs(host.pageNum);
17292         for(var~i=0;i<ocgs.length;i++){
17293           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17294             ocgs[i].state=false;
17295           }
17296         }
17297       }
17298     }
17299     \mix_pdfobj:nnn{}{dict}{
17300       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
17301     }
17302     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
17303     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
17304     %enforce plain playbutton overlay for XeTeX
17305     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
17306   }
17307   %embed main asset
17308   \mix_uribegin:
17309   \mix_embedasset:n{#3}

```



```

17310 \bool_if:nTF{
17311   \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
17312 }{
17313   \bool_gset_true:N\g_mix_iiid_bool
17314   \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
17315 }{
17316   \str_case_e:nnF{\l_mix_base_tl}{
17317     {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17318     {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17319     {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17320     {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17321     {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17322   }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
17323 }
17324 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
17325 \mix_uriend:
17326 %secondary assets (added by addresource)
17327 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
17328 \seq_map_inline:Nn\g_mix_script_seq{
17329   \mix_embedasset:n{##1}
17330   \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
17331 }
17332 %attach 3D calculation script
17333 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
17334   \mix_embedasset:n{3Dmenu.js}
17335   \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
17336 }
17337 %create 3D views from file (option 3Dviews)
17338 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
17339   \tl_set:Nn\l_mix_level_tl{-1}
17340   \int_zero:N\l_mix_viewcnt_int
17341   \int_zero:N\l_mix_lineno_int
17342
17343   \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
17344   \ior_map_inline:Nn\l_mix_vfile_stream{
17345     \int_incr:N\l_mix_lineno_int
17346     \keys_set:nn{media9/views}{##1} %process input line
17347   }
17348   \ior_close:N\l_mix_vfile_stream
17349 }
17350 \bool_if:nT{ %create default 3D view if required
17351   \g_mix_iiid_bool &&
17352   (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
17353 }{
17354   \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
17355   \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
17356   \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
17357   \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
17358   \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
17359   \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
17360   \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
17361
17362   \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
17363   \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp

```



```

17364 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
17365 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
17366
17367 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
17368 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
17369 \tl_clear:N\l_mix_naarray_tl
17370
17371 \bool_if:NF\l_mix_ciiw_bool{
17372   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
17373   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
17374 }
17375
17376 \tl_clear:N\l_mix_naarray_tl
17377 \tl_clear:N\l_mix_saarray_tl
17378 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdfllt_tl
17379
17380 \mix_view:n{Default}
17381 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
17382
17383 }
17384 \mix_pdfobj:nnn{}{dict}{
17385   /Type/RichMediaInstance
17386   /Subtype/\g_mix_mainassetsub_tl
17387   /Asset~\g_mix_mainasset_tl
17388   \bool_if:NF\g_mix_iiid_bool{
17389     /Params~<<
17390     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
17391       /Foreground
17392     }{
17393       /Background
17394     }
17395     \tl_if_blank:VF\g_mix_flashvars_tl{
17396       /FlashVars~(\g_mix_flashvars_tl)
17397     }
17398     >>
17399   }
17400 }
17401 \tl_if_empty:NF\g_mix_usrlabel_tl{
17402   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
17403 }
17404 \mix_pdfobj:nnn{}{dict}{
17405   /Type/RichMediaConfiguration
17406   /Subtype/\g_mix_mainassetsub_tl
17407   /Instances~[\mix_pdflastobj:]
17408 }
17409 \mix_pdfobj:nnn{}{dict}{
17410   /Type/RichMediaContent
17411   /Assets~<</Names~[\g_mix_assets_tl]>>
17412   /Configurations~[\mix_pdflastobj:]
17413   \bool_if:nT{
17414     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
17415   }{
17416     /Views~[\l_mix_iiidviewarray_tl]
17417   }

```



```

17418 }
17419 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
17420 \bool_if:nT{
17421   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
17422 }{
17423   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
17424 }
17425 %determine floating window size
17426 \bool_if:NT\g_mix_opt_windowed_bool{
17427   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
17428 }
17429 \mix_pdfobj:nnn{}{dict}{
17430   /Activation~<<
17431     /Condition\g_mix_act_tl
17432     \bool_if:nT{
17433       \g_mix_iiid_bool &&
17434       !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
17435     }{%seems to work only with 3D content
17436       /Animation~<<
17437         /Subtype/\g_mix_playtpe_tl
17438         /PlayCount~\g_mix_playcnt_tl
17439         /Speed~\g_mix_playspd_tl
17440       >>
17441     }
17442     \bool_if:nT{
17443       \g_mix_iiid_bool && (
17444         \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
17445       )
17446     }{/View~\l_mix_dfltview_tl}
17447     /Presentation~<<
17448       /Transparent~\g_mix_transp_tl
17449       \bool_if:NTF\g_mix_opt_windowed_bool{
17450         /Style/Windowed
17451         /Window~<<
17452           /Width~<</Default~\tl_mix_fltd>>
17453           /Height~<</Default~\tl_mix_fltht>>
17454           /Position~<<
17455             /HOffset~0/VOffset~0
17456             \str_case_e:nnF{\g_mix_winpos_tl}{
17457               {tl}{/VAlign/Near/HAlign/Near}
17458               {cl}{/VAlign/Center/HAlign/Near}
17459               {bl}{/VAlign/Far/HAlign/Near}
17460               {bc}{/VAlign/Far/HAlign/Center}
17461               {br}{/VAlign/Far/HAlign/Far}
17462               {cr}{/VAlign/Center/HAlign/Far}
17463               {tr}{/VAlign/Near/HAlign/Far}
17464               {tc}{/VAlign/Near/HAlign/Center}
17465             }{/HAlign/Center/VAlign/Center}
17466           >>
17467         >>
17468       }{
17469         /Style/Embedded
17470       }
17471     \bool_if:NTF\g_mix_iiid_bool{

```



```

17472         /Toolbar~\g_mix_tools_tl
17473         /NavigationPane~\g_mix_nav_tl
17474     }{
17475         /PassContextClick~\g_mix_contextclick_tl
17476     }
17477     >>
17478     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
17479     >>
17480     /Deactivation~<</Condition\g_mix_deact_tl>>
17481 }
17482 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
17483 \tl_if_empty:NF\g_mix_usrlabel_tl{
17484     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
17485 }
17486 % #1:width, #2:height, #3:depth, #4:content (key-value)
17487 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
17488     /Subtype/RichMedia
17489     /F~4
17490     /BS~<</W~0/S/S>>
17491     /Contents~(media-embedded-by-media9~[\g_mix_version_tl~(\g_mix_date_tl)])
17492     /NM~(\g_mix_label_tl)
17493     /AP~<</N~\g_mix_appearance_tl>>
17494     /RichMediaSettings~\l_mix_settings_tl
17495     /RichMediaContent~\l_mix_content_tl
17496 }
17497 \tl_if_empty:NF\g_mix_usrlabel_tl{
17498     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
17499     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
17500         \noexpand\the\g@mix@page@int}
17501 }
17502 \mix_pdfobj:nnn{}{dict}{
17503     /S/JavaScript/JS~(
17504         try{
17505             if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
17506             if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
17507                 annotRM['\g_mix_label_tl']=
17508                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
17509             }
17510             \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
17511                 if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
17512                     var~ocgs=this.getOCGs(this.pageNum);
17513                     for(var~i=0;i<ocgs.length;i++){
17514                         if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
17515                             var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
17516                         }
17517                     }
17518                 }
17519                 if(
17520                     !annotRM['\g_mix_label_tl'].activated&&(
17521                         app.viewerType=='Reader' ||
17522                         app.viewerType=='Exchange' ||
17523                         app.viewerType=='Exchange-Pro'
17524                     )&&app.viewerVersion>=9
17525                 ){

```




```

17526         ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
17527     }
17528 }
17529 }catch(e){
17530     this.dirty=false;
17531 }
17532 }
17533 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
17534     /Subtype/Widget
17535     /FT/Btn/Ff-65537/F~2
17536     /BS~<</W~0>>
17537     /T~(fd@\g_mix_label_tl)
17538     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
17539 }
17540 \mix_appendtofields:n{\mix_pdflastann:}
17541 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
17542 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
17543     \hbox_to_wd:nn{\g_mix_wd_tl}{
17544         \vrule-width~\c_zero_dim-height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
17545     }
17546 }{%insert play button overlay
17547     \mix_insert_btnocg: %create OCG
17548     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
17549     \group_begin:
17550     \cs_if_exist:NT\textdir{\textdir TLT}
17551     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
17552     \box_move_down:nn{\g_mix_dp_tl}{
17553         \hbox_to_wd:nn{\g_mix_wd_tl}{
17554             \vbox_to_ht:nn{\g_mix_tt_tl}{
17555                 \vss
17556                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
17557                 \box_use:N\l_mix_pbtn_box
17558                 \ocgbase_oc_emc:
17559             }
17560         }
17561     }
17562     \group_end:
17563 }
17564 \int_gincr:N\g_mix_rmcnt_int
17565 }
17566 \mix_endLTR:
17567 \group_end:
17568 }
17569 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
17570 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
17571
17572 \RenewDocumentCommand\mediabutton{0{m}}{%#1 options, #2 normal button text
17573     \mix_uriend:
17574     \group_begin:
17575     \mix_beginLTR:
17576     \mode_leave_vertical:
17577     %reset various variables
17578     \tl_gclear:N\g_mix_overbtn_tl
17579     \tl_gclear:N\g_mix_downbtn_tl

```



```

17580 \tl_gclear:N\g_mix_btnactions_tl
17581 \tl_gclear:N\g_mix_tooltip_tl
17582 %process options
17583 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
17584 \mix_uribegin: %treat URI characters correctly
17585 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
17586 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
17587 \mix_uriend:
17588 %normal button appearance
17589 %\hbox_set:Nn\l_mix_poster_box{#2}
17590 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17591 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
17592 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
17593 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
17594 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
17595   \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{
17596     \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
17597   \mix_pdfxform:n{\l_mix_poster_box}
17598   \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
17599   %insert widget annotation
17600   \mix_pdfannot:nnnn{\width}{\height}{\depth}{
17601     /Subtype/Widget
17602     /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
17603     \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
17604     /FT/Btn/Ff~65536
17605     \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
17606     /AP~<<
17607     /N~\g_mix_normalbtn_tl
17608     \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
17609     \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
17610     >>
17611     /MK~<<
17612     /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
17613     /I~\g_mix_normalbtn_tl
17614     \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
17615     \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
17616     >>
17617     /A~<<
17618     /S/JavaScript/JS~(app.focusRect=false;)
17619     %sequence of actions to perform
17620     \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
17621     >>
17622   }
17623   \mix_appendtofields:n{\mix_pdflastann:}
17624   \hbox_to_wd:nn{\width}{
17625     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
17626   }
17627   \int_gincr:N\g_mix_mbtncnt_int
17628 }
17629 \mix_endLTR:
17630 \group_end:
17631 }
17632 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
17633 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}

```



17634

117 File memoir-xetex-bidi.def

```
17635 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for
17636 \renewcommand{\keepthetitle}{%
17637   \@bsmtitleempty
17638   \global\let\thanks\relax
17639   \global\let\LTRthanks\relax
17640   \global\let\RTLthanks\relax
17641   \global\let\and\relax
17642   \global\let\andnext\relax
17643   \global\let\@thanks\@empty
17644   \global\let\@title\@empty
17645   \global\let\@author\@empty
17646   \global\let\@date\@empty}
17647 \renewcommand{\maketitle}{\par
17648   \begingroup
17649     \@bsmarkseries
17650     \def\@makefnmark{\@textsuperscript{%
17651       \normalfont\@bsthanksheadpre \tmark \@bsthanksheadpost}}%
17652     \long\def\@makefntext##1{\makethanksmark ##1}
17653     \if@twocolumn
17654       \ifnum \col@number=\@ne
17655         \@maketitle
17656       \else
17657         \twocolumn[\@maketitle]%
17658       \fi
17659     \else
17660       \ifdim\pagetotal>\z@
17661         \newpage
17662       \fi
17663       \global\@topnum\z@
17664       \@maketitle
17665     \fi
17666     \thispagestyle{title}\@thanks
17667   \endgroup
17668   \@bscontmark % \setcounter{footnote}{0}%
17669 }
17670 \renewcommand*\memRTLleftskip{\if@RTL\rightskip\else\leftskip\fi}
17671 \renewcommand*\memRTLrightskip{\if@RTL\leftskip\else\rightskip\fi}
17672 \renewcommand*\memRTLvleftskip{\if@RTL\vrightskip\else\vleftskip\fi}
17673 \renewcommand*\memRTLvrightskip{\if@RTL\vleftskip\else\vrightskip\fi}
17674 \renewcommand*\memRTLraggedright{\if@RTL\raggedleft\else\raggedright\fi}
17675 \renewcommand*\memRTLraggedleft{\if@RTL\raggedright\else\raggedleft\fi}
17676 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
17677 \renewcommand*\thesubsection{%
17678   \thesection\@SepMark\@arabic\c@subsection}
17679 \renewcommand*\thesubsubsection{%
17680   \thesubsection\@SepMark\@arabic\c@subsubsection}
17681 \renewcommand*\theparagraph{%
17682   \thesubsubsection\@SepMark\@arabic\c@paragraph}
17683 \renewcommand*\thesubparagraph{%
17684   \theparagraph\@SepMark\@arabic\c@subparagraph}
```



```

17685 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
17686 \renewcommand{\theequation}{%
17687   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
17688 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
17689 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
17690 \ifartopt
17691   \chapterstyle{article}
17692   \counterwithout{figure}{chapter}
17693   \counterwithout{table}{chapter}
17694   \counterwithout{footnote}{chapter}
17695   \counterwithout{equation}{chapter}
17696   \renewcommand{\chaptername}{}
17697   \renewcommand{\maketitlehookb}{%
17698     \vskip -1.5\topsep\vskip -1.5\partopsep}
17699   \renewcommand{\maketitlehookc}{%
17700     \vskip -1.5\topsep\vskip -1.5\partopsep}
17701 \fi
17702 \long\def\@makecaption#1#2{\let\@memtempa\relax
17703   \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
17704   \else \def\@memtempa{\vbox to\topskip{}}\fi
17705   \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
17706   \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
17707   \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
17708   \let\footnote\@contfnote
17709   \let\footnotemark\@contfmark
17710   \ifdim\wd\@tempboxa<\linewidth \centering \fi
17711   \if@contcw
17712     \centering
17713     \parbox{\@contcwidth}{%
17714       \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
17715     \fi
17716   \ifdim\wd\@tempboxa<\linewidth
17717     \@contpre
17718     {\@contnfont #1\@contdelim}\@memtempa
17719     {\@contcshortstyle \@conttfont #2\@contfinal\par}
17720   \else
17721     \if@conthang
17722       \sbox\@tempboxa{\@contnfont #1\@contdelim}
17723       \@contpre%
17724       {\@contcstyle\hangindent=\wd\@tempboxa
17725         \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
17726     \else
17727       \if@contindent
17728         \@contpre%
17729         {\@contnfont #1\@contdelim}\@memtempa
17730         {\@contcstyle\hangindent=\@contindw
17731           \hangafter=\@ne\@conttfont #2\@contfinal\par}% <- v1.4
17732       \else
17733         \@contpre%
17734         {\@contnfont #1\@contdelim}\@memtempa
17735         {\@contcstyle \@conttfont #2\@contfinal\par}
17736       \fi
17737     \fi
17738   \fi

```



```

17739 \@contpost
17740 \if@contcw
17741 \par
17742 } % end of the \parbox
17743 \fi
17744 \vskip\belowcaptionskip}
17745 \ApplyPatchCodeToPackage{caption}{%
17746 \AtBeginPackage{caption}{
17747 \ClassWarningNoLine{memoir}{%
17748 You are using the caption package with the memoir \MessageBreak
17749 class. This may cause unexpected or inconsistent \MessageBreak
17750 results if you use any of memoir's captioning facilities}
17751
17752 \long\def\@makecaption##1##2{%
17753 \vskip\abovecaptionskip
17754 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
17755 \ifdim \wd\@tempboxa >\hsize
17756 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
17757 \else
17758 \global \@minipagefalse
17759 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
17760 \fi
17761 \vskip\belowcaptionskip}
17762
17763 \def\caption{%
17764 \ifx\@capttype\@undefined
17765 \@latex@error{\noexpand\caption outside float}\@ehd
17766 \expandafter\@gobble
17767 \else
17768 \refstepcounter\@capttype
17769 \expandafter\@firstofone
17770 \fi
17771 {\@dblarg{\@caption\@capttype}}%
17772 }
17773
17774 \long\def\@caption##1[##2]##3{%
17775 \par
17776 \addcontentsline{\csname ext###1\endcsname}{##1}%
17777 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
17778 \begingroup
17779 \@parboxrestore
17780 \if@minipage
17781 \setminipage
17782 \fi
17783 \normalsize
17784 \@makecaption{\csname fnum##1\endcsname}{\ignorespaces ##3}\par
17785 \endgroup}
17786 ]}
17787 \renewenvironment{thebibliography}[1]{%
17788 \bibsection
17789 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17790 \bidi@thebibliography@font@hook%
17791 \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```



118 File midfloat-xetex-bidi.def

```
17792 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
17793 \def\RTL@outputdblcol{%
17794   \if@firstcolumn
17795     \global \@firstcolumnfalse
17796     \global\setbox\@leftcolumn\copy\@outputbox
17797     \splitmaxdepth\maxdimen
17798     \vbadness\maxdimen
17799     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17800     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17801     \toks@\expandafter{\topmark}%
17802     \xdef\@firstcoltopmark{\the\toks@}%
17803     \toks@\expandafter{\splitfirstmark}%
17804     \xdef\@firstcolfirstmark{\the\toks@}%
17805     \ifx\@firstcolfirstmark\@empty
17806       \global\let\@setmarks\relax
17807     \else
17808       \gdef\@setmarks{%
17809         \let\firstmark\@firstcolfirstmark
17810         \let\topmark\@firstcoltopmark}%
17811     \fi
17812     \global\c@colht\@colht\global\c@advipersep\z@
17813     \ifnum\j@o@sk>0
17814       \remove@strip\j@o@sar
17815       \global\@colht\the\j@o@pr
17816       \ifdim\right@cor>\z@
17817         \global\advance\@colht by\right@cor
17818       \fi
17819       \global\advance\@colht by\cor@height
17820       \global\cor@height=0pt
17821     \fi
17822     \global \setbox\@rightcolumn \vbox{}%
17823   \else
17824     \ifdim\c@colht>\@colht
17825       \@tempdima\@colht
17826       \ifdim\@colht>\z@
17827         \global\setbox\@rightcolumn \vbox{%
17828           \unvbox\@rightcolumn
17829           \vbox to\@tempdima{%
17830             \vskip\c@advipersep\unvbox\@outputbox}%
17831           \vskip\stripsep
17832           \vrule height\the\j@o@ht width 0pt depth 0pt
17833           \vskip\stripsep
17834           }%
17835         \global\c@advipersep\m@advipersep
17836       \else
17837         \global\setbox\@rightcolumn \vbox{%
17838           \unvbox\@rightcolumn
17839           \vrule height\the\j@o@ht width 0pt depth 0pt
17840           \vskip\stripsep
17841           }%
17842       \fi
17843     \ifnum\j@o@sk>0
```



```

17844         \remove@strip\juo@sar
17845         \global\@colht\the\juo@pr
17846         \global\advance\@colht by -\ht\@rightcolumn
17847         \global\advance\@colht by\cor@height
17848         \global\cor@height=0pt
17849     \else
17850         \global\advance\c@colht by-\ht\@rightcolumn
17851         \global\@colht\c@colht
17852     \fi
17853 \else
17854 \global\@firstcolumntrue
17855 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17856     \unvbox\@rightcolumn
17857     \vskip\c@addvipersep
17858     \unvbox\@outputbox
17859 }%
17860 \setbox\@outputbox \vbox {%
17861     \hb@xt@\textwidth {%
17862     \hskip \columnwidth
17863     \hfil
17864     \vrule \@width\columnseprule
17865     \hfil
17866     \hb@xt@\columnwidth {%
17867     \bidi@firstcolumn@status@write%
17868     \box\@leftcolumn \hss}%
17869     \hskip-\textwidth
17870     \hb@xt@\columnwidth {%
17871     \bidi@lastcolumn@status@write%
17872     \box\@outputbox \hss}%
17873     \hskip\columnwidth
17874     \hskip\columnsep}%
17875     }%
17876 \@combinedblfloats
17877 \@setmarks
17878 \@outputpage
17879 \begingroup
17880 \@dblfloatplacement
17881 \@startdblcolumn
17882 \@whilesw\if@fcolmade \fi
17883 {\@outputpage
17884 \@startdblcolumn}%
17885 \endgroup
17886 \global\juo@sk=0\global\juo@sar={}%
17887 \global\cor@height\z@\global\c@addvipersep\z@
17888 \fi
17889 \fi
17890 }
17891
17892
17893 \def\LTR@outputdblcol{%
17894 \if@firstcolumn
17895 \global \@firstcolumnfalse
17896 \global\setbox\@leftcolumn\copy\@outputbox
17897 \splitmaxdepth\maxdimen

```



```

17898 \vbadness\maxdimen
17899 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17900 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17901 \toks@\expandafter{\topmark}%
17902 \xdef\@firstcoltopmark{\the\toks@}%
17903 \toks@\expandafter{\splitfirstmark}%
17904 \xdef\@firstcolfirstmark{\the\toks@}%
17905 \ifx\@firstcolfirstmark\@empty
17906 \global\let\@setmarks\relax
17907 \else
17908 \gdef\@setmarks{%
17909 \let\firstmark\@firstcolfirstmark
17910 \let\topmark\@firstcoltopmark}%
17911 \fi
17912 \global\c@colht\@colht\global\c@addvipersep\z@
17913 \ifnum\jua@sk>0
17914 \remove@strip\jua@sar
17915 \global\@colht\the\jua@pr
17916 \ifdim\right@cor>\z@
17917 \global\advance\@colht by\right@cor
17918 \fi
17919 \global\advance\@colht by\cor@height
17920 \global\cor@height=0pt
17921 \fi
17922 \global \setbox\@rightcolumn \vbox{%
17923 \else
17924 \ifdim\c@colht>\@colht
17925 \@tempdima\@colht
17926 \ifdim\@colht>\z@
17927 \global\setbox\@rightcolumn \vbox{%
17928 \unvbox\@rightcolumn
17929 \vbox to\@tempdima{%
17930 \vskip\c@addvipersep\unvbox\@outputbox}%
17931 \vskip\stripsep
17932 \vrule height\the\jua@ht width Opt depth Opt
17933 \vskip\stripsep
17934 }%
17935 \global\c@addvipersep\m@addvipersep
17936 \else
17937 \global\setbox\@rightcolumn \vbox{%
17938 \unvbox\@rightcolumn
17939 \vrule height\the\jua@ht width Opt depth Opt
17940 \vskip\stripsep
17941 }%
17942 \fi
17943 \ifnum\jua@sk>0
17944 \remove@strip\jua@sar
17945 \global\@colht\the\jua@pr
17946 \global\advance\@colht by -\ht\@rightcolumn
17947 \global\advance\@colht by\cor@height
17948 \global\cor@height=0pt
17949 \else
17950 \global\advance\c@colht by-\ht\@rightcolumn
17951 \global\@colht\c@colht

```




```

17952         \fi
17953     \else
17954     \global\@firstcolumntrue
17955     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17956         \unvbox\@rightcolumn
17957         \vskip\c@addvipersep
17958         \unvbox\@outputbox
17959     }%
17960     \setbox\@outputbox \vbox {%
17961         \hb@xt@\textwidth {%
17962             \hb@xt@\columnwidth {%
17963                 \bidi@firstcolumn@status@write%
17964                 \box\@leftcolumn \hss}%
17965             \hfil
17966             \vrule \@width\columnseprule
17967             \hfil
17968             \hb@xt@\columnwidth {%
17969                 \bidi@lastcolumn@status@write%
17970                 \box\@outputbox \hss}%
17971             }%
17972         }%
17973     \@combinedblfloats
17974     \@setmarks
17975     \@outputpage
17976     \begingroup
17977     \@dblfloatplacement
17978     \@startdblcolumn
17979     \@whilesw\if@fcolmade \fi
17980     {\@outputpage
17981     \@startdblcolumn}%
17982     \endgroup
17983     \global\jua@sk=0\global\jua@sar={}%
17984     \global\cor@height\z@\global\c@addvipersep\z@
17985     \fi
17986 \fi
17987 }
17988
17989
17990 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
17991     \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\f
17992         \hsize\textwidth
17993         \@parboxrestore
17994         \col@number \@ne
17995         \vrule height\topskip width0pt depth0pt
17996 }
17997
17998 \def\endstrip{%
17999     \egroup\egroup
18000     \if@firstcolumn
18001         \ifdim\pagetotal>\z@
18002             \vskip\stripsep
18003             \global\ht@strip\pagegoal
18004             \global\advance\ht@strip by-\pagetotal
18005             \global\advance\ht@strip by-\stripsep

```



```

18006             \global\advance\ht@strip by-\ht@viper
18007             \global\advance\ht@strip by-\stripsep
18008             \global\jua@ht=\ht@viper
18009         \else
18010             \global\ht@strip\z@
18011         \fi
18012     \ifdim\ht@strip>\z@
18013         \unvbox@viper
18014         \vskip\stripsep
18015         \add@strip{\the\pagetotal}{\the\jua@ht}{\the@tempdima}{\the@tempdimb}%
18016         \global\advance\jua@sk by1
18017     \else
18018         \@latex@error{Strip needs more place!}\@ehc
18019     \if@vihproof
18020         \framebox[\columnwidth]{??? Strip ???}%
18021     \fi
18022 \fi
18023 \else
18024     \@latex@error{Strip is used only on left column!}\@ehc
18025 \if@vihproof
18026     \framebox[\columnwidth]{??? Strip ???}%
18027 \fi
18028 \fi
18029 }

```

119 File minitoc-xetex-bidi.def

```

18030 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package
18031 \def\@undottedtocline#1#2#3#4#5{%
18032     \ifnum #1>\c@tocdepth\relax \else
18033     \vskip \z@ plus.2\p@
18034     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmar
18035     \parindent #2\relax\@afterindenttrue
18036     \interlinepenalty\M
18037     \leavevmode
18038     \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
18039     \hskip -\if@RTL\rightskip\else\leftskip\fi
18040     #4\nobreak\hfill \nobreak
18041     \null\par}%
18042 \fi}
18043 \def\@Undottedtocline#1#2#3#4#5{%
18044     \ifnum #1>\c@tocdepth\relax \else
18045     \vskip \z@ \@plus.2\p@
18046     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocm
18047     \parindent #2\relax\@afterindenttrue
18048     \interlinepenalty\M
18049     \leavevmode
18050     \@tempdima #3\relax
18051     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
18052     {\coffefont #4}\nobreak \nobreak\null
18053     \par}%
18054 \fi}
18055 \def\@Undottedtoclinep#1#2#3#4#5{%
18056     \ifnum #1>\c@tocdepth\relax \else

```



```

18057 \vskip \z@ \@plus.2\p@
18058 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@toctrm
18059 \parindent #2\relax\@afterindenttrue
18060 \interlinepenalty\@M
18061 \leavevmode
18062 \@tempdima #3\relax
18063 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18064 {#4}\nobreak \hfill \nobreak\null
18065 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
18066 \par}%
18067 \fi}

```

120 File multicol-xetex-bidi.def

```

18068 \ProvidesFile{multicol-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for multicol package]
18069 \def\page@sofar{%
18070   \process@cols\mult@rightbox
18071   {\ifvoid\count@
18072     \setbox\count@\hbox to\hsize{}}%
18073   \else
18074     \wd\count@\hsize
18075   \fi}%
18076 \count@\col@number \advance\count@\m@ne
18077 \mult@info\z@
18078 {Column spec: \the\full@width\space = indent
18079               + columns + sep =\MessageBreak
18080   \the\multicol@leftmargin\space
18081   + \the\col@number\space
18082   x \the\hsize\space
18083   + \the\count@\space
18084   x \the\columnsep
18085   }%
18086 \ifvmode\else\errmessage{Multicol Error}\fi
18087 \nointerlineskip
18088 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
18089 \moveright\multicol@leftmargin
18090 \hbox to\full@width{%
18091   \bidi@multicol@align@columns
18092   \rlap{\phantom p}}%
18093   }%
18094 \prevdepth\z@
18095 \kern-\dimen\tw@
18096 \ifdim\dimen\tw@ > \mc@gridwarn
18097   \PackageWarning{multicol}{
18098     {Very deep columns!\MessageBreak
18099     Grid alignment might be broken}}%
18100 \fi
18101 }
18102 \def\LTR@column@boxes{%
18103   \process@cols\mult@firstbox{%
18104     \ifdim\dp\count@>\dimen\tw@
18105     \global\dimen\tw@\dp\count@ \fi
18106     \mc@col@status@write
18107     \box\count@

```



```

18108     \hss{\columnseprulecolor\vrule
18109         \@width\columnseprule}\hss}%
18110 \ifdim\dp\mult@rightbox>\dimen\tw@
18111     \global\dimen\tw@\dp\mult@rightbox \fi
18112 \mc@lastcol@status@write
18113 \box\mult@rightbox
18114 }
18115
18116 \def\RTL@column@boxes{%
18117     \process@cols\mult@firstbox{%
18118         \hskip\hsize
18119         \hss{\columnseprulecolor\vrule
18120             \@width\columnseprule}\hss
18121     }%
18122     \hskip\hsize
18123     \process@cols\mult@firstbox{%
18124         \ifdim\dp\count@>\dimen\tw@
18125             \global\dimen\tw@\dp\count@ \fi
18126         \hskip-\hsize
18127         \mc@col@status@write
18128         \box\count@
18129         \hskip-\hsize
18130         \hskip-\columnsep
18131     }%
18132     \ifdim\dp\mult@rightbox>\dimen\tw@
18133         \global\dimen\tw@\dp\mult@rightbox \fi
18134     \hskip-\hsize
18135     \mc@lastcol@status@write
18136     \box\mult@rightbox
18137     \hskip-\hsize
18138     \hskip\full@width
18139 }
18140
18141 \newcommand\RTLmulticolcolumns
18142     {\let\ bidi@multicol@align@columns
18143         \RTL@column@boxes}
18144 \newcommand\LTRmulticolcolumns
18145     {\let\ bidi@multicol@align@columns
18146         \LTR@column@boxes}
18147 \newcommand\ bidi@multicol@align@columns
18148     {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
18149 \ bidi@AtEndPreamble{%
18150     \if@bidi@csdef{footinsv@1}{%
18151         \def\footnoterule{\kern-3\p@
18152             \hrule \@width \textwidth \kern 2.6\p@}%
18153     }{}%
18154 }
18155 \def\multicols#1{\col@number#1\relax
18156     \ifnum\col@number<\tw@
18157         \PackageWarning{multicol}%
18158             {Using ` \number\col@number'
18159              columns doesn't seem a good idea.^^J
18160              I therefore use two columns instead}%
18161         \col@number\tw@ \fi

```



```

18162 \ifnum\col@number>20
18163   \PackageError{multicol}%
18164     {Too many columns}%
18165     {Current implementation doesn't
18166       support more than 20 columns.%
18167     \MessageBreak
18168     I therefore use 20 columns instead}%
18169 \col@number20 \fi
18170 \ifx\@footnotetext\mult@footnotetext
18171 \else
18172   \let\orig@footnotetext\@footnotetext
18173   \let\@footnotetext\mult@footnotetext
18174 \fi
18175 \ifx\@LTRfootnotetext\mult@LTRfootnotetext
18176 \else
18177   \let\orig@LTRfootnotetext\@LTRfootnotetext
18178   \let\@LTRfootnotetext\mult@LTRfootnotetext
18179 \fi
18180 \ifx\@RTLfootnotetext\mult@RTLfootnotetext
18181 \else
18182   \let\orig@RTLfootnotetext\@RTLfootnotetext
18183   \let\@RTLfootnotetext\mult@RTLfootnotetext
18184 \fi
18185 \@ifnextchar[\mult@cols{\mult@cols[]}]
18186 \long\def\mult@footnotetext#1{\begingroup
18187   \hsize\textwidth
18188   \columnwidth\textwidth
18189   \orig@footnotetext{#1}\endgroup}
18190 \long\def\mult@LTRfootnotetext#1{\begingroup
18191   \hsize\textwidth
18192   \columnwidth\textwidth
18193   \orig@LTRfootnotetext{#1}\endgroup}
18194 \long\def\mult@RTLfootnotetext#1{\begingroup
18195   \hsize\textwidth
18196   \columnwidth\textwidth
18197   \orig@RTLfootnotetext{#1}\endgroup}
18198 \def\right@footnoterule{%
18199   \kern-3\p@
18200   \nointerlineskip
18201   \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
18202   \kern2.6\p@}
18203 \def\textwidth@footnoterule{\kern-3\p@
18204   \hrule \@width \textwidth \kern 2.6\p@}
18205 \def\@bidi@leave@mult@copyins{%
18206   \advance\dimen@-\skip\@bidi@copyins@
18207   \advance\dimen@-\ht\@bidi@copyins@
18208 }
18209
18210 \bidi@AtEndPreamble{%
18211   \if@bidi@csundef{footinsv@1}{%
18212     \bidi@patchcmd{\multi@column@out}{%
18213       \ifvbox \@kludgeins
18214     }{%
18215       \ifvoid\@bidi@copyins@ \else

```



```

18216         \bidi@leave@mult@copyins
18217         \fi
18218         \ifvbox \@kludgeins
18219     }{}{}%
18220 }{}%
18221 }
18222
18223

```

121 File multienum-xetex-bidi.def

```

18224 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum pack
18225 \renewcommand{\itemx}[1]{\parbox[t]%
18226 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18227 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
18228 \renewcommand{\itemxx}[2]{\parbox[t]%
18229 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18230 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
18231 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18232 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
18233 \renewcommand{\itemxxx}[3]{\parbox[t]%
18234 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18235 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
18236 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18237 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
18238 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18239 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
18240 \renewcommand{\itemxxxx}[4]{\parbox[t]%
18241 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18242 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
18243 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18244 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18245 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18246 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
18247 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18248 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
18249 \renewcommand{\itemxxxxx}[5]{\parbox[t]%
18250 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18251 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
18252 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18253 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
18254 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18255 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
18256 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18257 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
18258 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18259 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
18260 \renewcommand{\itemxox}[2]{\parbox[t]%
18261 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18262 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18263 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18264 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
18265 \renewcommand{\itemxox}[2]{\parbox[t]%
18266 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

18267 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
18268 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18269 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
18270 \renewcommand{\itemxox}[3]{\parbox[t]{%
18271 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18272 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18273 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18274 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18275 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18276 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18277 \renewcommand{\itemxxox}[3]{\parbox[t]{%
18278 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18279 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18280 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18281 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
18282 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18283 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18284 \renewcommand{\itemxxox}[3]{\parbox[t]{%
18285 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18286 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18287 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18288 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18289 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18290 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

122 File natbib-xetex-bidi.def

```

18291 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package fo
18292 \renewenvironment{thebibliography}[1]{%
18293 \bibsection
18294 \parindent\z@
18295 \bibpreamble
18296 \bibfont
18297 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
18298 \bidi@thebibliography@font@hook%
18299 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
18300 \ifNAT@openbib
18301 \renewcommand\newblock{\par}%
18302 \else
18303 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
18304 \fi
18305 \sloppy\clubpenalty4000\widowpenalty4000
18306 \sfcode`\.\@m
18307 \let\NAT@bibitem@first@sw\@firstoftwo
18308 \let\citeN\cite \let\shortcite\cite
18309 \let\citeasnoun\cite
18310 }{%
18311 \bibitem@fin
18312 \bibpostamble
18313 \def\@noitemerr{%
18314 \PackageWarning{natbib}{Empty `thebibliography' environment}%
18315 }%
18316 \endlist
18317 \bibcleanup

```



18318 }%

123 File newfloat-xetex-bidi.def

```
18319 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat packag
18320 \renewcommand*\newfloat@setwithin[2]{%
18321   \ifcsname c@chapter\endcsname
18322     \@removefromreset{#1}{chapter}%
18323   \fi
18324   \@removefromreset{#1}{section}%
18325   \edef\@tempa{#2}%
18326   \ifx\@tempa\@empty
18327     \def\@tempa{none}%
18328   \fi
18329   \def\@tempb{none}%
18330   \ifx\@tempa\@tempb
18331     \ifcsname c@chapter\endcsname
18332       \@chapterlistsgap@off{#1}%
18333     \fi
18334     \newfloat@@setwithin{#1}{-}{-}%
18335   \else
18336     \def\@tempb{chapter}%
18337     \ifx\@tempa\@tempb
18338       \@addtoreset{#1}{chapter}%
18339       \@chapterlistsgap@on{#1}%
18340       \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@
18341     \else
18342       \def\@tempb{section}%
18343       \ifx\@tempa\@tempb
18344         \@addtoreset{#1}{section}%
18345         \ifcsname c@chapter\endcsname
18346           \@addtoreset{#1}{chapter}%
18347           \@chapterlistsgap@on{#1}%
18348         \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
18349       \else
18350         \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsecti
18351       \fi
18352     \else
18353       \newfloat@Error{Invalid value `#2' for option `within'}%
18354     \fi
18355   \fi
18356 \fi}
```

124 File nicematrix-xetex-bidi.def

```
18357 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix pa
18358 \ExplSyntaxOn
18359 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
18360   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
18361   \@tabarray
18362 }{-}{-}
18363 \ExplSyntaxOff
18364
```



125 File ntheorem-xetex-bidi.def

```
18365 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
18366 \gdef\@thm#1#2#3{%
18367   \if@thmmarks
18368     \stepcounter{end\InTheoType ctr}%
18369   \fi
18370   \renewcommand{\InTheoType}{#1}%
18371   \if@thmmarks
18372     \stepcounter{curr#1ctr}%
18373     \setcounter{end#1ctr}{0}%
18374   \fi
18375   \refstepcounter{#2}%
18376   \theorem@prework
18377   \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
18378   \ifvmode \advance\thm@topsepadd\partopsep\fi
18379   \trivlist
18380   \@topsep \theorem@preskipamount
18381   \@topsepadd \thm@topsepadd % used by \@endparenv
18382   \advance\linewidth -\theorem@indent
18383   \advance\@totalleftmargin \theorem@indent
18384   \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18385   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}
```

126 File ntheorem-hyper-xetex-bidi.def

```
18386 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-]
18387 \gdef\@thm#1#2#3{%
18388   \if@thmmarks
18389     \stepcounter{end\InTheoType ctr}%
18390   \fi
18391   \renewcommand{\InTheoType}{#1}%
18392   \if@thmmarks
18393     \stepcounter{curr#1ctr}%
18394     \setcounter{end#1ctr}{0}%
18395   \fi
18396   \refstepcounter{#2}%
18397   \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
18398   \ifvmode \advance\thm@topsepadd\partopsep\fi
18399   \trivlist
18400   \@topsep \theorem@preskipamount
18401   \@topsepadd \thm@topsepadd % used by \@endparenv
18402   \advance\linewidth -\theorem@indent
18403   \advance\@totalleftmargin \theorem@indent
18404   \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18405   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}
```

127 File overpic-xetex-bidi.def

```
18406 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package]
18407 \renewenvironment{overpic}[2][\]{%
18408   \sbox{\z@}{\includegraphics[#1]{#2}}%
18409   \settodepth{\@tempcnta}{\usebox{\z@}}%
18410   \settoheight{\@tempcntb}{\usebox{\z@}}%
```



```

18411 \advance\@tempcntb\@tempcnta%
18412 \settowidth{\@tempcnta}{\usebox{\z@}}%
18413 \setlength{\@tempdima}{\unitlength}%
18414 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
18415 %
18416 \OVP@calc%
18417 %
18418 \begin{picture}(\@tempcnta,\@tempcntb)%
18419 \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
18420 \ifGin@grid%
18421 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18422 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18423 \fi\fi%
18424 % reset the graphics parameter
18425 \let\Gin@outer@scalex\relax
18426 \let\Gin@outer@scaley\relax
18427 \let\Gin@angle\relax
18428 \let\Gin@ewidth\Gin@exclamation
18429 \let\Gin@eheight\Gin@ewidth
18430 \def\Gin@scalex{1}
18431 \let\Gin@scaley\Gin@exclamation
18432 }{%
18433 \ifRTL\ifGin@grid%
18434 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18435 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18436 \fi%
18437 \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
18438 \end{picture}%
18439 }%

```

128 File pdfbase-xetex-bidi.def

```

18440 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package
18441 \ExplSyntaxOn
18442 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
18443 \cs_set_nopar:Npn\@outputpage{
18444 \int_gincr:N\g_pbs_page_int
18445 \box_if_vertical:cTF{\outputbox}{
18446 \bool_set_true:N\l_pbs_is_vertical_bool
18447 }{
18448 \bool_set_false:N\l_pbs_is_vertical_bool
18449 }
18450 \hbox_set:Nn\@outputbox{
18451 %begin of page
18452 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
18453 \box_use_drop:N\@outputbox
18454 %end of page
18455 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
18456 }
18457 \bool_if:NT\l_pbs_is_vertical_bool{
18458 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
18459 }
18460 \pbs_outputpage_orig:
18461 }

```



18462 \ExplSyntaxOff

129 File pdfscape-xetex-bidi.def

```
18463 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape pack
18464 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
18465   \if@RTL
18466     \PLS@Rotate{-90}%
18467   \else
18468     \PLS@Rotate{90}%
18469   \fi
18470 }{}{}
```

130 File pgfcorescopes.code-xetex-bidi.def

```
18471 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf p
18472 \def\pgfpicture{%
18473   \begingroup%
18474   \ifmode\else\@RTLfalse\beginL\fi%
18475   \pgfpicturetrue%
18476   \global\advance\pgf@picture@serial@count by1\relax%
18477   \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
18478   \let\pgf@noderecallback=\pgfutil@gobble%
18479   \pgf@picmaxx=-16000pt\relax%
18480   \pgf@picminx=16000pt\relax%
18481   \pgf@picmaxy=-16000pt\relax%
18482   \pgf@picminy=16000pt\relax%
18483   \pgf@relevantforpicturesizetrue%
18484   \pgf@resetpathsizes%
18485   \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
18486 \def\endpgfpicture{%
18487   \ifpgfrememberpicturepositiononpage%
18488     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
18489   \fi%
18490   % ok, now let's position the box
18491   \ifdim\pgf@picmaxx=-16000pt\relax%
18492     % empty picture. make size 0.
18493     \global\pgf@picmaxx=0pt\relax%
18494     \global\pgf@picminx=0pt\relax%
18495     \global\pgf@picmaxy=0pt\relax%
18496     \global\pgf@picminy=0pt\relax%
18497   \fi%
18498   % Shift baseline outside:
18499   \pgf@relevantforpicturesizefalse%
18500   \pgf@process{\pgf@baseline}%
18501   \xdef\pgf@shift@baseline{\the\pgf@y}%
18502   %
18503   \pgf@process{\pgf@trimleft}%
18504   \global\advance\pgf@x by-\pgf@picminx
18505   % prepare \hskip\pgf@trimleft@final.
18506   % note that \pgf@trimleft@final is also queried
18507   % by the pgf image externalization.
18508   \xdef\pgf@trimleft@final{-\the\pgf@x}%
18509   %
```



```

18510         \pgf@process{\pgf@trimright}%
18511         \global\advance\pgf@x by-\pgf@picmaxx
18512         % prepare \hskip\pgf@trimright@final.
18513         % note that \pgf@trimright@final is also queried
18514         % by the pgf image externalization.
18515         \xdef\pgf@trimright@final{\the\pgf@x}%
18516     %
18517     \pgf@remember@layerlist@globally
18518     \endgroup%
18519     \hss%
18520 \egroup%
18521 \pgf@restore@layerlist@from@global
18522 \pgf@insertlayers%
18523 \endgroup%
18524 \pgfsys@discardpath%
18525 \endgroup%
18526 \pgfsys@endscope%
18527 \pgfsys@endpicture%
18528 \endgroup%
18529 \hss
18530 \egroup%
18531 \pgfsys@typesetpicturebox\pgfpic%
18532 \ifmmode\else\endL\fi%
18533 \endgroup%
18534 }

```

131 File `pgfsys-xetex-bidi.def`

```

18535 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package fo
18536 \def\pgfsys@shadingoutsidepgfpicture#1{%
18537   \beginL#1\endL%
18538 }
18539
18540

```

132 File `picinpar-xetex-bidi.def`

```

18541 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar packag
18542 \long\def\@makewincaption#1#2{%
18543   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
18544   \ifdim\wd\@tempboxa>\picwd
18545     {\footnotesize{\bf #1:\enspace}{#2\par}}
18546   \else
18547     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
18548   \fi}
18549 \def\endwindow{%
18550   \global\tcd=\tcdsav
18551   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
18552   \vbadness=10000
18553   \splittopskip=0pt
18554 %
18555 % Typeset the lines above the window
18556 %
18557 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip

```



```

18558 \tcn=\tcd
18559 \loop\advance\tcn -1
18560 \setbox\fslice=\vsplit\holder to\baselineskip
18561 \prune\fslice\linewidth
18562 \topheight=0pt
18563 \ifnum\dp\fslice>\dp\wstrutbox
18564     \advance\topheight-\dp\fslice
18565     \advance\topheight\dp\wstrutbox
18566     \advance\topheight\ilg\fi
18567 \hbox to\linewidth{\box\fslice}
18568 \vskip-\topheight
18569 \ifdim\ht\holder>0pt\repeat
18570 \fi
18571 %
18572 % Now we build the boxes beside the window
18573 %
18574 \global\topheight=\tcl\baselineskip
18575 \ifnum\cumpartcl>0\global\tcl=\cumtcl
18576     \global\topheight=\vpic
18577 \fi
18578 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
18579 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
18580 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
18581 \tcn=\tcl \na=0 \nb=0
18582 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
18583 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
18584 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
18585 \ifnum\na=0\ifnum\nb=0
18586     \setbox\waslice=\vbox to\vpic{\vss}
18587     \setbox\wbslice=\vbox to\vpic{\vss}
18588     \bl=1\br=1
18589     \vskip\ilg
18590 \fi\fi
18591 %
18592 % both sides
18593 %
18594 \ifnum\na>0 \ifnum\nb>0
18595 \loop\advance\nb -1
18596 \advance\na -1
18597 \if@RTL%
18598 \setbox\bslice=\vsplit\holder to\baselineskip
18599 \prune\bslice\rtside
18600 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18601 to\rtside{\box\bslice\hfil}}
18602 \setbox\aslice=\vsplit\holder to\baselineskip
18603 \prune\aslice\lftside
18604 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18605 to\lftside{\box\aslice\hfil}}
18606 \else%
18607 \setbox\aslice=\vsplit\holder to\baselineskip
18608 \prune\aslice\lftside
18609 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18610 to\lftside{\box\aslice\hfil}}
18611 \setbox\bslice=\vsplit\holder to\baselineskip

```



```

18612 \prune\bslice\rtside
18613 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18614 to\rtside{\box\bslice\hfil}}
18615 \fi%
18616 \ifnum\nb>0\repeat
18617 \fi\fi
18618 %
18619 % only text on the left side
18620 %
18621 \ifnum\na>0
18622   \loop\advance\na -1
18623   \setbox\aslice=\vsplit\holder to\baselineskip
18624   \prune\aslice\lftside
18625   \setbox\waslice=\vbox{\unvbox\waslice\hbox
18626   to\lftside{\box\aslice\hfil}}
18627   \ifdim\ht\holder>Opt\repeat
18628 \fi
18629 %
18630 % only text on the right side
18631 %
18632 \ifnum\nb>0
18633   \loop\advance\nb -1
18634   \setbox\bslice=\vsplit\holder to\baselineskip
18635   \prune\bslice\rtside
18636   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18637   to\rtside{\box\bslice\hfil}}
18638   \ifdim\ht\holder>Opt\repeat
18639 \fi
18640 %
18641 % fixing the dimensions of the window part
18642 %
18643 \ifnum\bl=0\topheight=\ht\wbslice
18644 \else\ifnum\br=0\topheight=\ht\waslice
18645   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
18646   \else\topheight=\ht\wbslice\fi\fi\fi
18647 %
18648 % ship out the window material to the main vertical list
18649 %
18650 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
18651 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
18652 \fi\fi\fi
18653 \setbox>windowbox=\vbox{\hbox to\linewidth{%
18654 \ifnum\bl>0\box\waslice\hfill\fi%
18655 \vbox to\topheight{\hrule width\picwd heightOpt depthOpt\vskipOpt%
18656 \vfill\unvbox\picbox%
18657 \ifnum\picwd>0\vfill\fi%
18658 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
18659 \unvbox>windowbox%
18660 \loop
18661 \setbox\bslice=\vsplit\rawtext to\baselineskip
18662 \prune\bslice\linewidth
18663 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
18664 \unvbox\wbslice
18665 \ifdim\ht\rawtext>Opt

```



```
18666 \repeat
18667 }% FINITO
```

133 File plain-xetex-bidi.def

```
18668 \def\TeXXeTOn{\TeXXeTstate=1 }
18669 \def\TeXXeTOff{\TeXXeTstate=0 }
18670 \TeXXeTOn
18671 \def\usebox#1{\leavevmode\copy #1\relax}
18672 \def\ bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\useb
18673   \let\ bidi@o@everypar=\everypar
18674   \newtoks\ bidi@n@everypar
18675   \ bidi@n@everypar\expandafter{\the\ bidi@o@everypar}
18676   \ bidi@o@everypar{\ bidi@RTL@everypar\the\ bidi@n@everypar}
18677   \let\ everypar=\ bidi@n@everypar
18678 \def\moreLRE{\bracetext \aftergroup\endL \beginL@RTLfalse}
18679 \def\moreRLE{\bracetext \aftergroup\endR \beginR@RTLtrue}
18680 \protected\def\ hboxR{\ hbox\ bgroup
18681 \everyhbox{%
18682 \aftergroup\egroup
18683 \everyhbox{}}%
18684 \beginR
18685 \@hboxRconstructtrue
18686 \bgroup
18687 \aftergroup\endR
18688 \aftergroup\egroup
18689 }\ hbox}
18690 \protected\def\ hboxL{\ hbox\ bgroup
18691 \everyhbox{%
18692 \aftergroup\egroup
18693 \everyhbox{}}%
18694 \beginL
18695 \@hboxRconstructfalse
18696 \bgroup
18697 \aftergroup\endL
18698 \aftergroup\egroup
18699 }\ hbox}
18700 \protected\def\ vboxR{\ vbox\ bgroup
18701 \everyvbox{%
18702 \aftergroup\egroup
18703 \everyvbox{}}%
18704 \@RTLtrue
18705 \bgroup
18706 \aftergroup\egroup
18707 }\ vbox}
18708 \protected\def\ vboxL{\ vbox\ bgroup
18709 \everyvbox{%
18710 \aftergroup\egroup
18711 \everyvbox{}}%
18712 \@RTLfalse
18713 \bgroup
18714 \aftergroup\egroup
18715 }\ vbox}
18716 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
```



```

18717 \def\endLTR{\par}
18718 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
18719 \def\endRTL{\par}
18720 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
18721 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
18722 \let\unsetRTL=\setLTR
18723 \let\unsetLTR=\setRTL
18724 \let\LR=\LRE
18725 \let\RL=\RLE
18726 \def\@ensureRTL#1{\if@RTL#1\else\RLE{#1}\fi}
18727 \def\@ensureLTR#1{\if@RTL\LRE{#1}\else#1\fi}
18728 \let\@ensureRL=\@ensureRTL
18729 \let\@ensureLR=\@ensureLTR
18730 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18731 \let\@ensure@maindir=\@ensure@dir
18732 \def\@RTL{RTL}
18733 \def\@LTR{LTR}
18734 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18735 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18736 \let\@TeX\TeX
18737 \def\TeX{\@ensure@LTR{\@TeX}}
18738 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi}
18739 \dimen@=\dp\@cclv \unvbox\@cclv % open up \box255
18740 \ifvoid\footins\else % footnote info is present
18741 \vskip\skip\footins
18742 \footnoterule
18743 \unvbox\footins\fi
18744 \ifr@ggedbottom \kern-\dimen@ \vfil \fi
18745 \ifvoid\@bidi@copyins@
18746 \else
18747 \vskip\skip\@bidi@copyins@
18748 \unvbox\@bidi@copyins@
18749 \fi
18750 }
18751 \long\def\bidi@reflect@box#1{%
18752 \leavevmode
18753 \setbox\z@\hbox{#1}}%
18754 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:gestor
18755 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}}%
18756 }
18757 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
18758 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
18759 \let\setRL=\setRTL
18760 \let\setLR=\setLTR
18761 \let\unsetRL=\setLTR
18762 \let\bidi@saved@eqno=\eqno
18763 \let\bidi@saved@leqno=\leqno
18764 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
18765 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
18766 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18767 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18768 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```



134 File pstricks-xetex-bidi.def

```
18769 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
18770 \bidi@patchcmd\pspicture\beginLgroup{%
18771   \beginLgroup
18772   \ifmmode
18773   \else
18774     \RTLfalse
18775   \beginL
18776   \fi
18777 }{\bidi@warningnoline{Oops! patching '\string\pspicture' failed}}
18778
18779 \bidi@patchcmd\endpspicture{%
18780   \endgroup
18781   \psset[pstricks]{shift=0}% reset value
18782 }{%
18783   \ifmmode
18784   \else
18785     \endL
18786   \fi
18787   \endgroup
18788   \psset[pstricks]{shift=0}% reset value
18789 }{\bidi@warningnoline{Oops! patching '\string\endpspicture' failed}}
18790
18791 \bidi@patchcmd\@@scalebox{%
18792   \special{x: bscale \pst@tempc \pst@tempd}%
18793   \hbox to \z@\box\pst@hbox\hss}%
18794   \special{x: escale}%
18795 }{%
18796   \ifRTL
18797     \special{x: escale}%
18798   \else
18799     \special{x: bscale \pst@tempc \pst@tempd}%
18800   \fi
18801   \hbox to \z@\box\pst@hbox\hss}%
18802   \ifRTL
18803     \special{x: bscale \pst@tempc \pst@tempd}%
18804   \else
18805     \special{x: escale}%
18806   \fi
18807 }{\bidi@warningnoline{Oops! patching '\string\@@scalebox' failed}}
18808 \let\ps@@scalebox\@@scalebox
18809
```

135 File quotchap-xetex-bidi.def

```
18810 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18811 \renewcommand{\qauthor}[1]{%
18812   \par\smallskip
18813   {\ifRTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
18814 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18815   {\size@chapter{\sectfont\ifRTL\raggedright\else\raggedleft\fi
18816     {\chapnumfont
18817       \ifnum \c@secnumdepth >\m@ne%
```



```

18818     \if@mainmatter\thechapter%
18819     \fi\fi
18820     \par\nobreak}%
18821     {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
18822     \nobreak\chapterheadendvskip}}
18823 \renewcommand*{\@iprintcites}{%
18824   \vbox to\z@{\leavevmode\copy\@quotebox\vss}
18825   \global\let\@printcites\relax}

```

136 File ragged2e-xetex-bidi.def

```

18826 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
18827 \renewcommand{\Centering}{%
18828   \ifx\\ \@raggedtwoe@savedcr
18829     \let\\ @centercr
18830   \fi
18831   \let@gnewline\@raggedtwoe@gnewline
18832   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
18833   \@rightskip\CenteringRightskip
18834   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18835   \parfillskip\CenteringParfillskip
18836   \parindent\CenteringParindent
18837   \@raggedtwoe@spaceskiptrue
18838   \@raggedtwoe@everyselectfont
18839 }
18840 \renewcommand{\RaggedLeft}{%
18841   \ifx\\ \@raggedtwoe@savedcr
18842     \let\\ @centercr
18843   \fi
18844   \let@gnewline\@raggedtwoe@gnewline
18845   \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
18846   \@rightskip\RaggedLeftRightskip
18847   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18848   \parfillskip\RaggedLeftParfillskip
18849   \parindent\RaggedLeftParindent
18850   \@raggedtwoe@spaceskiptrue
18851   \@raggedtwoe@everyselectfont
18852 }
18853 \renewcommand{\RaggedRight}{%
18854   \ifx\\ \@raggedtwoe@savedcr
18855     \let\\ @centercr
18856   \fi
18857   \let@gnewline\@raggedtwoe@gnewline
18858   \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
18859   \@rightskip\RaggedRightRightskip
18860   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18861   \parfillskip\RaggedRightParfillskip
18862   \parindent\RaggedRightParindent
18863   \@raggedtwoe@spaceskiptrue
18864   \@raggedtwoe@everyselectfont
18865 }
18866 \renewcommand{\justifying}{%
18867   \let\\ \@raggedtwoe@savedcr
18868   \let@gnewline\@raggedtwoe@saved@gnewline

```



```

18869 \if@RTL\rightskip\else\leftskip\fi\z@
18870 \@rightskip\z@
18871 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18872 \parfillskip\JustifyingParfillskip
18873 \parindent\JustifyingParindent
18874 \@raggedtwo@spaceskipfalse
18875 \@raggedtwo@everyselectfont
18876 }
18877 \def\@raggedtwo@raggedrightboxes@opt{%
18878 \renewcommand{\@arrayparboxrestore}{%
18879 \let\if@nobreak\iffalse
18880 \let\if@noskipsec\iffalse
18881 \let\par\@par
18882 \let\-\@dischyph
18883 \let'\@acci\let\` \@accii\let\=\@acciii
18884 \parskip\z@skip
18885 \everypar{}%
18886 \linewidth\hsize
18887 \@totalleftmargin\z@
18888 \if@RTL
18889 \RaggedLeft
18890 \else
18891 \RaggedRight
18892 \fi
18893 \lineskip\normallineskip
18894 \baselineskip\normalbaselineskip
18895 \sloppy}%
18896 \let\@raggedtwo@raggedrightboxes@opt\relax
18897 }
18898 \def\@raggedtwo@document@opt{%
18899 \AtBeginDocument{\@raggedtwo@abdhook}%
18900 \@raggedtwo@raggedrightboxes@opt
18901 \@raggedtwo@footmisctrue
18902 \let\@raggedtwo@document@opt\relax
18903 }
18904 \def\@raggedtwo@abdhook{%
18905 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
18906 right to left documents and '\string\RaggedRight' for left
18907 to right documents}%
18908 \if@RTL
18909 \RaggedLeft
18910 \else
18911 \RaggedRight
18912 \fi
18913 \@ifundefined{@tocrmarg}{\edef\tocrmarg{\tocrmarg plus 2em}}%
18914 \let\@raggedtwo@abdhook\relax
18915 }
18916 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
18917 \@raggedtwo@raggedrightboxes@opt
18918 }{}
18919 \@ifpackagewith{ragged2e}{document}{%
18920 \@raggedtwo@document@opt
18921 }{}
18922 \let\origin@RaggedLeft=\RaggedLeft

```



```

18923 \let\origin@RaggedRight=\RaggedRight
18924 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18925 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

137 File rapport1-xetex-bidi.def

```

18926 \ProvidesFile{rapport1-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for rapport1 class
18927 \renewenvironment{theindex}{%
18928   \if@twocolumn
18929     \@restonecolfalse
18930   \else
18931     \@restonecoltrue
18932   \fi
18933   \columnseprule \z@
18934   \columnsep 35\p@
18935   \twocolumn[\@makeschapterhead{\indexname}]%
18936   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18937   \thispagestyle{plain}\parindent\z@
18938   \parskip\z@ \@plus .3\p@\relax
18939   \let\item\@idxitem
18940 }{%
18941   \if@restonecol\onecolumn\else\clearpage\fi}
18942 \renewcommand*{\head@style}{%
18943   \interlinepenalty \@M
18944   \hyphenpenalty=\@M \exhyphenpenalty=\@M
18945   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizel\relax}
18946 \if@titlepage
18947   \renewenvironment{abstract}{%
18948     \titlepage
18949     \null\vfil
18950     \section*{\SectFont\abstractname}%
18951     \noindent\ignorespaces}
18952   {\par\vfil\null\endtitlepage}
18953 \else
18954   \renewenvironment{abstract}{%
18955     \if@twocolumn
18956       \section*{\abstractname}%
18957     \else
18958       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18959       \section*{\small\SectFont\abstractname}%
18960       \noindent\ignorespaces
18961     \fi}
18962   {\if@twocolumn\else\par\egroup\fi}
18963 \fi
18964 \renewcommand*{\@regtocline[3]}{%
18965   \ifnum #1>\c@tocdepth
18966   \else
18967     \vskip\z@\@plus.2\p@
18968     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
18969     \if@RTL\rightskip\else\leftskip\fi\unitindent
18970     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
18971     \parfillskip\z@
18972     \@tempdima\unitindent
18973     \parindent\z@

```



```

18974 \leavevmode
18975 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
18976 \hskip 1em \nobreak{\slshape #3}\par
18977 }%
18978 \fi}
18979 \if@oldtoc
18980 \renewcommand*\l@part[2]{%
18981 \ifnum \c@tocdepth >-2\relax
18982 \addpenalty{-\@highpenalty}%
18983 \addvspace{2.25em \@plus\p@}%
18984 \begingroup
18985 \setlength\@tempdima{3em}%
18986 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18987 \parfillskip -\@pnumwidth
18988 {\leavevmode
18989 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
18990 \nobreak
18991 \global\@nobreaktrue
18992 \everypar{\global\@nobreakfalse\everypar{}}%
18993 \endgroup
18994 \fi}
18995 \else
18996 \renewcommand*\l@part{%
18997 \ifnum \c@tocdepth >-2\relax
18998 \addpenalty{-\@highpenalty}%
18999 \addvspace{2.25em \@plus\p@}%
19000 \@regtocline{0}%
19001 \fi}
19002 \fi
19003 \if@oldtoc
19004 \renewcommand*\l@chapter[2]{%
19005 \addpenalty{-\@highpenalty}%
19006 \vskip 1.0em \@plus\p@
19007 \setlength\@tempdima{1.5em}%
19008 \begingroup
19009 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19010 \parfillskip -\@pnumwidth
19011 \leavevmode \bfseries
19012 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19013 \hskip -\if@RTL\rightskip\else\leftskip\fi
19014 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19015 \penalty\@highpenalty
19016 \endgroup}
19017 \else
19018 \renewcommand*\l@chapter{\@regtocline{0}}
19019 \fi
19020 \renewcommand*\left@footnoterule{%
19021 \kern-3\p@
19022 \kern.5\baselineskip
19023 \hrule\@width\unitindent
19024 \kern.4\baselineskip
19025 }
19026 \renewcommand*\right@footnoterule{%
19027 \kern-3\p@

```



```

19028 \kern.5\baselineskip
19029 \nointerlineskip
19030 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19031 \kern.4\baselineskip}
19032 \renewenvironment{thebibliography}[1]
19033   {\chapter*{\bibname}%
19034    \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19035    \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19036    \bidi@thebibliography@font@hook%
19037    \list{\@biblabel{\@arabic\c@enumiv}}%
19038      {\settowidth\labelwidth{\@biblabel{#1}}%
19039       \leftmargin\labelwidth
19040       \advance\leftmargin\labelsep
19041       \@openbib@code
19042       \usecounter{enumiv}%
19043       \let\p@enumiv\@empty
19044       \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19045     \sloppy\clubpenalty4000\widowpenalty4000%
19046     \sfcode`. \m}
19047   {\def\@noitemerr
19048    {\@latex@warning{Empty `thebibliography' environment}}%
19049    \endlist}
19050 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19051 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
19052 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
19053 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19054 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19055 \renewcommand*\theequation{%
19056   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19057 \renewcommand*\thefigure{%
19058   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19059 \renewcommand*\thetable{%
19060   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19061 \if@titlepage
19062 \renewcommand*\TitleFont{\rmfamily}
19063 \renewcommand*\maketitle{%
19064   \begin{titlepage}%
19065     \let\footnotesize\small
19066     \let\right@footnoterule\relax
19067     \let\left@footnoterule\relax
19068     \let\textwidth@footnoterule\relax
19069     \let \footnote \thanks
19070     \long\def\@makefntext##1{\parindent\z@
19071       \def\labelitemi{\textendash}\@revlabeltrue
19072       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19073     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19074     \if@compatibility\setcounter{page}{0}\fi
19075     \null\vfil
19076     \vskip 60\p@
19077     \begin{center}%
19078       \TitleFont
19079       {\LARGE \def\\{\penalty -\@M}
19080        \if@allcaps
19081          \expandafter\uc@nothanks\@title\thanks\relax

```



```

19082     \else
19083         \@title
19084     \fi\par}%
19085 \vskip 3em%
19086 {\large
19087     \lineskip .75em \parindent\z@
19088     \begin{tabular}[t]{c}%
19089         \if@allcaps
19090             \expandafter\uc@authornothanks\@author\and\relax
19091         \else
19092             \@author
19093         \fi
19094     \end{tabular}\par}%
19095 \vskip 1.5em%
19096 {\large
19097     \if@allcaps
19098         \uppercase\expandafter{\@date}%
19099     \else
19100         \@date
19101     \fi\par}%
19102 \end{center}\par
19103 \@thanks
19104 \vfil\null
19105 \end{titlepage}%
19106 \setcounter{footnote}{0}%
19107 \global\let\thanks\relax
19108 \global\let\maketitle\relax
19109 \global\let\@thanks\@empty
19110 \global\let\@author\@empty
19111 \global\let\@title\@empty
19112 \global\let\@date\@empty
19113 \global\let\title\relax
19114 \global\let\author\relax
19115 \global\let\date\relax
19116 \global\let\and\relax
19117 }
19118 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19119 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19120     \futurelet\@tempa\uc@ax}
19121 \def\uc@ax{%
19122     \ifx\@tempa\relax
19123     \else
19124         \ \andname \ \ \expandafter\uc@authornothanks
19125     \fi}
19126 \def\uc@tx{\ifx\@tempa\relax
19127     \else \expandafter\uc@ty \fi}
19128 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19129 \else
19130 \renewcommand*\maketitle{\par
19131     \begingroup
19132         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19133         \def\@makefnmark{\rlap{%
19134             \@textsuperscript{\normalfont\@thefnmark}}}%
19135         \long\def\@makefntext{\@xmakefntext{%
```



```

19136     \@textsuperscript{\normalfont\@thefnmark}}}%
19137 \if@twocolumn
19138     \ifnum \col@number=\@one
19139         \@maketitle
19140     \else
19141         \twocolumn[\@maketitle]%
19142     \fi
19143 \else
19144     \newpage
19145     \global\@topnum\z@
19146     \@maketitle
19147     \fi
19148     \thispagestyle{plain}\@thanks
19149 \endgroup
19150 \setcounter{footnote}{0}%
19151 \global\let\thanks\relax
19152 \global\let\maketitle\relax
19153 \global\let\@maketitle\relax
19154 \global\let\@thanks\@empty
19155 \global\let\@author\@empty
19156 \global\let\@title\@empty
19157 \global\let\@date\@empty
19158 \global\let\title\relax
19159 \global\let\author\relax
19160 \global\let\date\relax
19161 \global\let\and\relax
19162 }
19163 \def\@maketitle{%
19164     \newpage
19165     \null
19166     \vskip 2em%
19167     \begin{center}%
19168         \let \footnote \thanks
19169         {\LARGE \TitleFont \@title \par}%
19170         \vskip 1.5em%
19171         {\large \TitleFont
19172             \lineskip .5em%
19173             \begin{tabular}[t]{c}%
19174                 \@author
19175             \end{tabular}\par}%
19176         \vskip 1em%
19177         {\large \TitleFont \@date}%
19178     \end{center}%
19179     \par
19180     \vskip 1.5em}
19181 \fi

```

138 File rapport3-xetex-bidi.def

```

19182 \ProvidesFile{rapport3-xetex-bidi.def}[2025/09/30 v0.7 bidi adaptations for rapport3 class
19183 \renewenvironment{theindex}{%
19184     \if@twocolumn
19185         \@restonecolfalse
19186     \else

```




```

19187 \@restonecoltrue
19188 \fi
19189 \columnseprule \z@
19190 \columnsep 35\p@
19191 \twocolumn[\@makeschapterhead{\indexname}]%
19192 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
19193 \thispagestyle{plain}\parindent\z@
19194 \parskip\z@ \@plus .3\p@\relax
19195 \let\item\@idxitem
19196 }{%
19197 \if@restonecol\onecolumn\else\clearpage\fi}
19198 \if@titlepage
19199 \renewcommand*{\TitleFont{\rmfamily}
19200 \renewcommand*\maketitle{%
19201 \begin{titlepage}%
19202 \let\footnotesize\small
19203 \let\right@footnoterule\relax
19204 \let\left@footnoterule\relax
19205 \let\textwidth@footnoterule\relax
19206 \let \footnote \thanks
19207 \let \LTRfootnote \LTRthanks
19208 \let \RTLfootnote \RTLthanks
19209 \long\def\@makefnmark##1{\parindent\z@
19210 \def\labelitemi{\textendash}\@revlabeltrue
19211 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19212 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19213 \if@compatibility\setcounter{page}{0}\fi
19214 \null\vfil
19215 \vskip 60\p@
19216 \begin{center}%
19217 \TitleFont
19218 {\LARGE \def\{\penalty -\@M}
19219 \if@allcaps
19220 \expandafter\uc@nothanks\@title\thanks\relax
19221 \else
19222 \@title
19223 \fi\par}%
19224 \vskip 3em%
19225 {\large
19226 \lineskip .75em \parindent\z@
19227 \begin{tabular}[t]{c}%
19228 \if@allcaps
19229 \expandafter\uc@authornothanks\@author\and\relax
19230 \else
19231 \@author
19232 \fi
19233 \end{tabular}\par}%
19234 \vskip 1.5em%
19235 {\large
19236 \if@allcaps
19237 \uppercase\expandafter{\@date}%
19238 \else
19239 \@date
19240 \fi\par}%

```



```

19241     \end{center}\par
19242     \@thanks
19243     \vfil\null
19244 \end{titlepage}%
19245 \setcounter{footnote}{0}%
19246 \global\let\thanks\relax
19247 \global\let\LTRthanks\relax
19248 \global\let\RTLthanks\relax
19249 \global\let\maketitle\relax
19250 \global\let\@thanks\@empty
19251 \global\let\@author\@empty
19252 \global\let\@title\@empty
19253 \global\let\@date\@empty
19254 \global\let\title\relax
19255 \global\let\author\relax
19256 \global\let\date\relax
19257 \global\let\and\relax
19258 }
19259 \def\@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\@tx}
19260 \def\@authornothanks#1\and{\@nothanks#1\thanks\relax
19261     \futurelet\@tempa\@ax}
19262 \def\@ax{%
19263     \ifx\@tempa\relax
19264     \else
19265     \ \andname \ \expandafter\@authornothanks
19266     \fi}
19267 \def\@tx{\ifx\@tempa\relax
19268     \else \expandafter\@ty \fi}
19269 \def\@ty#1{\thanks{#1}\@nothanks}
19270 \else
19271 \renewcommand*\maketitle{\par
19272     \begingroup
19273     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19274     \def\@makefnmark{\rlap{%
19275     \textsuperscript{\normalfont\@thefnmark}}}%
19276     \long\def\@makefntext{\@xmakefntext{%
19277     \textsuperscript{\normalfont\@thefnmark}}}%
19278     \if@twocolumn
19279     \ifnum \col@number=\@ne
19280     \maketitle
19281     \else
19282     \twocolumn[\@maketitle]%
19283     \fi
19284     \else
19285     \newpage
19286     \global\@topnum\z@
19287     \maketitle
19288     \fi
19289     \thispagestyle{plain}\@thanks
19290 \endgroup
19291 \setcounter{footnote}{0}%
19292 \global\let\thanks\relax
19293 \global\let\LTRthanks\relax
19294 \global\let\RTLthanks\relax

```



```

19295 \global\let\maketitle\relax
19296 \global\let\@maketitle\relax
19297 \global\let\@thanks\@empty
19298 \global\let\@author\@empty
19299 \global\let\@title\@empty
19300 \global\let\@date\@empty
19301 \global\let\title\relax
19302 \global\let\author\relax
19303 \global\let\date\relax
19304 \global\let\and\relax
19305 }
19306 \def\@maketitle{%
19307 \newpage
19308 \null
19309 \vskip 2em%
19310 \if@titlecentered
19311 \begin{center}%
19312 \let \footnote \thanks
19313 \let \LTRfootnote \LTRthanks
19314 \let \RTLfootnote \RTLthanks
19315 {\LARGE \TitleFont \@title \par}%
19316 \vskip 1.5em%
19317 {\large \TitleFont
19318 \lineskip .5em%
19319 \begin{tabular}[t]{c}%
19320 \@author
19321 \end{tabular}\par}%
19322 \vskip 1em%
19323 {\large \TitleFont \@date}%
19324 \end{center}%
19325 \else
19326 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
19327 {\large \TitleFont \lineskip .5em \tabcolsep\z@
19328 \def\and{%% \begin{tabular} has already started
19329 \end{tabular}\hskip 1em plus .17fil
19330 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tab
19331 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
19332 \vskip 1em {\large \TitleFont \@date}
19333 \fi
19334 \par
19335 \vskip 1.5em}
19336 \fi
19337 \renewcommand*\@regtocline[3]{%
19338 \ifnum #1>\c@tocdepth
19339 \else
19340 \vskip\z@\@plus.2\p@
19341 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
19342 \ifRTL\righskip\else\leftskip\fi\unitindent
19343 \ifRTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
19344 \parfillskip\z@
19345 \@tempdima\unitindent
19346 \parindent\z@
19347 \leavevmode
19348 \hbox{} \hskip -\ifRTL\righskip\else\leftskip\fi\relax#2\nobreak

```



```

19349     \hskip 1em \nobreak{\slshape #3}\par
19350     }%
19351 \fi}
19352 \if@oldtoc
19353 \renewcommand*\l@part[2]{%
19354   \ifnum \c@tocdepth >-2\relax
19355     \addpenalty{-\@highpenalty}%
19356     \addvspace{2.25em \@plus\p@}%
19357     \begingroup
19358       \setlength\@tempdima{3em}%
19359       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19360       \parfillskip -\@pnumwidth
19361       {\leavevmode
19362         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19363         \nobreak
19364         \global\@nobreaktrue
19365         \everypar{\global\@nobreakfalse\everypar{}}%
19366     \endgroup
19367 \fi}
19368 \else
19369   \renewcommand*\l@part{%
19370     \ifnum \c@tocdepth >-2\relax
19371       \addpenalty{-\@highpenalty}%
19372       \addvspace{2.25em \@plus \p@}%
19373       \@regtocline{0}%
19374     \fi}
19375 \fi
19376 \if@oldtoc
19377 \renewcommand*\l@chapter[2]{%
19378   \addpenalty{-\@highpenalty}%
19379   \vskip 1.0em \@plus\p@
19380   \setlength\@tempdima{1.5em}%
19381   \begingroup
19382     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19383     \parfillskip -\@pnumwidth
19384     \leavevmode \bfseries
19385     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19386     \hskip -\if@RTL\rightskip\else\leftskip\fi
19387     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19388     \penalty\@highpenalty
19389   \endgroup}
19390 \else
19391   \renewcommand*\l@chapter{\@regtocline{0}}
19392 \fi
19393 \renewcommand*\head@style{%
19394   \interlinepenalty \@M
19395   \hyphenpenalty=\@M \exhyphenpenalty=\@M
19396   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
19397 \if@titlepage
19398   \renewenvironment{abstract}{%
19399     \titlepage
19400     \null\vfil
19401     \section*{\SectFont\abstractname}%
19402     \noindent\ignorespaces}

```



```

19403     {\par\vfil\null\endtitlepage}
19404 \else
19405   \renewenvironment{abstract}{%
19406     \if@twocolumn
19407       \section*{\abstractname}%
19408     \else
19409       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
19410       \section*{\small\SectFont\abstractname}%
19411       \noindent\ignorespaces
19412     \fi}
19413     {\if@twocolumn\else\par\egroup\fi}
19414 \fi
19415 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19416 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19417 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19418 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19419 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19420 \renewcommand*\thefigure{%
19421   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19422 \renewcommand*\thetable{%
19423   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19424 \renewcommand*\theequation{%
19425   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@equation}
19426 \renewenvironment{thebibliography}[1]
19427   {\chapter*{\bibname}%
19428     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19429     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19430     \bidi@thebibliography@font@hook%
19431     \list{\@biblabel{\@arabic\c@enumiv}}%
19432       {\settowidth\labelwidth{\@biblabel{#1}}%
19433         \leftmargin\labelwidth
19434         \advance\leftmargin\labelsep
19435         \@openbib@code
19436         \usecounter{enumiv}%
19437         \let\p@enumiv\@empty
19438         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19439     \sloppy\clubpenalty4000\widowpenalty4000%
19440     \sfcode`..\@m}
19441   {\def\@noitemerr
19442     {\@latex@warning{Empty `thebibliography' environment}}%
19443     \endlist}
19444 \renewcommand*\left@footnoterule{%
19445   \kern-3\p@
19446   \kern.5\baselineskip
19447   \hrule\@width\unitindent
19448   \kern.4\baselineskip
19449 }
19450 \renewcommand*\right@footnoterule{%
19451   \kern-3\p@
19452   \kern.5\baselineskip
19453   \nointerlineskip
19454   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19455   \kern.4\baselineskip}
19456 \renewcommand*\head@style{%

```



```

19457 \interlinepenalty \@M
19458 \hyphenpenalty=\@M \exhyphenpenalty=\@M
19459 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

139 File refrep-xetex-bidi.def

```

19460 \ProvidesFile{refrep-xetex-bidi.def}[2025/09/30 v0.6 bidi adaptations for refrep class for
19461 \if@titlepage
19462 \renewcommand\maketitle{\begin{titlepage}%
19463 \let\footnotesize\small
19464 \let\right@footnoterule\relax
19465 \let\left@footnoterule\relax
19466 \let\textwidth@footnoterule\relax
19467 \let\footnote\thanks
19468 \let\LTRfootnote\LTRthanks
19469 \let\RTLfootnote\RTLthanks
19470 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19471 \def\@makefnmark%
19472   {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19473 \long\def\@makefntext##1{%
19474   \@setpar{\@par
19475     \@tempdima = \hsize
19476     \advance\@tempdima -1em
19477     \parshape \@ne 1em \@tempdima}%
19478   \par\parindent 1em \noindent
19479   \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19480 \null\vfil
19481 \vskip 60\p@
19482 \begin{center}%
19483   {\LARGE \@title \par}%
19484   \vskip 3em%
19485   {\large
19486     \lineskip .75em%
19487     \begin{tabular}[t]{c}%
19488       \@author
19489     \end{tabular}\par}%
19490   \vskip 1.5em%
19491   {\large \@date \par}%           % Set date in \large size.
19492 \end{center}\par
19493 \@thanks
19494 \vfil\null
19495 \end{titlepage}%
19496 \setcounter{footnote}{0}%
19497 \global\let\thanks\relax
19498 \global\let\LTRthanks\relax
19499 \global\let\RTLthanks\relax
19500 \global\let\maketitle\relax
19501 \global\let\@thanks\@empty
19502 \global\let\@author\@empty
19503 \global\let\@date\@empty
19504 \global\let\@title\@empty
19505 \global\let\title\relax
19506 \global\let\author\relax
19507 \global\let\date\relax

```



```

19508 \global\let\and\relax
19509 }
19510 \else
19511 \renewcommand\maketitle{\par
19512 \begingroup
19513 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19514 \def\@makefnmark%
19515 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19516 \long\def\@makefntext##1{%
19517 \setpar{\@par
19518 \@tempdima = \hspace
19519 \advance\@tempdima -1em
19520 \parshape \@ne 1em \@tempdima}%
19521 \par\parindent 1em \noindent
19522 \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19523 \if@twocolumn
19524 \ifnum \col@number=\@ne
19525 \maketitle
19526 \else
19527 \twocolumn[\@maketitle]%
19528 \fi
19529 \else
19530 \newpage
19531 \global\@topnum\z@ % Prevents figures from going at top of page.
19532 \maketitle
19533 \fi
19534 \thispagestyle{empty}\@thanks
19535 \endgroup
19536 \setcounter{footnote}{0}%
19537 \global\let\thanks\relax
19538 \global\let\LTRthanks\relax
19539 \global\let\RTLthanks\relax
19540 \global\let\maketitle\relax
19541 \global\let\@maketitle\relax
19542 \global\let\@thanks\@empty
19543 \global\let\@author\@empty
19544 \global\let\@date\@empty
19545 \global\let\@title\@empty
19546 \global\let\title\relax
19547 \global\let\author\relax
19548 \global\let\date\relax
19549 \global\let\and\relax
19550 }
19551 \def\@maketitle{%
19552 \newpage
19553 \null
19554 \longthickrule\vskip1.5em%
19555 \let \footnote \thanks
19556 \let \LTRfootnote \LTRthanks
19557 \let \RTLfootnote \RTLthanks
19558 {\secshape \parskip\z@ \parindent\z@
19559 \Large\bfseries \@title \par}%
19560 \vskip1.5em\longthickrule\vskip1.5em%
19561 {\normalsize

```



```

19562     \lineskip .5em%
19563     \begin{flushright}%
19564         {\slshape\@author\par}
19565         \vskip 1em%
19566         {\@date}%
19567     \end{flushright}\par}%
19568     \vskip 1.5em}
19569 \fi
19570 \renewcommand*\l@part[2]{%
19571     \ifnum \c@tocdepth >-2\relax
19572     \addpenalty{-\@highpenalty}%
19573     \addvspace{2.25em \@plus\p@}%
19574     \begingroup
19575     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19576     \parfillskip -\@pnumwidth
19577     {\leavevmode
19578     \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
19579     \nobreak
19580     \global\@nobreaktrue
19581     \everypar{\global\@nobreakfalse\everypar{}}%
19582     \endgroup
19583     \fi}
19584 \renewcommand*\l@chapter[2]{%
19585     \ifnum \c@tocdepth >\m@ne
19586     \addpenalty{-\@highpenalty}%
19587     \vskip 1.0em \@plus\p@
19588     \setlength\@tempdima{1.5em}%
19589     \begingroup
19590     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19591     \parfillskip -\@pnumwidth
19592     \leavevmode \bfseries
19593     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19594     \hskip -\if@RTL\rightskip\else\leftskip\fi
19595     #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
19596     \penalty\@highpenalty
19597     \endgroup
19598     \fi}
19599 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
19600     \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
19601     \hyphenpenalty=2000}
19602 \renewcommand\left@footnoterule{%
19603     \kern-3\p@
19604     \hrule\@width.4\columnwidth
19605     \kern 2.6\p@}
19606 \renewcommand\right@footnoterule{%
19607     \kern-3\p@
19608     \nointerlineskip
19609     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19610     \kern2.6\p@}
19611 \renewcommand\theequation
19612 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19613 \renewcommand\thefigure
19614     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19615 \renewcommand\thetable%

```




```

19616     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19617 \renewcommand\thesection      {\thechapter\@SepMark\@arabic\c@section}
19618 \renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
19619 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19620 \renewcommand\theparagraph     {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19621 \renewcommand\thesubparagraph  {\theparagraph\@SepMark\@arabic\c@subparagraph}
19622 \renewenvironment{thebibliography}[1]
19623     {\chapter*{\bibname
19624         \@mkboth{\bibname}{\bibname}}%
19625     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19626     \bidi@thebibliography@font@hook%
19627     \list{\@biblabel{\@arabic\c@enumiv}}%
19628         {\settowidth\labelwidth{\@biblabel{#1}}%
19629         \leftmargin\labelwidth
19630         \advance\leftmargin\labelsep
19631         \@openbib@code
19632         \usecounter{enumiv}%
19633         \let\p@enumiv\@empty
19634         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19635         \sloppy
19636         \clubpenalty4000
19637         \@clubpenalty \@clubpenalty
19638         \widowpenalty4000%
19639     \sfcode`\.=\@m}
19640 {\def\@noitemerr
19641     {\@latex@warning{Empty `thebibliography' environment}}%
19642     \endlist}

```

140 File report-xetex-bidi.def

```

19643 \ProvidesFile{report-xetex-bidi.def}[2025/09/30 v1.1 bidi adaptations for standard report c
19644 \renewenvironment{theindex}
19645     {\if@twocolumn
19646         \@restonecolfalse
19647         \else
19648             \@restonecoltrue
19649         \fi
19650         \columnseprule \z@
19651         \columnsep 35\p@
19652         \twocolumn[\@makeschapterhead{\indexname}]}%
19653         \@mkboth{\MakeUppercase\indexname}%
19654         {\MakeUppercase\indexname}%
19655         \thispagestyle{plain}\parindent\z@
19656         \parskip\z@ \@plus .3\p@\relax
19657         \let\item\@idxitem}
19658     {\if@restonecol\onecolumn\else\clearpage\fi}
19659 \if@titlepage
19660 \renewcommand\maketitle{\begin{titlepage}%
19661 \let\footnotesize\small
19662 \let\right@footnoterule\relax
19663 \let\left@footnoterule\relax
19664 \let\textwidth@footnoterule\relax
19665 \let \footnote \thanks
19666 \let \LTRfootnote \LTRthanks

```



```

19667 \let \RTLfootnote \RTLthanks
19668 \null\vfil
19669 \vskip 60\p@
19670 \begin{center}%
19671   {\LARGE \@title \par}%
19672   \vskip 3em%
19673   {\large
19674     \lineskip .75em%
19675     \begin{tabular}[t]{c}%
19676       \@author
19677     \end{tabular}\par}%
19678   \vskip 1.5em%
19679   {\large \@date \par}%           % Set date in \large size.
19680 \end{center}\par
19681 \@thanks
19682 \vfil\null
19683 \end{titlepage}%
19684 \setcounter{footnote}{0}%
19685 \global\let\thanks\relax
19686 \global\let\LTRthanks\relax
19687 \global\let\RTLthanks\relax
19688 \global\let\maketitle\relax
19689 \global\let\@thanks\@empty
19690 \global\let\@author\@empty
19691 \global\let\@date\@empty
19692 \global\let\@title\@empty
19693 \global\let\title\relax
19694 \global\let\author\relax
19695 \global\let\date\relax
19696 \global\let\and\relax
19697 }
19698 \else
19699 \renewcommand\maketitle{\par
19700   \begingroup
19701     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19702     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19703     \long\def\@makefntext##1{\parindent 1em\noindent
19704       \hb@xt@1.8em{%
19705         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
19706     \if@twocolumn
19707       \ifnum \col@number=\@one
19708         \@maketitle
19709       \else
19710         \twocolumn[\@maketitle]%
19711       \fi
19712     \else
19713       \newpage
19714       \global\@topnum\z@   % Prevents figures from going at top of page.
19715       \@maketitle
19716     \fi
19717     \thispagestyle{plain}\@thanks
19718   \endgroup
19719   \setcounter{footnote}{0}%
19720   \global\let\thanks\relax

```



```

19721 \global\let\LTRthanks\relax
19722 \global\let\RTLthanks\relax
19723 \global\let\maketitle\relax
19724 \global\let\@maketitle\relax
19725 \global\let\@thanks\@empty
19726 \global\let\@author\@empty
19727 \global\let\@date\@empty
19728 \global\let\@title\@empty
19729 \global\let\title\relax
19730 \global\let\author\relax
19731 \global\let\date\relax
19732 \global\let\and\relax
19733 }
19734 \def\@maketitle{%
19735 \newpage
19736 \null
19737 \vskip 2em%
19738 \begin{center}%
19739 \let \footnote \thanks
19740 \let \LTRfootnote \LTRthanks
19741 \let \RTLfootnote \RTLthanks
19742 {\LARGE \@title \par}%
19743 \vskip 1.5em%
19744 {\large
19745 \lineskip .5em%
19746 \begin{tabular}[t]{c}%
19747 \@author
19748 \end{tabular}\par}%
19749 \vskip 1em%
19750 {\large \@date}%
19751 \end{center}%
19752 \par
19753 \vskip 1.5em}
19754 \fi
19755 \IfPackageLoadedF{tocloft}{%
19756 \renewcommand*\l@part[2]{%
19757 \ifnum \c@tocdepth >-2\relax
19758 \addpenalty{-\@highpenalty}%
19759 \addvspace{2.25em \@plus\p@}%
19760 \setlength\@tempdima{3em}%
19761 \begingroup
19762 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19763 \parfillskip -\@pnumwidth
19764 {\leavevmode
19765 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19766 \nobreak
19767 \global\@nobreaktrue
19768 \everypar{\global\@nobreakfalse\everypar{}}%
19769 \endgroup
19770 \fi}
19771 \renewcommand*\l@chapter[2]{%
19772 \ifnum \c@tocdepth >\m@ne
19773 \addpenalty{-\@highpenalty}%
19774 \vskip 1.0em \@plus\p@

```



```

19775 \setlength\@tempdima{1.5em}%
19776 \begingroup
19777 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19778 \parfillskip -\@pnumwidth
19779 \leavevmode \bfseries
19780 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19781 \hskip -\if@RTL\rightskip\else\leftskip\fi
19782 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19783 \penalty\@highpenalty
19784 \endgroup
19785 \fi}
19786 }
19787 \renewcommand\left@footnoterule{%
19788 \kern-3\p@
19789 \hrule\@width.4\columnwidth
19790 \kern2.6\p@}
19791 \renewcommand\right@footnoterule{%
19792 \kern-3\p@
19793 \nointerlineskip
19794 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19795 \kern2.6\p@}
19796 \renewcommand\theequation
19797 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19798 \renewcommand \thefigure
19799 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19800 \renewcommand \thetable
19801 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19802 \renewcommand \thechapter {\@arabic\c@chapter}
19803 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19804 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19805 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
19806 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19807 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19808 \def\@makechapterhead#1{%
19809 \vspace*{50\p@}%
19810 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19811 \ifnum \c@secnumdepth >\m@ne
19812 \huge\bfseries \@chapapp\space \thechapter
19813 \par\nobreak
19814 \vskip 20\p@
19815 \fi
19816 \interlinepenalty\@M
19817 \Huge \bfseries #1\par\nobreak
19818 \vskip 40\p@
19819 }}
19820 \def\@makeschapterhead#1{%
19821 \vspace*{50\p@}%
19822 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
19823 \normalfont
19824 \interlinepenalty\@M
19825 \Huge \bfseries #1\par\nobreak
19826 \vskip 40\p@
19827 }}
19828 \IfPackageLoadedF{natbib}{%

```



```

19829 \renewenvironment{thebibliography}[1]
19830     {\chapter*{\bibname}%
19831      \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19832      \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19833      \bidi@thebibliography@font@hook%
19834      \list{\@biblabel{\@arabic\c@enumiv}}%
19835          {\settoheight\labelwidth{\@biblabel{#1}}%
19836           \leftmargin\labelwidth
19837           \advance\leftmargin\labelsep
19838           \@openbib@code
19839           \usecounter{enumiv}%
19840           \let\p@enumiv\@empty
19841           \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19842      \sloppy
19843      \clubpenalty4000
19844      \@clubpenalty \clubpenalty
19845      \widowpenalty4000%
19846      \sfcode`. \. \@m}
19847  {\def\@noitemerr
19848   {\@latex@warning{Empty `thebibliography' environment}}%
19849   \endlist}
19850 }

```

141 File rotating-xetex-bidi.def

```

19851 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
19852 \def\end@rotfloat{%
19853   \end{minipage}\end{lrbox}%
19854   \stepcounter{r@tfl@t}%
19855   \rot@label{RF\ther@tfl@t}%
19856   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19857   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19858   \rot@mess@toks\expandafter{\@tempa}
19859   \wd\rot@float@box\z@
19860   \ht\rot@float@box\z@
19861   \dp\rot@float@box\z@
19862   \vboxL to \textheight{%
19863     \setkeys{Grot}{units=360}%
19864     \if@rot@twoside
19865     \else
19866       \let\R@@page\rot@LR
19867     \fi
19868     \ifthenelse{\isodd{\R@@page}}{%
19869       \if@rot@twoside
19870         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19871       \fi
19872       \vfill
19873       \@@line{%
19874         \hskip\rotFPtop
19875         \rotatebox{90}{\box\rot@float@box}%
19876         \hskip\rotFPbot
19877       }%
19878     }%
19879     \if@rot@twoside

```



```

19880     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19881     \fi
19882     \@@line{%
19883         \hskip\rotFPbot
19884         \rotatebox{-90}{\box\rot@float@box}%
19885         \hskip\rotFPtop
19886     }%
19887     \vfill
19888 }%
19889 \rot@message{\the\rot@mess@toks}
19890 }%
19891 \end@float
19892 }
19893 \let\endsidewaysfigure\end@rotfloat
19894 \let\endsidewaystable\end@rotfloat
19895 \def\end@rotdblfloat{%
19896     \end{minipage}\end{lrbox}%
19897     \stepcounter{r@tfl@t}%
19898     \rot@label{RF\ther@tfl@t}%
19899     \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19900     \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19901     \rot@mess@toks\expandafter{\@tempa}
19902     \@tempdima\ht\rot@float@box
19903     \advance\@tempdima by \dp\rot@float@box
19904     \wd\rot@float@box\z@
19905     \ht\rot@float@box\z@
19906     \dp\rot@float@box\z@
19907     \vboxL to \textheight{%
19908         \setkeys{Grot}{units=360}%
19909         \if@rot@twoside
19910         \else
19911             \let\R@@page\rot@LR
19912         \fi
19913         \ifthenelse{\isodd{\R@@page}}{%
19914             \ifrot@messages
19915             \if@rot@twoside
19916 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19917 \fi
19918         \fi
19919         \vfill
19920         \@@line{%
19921             \hskip\rotFPtop
19922             \rotatebox{90}{\box\rot@float@box}%
19923             \hskip\rotFPbot
19924         }%
19925     }%
19926     \ifrot@messages
19927     \if@rot@twoside
19928 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19929 \fi
19930     \fi%
19931     \@@line{%
19932         \hskip\rotFPbot
19933         \rotatebox{-90}{\box\rot@float@box}%

```



```

19934     \hskip\rotFPtop
19935     }%
19936     \vfill
19937     }%
19938     \rot@message{\the\rot@mess@toks}%
19939     }%
19940     \end@dblfloat
19941 }
19942 \def\turn#1{%
19943   \Grot@setangle{#1}%
19944   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19945 \def\endturn{%
19946   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19947   \unskip\color@endbox
19948   \Grot@x\z@
19949   \Grot@y\z@
19950   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19951 }
19952 \def\rotate#1{%
19953   \Grot@setangle{#1}%
19954   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19955 \def\endrotate{%
19956   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19957   \unskip\color@endbox
19958   \Grot@x\z@
19959   \Grot@y\z@
19960   \wd0\z@\dp0\z@\ht0\z@
19961   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19962 }
19963 \def\turnbox#1#2{%
19964   \Grot@setangle{#1}%
19965   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR
19966   \Grot@x\z@\Grot@y\z@
19967   \wd0\z@\dp0\z@\ht0\z@
19968   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19969 }
19970 \def\sideways{%
19971   \Grot@setangle{90}%
19972   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19973 \def\endsideways{%
19974   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19975   \unskip\color@endbox
19976   \Grot@x\z@
19977   \Grot@y\z@
19978   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19979 }

```

142 File `scrartcl-xetex-bidi.def`

```

19980 \ProvidesFile{scrartcl-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrartcl class
19981 \newcommand{\scr@saved@LTRfootnotetext}{}
19982 \newcommand{\scr@saved@RTLfootnotetext}{}
19983 \let\scr@saved@footnotetext\@footnotetext
19984 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext

```



```

19985 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
19986 \renewcommand{\@footnotetext}[1]{%
19987   \scr@saved@footnotetext{#1}%
19988   \csname FN@mf@prepare\endcsname
19989 }
19990 \renewcommand{\@LTRfootnotetext}[1]{%
19991   \scr@saved@LTRfootnotetext{#1}%
19992   \csname FN@mf@prepare\endcsname
19993 }
19994 \renewcommand{\@RTLfootnotetext}[1]{%
19995   \scr@saved@RTLfootnotetext{#1}%
19996   \csname FN@mf@prepare\endcsname
19997 }
19998 \renewcommand\deffootnote[4][ ]{%
19999   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20000   \long\def\@makefnmark##1{%
20001     \ExecuteDoHook{footnote/text/begin}%
20002     \raggedfootnote
20003     \if@RTL
20004       \rightskip
20005     \else
20006       \leftskip
20007     \fi
20008     #2
20009     \l@addto@macro\@trivlist{%
20010       \ifnum\@listdepth=\@ne
20011         \if@RTL
20012           \advance\rightmargin #2\relax
20013         \else
20014           \advance\leftmargin #2\relax
20015         \fi
20016       \fi
20017     }%
20018     \parindent #3\noindent
20019     \IfArgIsEmpty{#1}{-}{%
20020       \hskip \dimexpr #1-#2\relax
20021     }%
20022     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20023     \ExecuteDoHook{footnote/text/end}%
20024   }%
20025   \else
20026     \ClassInfo{\KOMAClassName}{%
20027       Using old \string\@makefnmark\space due to compatibility
20028       level\MessageBreak
20029       less than 3.22}%
20030   \long\def\@makefnmark##1{%
20031     \setlength{\@tempdimc}{#3}%
20032     \def\@tempa{#1}\ifx\@tempa\@empty
20033       \setpar{\@par
20034         \@tempdima = \hspace
20035         \addtolength{\@tempdima}{-#2}%
20036       \if@RTL
20037         \parshape \@ne \z@ \@tempdima
20038       \else

```




```

20039         \parshape \@ne #2 \@tempdima
20040         \fi}%
20041     \else
20042         \addtolength{\@tempdimc}{#2}%
20043         \addtolength{\@tempdimc}{-#1}%
20044         \@setpar{\@par
20045         \@tempdima = \hsize
20046         \addtolength{\@tempdima}{-#1}%
20047         \@tempdimb = \hsize
20048         \addtolength{\@tempdimb}{-#2}%
20049         \if@RTL
20050             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20051         \else
20052             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20053         \fi
20054     }%
20055     \fi
20056     \par
20057     \parindent\@tempdimc\noindent
20058     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20059 }%
20060 \fi
20061 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20062 }
20063 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20064 \renewcommand*\left@footnoterule{%
20065     \normalsize\ftn@rule@test@values
20066     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20067     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20068     {\usekomafont{footnoterule}{%
20069         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20070     \kern 2.6\p@}
20071 \renewcommand*\right@footnoterule{%
20072     \normalsize\ftn@rule@test@values
20073     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20074     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20075     \nointerlineskip
20076     {\usekomafont{footnoterule}{%
20077         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
20078         \kern 2.6\p@}
20079 \renewcommand*\maketitle[1][1]{%
20080     \expandafter\ifnum \c@name scr@v@3.12\endcsname>\scr@compatibility\relax
20081     \else
20082         \def\and{%
20083             \end{tabular}%
20084             \hskip 1em \@plus.17fil%
20085             \begin{tabular}[t]{c}%
20086         }%
20087     \fi
20088     \if@titlepage
20089         \begin{titlepage}
20090             \setcounter{page}{%
20091                 #1%
20092             }%

```



```

20093 \if@titlepageiscoverpage
20094 \edef\titlepage@restore{%
20095 \noexpand\endgroup
20096 \noexpand\global\noexpand\@colht\the\@colht
20097 \noexpand\global\noexpand\@colroom\the\@colroom
20098 \noexpand\global\vsizethe\vsizethe
20099 \noexpand\global\noexpand\@titlepageiscoverpagefalse
20100 \noexpand\let\noexpand\titlepage@restore\noexpand\relax
20101 }%
20102 \begingroup
20103 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20104 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20105 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20106 \textwidth=\dimexpr
20107 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20108 \textheight=\dimexpr
20109 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20110 \headheight=0pt
20111 \headsep=0pt
20112 \footskip=\baselineskip
20113 \@colht=\textheight
20114 \@colroom=\textheight
20115 \vsizethe=\textheight
20116 \columnwidth=\textwidth
20117 \hsizethe=\columnwidth
20118 \linewidth=\hsizethe
20119 \else
20120 \let\titlepage@restore\relax
20121 \fi
20122 \let\footnotesize\small
20123 \let\right@footnoterule\relax
20124 \let\left@footnoterule\relax
20125 \let\textwidth@footnoterule\relax
20126 \let\footnote\thanks
20127 \let\LTRfootnote\LTRthanks
20128 \let\RTLfootnote\RTLthanks
20129 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20130 \let\@oldmakefnmark\@makefnmark
20131 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
20132 \ifx\@extratitle\@empty
20133 \ifx\@frontispiece\@empty
20134 \else
20135 \if@twoside\mbox{}\next@tpage\fi
20136 \noindent\@frontispiece\next@tdpage
20137 \fi
20138 \else
20139 \noindent\@extratitle
20140 \ifx\@frontispiece\@empty
20141 \else
20142 \next@tpage
20143 \noindent\@frontispiece
20144 \fi
20145 \next@tdpage
20146 \fi

```



```

20147 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20148 \ifx\@titlehead\@empty \else
20149   \begin{minipage}[t]{\textwidth}%
20150     \usekomafont{titlehead}{\@titlehead\par}%
20151   \end{minipage}\par
20152 \fi
20153 \null\vfill
20154 \begin{center}
20155   \ifx\@subject\@empty \else
20156     {\usekomafont{subject}{\@subject\par}}%
20157   \vskip 3em
20158   \fi
20159   {\usekomafont{title}{\huge \@title\par}}%
20160   \vskip 1em
20161   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20162   \vskip 2em
20163   {%
20164     \usekomafont{author}{%
20165       \lineskip 0.75em
20166       \begin{tabular}[t]{c}
20167         \@author
20168       \end{tabular}\par
20169     }%
20170   }%
20171   \vskip 1.5em
20172   {\usekomafont{date}{\@date \par}}%
20173   \vskip \z@ \@plus3fill
20174   {\usekomafont{publishers}{\@publishers \par}}%
20175   \vskip 3em
20176 \end{center}\par
20177 \@thanks\global\let\@thanks\@empty
20178 \vfill\null
20179 \if@twoside
20180   \@tempwatrue
20181   \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20182   \else
20183     \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20184       \@tempwafalse
20185     \fi\fi
20186   \fi
20187   \if@tempswa
20188     \next@tpage
20189     \begin{minipage}[t]{\textwidth}
20190       \@uppertitleback
20191     \end{minipage}\par
20192     \vfill
20193     \begin{minipage}[b]{\textwidth}
20194       \@lowertitleback
20195     \end{minipage}\par
20196     \@thanks\global\let\@thanks\@empty
20197   \fi
20198 \else
20199   \ifx\@uppertitleback\@empty\else
20200     \ClassWarning{\KOMAClassName}{%

```



```

20201         non empty \string\uppertitleback\space ignored
20202         by \string\maketitle\MessageBreak
20203         in `twoside=false' mode%
20204     }%
20205 \fi
20206 \ifx\@lowertitleback\@empty\else
20207     \ClassWarning{\KOMAClassName}{%
20208         non empty \string\lowertitleback\space ignored
20209         by \string\maketitle\MessageBreak
20210         in `twoside=false' mode%
20211     }%
20212 \fi
20213 \fi
20214 \ifx\@dedication\@empty
20215 \else
20216     \next@tdpage\null\vfill
20217     {\centering\usekomafont{dedication}{\@dedication \par}}%
20218     \vskip \z@ \@plus3fill
20219     \@thanks\global\let\@thanks\@empty
20220     \cleardoubleemptypage
20221 \fi
20222 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20223 \end{titlepage}
20224 \else
20225     \par
20226     \@tempcnta=%
20227     #1%
20228     \relax\ifnum\@tempcnta=1\else
20229         \ClassWarning{\KOMAClassName}{%
20230             Optional argument of \string\maketitle\space ignored\MessageBreak
20231             in `titlepage=false' mode%
20232         }%
20233     \fi
20234 \ifx\@uppertitleback\@empty\else
20235     \ClassWarning{\KOMAClassName}{%
20236         non empty \string\uppertitleback\space ignored
20237         by \string\maketitle\MessageBreak
20238         in `titlepage=false' mode%
20239     }%
20240 \fi
20241 \ifx\@lowertitleback\@empty\else
20242     \ClassWarning{\KOMAClassName}{%
20243         non empty \string\lowertitleback\space ignored
20244         by \string\maketitle\MessageBreak
20245         in `titlepage=false' mode%
20246     }%
20247 \fi
20248 \begingroup
20249     \let\titlepage@restore\relax
20250     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20251     \let\@oldmakefnmark\@makefnmark
20252     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20253     \next@tdpage
20254     \if@twocolumn

```



```

20255 \ifnum \col@number=\@ne
20256 \ifx\@extratitle\@empty
20257 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20258 \else
20259 \@makeextratitle
20260 \fi
20261 \ifx\@frontispiece\@empty
20262 \ifx\@extratitle\@empty\else\next@tdpage\fi
20263 \else
20264 \next@tpage
20265 \@makefrontispiece
20266 \next@tdpage
20267 \fi
20268 \@maketitle
20269 \else
20270 \ifx\@extratitle\@empty
20271 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20272 \else
20273 \twocolumn[\@makeextratitle]%
20274 \fi
20275 \ifx\@frontispiece\@empty
20276 \ifx\@extratitle\@empty\else\next@tdpage\fi
20277 \else
20278 \next@tpage
20279 \twocolumn[\@makefrontispiece]%
20280 \next@tdpage
20281 \fi
20282 \twocolumn[\@maketitle]%
20283 \fi
20284 \else
20285 \ifx\@extratitle\@empty
20286 \ifx\@frontispiece\@empty\else \mbox{}\fi
20287 \else
20288 \@makeextratitle
20289 \fi
20290 \ifx\@frontispiece\@empty
20291 \ifx\@extratitle\@empty\else\next@tdpage\fi
20292 \else
20293 \next@tpage
20294 \@makefrontispiece
20295 \next@tdpage
20296 \fi
20297 \@maketitle
20298 \fi
20299 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20300 \@thanks\global\let\@thanks\@empty
20301 \endgroup
20302 \fi
20303 \setcounter{footnote}{0}%
20304 \expandafter\ifnum \c@name scr@v3.12\endcsname>\scr@compatibility\relax
20305 \let\thanks\relax
20306 \let\LTRthanks\relax
20307 \let\RTLthanks\relax
20308 \let\maketitle\relax

```



```

20309 \let\@maketitle\relax
20310 \global\let\@thanks\@empty
20311 \global\let\@author\@empty
20312 \global\let\@date\@empty
20313 \global\let\@title\@empty
20314 \global\let\@subtitle\@empty
20315 \global\let\@extratitle\@empty
20316 \global\let\@frontispiece\@empty
20317 \global\let\@titlehead\@empty
20318 \global\let\@subject\@empty
20319 \global\let\@publishers\@empty
20320 \global\let\@uppertitleback\@empty
20321 \global\let\@lowertitleback\@empty
20322 \global\let\@dedication\@empty
20323 \global\let\author\relax
20324 \global\let\title\relax
20325 \global\let\extratitle\relax
20326 \global\let\titlehead\relax
20327 \global\let\subject\relax
20328 \global\let\publishers\relax
20329 \global\let\uppertitleback\relax
20330 \global\let\lowertitleback\relax
20331 \global\let\dedication\relax
20332 \global\let\date\relax
20333 \fi
20334 \global\let\and\relax
20335 }%
20336 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20337 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
20338 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
20339 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20340 \renewcommand*\thesubsubsection{%%
20341 \thesubsection\@SepMark\@arabic\c@subsubsection
20342 }
20343 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20344 \renewcommand*\thesubparagraph{%%
20345 \theparagraph\@SepMark\@arabic\c@subparagraph
20346 }
20347 \renewenvironment{thebibliography}[1]{%
20348 \if@bib@break@
20349 \bib@beginhook
20350 \else
20351 \bib@heading
20352 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
20353 \noindent\bibpreamble\par\nobreak
20354 \fi\fi
20355 \bib@beginhook
20356 \bib@before@hook
20357 \fi
20358 \renewcommand{\BreakBibliography}[1]{%
20359 \@bib@break
20360 \end{thebibliography}}%
20361 \begingroup ##1\endgroup
20362 \begin{thebibliography}{#1}

```



```

20363 }%
20364 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
20365 \bidi@thebibliography@font@hook%
20366 \list{%
20367   \@biblabel{\@arabic\c@enumiv}%
20368 }{%
20369   \settowidth\labelwidth{\@biblabel{#1}}%
20370   \leftmargin\labelwidth
20371   \advance\leftmargin\labelsep
20372   \@openbib@code
20373   \if@bib@break@
20374     \edef\@tempa{%
20375       \noexpand\usecounter{enumiv}%
20376       \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20377     }\@tempa
20378     \@no@bib@break
20379   \else
20380     \usecounter{enumiv}%
20381   \fi
20382   \let\p@enumiv\@empty
20383   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
20384 }%
20385 \sloppy\clubpenalty4000 \widowpenalty4000
20386 \sfcode\.\.=\@m
20387 }{%
20388   \if@bib@break@
20389     \def\@noitemerr{%
20390       \@latex@warning{%
20391         \string\BreakBibliography\space at begin of `thebibliography'
20392         environment\MessageBreak
20393         or following \string\BreakBibliography}%
20394       }%
20395     \else
20396       \def\@noitemerr{%
20397         \@latex@warning{%
20398           Empty `thebibliography' environment or
20399           \string\BreakBibliography\MessageBreak
20400           before end of `thebibliography' environment}%
20401         }%
20402       \fi
20403     \endlist
20404   \if@bib@break@
20405   \else
20406     \bib@after@hook
20407     \let\bib@before@hook\@empty
20408     \let\bib@after@hook\@empty
20409   \fi
20410   \bib@endhook
20411 }
20412 \renewcommand*\@raggeddictum{\ifRTL\raggedright\else\raggedleft\fi}
20413 \renewcommand*\@raggeddictumtext{\ifRTL\raggedleft\else\raggedright\fi}
20414 \renewcommand*\@raggeddictumauthor{\ifRTL\raggedright\else\raggedleft\fi}
20415 \renewcommand\marginline[1]{%
20416   \marginpar[\ifRTL\raggedright\else\raggedleft\fi{#1}]{\ifRTL\raggedleft\else\raggedright\fi}

```



```

20417 }
20418 \renewcommand{\@@makecaption}[3]{%
20419   \cap@margin
20420   \begingroup
20421     \ifonelinecaptions
20422       \def\stepcounter##1{\advance\value{##1}\@ne}%
20423       \let\refstepcounter\stepcounter
20424       \let\label\@gobble
20425       \let\@footnotetext=\@gobble
20426       \let\@LTRfootnotetext=\@gobble
20427       \let\@RTLfootnotetext=\@gobble
20428       \let\hypertarget\@gobbletwo
20429       \edef\xnewline{%
20430         \unexpanded{\ClassInfo{\KOMAClassName}}{%
20431           Workaround for not recommended usage of \string\\ or\MessageBreak
20432           \string\newline in caption text
20433         }%
20434         \hspace*{\linewidth}\hspace{1sp}%
20435       }%
20436       \unexpanded\expandafter{\xnewline}%
20437     }%
20438     \edef\@xcentercr{%
20439       \unexpanded{\ClassInfo{\KOMAClassName}}{%
20440         Workaround for not recommended usage of \string\\ or\MessageBreak
20441         \string\newline in caption text
20442       }%
20443       \hspace*{\linewidth}\hspace{1sp}%
20444     }%
20445     \unexpanded\expandafter{\@xcentercr}%
20446   }%
20447   \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20448   \ifdim\@tempdima>\cap@width
20449     \aftergroup\scr@makemultilinecaption
20450   \else
20451     \aftergroup\scr@makesinglelinecaption
20452   \fi
20453 \else
20454   \aftergroup\scr@makemultilinecaption
20455 \fi
20456 \endgroup
20457 {#1}{#2}{#3}%
20458 }
20459 \renewcommand{\scr@makesinglelinecaption}[3]{%
20460   {%
20461     \usefontofkomafont{caption}{%
20462       \hb@xt@\hsize{%
20463         \cap@left
20464         \if@RTL
20465           \beginR
20466         \fi
20467         \scr@makesinglelinecaption{#1}{#2}{#3}%
20468         \if@RTL
20469           \endR
20470         \fi

```




```

20471         \cap@right
20472     }\par\kern\dp\strutbox%
20473     }%
20474 }\kern-\dp\strutbox
20475 }
20476 \renewcommand{\@makecaption}[2]{%
20477     \if@captionabove
20478     \vskip\belowcaptionskip
20479     \else
20480     \vskip\abovecaptionskip
20481     \fi
20482     \@makecaption\@firstofone{#1}{#2}%
20483     \if@captionabove
20484     \vskip\abovecaptionskip
20485     \else
20486     \vskip\belowcaptionskip
20487     \fi
20488 }
20489
20490 \renewcommand{\scr@makesinglelinecaption}[3]{%
20491     {\usekomafont{caption}{\strut\ignorespaces
20492     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20493     \ignorespaces #3\unskip}}%
20494 }
20495
20496 \renewcommand{\scr@makemultilinecaption}[3]{%
20497     {%
20498     \usefontofkomafont{caption}{%
20499     \hb@xt@\hsize{%
20500     \cap@left
20501     \vbox{\hsize\cap@width\linewidth\hsize
20502     \scr@ifundefinedorrelax{@capttype}{%
20503     \ClassWarning{KOMAClassName}{%
20504     `string\caption' outside float.\MessageBreak
20505     Seems you are using `string\caption' outside a
20506     float.\MessageBreak
20507     Maybe you are using a package that uses
20508     `string\@makecaption'\MessageBreak
20509     without setting `string\@capttype' before.\MessageBreak
20510     Because I cannot detect the caption type, I'm using\MessageBreak
20511     the empty one.%
20512     }%
20513     \let\@capttype\@empty
20514     }}%
20515     \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
20516     \@nameuse{ragged\@capttype caption}%
20517     }%
20518     \ifdofullc@p
20519     \@hangfrom{%
20520     \strut
20521     \scr@smashdp{%
20522     #1{%
20523     \usekomafont{caption}{%
20524     \usekomafont{captionlabel}{#2\captionformat}%

```



```

20525         }%
20526     }%
20527 }%
20528 }%
20529     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20530 \else
20531     \ifdim\cap@indent<\z@
20532         \strut
20533         #1{%
20534             {\usekomafont{caption}{%
20535                 \usekomafont{captionlabel}{#2\captionformat}%
20536             }%
20537         }\par}%
20538     \noindent{{\usekomafont{caption}{%
20539         \hspace*{-\cap@indent}#3\scr@endstrut
20540     }}\par}%
20541 \else
20542     \if@capbreak
20543         \strut
20544         #1{%
20545             {\usekomafont{caption}{%
20546                 \usekomafont{captionlabel}{#2\captionformat}%
20547             }%
20548         }\par}%
20549     \noindent\@hangfrom{\hspace*{\cap@indent}}%
20550     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20551 \else
20552     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
20553     {%
20554         \hspace{-\cap@indent}%
20555         \scr@smashdp{%
20556             #1{\usekomafont{caption}{%
20557                 \usekomafont{captionlabel}{#2\captionformat}%
20558             }%
20559         }%
20560     }%
20561     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20562 }%
20563 \fi
20564 \fi
20565 \fi
20566 }%
20567 \cap@right
20568 }\par\kern\dp\strutbox
20569 }%
20570 }\kern-\dp\strutbox
20571 }
20572
20573 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20574     \if@komalongtable
20575         \renewcommand{\LT@makecaption}[3]{%
20576             \LT@mc1\LT@cols c{%
20577                 \hbox to\z@{\hss\parbox[t]\linewidth{%
20578                     \if@captionabove\else\vskip\belowcaptionskip\fi

```



```

20579         \@makecaption{#1}{#2}{#3}%
20580         \endgraf
20581         \if@captionabove\vskip\abovecaptionskip\fi
20582     }%
20583     \hss
20584 }%
20585 }%
20586 }%
20587 \renewcommand*{\scr@LT@array}{}%
20588 \let\scr@LT@array=\LT@array
20589 \renewcommand*{\LT@array}{}%
20590 \def\@capytype{table}%
20591 \@ifundefined{LTcapytype}{}{%
20592     \Ifstr{\LTcapytype}{}{}{\let\@capytype\LTcapytype}%
20593 }%
20594 \csname tobasic_if_caption_above:TF\endcsname
20595     {\@captionabovetrue}{\@captionabovefalse}%
20596 \def\captionabove{\noalign{\global\@captionabovetrue}%
20597     \LT@caption}%
20598 \def\captionbelow{\noalign{\global\@captionabovefalse}%
20599     \LT@caption}%
20600 \scr@LT@array
20601 }%
20602 \ClassInfo{\KOMAClassName}{%
20603     longtable captions redefined%
20604 }%
20605 \fi
20606 }
20607
20608 \CloneTOCEntryStyle{tocline}{part}
20609 \TOCEntryStyleStartInitCode{part}{%
20610     \expandafter\renewcommand%
20611     \csname scr@tso@#1@linefill\endcsname{\hfill}%
20612     \expandafter\renewcommand%
20613     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20614     \expandafter\renewcommand%
20615     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20616         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20617     \expandafter\renewcommand\expandafter*%
20618     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
20619 }
20620
20621 \CloneTOCEntryStyle{tocline}{section}
20622 \TOCEntryStyleStartInitCode{section}{%
20623     \expandafter\renewcommand%
20624     \csname scr@tso@#1@linefill\endcsname{%
20625         \if@sectionentrywithdots
20626             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
20627         \else
20628             \hfill
20629         \fi
20630     }%
20631     \expandafter\renewcommand%
20632     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%

```



```

20633 \expandafter\renewcommand%
20634 \csname scr@tso@#1@pagenumberformat\endcsname [1]{\usekomafont{sectionentry}{\usekomafont
20635 \expandafter\renewcommand\expandafter*%
20636 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
20637 }
20638
20639 \CloneTOCEntryStyle{tocline}{subsection}
20640 \TOCEntryStyleStartInitCode{subsection}{%
20641 \expandafter\renewcommand%
20642 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20643 \expandafter\renewcommand%
20644 \csname scr@tso@#1@pagenumberformat\endcsname [1]{%
20645 {\normalfont\normalcolor ##1}}%
20646 }
20647
20648 \CloneTOCEntryStyle{subsection}{default}
20649
20650 \DeclareSectionCommand[%
20651 style=section,%
20652 level=1,%
20653 indent=\z@,%
20654 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
20655 afterskip=2.3ex \@plus .2ex,%
20656 tocstyle=section,%
20657 tocindent=Opt,%
20658 tocnumwidth=1.5em%
20659 ]{section}
20660 \DeclareSectionCommand[%
20661 style=part,%
20662 level=\z@,%
20663 tocstyle=part,%
20664 toclevel=\m@ne,%
20665 tocindent=\z@,%
20666 tocnumwidth=2em%
20667 ]{part}
20668 \DeclareSectionCommand[%
20669 style=section,%
20670 level=2,%
20671 indent=\z@,%
20672 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
20673 afterskip=1.5ex \@plus .2ex,%
20674 tocstyle=subsection,%
20675 tocindent=1.5em,%
20676 tocnumwidth=2.3em%
20677 ]{subsection}
20678 \DeclareSectionCommand[%
20679 style=section,%
20680 level=3,%
20681 indent=\z@,%
20682 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
20683 afterskip=1.5ex \@plus .2ex,%
20684 tocstyle=subsection,%
20685 tocindent=3.8em,%
20686 tocnumwidth=3.2em%

```



```

20687 ]{subsubsection}
20688 \DeclareSectionCommand[%
20689   style=section,%
20690   level=4,%
20691   indent=\z@,%
20692   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
20693   afterskip=-1em,%
20694   tocstyle=subsection,%
20695   tocindentfollows=subsubsection,%
20696   tocindent=7.0em,%
20697   tocnumwidth=4.1em%
20698 ]{paragraph}
20699 \DeclareSectionCommand[%
20700   style=section,%
20701   level=5,%
20702   indent=\scr@parindent,%
20703   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
20704   afterskip=-1em,%
20705   tocstyle=subsection,%
20706   tocindent=10em,%
20707   tocnumwidth=5em%
20708 ]{subparagraph}

```

143 File scrbook-xetex-bidi.def

```

20709 \ProvidesFile{scrbook-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrbook class fo
20710 \newcommand{\scr@saved@LTRfootnotetext}{}
20711 \newcommand{\scr@saved@RTLfootnotetext}{}
20712 \let\scr@saved@footnotetext\@footnotetext
20713 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20714 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20715 \renewcommand{\@footnotetext}[1]{%
20716   \scr@saved@footnotetext{#1}%
20717   \csname FN@mf@prepare\endcsname
20718 }
20719 \renewcommand{\@LTRfootnotetext}[1]{%
20720   \scr@saved@LTRfootnotetext{#1}%
20721   \csname FN@mf@prepare\endcsname
20722 }
20723 \renewcommand{\@RTLfootnotetext}[1]{%
20724   \scr@saved@RTLfootnotetext{#1}%
20725   \csname FN@mf@prepare\endcsname
20726 }
20727 \renewcommand\deffootnote[4][1]{%
20728   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20729     \long\def\@makefntext##1{%
20730       \ExecuteDoHook{footnote/text/begin}%
20731       \raggedfootnote
20732       \if@RTL
20733         \rightskip
20734       \else
20735         \leftskip
20736       \fi
20737       #2

```



```

20738 \l@addto@macro\@trivlist{%
20739 \ifnum\@listdepth=\@ne\advance
20740 \if@RTL
20741 \rightmargin #2\relax
20742 \else
20743 \leftmargin #2\relax
20744 \fi
20745 \fi
20746 }%
20747 \parindent #3\noindent
20748 \IfArgIsEmpty{#1}{-}{%
20749 \hskip \dimexpr #1-#2\relax
20750 }%
20751 \ftn@font\hbox to \z@\hss\@makefnmark}##1%
20752 \ExecuteDoHook{footnote/text/end}%
20753 }%
20754 \else
20755 \ClassInfo{\KOMAClassName}{%
20756 Using old \string\@makefnmark\space due to compatibility
20757 level\MessageBreak
20758 less than 3.22}%
20759 \long\def\@makefnmark##1{%
20760 \setlength{\@tempdimc}{#3}%
20761 \def\@tempa{#1}\ifx\@tempa\@empty
20762 \setpar{\@par
20763 \@tempdima = \hspace
20764 \addtolength{\@tempdima}{-#2}%
20765 \if@RTL
20766 \parshape \@ne \z@ \@tempdima
20767 \else
20768 \parshape \@ne #2 \@tempdima
20769 \fi
20770 }%
20771 \else
20772 \addtolength{\@tempdimc}{#2}%
20773 \addtolength{\@tempdimc}{-#1}%
20774 \setpar{\@par
20775 \@tempdima = \hspace
20776 \addtolength{\@tempdima}{-#1}%
20777 \@tempdimb = \hspace
20778 \addtolength{\@tempdimb}{-#2}%
20779 \if@RTL
20780 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20781 \else
20782 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20783 \fi
20784 }%
20785 \fi
20786 \par
20787 \parindent\@tempdimc\noindent
20788 \ftn@font\hbox to \z@\hss\@makefnmark}##1%
20789 }%
20790 \fi
20791 \def\@makefnmark{\hbox{\ftn@font{#4}}}%

```



```

20792 }
20793 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20794 \renewcommand*\left@footnoterule{%
20795   \normalsize\ftn@rule@test@values
20796   \kern-\dimexpr 2.6\p+\ftn@rule@height\relax
20797   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20798   {\usekomafont{footnoterule}{%
20799     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20800   \kern 2.6\p@}
20801 \renewcommand*\right@footnoterule{%
20802   \normalsize\ftn@rule@test@values
20803   \kern-\dimexpr 2.6\p+\ftn@rule@height\relax
20804   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20805   \nointerlineskip
20806   {\usekomafont{footnoterule}{%
20807     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
20808     \kern 2.6\p@}
20809 \renewcommand*\maketitle[1][1]{%
20810   \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
20811   \else
20812     \def\and{%
20813       \end{tabular}%
20814       \hskip 1em \@plus.17fil%
20815       \begin{tabular}[t]{c}%
20816     }%
20817   \fi
20818   \if@titlepage
20819     \begin{titlepage}
20820       \setcounter{page}{%
20821         #1%
20822       }%
20823     \if@titlepageiscoverpage
20824       \edef\titlename@restore{%
20825         \noexpand\endgroup
20826         \noexpand\global\noexpand\@colht\the\@colht
20827         \noexpand\global\noexpand\@colroom\the\@colroom
20828         \noexpand\global\vsizethe\vsizethe
20829         \noexpand\global\noexpand\@titlepageiscoverpagefalse
20830         \noexpand\let\noexpand\titlename@restore\noexpand\relax
20831       }%
20832     \begin{group}
20833       \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20834       \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20835       \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20836       \textwidth=\dimexpr
20837       \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20838       \textheight=\dimexpr
20839       \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20840       \headheight=0pt
20841       \headsep=0pt
20842       \footskip=\baselineskip
20843       \@colht=\textheight
20844       \@colroom=\textheight
20845       \vsizethe\textheight

```



```

20846     \columnwidth=\textwidth
20847     \hsize=\columnwidth
20848     \linewidth=\hsize
20849 \else
20850     \let\titlepage@restore\relax
20851 \fi
20852 \let\footnotesize\small
20853 \let\right@footnoterule\relax
20854 \let\left@footnoterule\relax
20855 \let\textwidth@footnoterule\relax
20856 \let\footnote\thanks
20857 \let\LTRfootnote\LTRthanks
20858 \let\RTLfootnote\RTLthanks
20859 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20860 \let\oldmakefnmark\makefnmark
20861 \renewcommand*{\@makefnmark}{\rlap\oldmakefnmark}%
20862 \ifx\@extratitle\@empty
20863     \ifx\@frontispiece\@empty
20864     \else
20865         \if@twoside\mbox{}\next@tpage\fi
20866         \noindent\@frontispiece\next@tdpage
20867     \fi
20868 \else
20869     \noindent\@extratitle
20870     \ifx\@frontispiece\@empty
20871     \else
20872         \next@tpage
20873         \noindent\@frontispiece
20874     \fi
20875     \next@tdpage
20876 \fi
20877 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20878 \ifx\@titlehead\@empty \else
20879     \begin{minipage}[t]{\textwidth}%
20880     \usekomafont{titlehead}{\@titlehead\par}%
20881     \end{minipage}\par
20882 \fi
20883 \null\vfill
20884 \begin{center}
20885     \ifx\@subject\@empty \else
20886         {\usekomafont{subject}{\@subject\par}}%
20887         \vskip 3em
20888     \fi
20889     {\usekomafont{title}{\huge \@title\par}}%
20890     \vskip 1em
20891     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20892     \vskip 2em
20893     {%
20894         \usekomafont{author}{%
20895             \lineskip 0.75em
20896             \begin{tabular}[t]{c}
20897                 \@author
20898             \end{tabular}\par
20899         }%

```




```

20900     }%
20901     \vskip 1.5em
20902     {\usekomafont{date}{\@date \par}}%
20903     \vskip \z@ \@plus3fill
20904     {\usekomafont{publishers}{\@publishers \par}}%
20905     \vskip 3em
20906     \end{center}\par
20907     \@thanks\global\let\@thanks\@empty
20908     \vfill\null
20909     \if@twoside
20910         \@tempswatrue
20911         \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20912         \else
20913             \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20914                 \@tempswafalse
20915             \fi\fi
20916         \fi
20917         \if@tempswa
20918             \next@tpage
20919             \begin{minipage}[t]{\textwidth}
20920                 \@uppertitleback
20921             \end{minipage}\par
20922             \vfill
20923             \begin{minipage}[b]{\textwidth}
20924                 \@lowertitleback
20925             \end{minipage}\par
20926             \@thanks\global\let\@thanks\@empty
20927         \fi
20928     \else
20929         \ifx\@uppertitleback\@empty\else
20930             \ClassWarning{\KOMAClassName}{%
20931                 non empty \string\uppertitleback\space ignored
20932                 by \string\maketitle\MessageBreak
20933                 in `twoside=false' mode%
20934             }%
20935         \fi
20936         \ifx\@lowertitleback\@empty\else
20937             \ClassWarning{\KOMAClassName}{%
20938                 non empty \string\lowertitleback\space ignored
20939                 by \string\maketitle\MessageBreak
20940                 in `twoside=false' mode%
20941             }%
20942         \fi
20943     \fi
20944     \ifx\@dedication\@empty
20945     \else
20946         \next@tdpage\null\vfill
20947         {\centering\usekomafont{dedication}{\@dedication \par}}%
20948         \vskip \z@ \@plus3fill
20949         \@thanks\global\let\@thanks\@empty
20950         \cleardoubleemptypage
20951     \fi
20952     \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20953     \end{titlepage}

```



```

20954 \else
20955   \par
20956   \@tempcnta=
20957   #1%
20958   \relax\ifnum\@tempcnta=1\else
20959     \ClassWarning{\KOMAClassName}{%
20960       Optional argument of \string\maketitle\space ignored\MessageBreak
20961       in `titlepage=false' mode%
20962     }%
20963   \fi
20964   \ifx\@uppertitleback\@empty\else
20965     \ClassWarning{\KOMAClassName}{%
20966       non empty \string\uppertitleback\space ignored
20967       by \string\maketitle\MessageBreak
20968       in `titlepage=false' mode%
20969     }%
20970   \fi
20971   \ifx\@lowertitleback\@empty\else
20972     \ClassWarning{\KOMAClassName}{%
20973       non empty \string\lowertitleback\space ignored
20974       by \string\maketitle\MessageBreak
20975       in `titlepage=false' mode%
20976     }%
20977   \fi
20978   \begingroup
20979     \let\titlepage@restore\relax
20980     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20981     \let\@oldmakefnmark\@makefnmark
20982     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20983     \next@tdpage
20984     \if@twocolumn
20985       \ifnum \col@number=\@ne
20986         \ifx\@extratitle\@empty
20987           \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20988         \else
20989           \@makeextratitle
20990         \fi
20991         \ifx\@frontispiece\@empty
20992           \ifx\@extratitle\@empty\else\next@tdpage\fi
20993         \else
20994           \next@tpage
20995           \@makefrontispiece
20996           \next@tdpage
20997         \fi
20998         \@maketitle
20999       \else
21000         \ifx\@extratitle\@empty
21001           \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21002         \else
21003           \twocolumn[\@makeextratitle]%
21004         \fi
21005         \ifx\@frontispiece\@empty
21006           \ifx\@extratitle\@empty\else\next@tdpage\fi
21007         \else

```



```

21008         \next@tpage
21009         \twocolumn[\@makefrontispiece]%
21010         \next@tdpage
21011         \fi
21012         \twocolumn[\@maketitle]%
21013         \fi
21014     \else
21015         \ifx\@extratitle\@empty
21016         \ifx\@frontispiece\@empty\else \mbox{}\fi
21017     \else
21018         \@makeextratitle
21019         \fi
21020         \ifx\@frontispiece\@empty
21021         \ifx\@extratitle\@empty\else\next@tdpage\fi
21022     \else
21023         \next@tpage
21024         \@makefrontispiece
21025         \next@tdpage
21026     \fi
21027     \@maketitle
21028     \fi
21029     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21030     \@thanks\global\let\@thanks\@empty
21031 \endgroup
21032 \fi
21033 \setcounter{footnote}{0}%
21034 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21035     \let\thanks\relax
21036     \let\LTRthanks\relax
21037     \let\RTLthanks\relax
21038     \let\maketitle\relax
21039     \let\@maketitle\relax
21040     \global\let\@thanks\@empty
21041     \global\let\@author\@empty
21042     \global\let\@date\@empty
21043     \global\let\@title\@empty
21044     \global\let\@subtitle\@empty
21045     \global\let\@extratitle\@empty
21046     \global\let\@frontispiece\@empty
21047     \global\let\@titlehead\@empty
21048     \global\let\@subject\@empty
21049     \global\let\@publishers\@empty
21050     \global\let\@uppertitleback\@empty
21051     \global\let\@lowertitleback\@empty
21052     \global\let\@dedication\@empty
21053     \global\let\author\relax
21054     \global\let\title\relax
21055     \global\let\extratitle\relax
21056     \global\let\titlehead\relax
21057     \global\let\subject\relax
21058     \global\let\publishers\relax
21059     \global\let\uppertitleback\relax
21060     \global\let\lowertitleback\relax
21061     \global\let\dedication\relax

```



```

21062 \global\let\date\relax
21063 \fi
21064 \global\let\and\relax
21065 }%
21066 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21067 \renewcommand*\autodot{\if@altsecnumformat@SepMark\fi}
21068 \renewcommand*\thesection{%
21069 \expandafter\ifnum\scr@v@is>{2.97d}%
21070 \if@mainmatter\thechapter@SepMark\fi
21071 \else
21072 \thechapter@SepMark%
21073 \fi
21074 \@arabic@c@section
21075 }
21076 \renewcommand*\thesubsection{\thesection@SepMark@arabic@c@subsection}
21077 \renewcommand*\thesubsubsection{%
21078 \thesubsection@SepMark@arabic@c@subsubsection
21079 }
21080 \renewcommand*\theparagraph{\thesubsubsection@SepMark@arabic@c@paragraph}
21081 \renewcommand*\thesubparagraph{%
21082 \theparagraph@SepMark@arabic@c@subparagraph
21083 }
21084 \expandafter\ifnum\scr@v@is<=2.97d}%
21085 \renewcommand*\thefigure{\thechapter@SepMark@arabic@c@figure}
21086 \fi
21087 \expandafter\ifnum\scr@v@is<=2.97d}%
21088 \renewcommand*\thetable{\thechapter@SepMark@arabic@c@table}
21089 \fi
21090 \renewcommand*\theequation{%
21091 \expandafter\ifnum\scr@v@is>{2.97d}%
21092 \if@mainmatter\thechapter@SepMark\fi
21093 \else
21094 \thechapter@SepMark%
21095 \fi
21096 \@arabic@c@equation
21097 }
21098 \renewenvironment{thebibliography}[1]{%
21099 \if@bib@break@
21100 \bib@beginhook
21101 \else
21102 \ifx\bibpreamble\relax\else\ifx\bibpreamble@empty\else
21103 \setchapterpreamble{\bibpreamble}%
21104 \fi\fi
21105 \bib@heading
21106 \bib@beginhook
21107 \bib@before@hook
21108 \fi
21109 \renewcommand{\BreakBibliography}[1]{%
21110 \@bib@break
21111 \end{thebibliography}%
21112 \begingroup ##1\endgroup
21113 \begin{thebibliography}{#1}
21114 }%
21115 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi

```



```

21116 \bidi@thebibliography@font@hook%
21117 \list{%
21118   \@biblabel{\@arabic\c@enumiv}%
21119 }{%
21120   \settowidth\labelwidth{\@biblabel{#1}}%
21121   \leftmargin\labelwidth
21122   \advance\leftmargin\labelsep
21123   \@openbib@code
21124   \if@bib@break@
21125     \edef\@tempa{%
21126       \noexpand\usecounter{enumiv}%
21127       \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21128     }\@tempa
21129     \no@bib@break
21130   \else
21131     \usecounter{enumiv}%
21132   \fi
21133   \let\p@enumiv\@empty
21134   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21135 }%
21136 \sloppy\clubpenalty4000 \widowpenalty4000
21137 \sfcode`.=\@m
21138 }{%
21139   \if@bib@break@
21140     \def\@noitemerr{%
21141       \@latex@warning{%
21142         \string\BreakBibliography\space at begin of `thebibliography'
21143         environment\MessageBreak
21144         or following \string\BreakBibliography}%
21145       }%
21146     \else
21147       \def\@noitemerr{%
21148         \@latex@warning{%
21149           Empty `thebibliography' environment or
21150           \string\BreakBibliography\MessageBreak
21151           before end of `thebibliography' environment}%
21152         }%
21153       \fi
21154     \endlist
21155   \if@bib@break@
21156   \else
21157     \bib@after@hook
21158     \let\bib@before@hook\@empty
21159     \let\bib@after@hook\@empty
21160   \fi
21161   \bib@endhook
21162 }
21163 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21164 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21165 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21166 \renewcommand\marginline[1]{%
21167   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
21168 }
21169 \renewcommand{\@makecaption}[3]{%

```



```

21170 \cap@margin
21171 \begingroup
21172 \ifonelinecaptions
21173   \def\stepcounter##1{\advance\value{##1}\@ne}%
21174   \let\refstepcounter\stepcounter
21175   \let\label@gobble
21176   \let\@footnotetext=@gobble
21177   \let\@LTRfootnotetext=@gobble
21178   \let\@RTLfootnotetext=@gobble
21179   \let\hypertarget@gobbletwo
21180   \edef\xnewline{%
21181     \unexpanded{\ClassInfo{\KOMAClassName}{%
21182       Workaround for not recommended usage of \string\\ or\MessageBreak
21183       \string\newline in caption text
21184     }}%
21185     \hspace*{\linewidth}\hspace{1sp}%
21186   }%
21187   \unexpanded\expandafter{\xnewline}%
21188 }%
21189 \edef\xcentercr{%
21190   \unexpanded{\ClassInfo{\KOMAClassName}{%
21191     Workaround for not recommended usage of \string\\ or\MessageBreak
21192     \string\newline in caption text
21193   }}%
21194   \hspace*{\linewidth}\hspace{1sp}%
21195 }%
21196   \unexpanded\expandafter{\xcentercr}%
21197 }%
21198 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21199 \ifdim\@tempdima>\cap@width
21200   \aftergroup\scr@makemultilinecaption
21201 \else
21202   \aftergroup\scr@makesinglelinecaption
21203 \fi
21204 \else
21205   \aftergroup\scr@makemultilinecaption
21206 \fi
21207 \endgroup
21208 {#1}{#2}{#3}%
21209 }
21210 \renewcommand{\scr@makesinglelinecaption}[3]{%
21211   {%
21212     \usefontofkomafont{caption}{%
21213       \hb@xt@\hsize{%
21214         \cap@left
21215         \if@RTL
21216           \beginR
21217           \fi
21218         \scr@makesinglelinecaption{#1}{#2}{#3}%
21219         \if@RTL
21220           \endR
21221         \fi
21222         \cap@right
21223       }\par\kern\dp\strutbox%

```



```

21224 }%
21225 }\kern-\dp\strutbox
21226 }
21227 \renewcommand{\@makecaption}[2]{%
21228   \if@captionabove
21229     \vskip\belowcaptionskip
21230   \else
21231     \vskip\abovecaptionskip
21232   \fi
21233   \@makecaption\@firstofone{#1}{#2}%
21234   \if@captionabove
21235     \vskip\abovecaptionskip
21236   \else
21237     \vskip\belowcaptionskip
21238   \fi
21239 }
21240
21241 \renewcommand{\scr@makesinglelinecaption}[3]{%
21242   {\usekomafont{caption}{\strut\ignorespaces
21243     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21244   \ignorespaces #3\unskip}}%
21245 }
21246
21247 \renewcommand{\scr@makemultilinecaption}[3]{%
21248   {%
21249     \usefontofkomafont{caption}{%
21250       \hb@xt@\hsize{%
21251         \cap@left
21252         \vbox{\hsize\cap@width\linewidth\hsize
21253           \scr@ifundefinedorrelax{@capttype}{%
21254             \ClassWarning{KOMAClassName}{%
21255               `string\caption' outside float.\MessageBreak
21256               Seems you are using `string\caption' outside a
21257               float.\MessageBreak
21258               Maybe you are using a package that uses
21259               `string\@makecaption'\MessageBreak
21260               without setting `string\@capttype' before.\MessageBreak
21261               Because I cannot detect the caption type, I'm using\MessageBreak
21262               the empty one.%
21263             }%
21264             \let\@capttype\@empty
21265           }{%
21266             \scr@ifundefinedorrelax{ragged\@capttype}{\raggedcaption}{%
21267               \@nameuse{ragged\@capttype}{caption}%
21268             }%
21269           \ifdofullc@p
21270             \@hangfrom{%
21271               \strut
21272               \scr@smashdp{%
21273                 #1{%
21274                   \usekomafont{caption}{%
21275                     \usekomafont{captionlabel}{#2\captionformat}}%
21276                 }%
21277               }%

```



```

21278         }%
21279     }%
21280     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21281 \else
21282     \ifdim\cap@indent<\z@
21283         \strut
21284         #1{%
21285             {\usekomafont{caption}{%
21286                 \usekomafont{captionlabel}{#2\captionformat}%
21287             }%
21288         }\par}%
21289     \noindent{{\usekomafont{caption}{%
21290         \hspace*{-\cap@indent}#3\scr@endstrut
21291     }}\par}%
21292 \else
21293     \if@capbreak
21294         \strut
21295         #1{%
21296             {\usekomafont{caption}{%
21297                 \usekomafont{captionlabel}{#2\captionformat}%
21298             }
21299         }\par}%
21300     \noindent\@hangfrom{\hspace*{\cap@indent}}%
21301     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21302 \else
21303     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21304     {%
21305         \hspace{-\cap@indent}%
21306         \scr@smashdp{%
21307             #1{\usekomafont{caption}{%
21308                 \usekomafont{captionlabel}{#2\captionformat}%
21309             }%
21310         }%
21311     }%
21312     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21313 }%
21314 \fi
21315 \fi
21316 \fi
21317 }%
21318 \cap@right
21319 }\par\kern\dp\strutbox
21320 }%
21321 }\kern-\dp\strutbox
21322 }
21323
21324
21325 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21326     \if@komalongtable
21327         \renewcommand{\LT@makecaption}[3]{%
21328             \LT@mcol\LT@cols c{%
21329                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
21330                     \if@captionabove\else\vskip\belowcaptionskip\fi
21331                     \@makecaption{#1}{#2}{#3}%

```




```

21332         \endgraf
21333         \if@captionabove\vskip\abovecaptionskip\fi
21334     }%
21335     \hss
21336 }%
21337 }%
21338 }%
21339 \renewcommand*{\scr@LT@array}{}%
21340 \let\scr@LT@array=LT@array
21341 \renewcommand*{\LT@array}{%
21342     \def\@capttype{table}%
21343     \@ifundefined{LTcapttype}{}{%
21344         \Ifstr{LTcapttype}{}{\let\@capttype\LTcapttype}%
21345     }%
21346     \csname tocbasic_if_caption_above:TF\endcsname
21347         {\@captionabovetrue}{\@captionabovefalse}%
21348     \def\captionabove{\noalign{\global\@captionabovetrue}%
21349         \LT@caption}%
21350     \def\captionbelow{\noalign{\global\@captionabovefalse}%
21351         \LT@caption}%
21352     \scr@LT@array
21353 }%
21354 \ClassInfo{\KOMAClassName}{%
21355     longtable captions redefined%
21356 }%
21357 \fi
21358 }
21359
21360 \CloneTOCEntryStyle{tocline}{part}
21361 \TOCEntryStyleStartInitCode{part}{%
21362     \expandafter\renewcommand%
21363     \csname scr@tso@#1@linefill\endcsname{\hfill}%
21364     \expandafter\renewcommand%
21365     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21366     \expandafter\renewcommand%
21367     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21368         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21369     \expandafter\renewcommand\expandafter*%
21370     \csname scr@tso@#1@beforekip\endcsname{2.25em \@plus\p@}%
21371 }
21372
21373 \CloneTOCEntryStyle{tocline}{chapter}
21374 \TOCEntryStyleStartInitCode{chapter}{%
21375     \expandafter\renewcommand%
21376     \csname scr@tso@#1@linefill\endcsname{%
21377         \if@chapterentrywithdots
21378             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21379         \else
21380             \hfill
21381         \fi
21382     }%
21383     \expandafter\renewcommand%
21384     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21385     \expandafter\renewcommand%

```



```

21386 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21387   {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21388 \expandafter\renewcommand\expandafter*%
21389 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
21390 }
21391
21392 \CloneTOCEntryStyle{tocline}{section}
21393 \TOCEntryStyleStartInitCode{section}{%
21394   \expandafter\renewcommand%
21395   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21396   \expandafter\renewcommand%
21397   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21398     {\normalfont\normalcolor ##1}}%
21399 }
21400
21401 \CloneTOCEntryStyle{section}{default}
21402
21403 \DeclareSectionCommand[%
21404   style=chapter,%
21405   level=\z@,%
21406   pagestyle=plain,%
21407   tocstyle=chapter,%
21408   tocindent=\z@,%
21409   tocnumwidth=1.5em%
21410 ]{chapter}
21411 \DeclareSectionCommand[%
21412   style=section,%
21413   level=1,%
21414   indent=\z@,%
21415   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
21416   afterskip=2.3ex \@plus .2ex,%
21417   tocstyle=section,%
21418   tocindentfollows=chapter,%
21419   tocindent=1.5em,%
21420   tocnumwidth=2.3em%
21421 ]{section}
21422 \DeclareSectionCommand[%
21423   style=part,%
21424   level=\m@ne,%
21425   pagestyle=plain,%
21426   tocstyle=part,%
21427   toclevel=\m@ne,%
21428   tocindent=\z@,%
21429   tocnumwidth=2em%
21430 ]{part}
21431 \DeclareSectionCommand[%
21432   style=section,%
21433   level=2,%
21434   indent=\z@,%
21435   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21436   afterskip=1.5ex \@plus .2ex,%
21437   tocstyle=section,%
21438   tocindent=3.8em,%
21439   tocnumwidth=3.2em%

```



```

21440 ]{subsection}
21441 \DeclareSectionCommand[%
21442   style=section,%
21443   level=3,%
21444   indent=\z@,%
21445   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21446   afterskip=1.5ex \@plus .2ex,%
21447   tocstyle=section,%
21448   tocindent=7.0em,%
21449   tocnumwidth=4.1em%
21450 ]{subsubsection}
21451 \DeclareSectionCommand[%
21452   style=section,%
21453   level=4,%
21454   indent=\z@,%
21455   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
21456   afterskip=-1em,%
21457   tocindentfollows=subsubsection,%
21458   tocstyle=section,%
21459   tocindent=10em,%
21460   tocnumwidth=5em%
21461 ]{paragraph}
21462 \DeclareSectionCommand[%
21463   style=section,%
21464   level=5,%
21465   indent=\scr@parindent,%
21466   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
21467   afterskip=-1em,%
21468   tocstyle=section,%
21469   tocindent=12em,%
21470   tocnumwidth=6em%
21471 ]{subparagraph}

```

144 File `scrreprt-xetex-bidi.def`

```

21472 \ProvidesFile{scrreprt-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrreprt class
21473 \newcommand{\scr@saved@LTRfootnotetext}{}
21474 \newcommand{\scr@saved@RTLfootnotetext}{}
21475 \let\scr@saved@footnotetext\@footnotetext
21476 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21477 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21478 \renewcommand{\@footnotetext}[1]{%
21479   \scr@saved@footnotetext{#1}%
21480   \csname FN@mf@prepare\endcsname
21481 }
21482 \renewcommand{\@LTRfootnotetext}[1]{%
21483   \scr@saved@LTRfootnotetext{#1}%
21484   \csname FN@mf@prepare\endcsname
21485 }
21486 \renewcommand{\@RTLfootnotetext}[1]{%
21487   \scr@saved@RTLfootnotetext{#1}%
21488   \csname FN@mf@prepare\endcsname
21489 }
21490 \renewcommand\deffootnote[4][1]{%

```



```

21491 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21492 \long\def\@makefntext##1{%
21493   \ExecuteDoHook{footnote/text/begin}%
21494   \raggedfootnote
21495   \if@RTL
21496     \rightskip
21497   \else
21498     \leftskip
21499   \fi
21500   #2
21501   \l@addto@macro\@trivlist{%
21502     \ifnum\@listdepth=\@ne
21503       \if@RTL
21504         \advance\rightmargin #2\relax
21505       \else
21506         \advance\leftmargin #2\relax
21507       \fi
21508     \fi
21509   }%
21510   \parindent #3\noindent
21511   \IfArgIsEmpty{#1}{-}{%
21512     \hskip \dimexpr #1-#2\relax
21513   }%
21514   \ftn@font\hbox to \z@\{\hss\@makefnmark}##1%
21515   \ExecuteDoHook{footnote/text/end}%
21516 }%
21517 \else
21518   \ClassInfo{\KOMAClassName}{%
21519     Using old \string\@makefntext\space due to compatibility
21520     level\MessageBreak
21521     less than 3.22}%
21522   \long\def\@makefntext##1{%
21523     \setlength{\@tempdimc}{#3}%
21524     \def\@tempa{#1}\ifx\@tempa\@empty
21525       \@setpar{\@par
21526         \@tempdima = \hspace
21527         \addtolength{\@tempdima}{-#2}%
21528       \if@RTL
21529         \parshape \@ne \z@ \@tempdima
21530       \else
21531         \parshape \@ne #2 \@tempdima
21532       \fi
21533     }%
21534   \else
21535     \addtolength{\@tempdimc}{#2}%
21536     \addtolength{\@tempdimc}{-#1}%
21537     \@setpar{\@par
21538       \@tempdima = \hspace
21539       \addtolength{\@tempdima}{-#1}%
21540       \@tempdimb = \hspace
21541       \addtolength{\@tempdimb}{-#2}%
21542     \if@RTL
21543       \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21544     \else

```



```

21545         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21546         \fi
21547     }%
21548     \fi
21549     \par
21550     \parindent\@tempdimc\noindent
21551     \ftn@font\hbox to \z@\hss\@makefnmark}##1%
21552 }%
21553 \fi
21554 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21555 }
21556 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21557 \renewcommand*\left@footnoterule{%
21558     \normalsize\ftn@rule@test@values
21559     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21560     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21561     {\usekomafont{footnoterule}{%
21562         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21563     \kern 2.6\p@}
21564 \renewcommand*\right@footnoterule{%
21565     \normalsize\ftn@rule@test@values
21566     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21567     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21568     \nointerlineskip
21569     {\usekomafont{footnoterule}{%
21570         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode}
21571         \kern 2.6\p@}
21572 \renewcommand*\maketitle[1][1]{%
21573     \expandafter\ifnum \cscname scr@v@3.12\endcsname>\scr@compatibility\relax
21574     \else
21575         \def\and{%
21576             \end{tabular}%
21577             \hspace 1em \@plus.17fil%
21578             \begin{tabular}[t]{c}%
21579         }%
21580     \fi
21581     \if@titlepage
21582     \begin{titlepage}
21583     \setcounter{page}{%
21584         #1%
21585     }%
21586     \if@titlepageiscoverpage
21587     \edef\titlename@restore{%
21588         \noexpand\endgroup
21589         \noexpand\global\noexpand\@colht\the\@colht
21590         \noexpand\global\noexpand\@colroom\the\@colroom
21591         \noexpand\global\vsizethe\vsizethe
21592         \noexpand\global\noexpand\@titlepageiscoverpagefalse
21593         \noexpand\let\noexpand\titlename@restore\noexpand\relax
21594     }%
21595     \begin{group}
21596     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21597     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21598     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax

```



```

21599     \textwidth=\dimexpr
21600     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21601     \textheight=\dimexpr
21602     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21603     \headheight=0pt
21604     \headsep=0pt
21605     \footskip=\baselineskip
21606     \@colht=\textheight
21607     \@colroom=\textheight
21608     \vsize=\textheight
21609     \columnwidth=\textwidth
21610     \hsize=\columnwidth
21611     \linewidth=\hsize
21612   \else
21613     \let\titlepage@restore\relax
21614   \fi
21615   \let\footnotesize\small
21616   \let\right@footnoterule\relax
21617   \let\left@footnoterule\relax
21618   \let\textwidth@footnoterule\relax
21619   \let\footnote\thanks
21620   \let\LTRfootnote\LTRthanks
21621   \let\RTLfootnote\RTLthanks
21622   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21623   \let\@oldmakefnmark\@makefnmark
21624   \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21625   \ifx\@extratitle\@empty
21626     \ifx\@frontispiece\@empty
21627     \else
21628       \if@twoside\mbox{}\next@tpage\fi
21629       \noindent\@frontispiece\next@tdpage
21630     \fi
21631   \else
21632     \noindent\@extratitle
21633     \ifx\@frontispiece\@empty
21634     \else
21635       \next@tpage
21636       \noindent\@frontispiece
21637     \fi
21638     \next@tdpage
21639   \fi
21640   \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21641   \ifx\@titlehead\@empty \else
21642     \begin{minipage}[t]{\textwidth}%
21643       \usekomafont{titlehead}{\@titlehead\par}%
21644     \end{minipage}\par
21645   \fi
21646   \null\vfill
21647   \begin{center}
21648     \ifx\@subject\@empty \else
21649       {\usekomafont{subject}{\@subject\par}}%
21650       \vskip 3em
21651     \fi
21652     {\usekomafont{title}{\huge \@title\par}}%

```



```

21653     \vskip 1em
21654     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21655     \vskip 2em
21656     {%
21657         \usekomafont{author}{%
21658             \lineskip 0.75em
21659             \begin{tabular}[t]{c}
21660                 \@author
21661             \end{tabular}\par
21662         }%
21663     }%
21664     \vskip 1.5em
21665     {\usekomafont{date}{\@date \par}}%
21666     \vskip \z@ \@plus3fill
21667     {\usekomafont{publishers}{\@publishers \par}}%
21668     \vskip 3em
21669     \end{center}\par
21670     \@thanks\global\let\@thanks\@empty
21671     \vfill\null
21672     \if@twoside
21673         \@tempwatrue
21674         \expandafter\ifnum \@nameuse{scr@v3.12}>\scr@compatibility\relax
21675         \else
21676             \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21677                 \@tempwafalse
21678             \fi\fi
21679         \fi
21680         \if@tempswa
21681             \next@tpage
21682             \begin{minipage}[t]{\textwidth}
21683                 \@uppertitleback
21684             \end{minipage}\par
21685             \vfill
21686             \begin{minipage}[b]{\textwidth}
21687                 \@lowertitleback
21688             \end{minipage}\par
21689             \@thanks\global\let\@thanks\@empty
21690         \fi
21691     \else
21692         \ifx\@uppertitleback\@empty\else
21693             \ClassWarning{\KOMAClassName}{%
21694                 non empty \string\uppertitleback\space ignored
21695                 by \string\maketitle\MessageBreak
21696                 in `twoside=false' mode%
21697             }%
21698         \fi
21699         \ifx\@lowertitleback\@empty\else
21700             \ClassWarning{\KOMAClassName}{%
21701                 non empty \string\lowertitleback\space ignored
21702                 by \string\maketitle\MessageBreak
21703                 in `twoside=false' mode%
21704             }%
21705         \fi
21706     \fi

```



```

21707 \ifx\@dedication\@empty
21708 \else
21709 \next@tdpage\null\vfill
21710 {\centering\usekomafont{dedication}{\@dedication \par}}%
21711 \vskip \z@ \@plus3fill
21712 \@thanks\global\let\@thanks\@empty
21713 \cleardoubleemptypage
21714 \fi
21715 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21716 \end{titlepage}
21717 \else
21718 \par
21719 \@tempcnta=%
21720 #1%
21721 \relax\ifnum\@tempcnta=1\else
21722 \ClassWarning{\KOMAClassName}{%
21723 Optional argument of \string\maketitle\space ignored\MessageBreak
21724 in `titlepage=false' mode%
21725 }%
21726 \fi
21727 \ifx\@uppertitleback\@empty\else
21728 \ClassWarning{\KOMAClassName}{%
21729 non empty \string\uppertitleback\space ignored
21730 by \string\maketitle\MessageBreak
21731 in `titlepage=false' mode%
21732 }%
21733 \fi
21734 \ifx\@lowertitleback\@empty\else
21735 \ClassWarning{\KOMAClassName}{%
21736 non empty \string\lowertitleback\space ignored
21737 by \string\maketitle\MessageBreak
21738 in `titlepage=false' mode%
21739 }%
21740 \fi
21741 \begingroup
21742 \let\titlepage@restore\relax
21743 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21744 \let\@oldmakefnmark\@makefnmark
21745 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
21746 \next@tdpage
21747 \if@twocolumn
21748 \ifnum \col@number=\@ne
21749 \ifx\@extratitle\@empty
21750 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21751 \else
21752 \@makeextratitle
21753 \fi
21754 \ifx\@frontispiece\@empty
21755 \ifx\@extratitle\@empty\else\next@tdpage\fi
21756 \else
21757 \next@tpage
21758 \@makefrontispiece
21759 \next@tdpage
21760 \fi

```




```

21761         \@maketitle
21762     \else
21763         \ifx\@extratitle\@empty
21764             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21765         \else
21766             \twocolumn[\@makeextratitle]%
21767         \fi
21768         \ifx\@frontispiece\@empty
21769             \ifx\@extratitle\@empty\else\next@tdpage\fi
21770         \else
21771             \next@tpage
21772             \twocolumn[\@makefrontispiece]%
21773             \next@tdpage
21774         \fi
21775         \twocolumn[\@maketitle]%
21776     \fi
21777 \else
21778     \ifx\@extratitle\@empty
21779         \ifx\@frontispiece\@empty\else \mbox{}\fi
21780     \else
21781         \@makeextratitle
21782     \fi
21783     \ifx\@frontispiece\@empty
21784         \ifx\@extratitle\@empty\else\next@tdpage\fi
21785     \else
21786         \next@tpage
21787         \@makefrontispiece
21788         \next@tdpage
21789     \fi
21790     \@maketitle
21791 \fi
21792 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21793 \@thanks\global\let\@thanks\@empty
21794 \endgroup
21795 \fi
21796 \setcounter{footnote}{0}%
21797 \expandafter\ifnum \cscname scr@v03.12\endcscname>\scr@compatibility\relax
21798     \let\thanks\relax
21799     \let\LTRthanks\relax
21800     \let\RTLthanks\relax
21801     \let\maketitle\relax
21802     \let\@maketitle\relax
21803     \global\let\@thanks\@empty
21804     \global\let\@author\@empty
21805     \global\let\@date\@empty
21806     \global\let\@title\@empty
21807     \global\let\@subtitle\@empty
21808     \global\let\@extratitle\@empty
21809     \global\let\@frontispiece\@empty
21810     \global\let\@titlehead\@empty
21811     \global\let\@subject\@empty
21812     \global\let\@publishers\@empty
21813     \global\let\@uppertitleback\@empty
21814     \global\let\@lowertitleback\@empty

```



```

21815 \global\let\@dedication\@empty
21816 \global\let\author\relax
21817 \global\let\title\relax
21818 \global\let\extratitle\relax
21819 \global\let\titlehead\relax
21820 \global\let\subject\relax
21821 \global\let\publishers\relax
21822 \global\let\uppertitleback\relax
21823 \global\let\lowertitleback\relax
21824 \global\let\dedication\relax
21825 \global\let\date\relax
21826 \fi
21827 \global\let\and\relax
21828 }%
21829 \def\raggedsection{\ifRTL\raggedleft\else\raggedright\fi}
21830 \renewcommand*\autodot{\ifaltsecnumformat\@SepMark\fi}
21831 \renewcommand*\thesection{%
21832 \thechapter\@SepMark%
21833 \@arabic\c@section
21834 }
21835 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
21836 \renewcommand*\thesubsubsection{%
21837 \thesubsection\@SepMark\@arabic\c@subsubsection
21838 }
21839 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21840 \renewcommand*\thesubparagraph{%
21841 \theparagraph\@SepMark\@arabic\c@subparagraph
21842 }
21843 \expandafter\ifnum\scr@v@is@le{2.97d}%
21844 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21845 \fi
21846 \expandafter\ifnum\scr@v@is@le{2.97d}%
21847 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21848 \fi
21849 \renewcommand*\theequation{%
21850 \thechapter\@SepMark%
21851 \@arabic\c@equation
21852 }
21853 \renewenvironment{thebibliography}[1]{%
21854 \if@bib@break@
21855 \bib@beginhook
21856 \else
21857 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21858 \setchapterpreamble{\bibpreamble}%
21859 \fi\fi
21860 \bib@heading
21861 \bib@beginhook
21862 \bib@before@hook
21863 \fi
21864 \renewcommand{\BreakBibliography}[1]{%
21865 \@bib@break
21866 \end{thebibliography}%
21867 \begingroup ##1\endgroup
21868 \begin{thebibliography}{#1}

```



```

21869 }%
21870 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21871 \bidi@thebibliography@font@hook%
21872 \list{%
21873   \@biblabel{\@arabic\c@enumiv}%
21874 }{%
21875   \settowidth\labelwidth{\@biblabel{#1}}%
21876   \leftmargin\labelwidth
21877   \advance\leftmargin\labelsep
21878   \@openbib@code
21879   \if@bib@break@
21880     \edef\@tempa{%
21881       \noexpand\usecounter{enumiv}%
21882       \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21883     }\@tempa
21884     \@no@bib@break
21885   \else
21886     \usecounter{enumiv}%
21887   \fi
21888   \let\p@enumiv\@empty
21889   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21890 }%
21891 \sloppy\clubpenalty4000 \widowpenalty4000
21892 \sfcode\.\@m
21893 }{%
21894   \if@bib@break@
21895     \def\@noitemerr{%
21896       \@latex@warning{%
21897         \string\BreakBibliography\space at begin of `thebibliography'
21898         environment\MessageBreak
21899         or following \string\BreakBibliography}%
21900     }%
21901   \else
21902     \def\@noitemerr{%
21903       \@latex@warning{%
21904         Empty `thebibliography' environment or
21905         \string\BreakBibliography\MessageBreak
21906         before end of `thebibliography' environment}%
21907     }%
21908   \fi
21909   \endlist
21910   \if@bib@break@
21911   \else
21912     \bib@after@hook
21913     \let\bib@before@hook\@empty
21914     \let\bib@after@hook\@empty
21915   \fi
21916   \bib@endhook
21917 }
21918 \renewcommand*\@raggeddictum{\ifRTL\raggedright\else\raggedleft\fi}
21919 \renewcommand*\@raggeddictumtext{\ifRTL\raggedleft\else\raggedright\fi}
21920 \renewcommand*\@raggeddictumauthor{\ifRTL\raggedright\else\raggedleft\fi}
21921 \renewcommand\marginline[1]{%
21922   \marginpar[\ifRTL\raggedright\else\raggedleft\fi{#1}]{\ifRTL\raggedleft\else\raggedright\fi}

```



```

21923 }
21924 \renewcommand{\@@makecaption}[3]{%
21925   \cap@margin
21926   \begingroup
21927     \ifonelinecaptions
21928       \def\stepcounter##1{\advance\value{##1}\@ne}%
21929       \let\refstepcounter\stepcounter
21930       \let\label\@gobble
21931       \let\@footnotetext=\@gobble
21932       \let\@LTRfootnotetext=\@gobble
21933       \let\@RTLfootnotetext=\@gobble
21934       \let\hypertarget\@gobbletwo
21935       \edef\xnewline{%
21936         \unexpanded{\ClassInfo{\KOMAClassName}{%
21937           Workaround for not recommended usage of \string\\ or\MessageBreak
21938           \string\newline in caption text
21939         }}%
21940         \hspace*{\linewidth}\hspace{1sp}%
21941       }%
21942       \unexpanded\expandafter{\xnewline}%
21943     }%
21944     \edef\xcentercr{%
21945       \unexpanded{\ClassInfo{\KOMAClassName}{%
21946         Workaround for not recommended usage of \string\\ or\MessageBreak
21947         \string\newline in caption text
21948       }}%
21949       \hspace*{\linewidth}\hspace{1sp}%
21950     }%
21951     \unexpanded\expandafter{\xcentercr}%
21952   }%
21953   \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21954   \ifdim\@tempdima>\cap@width
21955     \aftergroup\scr@makemultilinecaption
21956   \else
21957     \aftergroup\scr@makesinglelinecaption
21958   \fi
21959   \else
21960     \aftergroup\scr@makemultilinecaption
21961   \fi
21962 \endgroup
21963 {#1}{#2}{#3}%
21964 }
21965 \renewcommand{\scr@makesinglelinecaption}[3]{%
21966   {%
21967     \usefontofkomafont{caption}{%
21968       \hb@xt@\hsize{%
21969         \cap@left
21970         \if@RTL
21971           \beginR
21972         \fi
21973         \scr@makesinglelinecaption{#1}{#2}{#3}%
21974         \if@RTL
21975           \endR
21976         \fi

```



```

21977         \cap@right
21978     }\par\kern\dp\strutbox%
21979     }%
21980 }\kern-\dp\strutbox
21981 }
21982 \renewcommand{\@makecaption}[2]{%
21983     \if@captionabove
21984         \vskip\belowcaptionskip
21985     \else
21986         \vskip\abovecaptionskip
21987     \fi
21988     \@makecaption\@firstofone{#1}{#2}%
21989     \if@captionabove
21990         \vskip\abovecaptionskip
21991     \else
21992         \vskip\belowcaptionskip
21993     \fi
21994 }
21995
21996 \renewcommand{\scr@makesinglelinecaption}[3]{%
21997     {\usekomafont{caption}\strut\ignorespaces
21998     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21999     \ignorespaces #3\unskip}}%
22000 }
22001
22002 \renewcommand{\scr@makemultilinecaption}[3]{%
22003     {%
22004         \usefontofkomafont{caption}{%
22005             \hb@xt@\hsize{%
22006                 \cap@left
22007                 \vbox{\hsize\cap@width\linewidth\hsize
22008                     \scr@ifundefinedorrelax{@capttype}{%
22009                         \ClassWarning{KOMAClassName}{%
22010                             `'\string\caption' outside float.\MessageBreak
22011                             Seems you are using `'\string\caption' outside a
22012                             float.\MessageBreak
22013                             Maybe you are using a package that uses
22014                             `'\string\@makecaption'\MessageBreak
22015                             without setting `'\string\@capttype' before.\MessageBreak
22016                             Because I cannot detect the caption type, I'm using\MessageBreak
22017                             the empty one.%
22018                         }%
22019                         \let\@capttype\@empty
22020                     }%
22021                     \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
22022                         \@nameuse{ragged\@capttype caption}%
22023                     }%
22024                     \ifdofullc@p
22025                         \@hangfrom{%
22026                             \strut
22027                             \scr@smashdp{%
22028                                 #1{%
22029                                     \usekomafont{caption}{%
22030                                         \usekomafont{captionlabel}{#2\captionformat}%

```



```

22031         }%
22032     }%
22033 }%
22034 }%
22035     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22036 \else
22037     \ifdim\cap@indent<\z@
22038         \strut
22039         #1{%
22040             {\usekomafont{caption}{%
22041                 \usekomafont{captionlabel}{#2\captionformat}%
22042             }}%
22043         }\par}%
22044     \noindent{{\usekomafont{caption}{%
22045         \hspace*{-\cap@indent}#3\scr@endstrut
22046     }}\par}%
22047 \else
22048     \if@capbreak
22049         \strut
22050         #1{%
22051             {\usekomafont{caption}{%
22052                 \usekomafont{captionlabel}{#2\captionformat}%
22053             }}%
22054         }\par}%
22055     \noindent\@hangfrom{\hspace*{\cap@indent}}%
22056     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22057 \else
22058     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22059     {%
22060         \hspace{-\cap@indent}%
22061         \scr@smashdp{%
22062             #1{\usekomafont{caption}{%
22063                 \usekomafont{captionlabel}{#2\captionformat}%
22064             }}%
22065         }%
22066     }%
22067     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22068 }%
22069     \fi
22070     \fi
22071     \fi
22072 }%
22073     \cap@right
22074 } \par \kern \dp \strutbox
22075 }%
22076 } \kern - \dp \strutbox
22077 }
22078
22079
22080 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22081     \if@komalongtable
22082         \renewcommand{\LT@makecaption}[3]{%
22083             \LT@mcol\LT@cols c{%
22084                 \hbox to\z@{\hss\parbox[t]\linewidth{%

```



```

22085         \if@captionabove\else\vskip\belowcaptionskip\fi
22086         \@makecaption{#1}{#2}{#3}%
22087         \endgraf
22088         \if@captionabove\vskip\abovecaptionskip\fi
22089     }%
22090     \hss
22091 }%
22092 }%
22093 }%
22094 \renewcommand*\scr@LT@array{}%
22095 \let\scr@LT@array=\LT@array
22096 \renewcommand*\LT@array{}%
22097 \def\@capttype{table}%
22098 \@ifundefined{LTcapttype}{}{%
22099     \Ifstr{LTcapttype}{}{\let\@capttype\LTcapttype}%
22100 }%
22101 \csname tocbasic_if_caption_above:TF\endcsname
22102     {\@captionabovetrue}{\@captionabovefalse}%
22103 \def\captionabove{\noalign{\global\@captionabovetrue}%
22104     \LT@caption}%
22105 \def\captionbelow{\noalign{\global\@captionabovefalse}%
22106     \LT@caption}%
22107 \scr@LT@array
22108 }%
22109 \ClassInfo{\KOMAClassName}{%
22110     longtable captions redefined%
22111 }%
22112 \fi
22113 }
22114
22115 \CloneTOCEntryStyle{tocline}{part}
22116 \TOCEntryStyleStartInitCode{part}{%
22117     \expandafter\renewcommand%
22118     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22119     \expandafter\renewcommand%
22120     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22121     \expandafter\renewcommand%
22122     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22123         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22124     \expandafter\renewcommand\expandafter*%
22125     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22126 }
22127
22128 \CloneTOCEntryStyle{tocline}{chapter}
22129 \TOCEntryStyleStartInitCode{chapter}{%
22130     \expandafter\renewcommand%
22131     \csname scr@tso@#1@linefill\endcsname{%
22132         \if@chapterentrywithdots
22133             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22134         \else
22135             \hfill
22136         \fi
22137     }%
22138     \expandafter\renewcommand%

```



```

22139 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22140 \expandafter\renewcommand%
22141 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22142   {\usekomafont{chapterentry}\usekomafont{chapterentrypagenumber}{##1}}}%
22143 \expandafter\renewcommand\expandafter*%
22144 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
22145 }
22146
22147 \CloneTOCEntryStyle{tocline}{section}
22148 \TOCEntryStyleStartInitCode{section}{%
22149   \expandafter\renewcommand%
22150   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22151   \expandafter\renewcommand%
22152   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22153     {\normalfont\normalcolor ##1}}%
22154 }
22155
22156 \CloneTOCEntryStyle{section}{default}
22157
22158 \DeclareSectionCommand[%
22159   style=chapter,%
22160   level=\z@,%
22161   pagestyle=plain,%
22162   tocstyle=chapter,%
22163   tocindent=\z@,%
22164   tocnumwidth=1.5em%
22165 ]{chapter}
22166 \DeclareSectionCommand[%
22167   style=section,%
22168   level=1,%
22169   indent=\z@,%
22170   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22171   afterskip=2.3ex \@plus .2ex,%
22172   tocstyle=section,%
22173   tocindentfollows=chapter,%
22174   tocindent=1.5em,%
22175   tocnumwidth=2.3em%
22176 ]{section}
22177 \DeclareSectionCommand[%
22178   style=part,%
22179   level=\m@ne,%
22180   pagestyle=plain,%
22181   tocstyle=part,%
22182   toclevel=\m@ne,%
22183   tocindent=\z@,%
22184   tocnumwidth=2em%
22185 ]{part}
22186 \DeclareSectionCommand[%
22187   style=section,%
22188   level=2,%
22189   indent=\z@,%
22190   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22191   afterskip=1.5ex \@plus .2ex,%
22192   tocstyle=section,%

```




```

22193   tocindent=3.8em,%
22194   tocnumwidth=3.2em%
22195 ]{subsection}
22196 \DeclareSectionCommand[%
22197   style=section,%
22198   level=3,%
22199   indent=\z@,%
22200   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22201   afterskip=1.5ex \@plus .2ex,%
22202   tocstyle=section,%
22203   tocindent=7.0em,%
22204   tocnumwidth=4.1em%
22205 ]{subsubsection}
22206 \DeclareSectionCommand[%
22207   style=section,%
22208   level=4,%
22209   indent=\z@,%
22210   beforekip=3.25ex \@plus1ex \@minus .2ex,%
22211   afterskip=-1em,%
22212   tocindentfollows=subsubsection,%
22213   tocstyle=section,%
22214   tocindent=10em,%
22215   tocnumwidth=5em%
22216 ]{paragraph}
22217 \DeclareSectionCommand[%
22218   style=section,%
22219   level=5,%
22220   indent=\scr@parindent,%
22221   beforekip=3.25ex \@plus1ex \@minus .2ex,%
22222   afterskip=-1em,%
22223   tocstyle=section,%
22224   tocindent=12em,%
22225   tocnumwidth=6em%
22226 ]{subparagraph}

```

145 File sidecap-xetex-bidi.def

```

22227 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package
22228 \RequirePackage{ragged2e}
22229 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
22230   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {#2}\hspace{\sidecaptionsep}{#1}\else%
22231   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {#1}\hspace{\sidecaptionsep}{#2}\fi}
22232 \renewcommand*{\SC@justify@caption}{\if@RTL%
22233 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
22234   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
22235
22236 \@ifpackagewith{sidecap}{innercaption}{%
22237 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
22238   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {#1}\hspace{\sidecaptionsep}{#2}}
22239 \renewcommand*{\SC@justify@caption}{%
22240   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
22241 \renewcommand*{\SC@FLOAT}[2]{%
22242   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {#2}\hspace{\sidecaptionsep}{#1}}
22243 \renewcommand*{\SC@justify@caption}{%

```



```

22244 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
22245 }{}
22246
22247 \@ifpackagewith{sidecap}{rightcaption}{%
22248 \ifRTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
22249 \def\SC@justify@caption{\RaggedLeft}\else%
22250 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
22251 \def\SC@justify@caption{\RaggedRight}\fi%
22252 }{}
22253
22254 \@ifpackagewith{sidecap}{leftcaption}{%
22255 \ifRTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
22256 \def\SC@justify@caption{\RaggedRight}\else%
22257 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
22258 \def\SC@justify@caption{\RaggedLeft}\fi%
22259 }{}

```

146 File soul-xetex-bidi.def

```

22260 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for Xe
22261 \long\def\SOUL@start#1{%
22262 \let\bidi@RTL@everypar\@empty
22263 \let\<\SOUL@lowerthan
22264 \let\>\@empty
22265 \def\soulomit{\noexpand\soulomit}%
22266 \gdef\SOUL@eventuallyxhyphen##1{%
22267 \let\SOUL@soeventuallyskip\relax
22268 \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
22269 \@minus\fontdimen4\font
22270 \SOUL@ignorespacesfalse
22271 \leavevmode
22272 \SOUL@preamble
22273 \SOUL@lasttoken={}%
22274 \SOUL@word={}%
22275 \SOUL@minus\z@
22276 \SOUL@comma\z@
22277 \SOUL@apo\z@
22278 \SOUL@grave\z@
22279 \SOUL@do{#1}%
22280 \SOUL@postamble
22281 }}
22282 \def\SOUL@ulunderline#1{%
22283 \setbox\z@\hbox{#1}%
22284 \dimen@=\wd\z@
22285 \dimen@i=\SOUL@uloverlap
22286 \advance\dimen@2\dimen@i
22287 \ifRTL
22288 \unhcopy\z@
22289 \llap{%
22290 \null
22291 \kern-\dimen@i
22292 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22293 }%
22294 \else

```



```

22295 \rlap{%
22296 \null
22297 \kern-\dimen@i
22298 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22299 }%
22300 \unhcopy\z@
22301 \fi
22302 }}
22303 \def\bidi@SOUL@ulleaders{%
22304 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\
22305 }
22306 \def\SOUL@uleveryospace#1{%
22307 \if@RTL
22308 #1%
22309 \bidi@SOUL@ulleaders
22310 \hskip\spaceskip
22311 \else
22312 \SOUL@ulcolor{%
22313 #1%
22314 \SOUL@ulleaders
22315 \hskip\spaceskip
22316 }%
22317 \fi
22318 \null
22319 }

```

147 File stabular-xetex-bidi.def

```

22320 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
22321 \def\@stabular{%
22322 \leavevmode \bgroup \if@RTLtab\beginR \fi
22323 \let\@acol\@tabacol
22324 \let\@classz\@tabclassz
22325 \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
22326 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
22327 \egroup \if@RTLtab\endR\fi\egroup}
22328 \expandafter \let \csname endstabular*\endcsname = \endstabular
22329 \def\@sarray[#1]#2{%
22330 \bgroup
22331 \setbox\@arstrutbox\hbox{%
22332 \vrule \@height\arraystretch\ht\strutbox
22333 \@depth\arraystretch \dp\strutbox
22334 \@width\z@}%
22335 \@mkpream{#2}%
22336 \edef\@preamble{%
22337 \ialign \noexpand\@halignto
22338 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
22339 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22340 \let\@tabularnewline\\%
22341 \let\@sharp##%
22342 \set@typeset@protect
22343 \lineskip\z@skip\baselineskip\z@skip
22344 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
22345 \@preamble}

```



148 File subfigure-xetex-bidi.def

```
22346 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure pack
22347 \AtBeginDocument{%
22348 \let\p@subfigure=\thefigure
22349 \let\p@subtable=\thetable%
22350 }
```

149 File tabs-xetex-bidi.def

```
22351 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for
22352 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
22353
22354 \expandafter\let\csname endtabular*\endcsname=\endtabular
22355
22356 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
22357   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
22358   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
22359
22360 \def\@array[#1]#2{% remember global variables to allow recursion:
22361   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
22362     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
22363   \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
22364   \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
22365   \else \let\@tarlinesep\tablinesep \fi
22366   \divide\@tarlinesep\tw@ % half sep is applied to height & depth
22367   \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
22368   \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
22369   \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
22370     \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@@size
22371     \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
22372     \fi \setbox\@arstrutbox\hbox{% set up smaller strut
22373       \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
22374     \let\protect\noexpand
22375     \edef\@preamble{\ialign \noexpand\@halignto \bgroup
22376       \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
22377     \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22378     \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
22379     \bgroup \let\par\empty
22380     \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
22381     \advance\extrarulesep.5\arrayrulewidth
22382     \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
22383     \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\vtop \else \vbox \fi\bgroup\fi
22384     \@preamble}
```

150 File tabularx-xetex-bidi.def

```
22385 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx packag
22386 \def\TX@endtabularx{%
22387   \expandafter\expandafter\expandafter
22388     \TX@find@endtabularxa\csname end\TX@\endcsname
22389     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
22390   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
22391   \let\verb\TX@verb
```



```

22392 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
22393 \edef\TX@ckpt{\cl@ckpt}%
22394 \let\@elt\relax
22395 \TX@old@table\maxdimen
22396 \TX@col@width\TX@target
22397 \global\TX@cols\@ne
22398 \TX@typeout@
22399 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
22400 \TX@trial{\def\NC@rewrite@X{%
22401     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
22402 \loop
22403     \TX@arith
22404     \ifTX@
22405     \TX@trial{}%
22406 \repeat
22407 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
22408     \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
22409     \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
22410     \csname tabular*\expandafter\endcsname\expandafter\TX@target
22411     \the\toks@
22412     \csname endtabular*\endcsname}%
22413 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
22414 \ifnum0=`{\fi}%
22415 \expandafter\expandafter\expandafter
22416 \TX@find@endtabularxbb
22417 \expandafter\end\expandafter{\TX@}%
22418 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
22419 }
22420
22421 \def\TX@trial#1{%
22422     \setbox\@tempboxa\hbox{%
22423         #1\relax
22424     \let\@footnotetext\TX@trial@ftn
22425     \let\@LTRfootnotetext\TX@trial@ftn
22426     \let\@RTLfootnotetext\TX@trial@ftn
22427     \let\TX@vwarn\@empty
22428     \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
22429     \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
22430     \def\write{\begingroup
22431         \def\let{\afterassignment\endgroup\toks@}%
22432         \afterassignment\let\count@}%
22433     \hbadness\@M
22434     \hfuzz\maxdimen
22435     \let\hbadness\@tempcnta
22436     \let\hfuzz\@tempdima
22437     \expandafter\tabular\the\toks@
22438     \endtabular}%
22439 \TX@ckpt
22440 \TX@typeout@{\@spaces
22441     \expandafter\TX@align
22442     \the\wd\@tempboxa\space\space\space\space\space\@@
22443     \expandafter\TX@align
22444     \the\TX@col@width\space\space\space\space\space\@@
22445     \@spaces\the\TX@cols}}

```




```

22494 \Gin@defaultbp\DEPTH{\dp#1}%
22495 \@tempdima\ht#1%
22496 \advance\@tempdima\dp#1%
22497 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
22498 \beginL\special{pdf:bcontent }%
22499 \special{%
22500     pdf:literal direct
22501     0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
22502 }%
22503 \special{pdf:literal direct W }%
22504 \special{pdf:literal direct n }%
22505 \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
22506 \special{pdf:econtent }\endL%
22507 }%
22508 }

```

153 File tcolorbox-xetex-bidi.def

```

22509 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox pack
22510 \let\endtcblrbox=\endminipage
22511 \let\endtcbsavebox=\endtcblrbox
22512
22513 \bidi@patchcmd{\tcb@vbox}{%
22514 \let\@footnotetext\@mpfootnotetext%
22515 }{%
22516 \let\@footnotetext\@mpfootnotetext%
22517 \let\@LTRfootnotetext\@mpLTRfootnotetext%
22518 \let\@RTLfootnotetext\@mpRTLfootnotetext%
22519 }-{}
22520
22521 \bidi@patchcmd{\endtcblrbox}{%
22522 \footnoterule%
22523 }{%
22524 \bidi@mpfootnoterule%
22525 }-{}
22526 \bidi@apptocmd\tcb@icolorbox{%
22527 \@bidi@list@minipage@parboxfalse
22528 }-{}

```

154 File thmbox-xetex-bidi.def

```

22529 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package fo
22530 \renewenvironment{thmbox}[2] []{%
22531 \parskip\z@%
22532 \setkeys{thmbox}{#1}%
22533 \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
22534 \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
22535 \string\thmbox, using M}%
22536 \let\thmbox@style=M%
22537 \fi\fi\fi%
22538 \thmbox@head{{#2}}\nobreak\relax%
22539 \thmbox@dim=\hsize%
22540 \advance\thmbox@dim-\leftskip%
22541 \advance\thmbox@dim-\rightskip%

```



```

22542 \setbox\thmbox@box=\vbox\bgroup%
22543 \if@RTL
22544 \@hboxRconstructtrue
22545 \fi
22546 \hsize=\thmbox@dim%
22547 \advance\hsize -\thmbox@leftmargin%
22548 \advance\hsize -\thmbox@rightmargin%
22549 \textwidth=\hsize%
22550 \linewidth=\hsize%
22551 \vskip\thmbox@vskip%
22552 \begingroup}\endgroup%
22553 \vskip\thmbox@vskip%
22554 \egroup%
22555 \thmbox@start%
22556 \ifx\thmbox@style S\else\thmbox@tail\fi%
22557 \@endparenv}

```

155 File titlesec-xetex-bidi.def

```

22558 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package]
22559 \renewcommand\filright{%
22560 \gdef\ttl@filleft##1{\hskip##1}%
22561 \gdef\ttl@filright##1{\hfill}%
22562 \let\\\@centercr
22563 \advance\rightskip\z@ \@plus 1fil
22564 \parfillskip\z@}
22565 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
22566 \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
22567 \setlength\leftskip{#6}%
22568 \setlength\rightskip{#7}%
22569 \interlinepenalty\@M
22570 \ttl@change@centercr
22571 \ttl@beginlongest
22572 #1{\ifhmode\ttl@hmode@error\fi
22573 \ttl@glcmds
22574 \parindent\z@
22575 \leavevmode
22576 \begingroup
22577 \ifttl@label
22578 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
22579 \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
22580 \llap{\box\z@}%
22581 \fi
22582 #4{#8}%
22583 \kern\z@\strut\@par
22584 \endgroup
22585 \nobreak\ttl@midlongest#5\@par}%
22586 \ttl@endlongest}

```

156 File titletoc-xetex-bidi.def

```

22587 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
22588 \renewcommand\filright{%
22589 \gdef\ttl@filleft##1{\hskip##1}%

```




```

22590 \gdef\ttl@filright##1{\hfill}%
22591 \let\\\@centercr
22592 \advance\rightskip\z@ \@plus 1fil
22593 \parfillskip\z@}
22594 \renewcommand\contentspush[1]{%
22595 \sbox\z@{#1}%
22596 \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
22597 \aftergroup\ttl@b
22598 \leavevmode\llap{\box\z@}}
22599 \def\ttl@outnoblock#1#2#3{%
22600 \begingroup
22601 \ifnum\ttl@b>\ttl@a
22602 \nobreak
22603 \else\ifnum\ttl@b<\ttl@a
22604 \addpenalty{\@secpenalty}%
22605 \else
22606 \addpenalty{\z@}%
22607 \fi\fi
22608 \ttl@contentsstretch
22609 \nobreak
22610 \ifcase#1\relax\else\interlinepenalty\M\fi
22611 \parindent\z@
22612 \ifx\@nil#2%
22613 \PackageError{titletoc}{Unimplemented}%
22614 {The optional argument is currently mandatory}%
22615 \else
22616 \if@RTL\setlength\rightskip{#2}\else
22617 \setlength\leftskip{#2}\fi%
22618 \fi
22619 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
22620 \let\contentsmargin\ttl@margin
22621 \def\ttl@makeline##1{##1}%
22622 #3%
22623 \addtolength{\parfillskip}{-\ttl@corr}%
22624 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
22625 \let\ttl@leaders\leaders}
22626 \renewcommand\ttl@margin[2][\z@]{%
22627 \def\ttl@corr{#1}%
22628 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
22629 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
22630 \def\@pnumwidth{#2}}
22631 \let\ttl@savel@part\l@part
22632 \def\l@part{\ttl@lselect{part}}
22633
22634 \let\ttl@savel@chapter\l@chapter
22635 \def\l@chapter{\ttl@lselect{chapter}}

```

157 File tocbibind-xetex-bidi.def

```

22636 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind pack
22637 \IfClassLoadedT{memoir}{\endinput}
22638 \if@dotocbib
22639 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
22640 \renewcommand{\bibsection}{\tcb@bchapsec}

```



```

22641 \renewenvironment{thebibliography}[1]{%
22642   \bibsection
22643   \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
22644 \renewenvironment{thebibitemlist}[1]{
22645   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22646   \bidi@thebibliography@font@hook%
22647   \list{\@biblabel{\@arabic\c@enumiv}}%
22648     {\settowidth\labelwidth{\@biblabel{#1}}%
22649     \leftmargin\labelwidth
22650     \advance\leftmargin\labelsep
22651     \@openbib@code
22652     \usecounter{enumiv}%
22653     \let\p@enumiv\@empty
22654     \renewcommand\theenumiv{\@arabic\c@enumiv}}%
22655   \sloppy
22656   \clubpenalty4000
22657   \@clubpenalty \clubpenalty
22658   \widowpenalty4000%
22659   \sfcode`.\@m}
22660 {\def\@noitemerr
22661   {\@latex@warning{Empty `thebibliography' environment}}%
22662   \endlist}
22663
22664 \ApplyPatchCodeToPackage{chapterbib}{%
22665   \ifpackagewith{chapterbib}{sectionbib}%
22666     {\renewcommand{\sectionbib}[2]{}}%
22667   }%
22668 }
22669
22670 \fi
22671 \if@inltxdoc\else
22672   \renewenvironment{theindex}%
22673     {\if@twocolumn
22674       \@restonecolfalse
22675       \else
22676         \@restonecoltrue
22677       \fi
22678     \if@bibchapter
22679       \if@donumindex
22680         \refstepcounter{chapter}
22681         \twocolumn[\vspace*{2\topskip}]%
22682         \@makechapterhead{\indexname}}%
22683         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
22684         \chaptermark{\indexname}
22685       \else
22686         \if@dotocind
22687           \twocolumn[\vspace*{2\topskip}]%
22688           \@makeschapterhead{\indexname}}%
22689           \prw@mkboth{\indexname}
22690           \addcontentsline{toc}{chapter}{\indexname}
22691         \else
22692           \twocolumn[\vspace*{2\topskip}]%
22693           \@makeschapterhead{\indexname}}%
22694         \prw@mkboth{\indexname}

```



```

22695         \fi
22696     \fi
22697 \else
22698     \if@donumindex
22699         \twocolumn[\vspace*{-1.5\topskip}%
22700             \@nameuse{\@tocextra}{\indexname}]%
22701         \csname \@tocextra mark\endcsname{\indexname}
22702     \else
22703         \if@dotocind
22704             \twocolumn[\vspace*{-1.5\topskip}%
22705                 \toc@headstar{\@tocextra}{\indexname}]%
22706             \prw@mkboth{\indexname}
22707             \addcontentsline{toc}{\@tocextra}{\indexname}
22708         \else
22709             \twocolumn[\vspace*{-1.5\topskip}%
22710                 \toc@headstar{\@tocextra}{\indexname}]%
22711             \prw@mkboth{\indexname}
22712         \fi
22713     \fi
22714 \fi
22715 \thispagestyle{plain}\parindent\z@
22716 \parskip\z@ \@plus .3\p@\relax
22717 \let\item\@idxitem}
22718 {\if@restonecol\onecolumn\else\clearpage\fi}
22719 \fi

```

158 File `tocloft-xetex-bidi.def`

```

22720 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package]
22721 \IfClassLoadedT{memoir}{\endinput}
22722 \renewcommand{\cftpnumalign}{\if@RTL l\else r\fi}
22723 \let\cftdot\@SepMark
22724 \if@cfthaspart
22725 \renewcommand*{\l@part}[2]{
22726     \@cftdopartfalse
22727     \ifnum \c@tocdepth >-2\relax
22728         \if@cfthaschapter
22729             \@cftdoparttrue
22730         \fi
22731         \ifnum \c@tocdepth >\m@ne
22732             \if@cfthaschapter\else
22733                 \@cftdoparttrue
22734             \fi
22735         \fi
22736     \fi
22737 \if@cftdopart
22738     \if@cfthaschapter
22739         \addpenalty{-\@highpenalty}
22740     \else
22741         \addpenalty\@secpenalty
22742     \fi
22743     \addvspace{\cftbeforepartskip}
22744     \begingroup
22745     {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax

```



```

22746     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22747     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22748     \parindent \cftpartindent\relax\@afterindenttrue
22749     \interlinepenalty\@M
22750     \leavevmode
22751     \@tempdima \cftpartnumwidth\relax
22752     \let\@cftbsnum \cftpartpresnum
22753     \let\@cftasnum \cftpartaftersnum
22754     \let\@cftasnumb \cftpartaftersnumb
22755     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22756     {\cftpartfont \cftpartpresnum #1}
22757     \cftpartfillnum{#2}}
22758     \nobreak
22759     \if@cfthaschapter
22760         \global\@nobreaktrue
22761         \everypar{\global\@nobreakfalse\everypar{}}
22762     \else
22763         \if@compatibility
22764             \global\@nobreaktrue
22765             \everypar{\global\@nobreakfalse\everypar{}}
22766         \fi
22767     \fi
22768     \endgroup
22769 \fi}
22770 \fi
22771 \if@cfthaschapter
22772 \renewcommand*{\l@chapter}[2]{
22773     \ifnum \c@tocdepth >\m@ne
22774         \addpenalty{-\@highpenalty}
22775         \vskip \cftbeforechapskip
22776         {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
22777         \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22778         \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22779         \parindent \cftchapindent\relax\@afterindenttrue
22780         \interlinepenalty\@M
22781         \leavevmode
22782         \@tempdima \cftchapnumwidth\relax
22783         \let\@cftbsnum \cftchappresnum
22784         \let\@cftasnum \cftchapaftersnum
22785         \let\@cftasnumb \cftchapaftersnumb
22786         \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22787         {\cftchapfont #1}\nobreak
22788         \cftchapfillnum{#2}}
22789     \fi}
22790 \fi
22791 \renewcommand*{\l@section}[2]{%
22792     \ifnum \c@tocdepth >\z@
22793         \if@cfthaschapter
22794             \vskip \cftbeforesecskip
22795         \else
22796             \addpenalty\@secpenalty
22797             \addvspace{\cftbeforesecskip}
22798         \fi
22799         {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax

```



```

22800 \ifRTL\leftskip\else\rightskip\fi \@tocrmarg
22801 \parfillskip -\ifRTL\leftskip\else\rightskip\fi
22802 \parindent \cftsecindent\relax\@afterindenttrue
22803 \interlinepenalty\@M
22804 \leavevmode
22805 \@tempdima \cftsecnumwidth\relax
22806 \let\@cftbsnum \cftsecpresnum
22807 \let\@cftasnum \cftsecaftersnum
22808 \let\@cftasnumb \cftsecaftersnumb
22809 \advance\ifRTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\ifRTL\right
22810 {\cftsecfont #1}\nobreak
22811 \cftsecfillnum{#2}}
22812 \fi}
22813 \renewcommand*\l@section}[2]{%
22814 \ifnum \c@tocdepth >\@ne
22815 \vskip \cftbeforesubsecskip
22816 {\ifRTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
22817 \ifRTL\leftskip\else\rightskip\fi \@tocrmarg
22818 \parfillskip -\ifRTL\leftskip\else\rightskip\fi
22819 \parindent \cftsubsecindent\relax\@afterindenttrue
22820 \interlinepenalty\@M
22821 \leavevmode
22822 \@tempdima \cftsubsecnumwidth\relax
22823 \let\@cftbsnum \cftsubsecpresnum
22824 \let\@cftasnum \cftsubsecaftersnum
22825 \let\@cftasnumb \cftsubsecaftersnumb
22826 \advance\ifRTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\ifRTL\right
22827 {\cftsubsecfont #1}\nobreak
22828 \cftsubsecfillnum{#2}}
22829 \fi}
22830 \renewcommand*\l@subsubsection}[2]{%
22831 \ifnum \c@tocdepth >\tw@
22832 \vskip \cftbeforesubsubsecskip
22833 {\ifRTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
22834 \ifRTL\leftskip\else\rightskip\fi \@tocrmarg
22835 \parfillskip -\ifRTL\leftskip\else\rightskip\fi
22836 \parindent \cftsubsubsecindent\relax\@afterindenttrue
22837 \interlinepenalty\@M
22838 \leavevmode
22839 \@tempdima \cftsubsubsecnumwidth\relax
22840 \let\@cftbsnum \cftsubsubsecpresnum
22841 \let\@cftasnum \cftsubsubsecaftersnum
22842 \let\@cftasnumb \cftsubsubsecaftersnumb
22843 \advance\ifRTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\ifRTL\right
22844 {\cftsubsubsecfont #1}\nobreak
22845 \cftsubsubsecfillnum{#2}}
22846 \fi}
22847 \renewcommand*\l@paragraph}[2]{%
22848 \ifnum \c@tocdepth >3\relax
22849 \vskip \cftbeforeparaskip
22850 {\ifRTL\rightskip\else\leftskip\fi \cftparindent\relax
22851 \ifRTL\leftskip\else\rightskip\fi \@tocrmarg
22852 \parfillskip -\ifRTL\leftskip\else\rightskip\fi
22853 \parindent \cftparindent\relax\@afterindenttrue

```



```

22854 \interlinepenalty\@M
22855 \leavevmode
22856 \@tempdima \cftparanumwidth\relax
22857 \let\@cftbsnum \cftparapresnum
22858 \let\@cftasnum \cftparaaftersnum
22859 \let\@cftasnumb \cftparaaftersnumb
22860 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22861 {\cftparafont #1}\nobreak
22862 \cftparafillnum{#2}}
22863 \fi}
22864 \renewcommand*\l@subparagraph}[2]{%
22865 \ifnum \c@tocdepth >4\relax
22866 \vskip \cftbeforesubparaskip
22867 {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
22868 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22869 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22870 \parindent \cftsubparaindent\relax\@afterindenttrue
22871 \interlinepenalty\@M
22872 \leavevmode
22873 \@tempdima \cftsubparanumwidth\relax
22874 \let\@cftbsnum \cftsubparapresnum
22875 \let\@cftasnum \cftsubparaaftersnum
22876 \let\@cftasnumb \cftsubparaaftersnumb
22877 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22878 {\cftsubparafont #1}\nobreak
22879 \cftsubparafillnum{#2}}
22880 \fi}
22881 \renewcommand*\l@figure}[2]{%
22882 \ifnum \c@lofdepth >\z@
22883 \vskip \cftbeforefigskip
22884 {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
22885 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22886 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22887 \parindent \cftfigindent\relax\@afterindenttrue
22888 \interlinepenalty\@M
22889 \leavevmode
22890 \@tempdima \cftfignumwidth\relax
22891 \let\@cftbsnum \cftfigpresnum
22892 \let\@cftasnum \cftfigaftersnum
22893 \let\@cftasnumb \cftfigaftersnumb
22894 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22895 {\cftfigfont #1}\nobreak
22896 \cftfigfillnum{#2}}
22897 \fi
22898 }
22899 \renewcommand*\l@table}[2]{%
22900 \ifnum\c@lotdepth >\z@
22901 \vskip \cftbeforetabskip
22902 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
22903 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22904 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22905 \parindent \cfttabindent\relax\@afterindenttrue
22906 \interlinepenalty\@M
22907 \leavevmode

```



```

22908 \@tempdima \cfttabnumwidth\relax
22909 \let\@cftbsnum \cfttabpresnum
22910 \let\@cftasnum \cfttabaftersnum
22911 \let\@cftasnumb \cfttabaftersnumb
22912 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22913 {\cfttabfont #1}\nobreak
22914 \cfttabfillnum{#2}}
22915 \fi
22916 }
22917 \renewcommand{\@cftl@subfig}{
22918 \renewcommand*{\l@subfigure}[2]{%
22919 \ifnum \c@lofdepth > \toclevel@subfigure
22920 \vskip \cftbeforesubfigskip
22921 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
22922 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22923 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22924 \parindent \cftsubfigindent\relax\@afterindenttrue
22925 \interlinepenalty\@M
22926 \leavevmode
22927 \@tempdima \cftsubfignumwidth\relax
22928 \let\@cftbsnum \cftsubfigpresnum
22929 \let\@cftasnum \cftsubfigaftersnum
22930 \let\@cftasnumb \cftsubfigaftersnumb
22931 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22932 {\cftsubfigfont ##1}\nobreak
22933 \cftsubfigfillnum{#2}}
22934 \fi
22935 }
22936 }
22937 \renewcommand{\@cftl@subtab}{
22938 \renewcommand*{\l@subtable}[2]{%
22939 \ifnum \c@lotdepth > \toclevel@subtable
22940 \vskip \cftbeforesubtabskip
22941 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
22942 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22943 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22944 \parindent \cftsubtabindent\relax\@afterindenttrue
22945 \interlinepenalty\@M
22946 \leavevmode
22947 \@tempdima \cftsubtabnumwidth\relax
22948 \let\@cftbsnum \cftsubtabpresnum
22949 \let\@cftasnum \cftsubtabaftersnum
22950 \let\@cftasnumb \cftsubtabaftersnumb
22951 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22952 {\cftsubtabfont ##1}\nobreak
22953 \cftsubtabfillnum{#2}}
22954 \fi
22955 }
22956 }
22957 \renewcommand{\newlistentry}[4][\@empty]{%
22958 \@ifundefined{c@#2}{% check & set the counter
22959 \ifx \@empty#1\relax
22960 \newcounter{#2}
22961 \else

```



```

22962     \@ifundefined{c@#1}{\PackageWarning{tocloft}%
22963         {#1 has no counter for use as a `within'}
22964         \newcounter{#2}}%
22965     {\newcounter{#2}[#1]%
22966     \expandafter\edef\csname the#2\endcsname{%
22967     \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
22968     \fi
22969     \setcounter{#2}{0}
22970 }
22971 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
22972
22973 \@namedef{l@#2}##1##2{%
22974     \ifnum \@nameuse{c@#3depth} > #4\relax
22975     \vskip \@nameuse{cftbefore#2skip}
22976     {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
22977     \if@RTL\leftskip\else\righskip\fi \@toctrmarg
22978     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22979     \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
22980     \interlinepenalty\@M
22981     \leavevmode
22982     \@tempdima \@nameuse{cft#2numwidth}\relax
22983     \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
22984     \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
22985     \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
22986     \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\ri
22987     {\@nameuse{cft#2font}##1}\nobreak
22988     \@nameuse{cft#2fillnum}{##2}}
22989     \fi
22990 } % end of l@#2
22991
22992 \expandafter\newlength\csname cftbefore#2skip\endcsname
22993 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
22994 \expandafter\newlength\csname cft#2indent\endcsname
22995 \expandafter\newlength\csname cft#2numwidth\endcsname
22996 \ifcase #4\relax % 0
22997     \setlength{\@nameuse{cft#2indent}}{0em}
22998     \setlength{\@nameuse{cft#2numwidth}}{1.5em}
22999 \or % 1
23000     \setlength{\@nameuse{cft#2indent}}{1.5em}
23001     \setlength{\@nameuse{cft#2numwidth}}{2.3em}
23002 \or % 2
23003     \setlength{\@nameuse{cft#2indent}}{3.8em}
23004     \setlength{\@nameuse{cft#2numwidth}}{3.2em}
23005 \or % 3
23006     \setlength{\@nameuse{cft#2indent}}{7.0em}
23007     \setlength{\@nameuse{cft#2numwidth}}{4.1em}
23008 \else % anything else
23009     \setlength{\@nameuse{cft#2indent}}{10.0em}
23010     \setlength{\@nameuse{cft#2numwidth}}{5.0em}
23011 \fi
23012 \@namedef{cft#2font}{\normalfont}
23013 \@namedef{cft#2presnum}{}
23014 \@namedef{cft#2aftersnum}{}
23015 \@namedef{cft#2aftersnumb}{}

```




```

23016 \@namedef{cft#2dotsep}{\cftdotsep}
23017 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
23018 \@namedef{cft#2pagefont}{\normalfont}
23019 \@namedef{cft#2afterpnum}{}
23020 \@namedef{toclevel@#2}{#4}
23021 \@namedef{cft#2fillnum}##1{%
23022     {\@nameuse{cft#2leader}}\nobreak
23023     \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
23024 } % end \newlistentry
23025 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
23026     {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
23027     \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
23028     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
23029     \textit{#1}\protect\par}}}

```

159 File tocbasic-xetex-bidi.def

```

23030 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
23031 \bidi@undef\scr@dte@def@l@undottedtocline
23032 \bidi@undef\scr@dte@undottedtocline@init
23033 \DeclareTOCEntryStyle{undottedtocline}[%
23034     \DefineTOCEntryLengthOption{indent}%
23035     {scr@tso@}{@indent}{entry indent}%
23036     \DefineTOCEntryLengthOption{numwidth}%
23037     {scr@tso@}{@numwidth}{entry number width}%
23038     \@ifundefined{#1tocdepth}{%
23039         \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23040             \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23041                 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23042                     \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23043                         \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23044                             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23045                                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23046                                     \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23047                                         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23048                                             \expandafter\let\csname #1tocdepth\expandafter\endcsname
23049                                                 \csname #1numdepth\endcsname
23050                                             }%
23051                                         }%
23052                                     }%
23053                                 }%
23054                             }%
23055                         }%
23056                     }%
23057                 }%
23058             }%
23059         }{%
23060             \@ifundefined{scr@tso@#1@indent}{%
23061                 \@ifundefined{scr@#1@tocindent}{%
23062                     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23063                         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23064                             \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23065                                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23066                                     \scr@ifundefinedorrelax{l@chapter}{%

```



```

23067 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23068 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23069 \Ifstr{#1}{subsubsection}{%
23070 \@namedef{scr@tso@#1@indent}{3.8em}%
23071 }{%
23072 \Ifstr{#1}{paragraph}{%
23073 \@namedef{scr@tso@#1@indent}{7em}%
23074 }{%
23075 \Ifstr{#1}{subparagraph}{%
23076 \@namedef{scr@tso@#1@indent}{10em}%
23077 }{%
23078 }%
23079 }%
23080 }%
23081 }%
23082 }%
23083 }{%
23084 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23085 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23086 \Ifstr{#1}{subsubsection}{%
23087 \@namedef{scr@tso@#1@indent}{7.0em}%
23088 }{%
23089 \Ifstr{#1}{paragraph}{%
23090 \@namedef{scr@tso@#1@indent}{10em}%
23091 }{%
23092 \Ifstr{#1}{subparagraph}{%
23093 \@namedef{scr@tso@#1@indent}{12em}%
23094 }{%
23095 }%
23096 }%
23097 }%
23098 }%
23099 }%
23100 }%
23101 }%
23102 }%
23103 }%
23104 }%
23105 }{%
23106 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23107 }%
23108 }{%
23109 \@ifundefined{scr@tso@#1@numwidth}{%
23110 \@ifundefined{scr@#1@tocnumwidth}{%
23111 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23112 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23113 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23114 \scr@ifundefinedorrelax{chapter}{%
23115 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23116 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23117 \Ifstr{#1}{subsubsection}{%
23118 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23119 }{%
23120 \Ifstr{#1}{paragraph}{%

```



```

23121         \@namedef{scr@tso@#1@numwidth}{4.1em}%
23122     }-%
23123     \Ifstr{#1}{subparagraph}{%
23124         \@namedef{scr@tso@#1@numwidth}{5em}%
23125     }-%
23126     }%
23127 }-%
23128 }%
23129 }%
23130 }%
23131 }-%
23132     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23133     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23134     \Ifstr{#1}{subsubsection}{%
23135         \@namedef{scr@tso@#1@numwidth}{3.1em}%
23136     }-%
23137     \Ifstr{#1}{paragraph}{%
23138         \@namedef{scr@tso@#1@numwidth}{5em}%
23139     }-%
23140     \Ifstr{#1}{subparagraph}{%
23141         \@namedef{scr@tso@#1@numwidth}{6em}%
23142     }-%
23143     }%
23144     }%
23145     }%
23146     }%
23147     }%
23148     }%
23149     }%
23150     }%
23151     }%
23152 }-%
23153     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23154     }%
23155 }-%
23156 }]{%
23157 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23158 \ifnum \@nameuse{#1tocdepth}<\@ne
23159     \scr@ifundefinedorrelax{chapter}{%
23160         \addpenalty\@secpenalty
23161         \addvspace{1.0em \@plus\p@}%
23162     }-%
23163     \addpenalty{-\@highpenalty}%
23164     \vskip 1.0em \@plus\p@
23165     }%
23166 \else
23167     \addpenalty\@secpenalty
23168     \addvspace{1.0em \@plus\p@}%
23169 \fi
23170 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
23171 \begingroup
23172     \parindent \z@ \bidi@rightskip \@pnumwidth
23173     \parfillskip -\@pnumwidth
23174     \leavevmode

```



```

23175     \bfseries
23176     \advance\bidileftskip\@tempdima
23177     \iftocfeature{\@currentx}{noindent}{%
23178         \hskip -\bidileftskip
23179     }{%
23180         \advance\bidileftskip\@nameuse{scr@tso@#1@indent}%
23181         \hskip -\dimexpr \bidileftskip-\@nameuse{scr@tso@#1@indent}\relax
23182     }%
23183     ##1%
23184     \nobreak
23185     \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23186     \par
23187     \penalty\@highpenalty
23188     \endgroup
23189     \fi
23190 }
23191
23192 \bidi@undef\scr@dte@def@l@largetocline
23193 \bidi@undef\scr@dte@largetocline@init
23194 \DeclareTOCEntryStyle{largetocline}{%
23195     \DefineTOCEntryLengthOption{indent}%
23196     {scr@tso@}{@indent}{entry indent}%
23197     \@ifundefined{#1tocdepth}{%
23198         \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23199             \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23200                 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23201                     \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23202                         \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23203                             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23204                                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23205                                     \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23206                                         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23207                                             \expandafter\let\csname #1tocdepth\expandafter\endcsname
23208                                                 \csname #1numdepth\endcsname
23209                                             }%
23210                                         }%
23211                                     }%
23212                                 }%
23213                             }%
23214                         }%
23215                     }%
23216                 }%
23217             }%
23218         }{%
23219             \@ifundefined{scr@tso@#1@indent}{%
23220                 \@ifundefined{scr@#1@tocindent}{%
23221                     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23222                         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23223                             \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23224                                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23225                                     \scr@ifundefinedorrelax{1@chapter}{%
23226                                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
23227                                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23228                                                 \Ifstr{#1}{subsubsection}{%

```



```

23229         \@namedef{scr@tso@#1@indent}{3.8em}%
23230     }{%
23231     \Ifstr{#1}{paragraph}{%
23232         \@namedef{scr@tso@#1@indent}{7em}%
23233     }{%
23234         \Ifstr{#1}{subparagraph}{%
23235             \@namedef{scr@tso@#1@indent}{10em}%
23236         }{%
23237             }%
23238         }%
23239     }%
23240 }%
23241 }%
23242 }{%
23243     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23244     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23245     \Ifstr{#1}{subsubsection}{%
23246         \@namedef{scr@tso@#1@indent}{7.0em}%
23247     }{%
23248     \Ifstr{#1}{paragraph}{%
23249         \@namedef{scr@tso@#1@indent}{10em}%
23250     }{%
23251     \Ifstr{#1}{subparagraph}{%
23252         \@namedef{scr@tso@#1@indent}{12em}%
23253     }{%
23254         }%
23255     }%
23256     }%
23257     }%
23258     }%
23259     }%
23260     }%
23261     }%
23262     }%
23263     }%
23264 }{%
23265     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23266 }%
23267 }{%
23268 }]{%
23269 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23270 \ifnum \@nameuse{#1tocdepth}<\@ne
23271     \scr@ifundefinedorrelax{chapter}{%
23272         \addpenalty\@secpenalty
23273         \addvspace{2.25em \@plus\p@}%
23274     }{%
23275         \addpenalty{-\@highpenalty}%
23276         \addvspace{2.25em \@plus\p@}%
23277     }%
23278 \else
23279     \addpenalty\@secpenalty
23280     \addvspace{2.25em \@plus\p@}%
23281 \fi
23282 \setlength\@tempdima{3em}%

```



```

23283 \beginngroup
23284 \parindent \z@ \bidi@rightskip \@pnumwidth
23285 \parfillskip -\@pnumwidth
23286 \leavevmode
23287 \large
23288 \bfseries
23289 \Iftocfeature{\@currentx}{noindent}{%
23290 }{%
23291 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23292 }%
23293 ##1%
23294 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23295 \par
23296 \nobreak
23297 \ifnum 0=
23298 \scr@ifundefinedorrelax{chapter}{\ifcompatibility 1\else 0\fi}{1}\relax
23299 \global\@nobreaktrue
23300 \everypar{\global\@nobreakfalse\everypar{}}%
23301 \fi
23302 \endgroup
23303 \fi
23304 }
23305
23306 \renewcommand*{\scr@dte@tocline}[3]{%
23307 \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
23308 \else
23309 \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
23310 \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
23311 \@nameuse{Ifscr@tso@#1@dynindent}{%
23312 \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\empty
23313 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
23314 \else
23315 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
23316 \@for \reserved@a:=\reserved@a\do {%
23317 \scr@trim@spaces\reserved@a
23318 \ifx\reserved@a\empty\else
23319 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
23320 }{%
23321 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
23322 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
23323 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
23324 \scr@ifundefinedorrelax
23325 {scr@dte@\reserved@a @lastmaxnumwidth}{%
23326 \advance\@tempdima
23327 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23328 }{%
23329 \advance\@tempdima
23330 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
23331 }%
23332 }{%
23333 \advance\@tempdima
23334 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23335 }%
23336 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax

```



```

23337             \expandafter\edef\csname scr@tso@#1@indent\endcsname
23338             {\the\@tempdima}%
23339             \fi
23340             \fi
23341             }%
23342             \fi
23343             }%
23344             \fi
23345             }-}%
23346             {%
23347             \Iftocfeature{\@currentx}{noindent}{%
23348             \bidi@leftskip \z@
23349             }-}%
23350             \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
23351             }%
23352             \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
23353             \parfillskip -\bidi@rightskip
23354             \@nameuse{Ifscr@tso@#1@raggedpage}{%
23355             \addtolength{\parfillskip}{\z@ \@plus 1fil}%
23356             }-}%
23357             \Iftocfeature{\@currentx}{noindent}{%
23358             \parindent \z@
23359             }-}%
23360             \parindent \@nameuse{scr@tso@#1@indent}\relax
23361             }%
23362             \@afterindenttrue
23363             \interlinepenalty\@M
23364             \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
23365             \addtolength\bidi@rightskip\@flushglue
23366             \else
23367             \def\reserved@a{\raggedright}%
23368             \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23369             \addtolength\bidi@rightskip\@flushglue
23370             \else
23371             \renewcommand\reserved@a{\raggedright}%
23372             \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23373             \addtolength\bidi@rightskip\@flushglue
23374             \fi
23375             \fi
23376             \fi
23377             \leavevmode
23378             \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
23379             \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
23380             \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{-}%
23381             \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
23382             \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
23383             \fi
23384             }%
23385             }-}%
23386             \advance\bidi@leftskip \@tempdima
23387             \null\nobreak\hskip -\bidi@leftskip
23388             {%
23389             \usetocbasicnumberline
23390             \let\scr@dte@numberline@box\numberline@box

```



```

23391 \def\numberline@box##1{%
23392 \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23393 \global\scr@dte@tocline@numberwidth
23394 \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
23395 \relax
23396 \ifdim \scr@dte@tocline@numberwidth
23397 >\@nameuse{scr@dte@#1@maxnumwidth}\relax
23398 \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
23399 \fi
23400 \@nameuse{Ifscr@tso@#1@dynnumwidth}{-}{%
23401 \ifdim \scr@dte@tocline@numberwidth
23402 >\dimexpr \@nameuse{scr@tso@#1@numwidth}}%
23403 +\@nameuse{scr@tso@#1@numsep}\relax\relax
23404 \PackageWarning{tocbasic}{%
23405 number width of #1 toc entries should be
23406 increased!\MessageBreak
23407 Currently used number width =
23408 \the\wd\scr@dte@tocline@numbox,\MessageBreak
23409 Wanted number separation
23410 \space\space\space =
23411 \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
23412 Reserved number width \space\space\space\space\space\space =
23413 \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
23414 }%
23415 \fi
23416 }%
23417 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23418 \@nameuse{Ifscr@tso@#1@breakafternumber}{-}{%
23419 {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
23420 }{-%
23421 }%
23422 {\@nameuse{scr@tso@#1@entryformat}{-}{%
23423 #2%
23424 \nobreak
23425 {%
23426 \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
23427 \nobreak
23428 \expandafter\let\expandafter\scr@dte@pagenumberwidth
23429 \csname scr@tso@#1@pagenumberwidth\endcsname
23430 \@nameuse{scr@tso@#1@pagenumberbox}{-}{%
23431 \@nameuse{scr@tso@#1@pagenumberformat}{#3}}%
23432 }%
23433 }%
23434 }}\@par
23435 }%
23436 }%
23437 \tocbasic@SetPenaltyByTOCLevel{#1}%
23438 \fi
23439 }
23440
23441
23442 \bidi@undef\scr@dte@def@l@tocline
23443 \bidi@undef\scr@dte@tocline@init
23444 \DeclareTOCEntryStyle{tocline}{-%

```




```

23445 \DefineTOCEntryLengthOption{beforeskip}%
23446   {scr@tso@}{@beforeskip}{vertical skip before the entry}%
23447 \DefineTOCEntryIfOption{breakafternumber}%
23448   {scr@tso@}{@breakafternumber}{line break after number flag}%
23449 \DefineTOCEntryIfOption{dynnumwidth}%
23450   {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
23451 \DefineTOCEntryListOption{indentfollows}%
23452   {scr@tso@}{@indentfollows}{list of levels that define the indent}%
23453 \DefineTOCEntryIfOption{dynindent}%
23454   {scr@tso@}{@dynindent}{dynamic indent width flag}%
23455 \DefineTOCEntryCommandOption{entryformat}%
23456   {scr@tso@}{@entryformat}[1]{entry format}%
23457 \DefineTOCEntryCommandOption{entrynumberformat}%
23458   {scr@tso@}{@numberformat}[1]{entry number format}%
23459 \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
23460   {scr@tso@}{@linefill}{filling between text and page number}%
23461 \DefineTOCEntryLengthOption{numsep}%
23462   {scr@tso@}{@numsep}{entry number separation}%
23463 \DefineTOCEntryCommandOption{onstarthigherlevel}%
23464   {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
23465 \DefineTOCEntryCommandOption{onstartlowerlevel}%
23466   {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
23467 \DefineTOCEntryCommandOption{onstartsamelevel}%
23468   {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
23469 \DefineTOCEntryCommandOption{pagenumberbox}%
23470   {scr@tso@}{@pagenumberbox}[1]{page number box}%
23471 \DefineTOCEntryCommandOption{pagenumberformat}%
23472   {scr@tso@}{@pagenumberformat}[1]{page number format}%
23473 \DefineTOCEntryLengthOption{pagenumberwidth}%
23474   {scr@tso@}{@pagenumberwidth}{width of page number box}%
23475 \DefineTOCEntryLengthOption{rightindent}%
23476   {scr@tso@}{@rightindent}{entry's text right indent}%
23477 \DefineTOCEntryOption{raggedentrytext}[true]{%
23478   \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
23479   \ifx\FamilyKeyState\FamilyKeyStateProcessed
23480     \if@tempswa
23481       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23482       \raggedright
23483     \else
23484       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23485       \relax
23486     \fi
23487   \fi
23488 }%
23489 \DefineTOCEntryIfOption{raggedpagenumber}%
23490   {scr@tso@}{@raggedpage}{page number ragged flag}%
23491 \DefineTOCEntryLengthOption{indent}%
23492   {scr@tso@}{@indent}{entry indent}%
23493 \DefineTOCEntryLengthOption{numwidth}%
23494   {scr@tso@}{@numwidth}{entry number width}%
23495 \scr@ifundefinedorrelax{#1tocdepth}{%
23496   \Ifstrstart{#1}{sub}{%
23497     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{}{%
23498       \expandafter\edef\csname #1tocdepth\endcsname{%

```



```

23499         \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
23500     }%
23501 }%
23502 }{}%
23503 }{}%
23504 \@ifundefined{#1tocdepth}{%
23505     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23506     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23507     \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23508     \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23509     \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23510     \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23511     \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23512     \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23513     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23514         \expandafter\let\csname #1tocdepth\expandafter\endcsname
23515         \csname #1numdepth\endcsname
23516     }%
23517     }%
23518     }%
23519     }%
23520     }%
23521     }%
23522     }%
23523     }%
23524 }%
23525 }{}%
23526 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
23527     \@ifundefined{scr@#1@tocindent}{%
23528     \Ifstrstart{#1}{sub}{%
23529     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
23530     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}{%
23531     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23532     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23533     \relax
23534     }%
23535     }%
23536     }{}%
23537     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23538     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23539     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23540     \relax
23541     }%
23542     }{}%
23543     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23544     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23545     +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23546     \relax
23547     }%
23548     }%
23549     }%
23550     }{}%
23551     }{}%
23552     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%

```



```

23553 }%
23554 }{}%
23555 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
23556 \Ifstrstart{#1}{sub}{%
23557 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
23558 \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23559 }{%
23560 \expandafter\let
23561 \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
23562 \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
23563 }%
23564 }{}%
23565 \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23566 }%
23567 }{}%
23568 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
23569 \Ifstrstart{#1}{sub}{%
23570 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
23571 \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23572 }{%
23573 \expandafter\let
23574 \csname scr@tso@#1@rightindent\expandafter\endcsname
23575 \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
23576 }%
23577 }{}%
23578 \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23579 }%
23580 }{}%
23581 \@ifundefined{scr@tso@#1@indent}{%
23582 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23583 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23584 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23585 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23586 \scr@ifundefinedorrelax{1@chapter}{%
23587 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23588 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23589 \Ifstr{#1}{subsubsection}{%
23590 \@namedef{scr@tso@#1@indent}{3.8em}%
23591 }{%
23592 \Ifstr{#1}{paragraph}{%
23593 \@namedef{scr@tso@#1@indent}{7em}%
23594 }{%
23595 \Ifstr{#1}{subparagraph}{%
23596 \@namedef{scr@tso@#1@indent}{10em}%
23597 }{%
23598 }%
23599 }%
23600 }%
23601 }%
23602 }%
23603 }{}%
23604 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23605 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23606 \Ifstr{#1}{subsubsection}{%

```



```

23607         \@namedef{scr@tso@#1@indent}{7.0em}%
23608     }{%
23609         \Ifstr{#1}{paragraph}{%
23610             \@namedef{scr@tso@#1@indent}{10em}%
23611         }{%
23612             \Ifstr{#1}{subparagraph}{%
23613                 \@namedef{scr@tso@#1@indent}{12em}%
23614             }{%
23615                 }%
23616             }%
23617         }%
23618     }%
23619 }%
23620 }%
23621 }%
23622 }%
23623 }%
23624 }%
23625 }{}%
23626 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
23627     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
23628         \Ifstrstart{#1}{sub}{%
23629             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{-}{%
23630                 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
23631                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23632                         +.9em%
23633                 }%
23634             }%
23635         }%
23636     }{}%
23637 }{%
23638     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23639 }%
23640 }{}%
23641 \@ifundefined{scr@tso@#1@numwidth}{%
23642     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23643         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23644             \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23645                 \scr@ifundefinedorrelax{chapter}{%
23646                     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23647                         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23648                             \Ifstr{#1}{subsubsection}{%
23649                                 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23650                             }{%
23651                                 \Ifstr{#1}{paragraph}{%
23652                                     \@namedef{scr@tso@#1@numwidth}{4.1em}%
23653                                 }{%
23654                                     \Ifstr{#1}{subparagraph}{%
23655                                         \@namedef{scr@tso@#1@numwidth}{5m}%
23656                                     }{%
23657                                         }%
23658                                     }%
23659                                 }%
23660                             }%

```



```

23661         }%
23662     }{%
23663         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23664             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23665                 \Ifstr{#1}{subsubsection}{%
23666                     \@namedef{scr@tso@#1@numwidth}{3.1em}%
23667                 }{%
23668                     \Ifstr{#1}{paragraph}{%
23669                         \@namedef{scr@tso@#1@numwidth}{5em}%
23670                     }{%
23671                         \Ifstr{#1}{subparagraph}{%
23672                             \@namedef{scr@tso@#1@numwidth}{6em}%
23673                         }{%
23674                             }%
23675                         }%
23676                     }%
23677                 }%
23678             }%
23679         }%
23680     }%
23681 }%
23682 }%
23683 }{%
23684 \expandafter\renewcommand%
23685 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
23686 \expandafter\renewcommand%
23687 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
23688 \expandafter\renewcommand%
23689 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
23690 \@ifundefined{scr@tso@#1@beforeskip}{%
23691     \Ifstr{#1}{part}{%
23692         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
23693     }{%
23694         \Ifstr{#1}{chapter}{%
23695             \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23696         }{%
23697             \Ifstr{#1}{section}{%
23698                 \scr@ifundefinedorrelax{1@chapter}{%
23699                     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23700                 }{%
23701                     }{}%
23702                 }%
23703             }%
23704             \expandafter\renewcommand\expandafter*%
23705             \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
23706         }{}%
23707         \@ifundefined{scr@dte@#1@maxnumwidth}{%
23708             \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
23709             \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
23710         }{}%
23711         \renewcommand*{\scr@dte@donumwidth}{}%
23712         \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
23713         \expandafter\renewcommand\expandafter*%
23714         \csname scr@tso@#1@numsep\endcsname{.4em}%

```



```

23715 \expandafter\renewcommand%
23716 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
23717 \Ifstr{#1}{part}{%
23718   \expandafter\providecommand%
23719   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
23720 }{%
23721   \Ifstr{#1}{chapter}{%
23722     \expandafter\providecommand%
23723     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23724   }{%
23725     \scr@ifundefinedorrelax{1@chapter}{%
23726       \Ifstr{#1}{section}{%
23727         \expandafter\providecommand%
23728         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23729       }{}%
23730     }{}%
23731     \expandafter\providecommand%
23732     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23733   }%
23734 }%
23735 \expandafter\renewcommand
23736 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
23737 \@ifundefined{scr@tso@#1@linefill}{%
23738   \Ifstr{#1}{part}{%
23739     \@namedef{scr@tso@#1@linefill}{\hfill}%
23740   }{%
23741     \Ifstr{#1}{chapter}{%
23742       \@namedef{scr@tso@#1@linefill}{\hfill}%
23743     }{%
23744       \scr@ifundefinedorrelax{1@chapter}{%
23745         \Ifstr{#1}{section}{%
23746           \@namedef{scr@tso@#1@linefill}{\hfill}%
23747         }{}%
23748       }{}%
23749       \expandafter\renewcommand%
23750       \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23751     }%
23752   }%
23753 }{}%
23754 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23755 \Ifstr{#1}{part}{%
23756   \expandafter\providecommand%
23757   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
23758 }{%
23759   \Ifstr{#1}{chapter}{%
23760     \expandafter\providecommand%
23761     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23762   }{%
23763     \scr@ifundefinedorrelax{1@chapter}{%
23764       \Ifstr{#1}{section}{%
23765         \expandafter\providecommand%
23766         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23767       }{}%
23768     }{}%

```



```

23769 \expandafter\providecommand%
23770 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23771 {\normalfont\normalcolor ##1}}%
23772 }%
23773 }%
23774 \expandafter\renewcommand%
23775 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23776 \hb@xt@\@nameuse{scr@dte@pagenumberwidth}{\hfil ##1}}%
23777 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23778 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23779 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23780 \Ifstrstart{#1}{sub}{%
23781 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23782 \scr@dte@nosub{#1}}%
23783 }%
23784 }{%
23785 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23786 }%
23787 }{}%
23788 }]}%
23789 \scr@dte@tocline{#1}{##1}{##2}%
23790 }
23791
23792 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
23793 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23794 {\normalfont\normalcolor #1}}%
23795 }%
23796 }{}
23797
23798 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
23799 \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23800 {\normalfont\normalcolor #1}}%
23801 }%
23802 }{}
23803

```

160 File tocstyle-xetex-bidi.def

```

23804 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23805 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23806 \let\numberline\tocstyle@numberline
23807 \ifnum #1>\c@tocdepth \else
23808 \if@tocstyle@penalties
23809 \begingroup
23810 \@tempcnta 20010
23811 \advance \@tempcnta by -#1
23812 \ifnum \@tempcnta>\lastpenalty
23813 \aftergroup\penalty\aftergroup\@lowpenalty
23814 \fi
23815 \endgroup
23816 \fi
23817 \edef\tocstyledepth{#1}%
23818 \tocstyle@activate@features
23819 \ifx\tocstyle@feature@entryvskip\relax

```



```

23820     \vskip \z@ \@plus.2\p@
23821 \else
23822     \addvspace{\tocstyle@feature@entryvskip}%
23823 \fi
23824 {%
23825     \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
23826     \tocstyle@feature@raggedhook
23827     \@tempdima #3\relax
23828     \@tempdimb #2\relax
23829     \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23830     \ifnum #1>\z@\relax
23831         \@tempcnta #1\relax \advance\@tempcnta \m@ne
23832         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23833             \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23834                 \@tempdimb
23835                 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23836                 \advance\@tempdimb
23837                 \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23838             \fi
23839         \fi
23840     \fi
23841     \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23842     \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23843         \ifdim \@tempdimb>
23844             \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23845             \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23846                 @#1\endcsname{\the\@tempdimb}%
23847         \fi
23848     \else
23849         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23850             @#1\endcsname{\the\@tempdimb}%
23851     \fi
23852     \iftocstyle@autolength
23853         \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23854             \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23855             \relax
23856         \fi
23857         \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23858             \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23859             \relax
23860         \fi
23861         \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23862         \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23863     \else
23864         \@tempdimb #2\relax
23865         \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23866     \fi
23867     \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23868         \ifdim \@tempdima>
23869             \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23870             \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23871                 @\endcsname{\the\@tempdima}%
23872         \fi
23873     \else

```




```

23874     \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23875     @\endcsname{\the\@tempdima}%
23876 \fi
23877 \ifcase\tocstyle@indentstyle\relax\else
23878     \@tempdimb \z@
23879     \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23880         \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23881         \relax
23882     \fi
23883     \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23884     \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23885 \fi
23886 \advance\parindent \@tempdimb\@afterindenttrue
23887 \advance\if@RTL\rightright\else\leftskip\fi \parindent
23888 \advance\if@RTL\leftskip\else\rightskip\fi \@tocmarg
23889 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23890 \ifx\tocstyle@feature@parfillskip\relax\else
23891     \advance\parfillskip \tocstyle@feature@parfillskip\relax
23892 \fi
23893 \interlinepenalty\@M
23894 \leavevmode
23895 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima
23896 \null\nobreak
23897 \iftocstyle@indentnotnumbered\else
23898     \hskip -\if@RTL\rightright\else\leftskip\fi
23899 \fi
23900 \tocstyle@feature@entryhook
23901 {#4}\nobreak
23902 \ifx\tocstyle@feature@leaders\relax
23903     \leaders\hbox{${m@th
23904         \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
23905         \mkern \@dotsep mu$}\hfill
23906 \else
23907     \tocstyle@feature@leaders
23908 \fi
23909 \nobreak
23910 \ifx\tocstyle@feature@pagenumberbox\relax
23911     \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23912 \else
23913     \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23914 \fi
23915 \par
23916 }%
23917 \iftocstyle@penalties
23918     \bgroup
23919     \@tempcnta 20009
23920     \advance\@tempcnta by -#1
23921     \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23922     \reserved@a
23923 \fi
23924 \fi}
23925 \renewcommand*{\tocstyle@numberline}[1]{%
23926 \begingroup
23927 \ifx\tocstyle@feature@spaceafternumber\relax

```



```

23928     \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
23929 \else
23930     \settowidth\@tempdima{\tocstyle@numberline{#1}}%
23931     \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23932 \fi
23933 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23934 \ifdim \@tempdima >
23935 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23936 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23937 @\tocstyledepth\endcsname{\the\@tempdima}%
23938 \fi
23939 \else
23940 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23941 @\tocstyledepth\endcsname{\the\@tempdima}%
23942 \fi
23943 \endgroup
23944 \iftocstyle@indentnotnumbered
23945 \hskip -\if@RTL\rightskip\else\leftskip\fi
23946 \fi
23947 \ifcase \tocstyle@indentstyle
23948 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
23949 \or
23950 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
23951 \else
23952 \ifx\tocstyle@feature@spaceafternumber\relax
23953 \hbox{\tocstyle@numberline{#1}\enskip}%
23954 \else
23955 \hbox{\tocstyle@numberline{#1}\hskip
23956 \tocstyle@feature@spaceafternumber\relax}%
23957 \fi
23958 \fi
23959 }
23960 \AtBeginDocument{%
23961 \ifcsname l@part\endcsname
23962 \ifcsname l@chapter\endcsname
23963 \setbox\@tempboxa\vbox{\hsize\maxdimen
23964 \l@part{\tocstyle@l@define{part}{-1}}{}}%
23965 \else
23966 \setbox\@tempboxa\vbox{\hsize\maxdimen
23967 \l@part{\tocstyle@l@define{part}{0}}{}}%
23968 \fi
23969 \fi
23970 \ifcsname l@chapter\endcsname
23971 \setbox\@tempboxa\vbox{\hsize\maxdimen
23972 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
23973 \fi
23974 \ifcsname l@section\endcsname
23975 \setbox\@tempboxa\vbox{\hsize\maxdimen
23976 \l@section{\tocstyle@l@define{section}{1}}{}}%
23977 \fi
23978 \ifcsname l@subsection\endcsname
23979 \setbox\@tempboxa\vbox{\hsize\maxdimen
23980 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
23981 \fi

```



```

23982 \ifcsname l@subsubsection\endcsname
23983 \setbox\@tempboxa\vbox{\hsize\maxdimen
23984 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
23985 \fi
23986 \ifcsname l@paragraph\endcsname
23987 \setbox\@tempboxa\vbox{\hsize\maxdimen
23988 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
23989 \fi
23990 \ifcsname l@subparagraph\endcsname
23991 \setbox\@tempboxa\vbox{\hsize\maxdimen
23992 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
23993 \fi
23994 \ifcsname l@table\endcsname
23995 \setbox\@tempboxa\vbox{\hsize\maxdimen
23996 \l@table{\tocstyle@l@define{table}{1}}{}}%
23997 \fi
23998 \ifcsname l@figure\endcsname
23999 \setbox\@tempboxa\vbox{\hsize\maxdimen
24000 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
24001 \fi
24002 \def\@tempa#1#2#3#4#5{%
24003 \ifnum #1>\c@tocdepth \else
24004 \vskip \z@ \@plus.2\p@
24005 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@toc
24006 \parindent #2\relax\@afterindenttrue
24007 \interlinepenalty\@M
24008 \leavevmode
24009 \@tempdima #3\relax
24010 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\
24011 {#4}\nobreak
24012 \leaders\hbox{$\m@th
24013 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
24014 mu$}\hfill
24015 \nobreak
24016 \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
24017 \par}%
24018 \fi}%
24019 \ifx\@dottedtocline\@tempa\else
24020 \tocstyle@macrochangewarning\@dottedtocline
24021 \fi
24022 \let\tocstyle@saved@dottedtocline\@dottedtocline
24023 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
24024 \ifx\numberline\@tempa\else
24025 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
24026 \ifx\numberline\@tempa\else
24027 \tocstyle@macrochangewarning\numberline
24028 \fi
24029 \fi
24030 \let\tocstyle@saved@numberline\numberline
24031 }
24032 \renewcommand*{\tocstyle@l@define}[2]{%
24033 \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
24034 \edef\@tempa{%
24035 \noexpand\global\noexpand\let

```



```

24036 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
24037 \expandafter\noexpand\csname l@#1\endcsname
24038 \noexpand\gdef
24039 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
24040 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}
24041 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
24042 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
24043 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
24044 }%
24045 }%
24046 \PackageInfo{tocstyle}{prepare \expandafter\string
24047 \csname l@#1\endcsname\space for redefinition}%
24048 \@tempa
24049 }

```

161 File todonotes-xetex-bidi.def

```

24050 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes pack
24051 \newif\if@bidi@todonotes@textdirection@RTL
24052 \newif\if@bidi@todonotes@figposition@right
24053 \newcommand{\@bidi@todonotes@align}{}%
24054 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
24055 \newcommand{\@bidi@todonotes@textdirection}{}%
24056 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right
24057 \ifcase\@bidi@todonotes@tempb\relax
24058 \@bidi@todonotes@textdirection@RTLtrue
24059 \let\@bidi@todonotes@textdirection\RLE
24060 \or
24061 \@bidi@todonotes@textdirection@RTLfalse
24062 \let\@bidi@todonotes@textdirection\LRE
24063 \fi}
24064 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right
24065 \ifcase\@bidi@todonotes@tempb\relax
24066 \@bidi@todonotes@figposition@righttrue
24067 \or
24068 \@bidi@todonotes@figposition@rightfalse
24069 \fi}
24070 \if@todonotes@disabled%
24071 \else % \if@todonotes@disabled
24072 \renewcommand{\@todonotes@drawInlineNote}{%
24073 \if@todonotes@dviStyle%
24074 {\par\noindent\begin{tikzpicture}[remember picture]%
24075 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24076 \if@todonotes@authorgiven%
24077 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24078 \else%
24079 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24080 \fi
24081 {\par\noindent\begin{tikzpicture}[remember picture]%
24082 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24083 \else%
24084 {\par\noindent\begin{tikzpicture}[remember picture]%
24085 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24086 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@

```



```

24087         \if@todonotes@authorgiven%
24088             {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@tex
24089             \else%
24090                 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24091             \fi};%
24092     \end{tikzpicture}\par}%
24093 \fi}%
24094 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
24095 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
24096     \node [coordinate] (inText) {};%
24097 \end{tikzpicture}%
24098 \marginpar[{\% Draw note in left margin
24099     \@todonotes@drawMarginNote%
24100     \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
24101 }]{\% Draw note in right margin
24102     \@todonotes@drawMarginNote%
24103     \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
24104 }%
24105 }%
24106 \renewcommand{\@todonotes@drawMarginNote}{%
24107 \if@todonotes@dviStyle%
24108     \begin{tikzpicture}[remember picture]%
24109         \draw node[notestyle] {};%
24110     \end{tikzpicture}\\%
24111     \begin{minipage}{\@todonotes@textwidth}%
24112         \if@todonotes@authorgiven%
24113             \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
24114         \else%
24115             \@todonotes@sizecommand \@todonotes@text%
24116         \fi%
24117     \end{minipage}\\%
24118     \begin{tikzpicture}[remember picture]%
24119         \draw node[notestyle] (inNote) {};%
24120     \end{tikzpicture}%
24121 \else%
24122     \let\originalHbadness\hbadness%
24123     \hbadness 100000%
24124     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
24125         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24126         \node(X){\vphantom{X}};%
24127         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24128         \if@todonotes@authorgiven%
24129             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@sizecommand\@todonotes@author};%
24130             \node(Y)[below=of X]{};%
24131             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24132         \else%
24133             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24134         \fi%
24135     \end{tikzpicture}%
24136     \hbadness \originalHbadness%

```



```

24141 \fi}%
24142 \renewcommand{\missingfigure}[2] []{%
24143 \setkeys{todonotes}{#1}%
24144 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
24145 \par
24146 \noindent
24147 \begin{tikzpicture}
24148 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24149 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
24150 \if@bidi@todonotes@figposition@right%
24151 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24152 \fi%
24153 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
24154 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
24155 \if@bidi@todonotes@figposition@right%
24156 \end{scope}
24157 \begin{scope}[xshift=-3.8cm]
24158 \fi%
24159 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24160 \draw (2, -0.3) node[right, text
24161 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
24162 \if@bidi@todonotes@figposition@right%
24163 \end{scope}
24164 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24165 \fi%
24166 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@textdirection}};
24167 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@textdirection}};
24168 \if@bidi@todonotes@figposition@right%
24169 \end{scope}
24170 \fi%
24171 \end{tikzpicture}\hfill
24172 }% Ending \missingfigure command
24173 \fi % Ending \@todonotes@ifdisabled
24174 \presetkeys%
24175 {todonotes}%
24176 {align=left,%
24177 textdirection=lefttoright,%
24178 figposition=left}{}%

```

162 File wrapfig-xetex-bidi.def

```

24179 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package]
24180 \let\WF@everypar\bidi@n@everypar
24181 \def\WF@putfigmaybe{%
24182 \ifinner
24183 \vskip-\parskip \global\WF@floatfalse
24184 \let\pagetotal\maxdimen % kludge flag for "not top of page"
24185 \else % outer page
24186 \@tempdima\pagedepth % save page depth
24187 {\advance\parskip\@tempdima\ifRTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
24188 \penalty\interlinepenalty % update pg. parameters
24189 \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
24190 \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
24191 \global\WF@floatfalse

```



```

24192     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
24193 \else
24194     \ifdim\WF@size>\@tempdimb
24195         \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
24196         \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
24197         \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
24198         \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
24199         \advance\dimen@.5\baselineskip
24200         \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
24201             \global\WF@floatfalse \pagebreak
24202         \fi
24203     \else % \WF@info{Fits in \the\@tempdimb;}%
24204         \global\WF@floatfalse
24205     \fi\fi
24206 \vskip\@tempdima\relax % (return erased page depth)
24207 \fi
24208 \noindent
24209 \ifWF@float
24210     \WF@fltmes
24211 \else % putting here;
24212     \WF@info{Put \WF@wfname here;}%
24213     {\ifodd\if@twoside@c@page\else\@ne\fi % assign l/r to i/o placement
24214         \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
24215         \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
24216     \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
24217         \@tempdima\wd\WF@box \@tempdimb\WF@ovh
24218         \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
24219         \@tempdimb\hsize \advance\@tempdimb-\@tempdima
24220         \xdef\WF@adjlw{\the\@tempdima}%
24221         \ifnum `l=\WF@place % fig on left
24222             \if@RTL%
24223                 \kern\@tempdimb \kern\columnsep
24224                 \def\@tempa{\hss}% position to left of the gap
24225             \else%
24226                 \hss % figure overlaps space to the left
24227                 \def\@tempa{\kern\columnsep}% position to left of the gap
24228             \fi%
24229         \else % fig on right
24230             \if@RTL%
24231                 \hss
24232                 \@tempdima\z@
24233                 \def\@tempa{\kern\columnsep}
24234             \else%
24235                 \@tempdima\z@ % no left indentation
24236                 \kern\@tempdimb \kern\columnsep
24237                 \def\@tempa{\hss}% figure overlaps space to the right
24238             \fi%
24239         \fi
24240     \ifdim\@tempdimb<\hsize
24241         \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
24242         \xdef\WF@adjtllm{\the\@tempdima}%
24243     \else
24244         \xdef\WF@wrapil{\z@ \the\hsize}%
24245         \xdef\WF@adjlw{\z@}\xdef\WF@adjtllm{\z@}%

```



```

24246 \fi
24247 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
24248 \global\advance\WF@size-\intextsep
24249 \else % \WF@info{Putting \WF@wfname in middle of page}%
24250 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
24251 \fi \dp\WF@box\z@ \box\WF@box \@tempa
24252 }% end \hbox to Opt
24253 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
24254 \fi}

```

163 File xcolor-xetex-bidi.def

```

24255 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package fo
24256 \long\def\color@b@x#1#2#3%
24257 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
24258 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}
24259 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
24260 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
24261 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
24262 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
24263 \DeclareRobustCommand\color
24264 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\ifnextchar[\@undeclaredcolor\@declaredcolor
24265 \def\@undeclaredcolor[#1]#2%
24266 {\begingroup
24267 \let\@cls\@empty
24268 \XC@getmodclr12{#1}{#2}{}%
24269 {\ifblendcolors
24270 \ifx\colorblend\@empty\else
24271 \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
24272 \XC@coremodel\@mod\@clr\@xcolor@{}{\@mod\@clr
24273 \fi
24274 \fi
24275 \ifconvertcolorsU
24276 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24277 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24278 \fi
24279 \ifmaskcolors
24280 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24281 \let\@mod\XC@mmod
24282 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24283 \expandafter\XC@mul\@tmp,\@clr
24284 \fi
24285 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
24286 \expandafter\endgroup\@tmp}}
24287 \def\@declaredcolor#1%
24288 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24289 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24290 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24291 \ifconvertcolorsU\XC@tsttrue\fi
24292 \fi
24293 \ifXC@tst
24294 \expandafter\XC@declaredcolor\else
24295 \expandafter\XC@declaredcolor\fi}
24296 \def\XC@undeclaredcolor#1#2%

```




```

24297 {\@ifundefinedmodel{#1}%
24298   {\color@error{model `#1'}}%
24299   {\@nameuse{color@#1}\current@color{#2}%
24300   \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24301   \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24302 \def\XC@declaredcolor
24303   {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
24304   \edef\current@color{\XC@current@color}%
24305   \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24306 \DeclareRobustCommand\bidicolor
24307   {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
24308 \def\@bidiundeclaredcolor[#1]#2%
24309   {\begingroup
24310     \let\@cls\@empty
24311     \XC@getmodclr12{#1}{#2}{}%
24312     {\ifblendcolors
24313       \ifx\colorblend\@empty\else
24314         \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
24315         \XC@coremodel\@mod\@clr\xcolor@{}{\@mod\@clr
24316         \fi
24317         \fi
24318         \ifconvertcolorsU
24319           \edef\@tmp{\XC@tgt@mod{\@mod}}%
24320           \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24321         \fi
24322         \ifmaskcolors
24323           \convertcolorspec\@mod\@clr\XC@mmod\@clr
24324           \let\@mod\XC@mmod
24325           \XC@inflate\@mod\XC@mclr\@clr\@tmp
24326           \expandafter\XC@mul\@tmp,\@clr
24327         \fi
24328         \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
24329         \expandafter\endgroup\@tmp}}
24330 \def\XC@bidiundeclaredcolor#1#2%
24331   {\@ifundefinedmodel{#1}%
24332     {\color@error{model `#1'}}%
24333     {\@nameuse{color@#1}\current@color{#2}%
24334     \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24335     \XC@display}}
24336 \def\@bidideclaredcolor#1%
24337   {\XC@edef\XC@tmp{#1}\XC@tstfalse
24338   \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24339     \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24340     \ifconvertcolorsU\XC@tsttrue\fi
24341   \fi
24342   \ifXC@tst
24343     \expandafter\XC@bidideclaredcolor\else
24344     \expandafter\XC@bidideclaredcolor\fi}
24345 \def\XC@bidideclaredcolor
24346   {\XC@split\XC@tmp
24347   \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
24348   \expandafter\endgroup\@tmp}
24349 \def\XC@bidideclaredcolor
24350   {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%

```



```

24351 \edef\current@color{\XC@current@color}%
24352 \XC@display}
24353 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
24354 \def\color@fbox#1#2#3#4{\protect\color@fb@x{#1}{#2}{#3}}
24355 \def\color@fb@x#1#2#3#4%
24356 {\color@b@x{\fboxsep\z@\bidicolor#1{#2}\XC@fbox}%
24357 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
24358 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmo

```

164 File latex-xetex-bidi.def

```

24359 \ProvidesFile{latex-xetex-bidi.def}[2025/09/20 v1.5.3 bidi adaptations for `latex.ltx' for
24360 \newcommand{\TeXeTOn}{\TeXeTstate@one}
24361 \newcommand{\TeXeTOff}{\TeXeTstate@z@}
24362 \TeXeTOn
24363 \def\ bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\useb
24364 \let\ bidi@o@everypar=\everypar
24365 \newtoks\ bidi@n@everypar
24366 \ bidi@n@everypar\expandafter{\the\ bidi@o@everypar}
24367 \ bidi@o@everypar{\ bidi@RTL@everypar\the\ bidi@n@everypar}
24368 \let\ everypar=\ bidi@n@everypar
24369 \def\ moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
24370 \def\ moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
24371 \protected\def\ hboxR{\hbox\ bgroup
24372 \everyhbox{%
24373 \aftergroup\egroup
24374 \everyhbox{}}%
24375 \beginR
24376 \@hboxRconstructtrue
24377 \bgroup
24378 \aftergroup\endR
24379 \aftergroup\egroup
24380 }\hbox}
24381 \protected\def\ hboxL{\hbox\ bgroup
24382 \everyhbox{%
24383 \aftergroup\egroup
24384 \everyhbox{}}%
24385 \beginL
24386 \@hboxRconstructfalse
24387 \bgroup
24388 \aftergroup\endL
24389 \aftergroup\egroup
24390 }\hbox}
24391 \protected\def\ vboxR{\vbox\ bgroup
24392 \everyvbox{%
24393 \aftergroup\egroup
24394 \everyvbox{}}%
24395 \@RTLtrue
24396 \@RTLtabtrue
24397 \bgroup
24398 \aftergroup\egroup
24399 }\vbox}
24400 \protected\def\ vboxL{\vbox\ bgroup
24401 \everyvbox{%

```



```

24402 \aftergroup\egroup
24403 \everyvbox{}%
24404 \@RTLfalse
24405 \@RTLtabfalse
24406 \bgroup
24407 \aftergroup\egroup
24408 }\vbox}
24409 \newcommand*{\bidi@leftskip}{\if@RTL:rightskip\else:leftskip\fi}
24410 \newcommand*{\bidi@rightskip}{\if@RTL:leftskip\else:rightskip\fi}
24411 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer@ragged}
24412 \def\endLTR{\par}
24413 \newenvironment{LTR*}{\LTR
24414 \everypar{%
24415   {\setbox\z@\lastbox
24416     \ifvoid\z@
24417       \kern-\parindent
24418     \fi}}%
24419 }%
24420 }\endLTR\@endpetrue}
24421 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer@ragged}
24422 \def\endRTL{\par}
24423 \newenvironment{RTL*}{\RTL
24424 \everypar{%
24425   {\setbox\z@\lastbox
24426     \ifvoid\z@
24427       \kern-\parindent
24428     \fi}}%
24429 }%
24430 }\endRTL\@endpetrue}
24431 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\bidi@beamer@ragged}
24432 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\bidi@beamer@ragged}
24433 \let\unsetRTL=\setLTR
24434 \let\unsetLTR=\setRTL
24435 \let\LR=\LRE
24436 \let\RL=\RLE
24437 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
24438 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
24439 \let\@ensure@RL=\@ensure@RTL
24440 \let\@ensure@LR=\@ensure@LTR
24441 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
24442 \let\@ensure@maindir=\@ensure@dir
24443 \def\@RTL{RTL}
24444 \def\@LTR{LTR}
24445 \def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
24446 \def\reset@dir{\ifx\saved@@dir\@RTL\setRTL\else\ifx\saved@@dir\@LTR\setLTR\else\relax\fi}
24447 \let\@TeX\TeX
24448 \def\TeX{\@ensure@LTR{\@TeX}}
24449 \let\@LaTeX\LaTeX
24450 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
24451 \let\@LaTeXe\LaTeXe
24452 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
24453 \long\def\bidi@reflect@box#1{%
24454   \leavevmode
24455   \setbox\z@\hbox{#1}}%

```



```

24456 \setbox\tw\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z}\special{x:grestor
24457 \hb@xt@\wd\z{\kern\wd\z\box\tw\hss}%
24458 }
24459 \if@bidi@csundef{XeTeX}{%
24460 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
24461 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
24462 }{%
24463 \let\@bidi@orig@XeTeX\XeTeX
24464 \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
24465 }
24466 \if@bidi@csundef{XeLaTeX}{%
24467 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
24468 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
24469 }{%
24470 \let\@bidi@orig@XeLaTeX\XeLaTeX
24471 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
24472 }
24473 \let\setRL=\setRTL
24474 \let\setLR=\setLTR
24475 \let\unsetRL=\setLTR
24476 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
24477 \ApplyPatchIfPackageLoaded{array}{%
24478 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24479 \leavevmode
24480 \hbox \bgroup $\left.\col@sep\@tabcolsep \let\d@llarbegin\begin@group
24481 \let\d@llarend\end@group
24482 \@tabarray}
24483 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
24484 }{%
24485 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24486 \leavevmode \hbox \bgroup
24487 $\left.\let\@acol\@tabacol
24488 \let\@classz\@tabclassz
24489 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24490
24491 \def\endbidi@tabular@RTLcases{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
24492 \egroup\right\rbrace$\egroup}}
24493 \def RTLcases#1{\left.\vcenter{\normalbaselines\m@th
24494 \ialign{###\hfil$\quad{##}\hfil\crcr#1\crcr}}\,\right)}
24495 \renewenvironment{RTLcases}{%
24496 \bidi@matrix@check RTLcases\env@RTLcases
24497 }{%
24498 \endbidi@tabular@RTLcases%
24499 }
24500 \def\env@RTLcases{%
24501 \let\@ifnextchar\bidi@new@ifnextchar
24502 \def\arraystretch{1.2}%
24503 \bidi@tabular@RTLcases{@}r@{\quad}r@{}}%
24504 }
24505 \def\SepMark#1{\gdef\@SepMark{#1}}
24506 \SepMark{.}
24507 \def\@thmcountersep{\@SepMark}
24508 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemfalse}
24509 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemfalse}

```



```

24510 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
24511 \newcommand*{\bidi@thebibliography@font@hook}{}
24512 \def\list#1#2{%
24513   \ifnum \@listdepth >5\relax
24514     \@toodeep
24515   \else
24516     \global\advance\@listdepth\@ne
24517   \fi
24518   \rightmargin\z@
24519   \listparindent\z@
24520   \itemindent\z@
24521   \csname @list\romannumeral\the\@listdepth\endcsname
24522   \def\@itemlabel{#1}%
24523   \let\makelabel\@mklab
24524   \@nmbrrlistfalse
24525   #2\relax
24526   \@trivlist
24527   \parskip\parsep
24528   \parindent\listparindent
24529   \advance\linewidth -\rightmargin
24530   \advance\linewidth -\leftmargin
24531   \if@bidi@list@minipage@parbox
24532     \if@RTL
24533       \advance\@totalleftmargin \leftmargin
24534     \else
24535       \advance\@totalleftmargin \rightmargin
24536     \fi
24537   \else
24538     \if@hboxRconstruct
24539     \if@bidi@list@minipage@parbox@not@nob
24540     \if@RTL
24541       \advance\@totalleftmargin \rightmargin
24542     \else
24543       \advance\@totalleftmargin \leftmargin
24544     \fi
24545   \else
24546     \if@RTL
24547       \advance\@totalleftmargin \leftmargin
24548     \else
24549       \advance\@totalleftmargin \rightmargin
24550     \fi\fi
24551   \else
24552     \if@RTL
24553       \advance\@totalleftmargin \rightmargin
24554     \else
24555       \advance\@totalleftmargin \leftmargin
24556     \fi\fi\fi
24557   \parshape \@ne \@totalleftmargin \linewidth
24558   \lignorespaces}
24559 \long\def\@iiiparbox#1#2[#3]#4#5{%
24560   \leavevmode
24561   \@pboxswfalse
24562   \if@hboxRconstruct
24563     \@bidi@list@minipage@parbox@not@nobtrue

```



```

24564 \fi
24565 \if@RTL
24566 \ifx#1t%
24567 \@bidi@list@minipage@parboxtrue
24568 \else
24569 \ifx#1b%
24570 \@bidi@list@minipage@parboxtrue
24571 \fi
24572 \fi
24573 \fi
24574 \setlength\@tempdima{#4}%
24575 \@begin@tempboxa\vbox{\hspace\@tempdima\@parboxrestore#5\@par}%
24576 \ifx\relax#2\else
24577 \setlength\@tempdimb{#2}%
24578 \edef\@parboxto{to\the\@tempdimb}%
24579 \fi
24580 \if#1b\vbox
24581 \else\if #1t\vtop
24582 \else\ifmode\center
24583 \else\@pboxswtrue $\vcenter
24584 \fi\fi\fi
24585 \@parboxto{\let\hss\vss\let\unhbox\unvbox
24586 \csname bm@#3\endcsname}%
24587 \if@pboxsw \m@th$\fi
24588 \@end@tempboxa}
24589 \newenvironment{LTRitems}
24590 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
24591 \if@bidi@list@minipage@parbox
24592 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24593 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24594 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24595 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24596 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24597 \ignorespaces}{\vskip\z@}
24598 \newenvironment{RTLitems}
24599 {\par\@RTLtrue\@RTLtabtrue\bidi@beamer@ragged
24600 \if@bidi@list@minipage@parbox
24601 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24602 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24603 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24604 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24605 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24606 \ignorespaces}{\vskip\z@}
24607 \newenvironment{LTRbibitems}
24608 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
24609 \if@bidi@list@minipage@parbox
24610 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24611 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24612 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24613 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24614 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24615 \ignorespaces}{\vskip\z@}
24616 \newenvironment{RTLbibitems}
24617 {\par\@RTLtrue\@RTLtabtrue\bidi@beamer@ragged

```



```

24618         \if@bidi@list@minipage@parbox
24619         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24620         \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24621         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24622         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24623         \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24624         \ignorespaces}{\vskip\z@}
24625 \def\raggedright{%
24626   \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
24627   \leftskip\z@skip
24628   \parindent\z@\parfillskip\z@skip}
24629 \let\@bidi@orig@raggedleft\raggedleft
24630 \let\@bidi@orig@raggedright\raggedright
24631 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRc
24632 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRc
24633 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
24634 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
24635 \DeclareRobustCommand\centerline[1]{%
24636 \if@RTL\@@line{\hss\beginR#1\endR\hss}
24637 \else\@@line{\hss#1\hss}\fi}
24638 \def\@bidi@orig@leftline#1{%
24639 \if@RTL\@@line{\beginR#1\endR\hss}
24640 \else\@@line{#1\hss}\fi}
24641 \def\@bidi@orig@rightline#1{%
24642 \if@RTL\@@line{\hss\beginR#1\endR}
24643 \else\@@line{\hss#1}\fi}
24644 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\@bidi@orig@rightline{#1}\else\@bidi@orig@le
24645 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\@bidi@orig@leftline{#1}\else\@bidi@orig@ri
24646 \DeclareRobustCommand\bidirlap[1]{\hb@xt@\z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
24647 \DeclareRobustCommand\bidillap[1]{\hb@xt@\z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
24648 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#1}}%
24649   \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
24650 \def\narrower{%
24651   \advance\if@RTL\rightskip\else\leftskip\fi\parindent
24652   \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
24653 \DeclareRobustCommand\underline[1]{%
24654   \relax
24655   \ifmmode\@@underline{#1}%
24656   \else
24657   \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
24658   \else
24659   $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
24660 \if@compatibility
24661   \let\underline=\underline
24662 \fi
24663 \def\@tabular{%
24664   \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
24665   $\let\@acol\@tabacol
24666   \let\@classz\@tabclassz
24667   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24668 \def\endtabular{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
24669   \egroup $\if@RTLtab\endR\fi\egroup}
24670 \expandafter \let \csname endtabular*\endcsname = \endtabular
24671 \def\@array[#1]#2{%

```



```

24672 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
24673 \bgroup
24674 \setbox\@arstrutbox\hbox{%
24675 \vrule \@height\arraystretch\ht\strutbox
24676 \@depth\arraystretch \dp\strutbox
24677 \@width\z@}%
24678 \@mkpream{#2}%
24679 \edef\@preamble{%
24680 \ialign \noexpand\@halignto
24681 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
24682 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
24683 \let\tabularnewline\\%
24684 \let\par\@empty
24685 \let\@sharp##%
24686 \set@typeset@protect
24687 \lineskip\z@skip\baselineskip\z@skip
24688 \ifhmode \@preamerr\z@ \@par\fi
24689 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
24690 \@preamble}
24691 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
24692 \let\@classiv\@arrayclassiv
24693 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
24694 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
24695 \ifnum \@lastchclass=3 5 \else
24696 \z@ \if #1c\@chnum \z@ \else
24697 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
24698 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
24699 \@chclass \if #1|\@ne \else
24700 \if #1@\tw@ \else
24701 \if #1p3 \else \z@ \@preamerr 0\fi
24702 \fi \fi \fi \fi \fi \fi
24703 \fi}
24704 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
24705 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
24706 \def\bm@t{\unhbox\@tempboxa\hss}
24707 \def\bm@b{\hss\unhbox\@tempboxa}
24708 \def\@dottedtocline#1#2#3#4#5{%
24709 \ifnum #1>\c@tocdepth \else
24710 \vskip \z@ \@plus.2\p@
24711 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@toctrm
24712 \parindent #2\relax\@afterindenttrue
24713 \interlinepenalty\@M
24714 \leavevmode
24715 \@tempdima #3\relax
24716 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rig
24717 {#4}\nobreak
24718 \leaders\hbox{\$}\m@th
24719 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
24720 mu$}\hfill
24721 \nobreak
24722 \hb@xt@\@pnumwidth{\{ \hfil\normalfont \normalcolor #5}\}%
24723 \par}%
24724 \fi}
24725

```




```

24726 \newcount\ bidi@column@check@number
24727
24728 \def\ bidi@column@status#1{\ gdef\ bidi@current@column@status{#1}}
24729
24730 \def\ bidi@set@column@status#1#2{%
24731   \global\ expandafter\ let\ csname #1\ endcsname\ bidi@current@column@status}
24732
24733 \if@twocolumn
24734 \newcommand\ DetectColumn[3][1]{%
24735   \ifx\ bidi@firstcolumn@status@write\ relax
24736     \PackageError{ bidi}{%
24737       {Option 'DetectColumn' not selected}%
24738       {\string\ DetectColumn\ space
24739         requires the use of the 'DetectColumn'
24740         option on the package}%
24741   \fi
24742   \global\ advance\ bidi@column@check@number\@ne
24743   \edef\ bidi@column@type{\ expandafter\ ifx
24744     \csname bidi@column-\ the\ bidi@column@check@number\ endcsname\ relax
24745     0\ else
24746     \csname bidi@column-\ the\ bidi@column@check@number\ endcsname
24747     \fi}%
24748   \ifcase \ bidi@column@type\ relax
24749     \ifcase #1\ or #2\ or #3\ fi   % 0 not known use first column as default
24750   \or
24751     #2%   % 1 First column
24752   \or
24753     #3%   % 2 Second (Last column)
24754   \else
24755     \ERROR
24756   \fi
24757   \edef\ next{\ write\@auxout
24758     {\string\ bidi@set@column@status{ bidi@column-\ the\ bidi@column@check@number}%
24759     {\ bidi@column@type}}}%
24760   \next
24761 }
24762
24763 \AtEndDocument{\ def\ bidi@set@column@status#1#2{%
24764   \ifnum #2=\ bidi@current@column@status\ else
24765     \@tempwatrue
24766   \fi}%
24767 }
24768 \fi
24769
24770 \def\ RTL@outputdblcol{%
24771   \if@firstcolumn
24772     \global\@firstcolumnfalse
24773     \global\ setbox\@leftcolumn\ copy\@outputbox
24774     \splitmaxdepth\ maxdimen
24775     \vbadness\ maxdimen
24776     \setbox\@outputbox\ vbox{\ unvbox\@outputbox\ unskip}%
24777     \setbox\@outputbox\ vsplit\@outputbox to\ maxdimen
24778     \toks@\ expandafter{\ topmark}%
24779     \xdef\@firstcoltopmark{\ the\ toks@}%

```



```

24780 \toks@\expandafter{\splitfirstmark}%
24781 \xdef\@firstcolfirstmark{\the\toks@}%
24782 \ifx\@firstcolfirstmark\@empty
24783   \global\let\@setmarks\relax
24784 \else
24785   \gdef\@setmarks{%
24786     \let\firstmark\@firstcolfirstmark
24787     \let\topmark\@firstcoltopmark}%
24788 \fi
24789 \else
24790   \global\@firstcolumntrue
24791   \setbox\@outputbox\vbox{%
24792     \hb@xt@\textwidth{%
24793       \hskip \columnwidth
24794       \hfil
24795       {\normalcolor\vrule \@width\columnseprule}%
24796       \hfil
24797       \hb@xt@\columnwidth{%
24798         \bidi@firstcolumn@status@write%
24799         \box\@leftcolumn \hss}%
24800       \hskip -\textwidth
24801       \hb@xt@\columnwidth{%
24802         \bidi@lastcolumn@status@write%
24803         \box\@outputbox \hss}%
24804       \hskip \columnsep
24805       \hskip \columnwidth }}%
24806 \@combinedblfloats
24807   \@setmarks
24808   \@outputpage
24809   \begingroup
24810     \@dblfloatplacement
24811     \@startdblcolumn
24812     \@whilesw\if@fcolmade \fi{\@outputpage
24813       \@startdblcolumn}%
24814   \endgroup
24815 \fi}%
24816
24817 \def\LTR@outputdblcol{%
24818   \if@firstcolumn
24819     \global\@firstcolumnfalse
24820     \global\setbox\@leftcolumn\copy\@outputbox
24821     \splitmaxdepth\maxdimen
24822     \vbadness\maxdimen
24823     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24824     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24825     \toks@\expandafter{\topmark}%
24826     \xdef\@firstcoltopmark{\the\toks@}%
24827     \toks@\expandafter{\splitfirstmark}%
24828     \xdef\@firstcolfirstmark{\the\toks@}%
24829     \ifx\@firstcolfirstmark\@empty
24830       \global\let\@setmarks\relax
24831     \else
24832       \gdef\@setmarks{%
24833         \let\firstmark\@firstcolfirstmark

```



```

24834         \let\topmark\@firstcoltopmark}%
24835     \fi
24836 \else
24837     \global\@firstcolumntrue
24838     \setbox\@outputbox\vbox{%
24839         \hb@xt@\textwidth{%
24840             \hb@xt@\columnwidth{%
24841                 \bidi@firstcolumn@status@write%
24842                 \box\@leftcolumn \hss}%
24843             \hfil
24844             {\normalcolor\vrule \@width\columnseprule}%
24845             \hfil
24846             \hb@xt@\columnwidth{%
24847                 \bidi@lastcolumn@status@write%
24848                 \box\@outputbox \hss}}}%
24849 \@combinedblfloats
24850     \@setmarks
24851     \@outputpage
24852     \begingroup
24853         \@dblfloatplacement
24854         \@startdblcolumn
24855         \@whilesw\if@fcolmade \fi{\@outputpage
24856         \@startdblcolumn}%
24857     \endgroup
24858 \fi}%
24859
24860
24861 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
24862 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
24863 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
24864
24865 \bidi@appto\@outputbox@appendfootnotes{%
24866     \ifvoid\@bidi@copyins@
24867     \else
24868         \@outputbox@append{%
24869             \vskip \skip\@bidi@copyins@
24870             \color@begingroup
24871             \normalcolor
24872             \unvbox \@bidi@copyins@
24873             \color@endgroup
24874         }%
24875     \fi
24876 }
24877
24878 \def\LTRmarginpar{%
24879     \ifhmode
24880         \@bsphack
24881         \@floatpenalty -\@Mii
24882     \else
24883         \@floatpenalty-\@Miii
24884     \fi
24885 \ifinner
24886     \@parmoderr
24887     \@floatpenalty\z@

```



```

24888 \else
24889 \@next\@currbox\@freelist{-}{-%
24890 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24891 {\floatpenalty\z@
24892 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24893 \fi
24894 \@ifnextchar [\@LTRxmpar\@LTRympar}
24895 \long\def\@LTRxmpar[#1]#2{%
24896 \@LTRsavemarbox\@marbox{#1}%
24897 \@LTRsavemarbox\@currbox{#2}%
24898 \@xympar}
24899 \long\def\@LTRympar#1{%
24900 \@LTRsavemarbox\@marbox{#1}%
24901 \global\setbox\@currbox\copy\@marbox
24902 \@xympar}
24903 \long\def \@LTRsavemarbox #1#2{%
24904 \global\setbox #1%
24905 \color@vbox
24906 \vtop{%
24907 \hsize\marginparwidth
24908 \@parboxrestore
24909 \@LTRmarginparreset
24910 #2%
24911 \@minipagefalse
24912 \outer@nobreak
24913 }%
24914 \color@endbox
24915 }
24916 \def \@LTRmarginparreset {%
24917 \reset@font
24918 \normalsize
24919 \@minipagetrue
24920 \everypar{\@minipagefalse\everypar{}}\beginL}%
24921 }
24922 \def\RTLmarginpar{%
24923 \ifhmode
24924 \@bsphack
24925 \@floatpenalty -\@Mii
24926 \else
24927 \@floatpenalty-\@Miii
24928 \fi
24929 \ifinner
24930 \@parmoderr
24931 \@floatpenalty\z@
24932 \else
24933 \@next\@currbox\@freelist{-}{-%
24934 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24935 {\floatpenalty\z@
24936 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24937 \fi
24938 \@ifnextchar [\@RTLxmpar\@RTLYmpar}
24939 \long\def\@RTLxmpar[#1]#2{%
24940 \@RTLSavemarbox\@marbox{#1}%
24941 \@RTLSavemarbox\@currbox{#2}%

```



```

24942 \@xympar}
24943 \long\def\@RTLympar#1{%
24944 \@RTLSavemarbox\@marbox{#1}%
24945 \global\setbox\@currbox\copy\@marbox
24946 \@xympar}
24947 \long\def \@RTLSavemarbox #1#2{%
24948 \global\setbox #1%
24949 \color@vbox
24950 \vtop{%
24951 \hsize\marginparwidth
24952 \@parboxrestore
24953 \@RTLmarginparreset
24954 #2%
24955 \@minipagefalse
24956 \outer@nobreak
24957 }%
24958 \color@endbox
24959 }
24960 \def \@RTLmarginparreset {%
24961 \reset@font
24962 \normalsize
24963 \@minipagetrue
24964 \everypar{\@minipagefalse\everypar{}}\beginR}%
24965 }
24966 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
24967 \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
24968 \if@twocolumn
24969 \if@firstcolumn \@tempcnta\m@ne \fi
24970 \else
24971 \if@mparswitch
24972 \ifodd\c@page \else\@tempcnta\m@ne \fi
24973 \fi
24974 \if@reversemargin \@tempcnta -\@tempcnta \fi
24975 \fi
24976 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
24977 \@tempdima\@mparbottom
24978 \advance\@tempdima -\@pageht
24979 \advance\@tempdima\ht\@marbox
24980 \ifdim\@tempdima >\z@
24981 \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
24982 \else
24983 \@tempdima\z@
24984 \fi
24985 \global\@mparbottom\@pageht
24986 \global\advance\@mparbottom\@tempdima
24987 \global\advance\@mparbottom\dp\@marbox
24988 \global\advance\@mparbottom\marginparpush
24989 \advance\@tempdima -\ht\@marbox
24990 \global\setbox \@marbox
24991 \vbox {\vskip \@tempdima
24992 \box \@marbox}%
24993 \global \ht\@marbox \z@
24994 \global \dp\@marbox \z@
24995 \kern -\@pagedp

```



```

24996 \nointerlineskip
24997 \hb@xt@{columnwidth
24998   {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\begin
24999     \hskip\columnwidth \hskip\marginparsep
25000   \else
25001     \hskip -\marginparsep \hskip -\marginparwidth
25002   \fi
25003   \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
25004 \nointerlineskip
25005 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
25006 \long\def\@ympar#1{%
25007   \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmargin
25008   \global\setbox\@currbox\copy\@marbox
25009   \@xympar}
25010 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
25011 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
25012 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
25013 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
25014   \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
25015 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
25016   \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
25017   \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
25018   \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}}%
25019 \fi}
25020
25021 \newcommand*{\bidi@font@@outputpage}{ }
25022
25023 \def\@outputpage{%
25024 \begingroup          % the \endgroup is put in by \aftergroup
25025 \let \protect \noexpand
25026 \@resetactivechars
25027 \global\let\@@if@newlist\if@newlist
25028 \global\@newlistfalse
25029 \@parboxrestore
25030 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
25031 \bidi@beforeoutputpageshipouthook
25032 \shipout \vbox{%
25033   \set@typeset@protect
25034   \aftergroup \endgroup
25035   \aftergroup \set@typeset@protect
25036   % correct? or just restore by ending
25037   % the group?
25038 \if@specialpage
25039   \global\@specialpagefalse\@nameuse{ps@\@specialstyle}}%
25040 \fi
25041 \if@twoside
25042   \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
25043   \if@RTLmain
25044     \let\@themargin\evensidemargin
25045   \else
25046     \let\@themargin\oddsidemargin
25047   \fi
25048 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
25049 \if@RTLmain

```



```

25050         \let\@themargin\oddsidemargin
25051         \else
25052         \let\@themargin\evensidemargin
25053         \fi
25054     \fi
25055     \ifx\@thehead\@empty \let\@thehead\hfil \fi
25056     \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
25057     \else %% not @twoside
25058     \ifx\@oddhead\@empty \let\@thehead\hfil \fi
25059     \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
25060 \fi
25061 \reset@font
25062 \normalsize
25063 \bidi@font@@outputpage
25064 \normalsfcodes
25065 \let\label\@gobble
25066 \let\index\@gobble
25067 \let\glossary\@gobble
25068 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
25069 \@begin@dv
25070 \vskip \topmargin
25071 \moveright\@themargin \vbox {%
25072     \global\let\bidi@BeforeHeader\@firstofone
25073     \bidi@beforeheaderhook
25074     \setbox\@tempboxa \vbox to\headheight{%
25075         \vfil
25076         \color@hbox
25077         \normalcolor
25078         \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if
25079         \color@endbox
25080     }%
25081     \dp\@tempboxa \z@
25082     \box\@tempboxa
25083     \vskip \headsep
25084     \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
25085     \bidi@beforeoutputboxoutputpagehook
25086     \box\@outputbox
25087     \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
25088     \bidi@afteroutputboxoutputpagehook
25089     \global\let\bidi@BeforeFooter\@firstofone
25090     \bidi@beforefooterhook
25091     \baselineskip \footskip
25092     \color@hbox
25093     \normalcolor
25094     \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if
25095     \color@endbox
25096     \global\let\bidi@AfterFooter\@firstofone
25097     \bidi@afterfooterhook
25098     }%
25099 }%
25100 \global\let\bidi@AfterOutputPageShipOut\@firstofone
25101 \bidi@afteroutputpageshipouthook
25102 \global\let\if@newlist\@if@newlist
25103 \global \colht \textheight

```



```

25104 \stepcounter{page}%
25105 \let\firstmark\botmark
25106 \global\let\bid@AtEndOutputPage\@firstofone
25107 \bid@atendoutputpagehook
25108 }
25109 \long\def\@makecaption#1#2{%
25110 \vskip\abovecaptionskip
25111 \sbox\@tempboxa{#1: #2}%
25112 \ifdim \wd\@tempboxa >\hsize
25113 \ifRTL\beginR\fi#1: #2\ifRTL\endR\fi\par
25114 \else
25115 \global \@minipagefalse
25116 \hb@xt@\hsize{\ifRTL\beginR\fi\hfil\box\@tempboxa\hfil\ifRTL\endR\fi}%
25117 \fi
25118 \vskip\belowcaptionskip}
25119 \let\bid@saved@eqno=\eqno
25120 \let\bid@saved@leqno=\leqno
25121 \def\eqno{\ifnum\predisplaydirection<\z@ \bid@saved@leqno \else \bid@saved@eqno \fi}
25122 \def\leqno{\ifnum\predisplaydirection<\z@ \bid@saved@eqno \else \bid@saved@leqno \fi}
25123 \ApplyPatchIfPackageLoadedF{amsmath}{
25124 \def\@eqnnum{\normalfont \normalcolor \ifRTL\beginR\fi(\theequation)\ifRTL\endR\fi}}
25125 }
25126 \input{footnote-xetex-bidi.def}
25127 \if@twocolumn
25128 \let\autofootnoterule\relax
25129 \let\leftfootnoterule\relax
25130 \let\rightfootnoterule\relax
25131 \textwidthfootnoterule
25132 \fi
25133 \if@bid@csundef{@idxitem}{-}{%
25134 \renewcommand\@idxitem{\par\hangindent \ifRTL-\fi40\p}%
25135 }
25136
25137 \ApplyPatchToClassesIfPackageLoadedF{%
25138 book, %
25139 report %
25140 }{flowfram}
25141
25142 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
25143
25144 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
25145 fleqn, %
25146 leqno%
25147 }[clo]
25148
25149 \ApplyPatchToClasses{%
25150 amsart, %
25151 amsbook, %
25152 article, %
25153 artikel1, %
25154 artikel2, %
25155 artikel3, %
25156 beamer, %
25157 boek, %

```




```

25158 boek3, %
25159 bookest, %
25160 combine, %
25161 extbook, %
25162 extletter, %
25163 extarticle, %
25164 extreport, %
25165 imsproc, %
25166 letter, %
25167 memoir, %
25168 rapport1, %
25169 rapport3, %
25170 refrep, %
25171 scrartcl, %
25172 scrbook, %
25173 scrreprt %
25174 }
25175
25176 \ApplyPatchToPackages{%
25177   algorithm2e, %
25178   amsmath, %
25179   amstext, %
25180   amsthm, %
25181   arydshln, %
25182   array, %
25183   beamerbaseauxtemplates, %
25184   beamerbaseboxes, %
25185   beamerbasecolor, %
25186   beamerbasecompatibility, %
25187   beamerbaseframecomponents, %
25188   beamerbaseframesize, %
25189   beamerbaselocalstructure, %
25190   beamerbasemisc, %
25191   beamerbasenavigation, %
25192   beamerbaseoverlay, %
25193   beamerinnerthemecircles, %
25194   beamerinnerthemedefault, %
25195   beamerinnerthemefocus, %
25196   beamerinnerthemeinmargin, %
25197   beamerinnerthememetropolis, %
25198   beamerinnerthemerectangles, %
25199   beamerinnerthemrounded, %
25200   beamerouterthemedefault, %
25201   beamerouterthemefocus, %
25202   beamerouterthemeinfolines, %
25203   beamerouterthememetropolis, %
25204   beamerouterthememiniframes, %
25205   beamerouterthemesidebar, %
25206   beamerouterthemesplit, %
25207   beamerouterthemeshadow, %
25208   beamerouterthesmoothbars, %
25209   beamerouterthesmoothtree, %
25210   beamerouterthemetree, %
25211   beamerthemeHannover, %

```



25212 beamerthemeSingapore, %
25213 breqn, %
25214 cals, %
25215 caption, %
25216 caption3, %
25217 color, %
25218 colortbl, %
25219 crop, %
25220 cuted, %
25221 cutwin, %
25222 dblfnote, %
25223 diagbox, %
25224 draftwatermark, %
25225 eso-pic, %
25226 empheq, %
25227 fancybox, %
25228 fancyhdr, %
25229 fix2col, %
25230 float, %
25231 floatrow, %
25232 flowfram, %
25233 fnpct, %
25234 footnotebackref, %
25235 framed, %
25236 ftnright, %
25237 geometry, %
25238 graphicx, %
25239 hvfloat, %
25240 hyperref, %
25241 lettrine, %
25242 lineno, %
25243 listings, %
25244 longtable, %
25245 lscape, %
25246 mathtools, %
25247 mdframed, %
25248 media9, %
25249 midfloat, %
25250 minitoc, %
25251 multicol, %
25252 adjmulticol, %
25253 multienum, %
25254 natbib, %
25255 newfloat, %
25256 nicematrix, %
25257 ntheorem, %
25258 ntheorem-hyper, %
25259 overpic, %
25260 pdfbase, %
25261 pdflscape, %
25262 pgfsys, %
25263 picinpar, %
25264 quotchap, %
25265 ragged2e, %



```

25266 rotating, %
25267 sidecap, %
25268 soul, %
25269 stabular, %
25270 subfigure, %
25271 tabs, %
25272 tabularx, %
25273 tabulary, %
25274 tcolorbox, %
25275 thmbox, %
25276 titlesec, %
25277 titletoc, %
25278 tocbasic, %
25279 tocbibind, %
25280 tocloft, %
25281 tocstyle, %
25282 todonotes, %
25283 wrapfig, %
25284 xcolor, %
25285 xltextra %
25286 }
25287
25288 \ApplyPatchToFiles{%
25289 pgfcorescopes.code, %
25290 pstricks %
25291 }[tex]
25292
25293 \ApplyPatchToFiles{%
25294 hgeneric-testphase, %
25295 tc-xetex %
25296 }
25297

```

165 File xltextra-xetex-bidi.def

```

25298 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package
25299 \let\@XeTeX\XeTeX
25300 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
25301 \let\@XeLaTeX\XeLaTeX
25302 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

```

166 Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols	\)	\.
\# 6062, 6108,	\) 17096	\. 94, 308,
6212, 6220, 15482	\, 8185, 15153,	633, 765, 1030,
\% 14770, 15483	19479, 19522,	1281, 2683, 4374,
\' 14890, 16992, 18883	24077, 24088, 24494	9372, 9562, 9878,
\(. 17095	\- 4375,	11428, 11703,
	14889, 16991, 18882	13887, 16494,



18306, 19046,	\@@description ... 2649	\@@underline
19440, 19639,	\@@end 6358, 6359	24655, 24657, 24659
19846, 20386,	\@@endpbox .. 16807,	\@DEBUGfalse 5010
21137, 21892, 22659	22339, 22377, 24682	\@False 9902, 9904
\/ 4730	\@@if@newlist 14201,	\@LTRbibitemfalse
\: 17137, 17196	14233, 25027, 25102	.... 24508, 24510
\< 22263	\@@italiccorr	\@LTRbibitemstrue 24509
\= .. 14890, 16992, 18883	.. 348, 9923, 16972	\@LTRbidityftesidenote@sidenote
\> 22264	\@@line 12073,	.. 8301, 8360, 8364
\@ 6132,	12076, 19873,	\@LTRbidityftesidenotemarginparreset
7187, 7190, 7193,	19882, 19920,	..... 7936, 7943
7216, 7221, 7226,	19931, 24636,	\@LTRbidityftesidenotesavemabox
7237, 7240, 7243,	24637, 24639,	..... 7923,
7253, 7256, 7259	24640, 24642, 24643	7924, 7927, 7930
\@@ 22442, 22444	\@@makecaption	\@LTRbidityftesidenotexmpar
\@CH@footnotetext	. 20418, 20482,	..... 7921, 7922
.... 11750, 11765	20579, 21169,	\@LTRbidityftesidenoteympar
\@CH@mpfootnotetext	21233, 21331,	..... 7921, 7926
.... 11753, 11771	21924, 21988, 22086	\@LTRfootgroupv01 .
\@HLTR@LTRfootnotetext	\@@makefnmark .....	..... 11968,
.... 11751, 11767	. 20022, 20058,	12098, 12245,
\@HLTR@mpLTRfootnotetext	20061, 20751,	12386, 12533,
.... 11754, 11773	20788, 20791,	12680, 12827,
\@HRTL@RTLfootnotetext	21514, 21551, 21554	12974, 13121,
.... 11752, 11769	\@@math 9914	13268, 13457, 13507
\@HRTL@mpRTLfootnotetext	\@@mix 24271, 24314	\@LTRfootnotetext 65,
.... 11755, 11775	\@@mod . 24272, 24276,	82, 156, 157,
\@LTR 18733,	24277, 24280,	158, 278, 296,
18735, 24444, 24446	24281, 24282,	2395, 2399, 2454,
\@LaTeX .. 24449, 24450	24285, 24315,	4866, 4988, 8230,
\@LaTeXe . 24451, 24452	24319, 24320,	8313, 8320, 9036,
\@RTL 18732,	24323, 24324,	9047, 9253, 9267,
18735, 24443, 24446	24325, 24328, 24347	10890, 10891,
\@Radio .. 16433, 16441	\@@par 16990,	11751, 11766,
\@TeX 18736,	18881, 19474,	11767, 11837,
18737, 24447, 24448	19517, 20033,	11888, 11896,
\@XeLaTeX 25301, 25302	20044, 20762,	12089, 12236,
\@XeTeX .. 25299, 25300	20774, 21525,	12377, 12524,
\@array 435	21537, 22583,	12671, 12818,
\@author .. 8801, 8804, 8807	22585, 24575, 24688	12965, 13112,
\@bidi@pop	\@@protect 5993	13259, 13444,
... 6704, 6707,	\@@scalebox	13500, 14486,
6708, 6711, 6713	18791, 18807, 18808	14492, 14536,
\@bidi@popinto ...	\@@startpbox 16806,	14562, 14623,
.. 6704, 6707, 6708	22339, 22377, 24682	14648, 14654,
\@clr . 24272, 24277,	\@@title 8800, 8803, 8806	15898, 15926,
24280, 24282,	\@@tmp 24276,	16005, 16024,
24283, 24285,	24277, 24282,	16218, 16222,
24315, 24320,	24283, 24285,	16242, 16243,
24323, 24325,	24286, 24319,	16887, 17048,
24326, 24328, 24347	24320, 24325,	18175, 18177,
\@cls 24267, 24310	24326, 24328,	18178, 19984,
\@date 8802, 8805, 8808	24329, 24347, 24348	19990, 20426,
		20713, 20719,



21177, 21476,	\@Mi 9914, 16902	12991, 13001,
21482, 21932,	\@Mii 4941,	13049, 13062,
22408, 22425, 22517	7864, 7908, 7952,	13138, 13148,
\@LTRmarginparfalse	10578, 10590,	13196, 13209,
. . . . 25010, 25012	10603, 24881, 24925	13285, 13295,
\@LTRmarginparreset	\@Miii 4943,	13343, 13356,
. . . . 24909, 24916	7866, 7910,	13664, 13689,
\@LTRmarginpartrue	7954, 24883, 24927	13876, 14504,
. 25011	\@RTL@footnotefalse	14537, 14583,
\@LTRsavemarbox . . .	. . 4127, 14329,	14598, 16488,
. 24896,	14496, 18716,	16703, 16726,
24897, 24900, 24903	18721, 24411, 24432	16730, 16737,
\@LTRxmpar 24894, 24895	\@RTL@footnotetrue	16746, 16981,
\@LTRYmpar 24894, 24899	. . 4126, 14329,	17789, 18297,
\@M 6, 93,	14495, 18718,	18474, 18678,
106, 212, 236,	18720, 24421, 24431	18712, 18716,
307, 669, 670,	\@RTLibibitemfalse	18721, 18774,
694, 799, 922,	. . . . 24509, 24510	19035, 19429,
977, 978, 1052,	\@RTLibibitemstrue 24508	19625, 19832,
1172, 1173, 1179,	\@RTLibiditufte sidenote@sidenote	20364, 21115,
1303, 4793, 4798,	. . 8330, 8361, 8365	21870, 22645,
5334, 5335, 8532,	\@RTLibiditufte sidenotemarginparreset	24369, 24404,
9293, 9294, 9300,	. . . . . 7980, 7987	24411, 24432,
9415, 9471, 9472,	\@RTLibiditufte sidenotesavemarbox	24590, 24608,
9478, 9593, 9643,	. . . . . 7967,	25007, 25078, 25094
9841, 9849, 9918,	7968, 7971, 7974	\@RTLfootnotetext 49,
11666, 11675,	\@RTLibiditufte sidenotexmpar	81, 160, 161,
12073, 12076,	. . . . . 7965, 7966	162, 263, 295,
13852, 13860,	\@RTLibiditufte sidenoteympar	2394, 2398, 2428,
14174, 16493,	. . . . . 7965, 7970	4867, 4989, 8248,
16507, 16532,	\@RTLfalse 37,	8342, 8349, 9037,
18036, 18048,	67, 88, 251, 280,	9048, 9254, 9268,
18060, 18821,	302, 619, 754,	10911, 10912,
18943, 18944,	1019, 1270, 1981,	11752, 11768,
18968, 19079,	2296, 2330, 2349,	11769, 11823,
19218, 19341,	2381, 2666, 4101,	11889, 11897,
19394, 19395,	4108, 4115, 5236,	12090, 12237,
19457, 19458,	9361, 9551, 9864,	12378, 12525,
19816, 19824,	9884, 9896, 9909,	12672, 12819,
22433, 22569,	11417, 11689,	12966, 13113,
22610, 22749,	11811, 11839,	13260, 13445,
22780, 22803,	11854, 11866,	13501, 14477,
22820, 22837,	12115, 12125,	14483, 14520,
22854, 22871,	12173, 12186,	14561, 14624,
22888, 22906,	12262, 12271,	14663, 14669,
22925, 22945,	12317, 12329,	15897, 15915,
22980, 23363,	12403, 12413,	15990, 16025,
23893, 24007, 24713	12461, 12474,	16217, 16221,
\@MM . 42, 56, 72, 256,	12550, 12560,	16239, 16240,
270, 285, 10888,	12608, 12621,	16888, 17049,
10909, 10956,	12697, 12707,	18180, 18182,
10963, 11008,	12755, 12768,	18183, 19985,
11015, 11979,	12844, 12854,	19994, 20427,
14509, 14526, 14542	12902, 12915,	20714, 20723,



21178, 21477,	13369, 13653,	14284, 14286,
21486, 21933,	13680, 13876,	14288, 14289,
22409, 22426, 22518	14504, 14521,	14290, 14291,
\@RTLmainfalse 4269,	14568, 14598,	14292, 16545,
4273, 4493, 4497	16488, 16703,	16546, 16547,
\@RTLmaintrue 4272, 4496	16726, 16737,	16548, 16763,
\@RTLMarginparfalse	16746, 16984,	17676, 17678,
.... 25011, 25012	17789, 18297,	17680, 17682,
\@RTLMarginparreset	18679, 18704,	17684, 17685,
.... 24953, 24960	18718, 18720,	17687, 17688,
\@RTLMarginpartrue	19035, 19429,	17689, 18340,
..... 25010	19625, 19832,	18348, 18350,
\@RTLSavemabox ...	20364, 21115,	19050, 19051,
..... 24940,	21870, 22645,	19052, 19053,
24941, 24944, 24947	24370, 24395,	19054, 19056,
\@RTLtabfalse .. 456,	24421, 24431,	19058, 19060,
4121, 4250,	24599, 24617,	19415, 19416,
18360, 24405,	25007, 25078, 25094	19417, 19418,
24411, 24432,	\@RTLxmpar 24938, 24939	19419, 19421,
24590, 24608, 24693	\@RTLympar 24938, 24943	19423, 19425,
\@RTLtabtrue	\@Reset ... 16466, 16475	19612, 19614,
... 4120, 4249,	\@SepMark ... 19, 20,	19616, 19617,
24396, 24421,	21, 22, 169, 199,	19618, 19619,
24431, 24478,	225, 226, 227,	19620, 19621,
24485, 24599, 24617	228, 346, 362,	19797, 19799,
\@RTLtrue	597, 598, 599,	19801, 19803,
37,	600, 747, 748,	19804, 19805,
51, 88, 251, 265,	749, 750, 1002,	19806, 19807,
302, 619, 754,	1003, 1004, 1005,	20338, 20339,
1019, 1270, 2296,	1263, 1264, 1265,	20341, 20343,
2313, 2349, 2365,	1266, 9388, 9389,	20345, 21067,
2666, 4100, 4107,	9390, 9391, 9392,	21070, 21072,
4114, 5236, 9361,	9394, 9396, 9398,	21076, 21078,
9551, 9864, 9923,	9566, 9567, 9568,	21080, 21082,
9925, 11417,	9569, 9570, 9572,	21085, 21088,
11689, 11811,	9574, 9576, 9820,	21092, 21094,
11825, 11854,	9822, 9824, 9826,	21830, 21832,
11878, 12115,	9827, 9828, 9829,	21835, 21837,
12135, 12173,	9830, 11529,	21839, 21841,
12199, 12262,	11530, 11531,	21844, 21847,
12280, 12317,	11532, 11645,	21850, 22723,
12341, 12403,	11647, 11649,	22967, 24505, 24507
12423, 12461,	11651, 11652,	\@Submit .. 16449, 16458
12487, 12550,	11653, 11654,	\@TextField . 15552,
12570, 12608,	11655, 13979,	15560, 16417, 16425
12634, 12697,	13980, 13981,	\@True . 9897, 9903, 9935
12717, 12755,	13982, 13983,	\@Undottedtocline 18043
12781, 12844,	13985, 13987,	\@Undottedtoclinep
12864, 12902,	13989, 14140,	..... 18055
12928, 12991,	14147, 14269,	\@acci 14890, 16992, 18883
13011, 13049,	14271, 14273,	\@accii
13075, 13138,	14275, 14276,	14890, 16992, 18883
13158, 13196,	14277, 14278,	\@acciii
13222, 13285,	14279, 14282,	14890, 16992, 18883
13305, 13343,		



<code>\@acol</code>	1487, 1495, 4875, 16803, 22323, 24487, 24665, 24691	9569, 9570, 9572, 9574, 9576, 9820, 9822, 9824, 9825, 9826, 9827, 9828, 9829, 9830, 9866, 9873, 11419, 11426, 11529, 11530, 11531, 11532, 11645, 11647, 11649, 11650, 11651, 11652, 11653, 11654, 11655, 11691, 11698, 13878, 13885, 13979, 13980, 13981, 13982, 13983, 13985, 13987, 13989, 14269, 14271, 14273, 14274, 14275, 14276, 14277, 14278, 14279, 14282, 14284, 14286, 14287, 14288, 14289, 14290, 14291, 14292, 16763, 16765, 17676, 17678, 17680, 17682, 17684, 17687, 17688, 17689, 19037, 19044, 19050, 19051, 19052, 19053, 19054, 19056, 19058, 19060, 19415, 19416, 19417, 19418, 19419, 19421, 19423, 19425, 19431, 19438, 19612, 19614, 19616, 19617, 19618, 19619, 19620, 19621, 19627, 19634, 19797, 19799, 19801, 19802, 19803, 19804, 19805, 19806, 19807, 19834, 19841, 20339,	20341, 20343, 20345, 20367, 20383, 21074, 21076, 21078, 21080, 21082, 21085, 21088, 21096, 21118, 21134, 21833, 21835, 21837, 21839, 21841, 21844, 21847, 21851, 21873, 21889, 22647, 22654
<code>\@acolampacol</code> .	1485, 1487, 1493, 1495		
<code>\@addamp</code>	1486, 1494		
<code>\@addfield</code>	25016		
<code>\@addmarginpar</code> . .	24966		
<code>\@address</code>	5128, 10745, 10746, 10843, 10845		
<code>\@addresscolour</code>	5097, 5114, 10744, 10842		
<code>\@adddtopreamble</code>	1458, 1521, 9996		
<code>\@addtoreset</code>	344, 14144, 18338, 18344, 18346		
<code>\@addviper</code>	10341		
<code>\@afterheading</code>	4776, 4786, 17004		
<code>\@afterindentfalse</code>	4776, 4786, 17003		
<code>\@afterindenttrue</code>	694, 922, 1179, 8531, 9300, 9478, 18035, 18047, 18059, 18968, 19341, 22748, 22779, 22802, 22819, 22836, 22853, 22870, 22887, 22905, 22924, 22944, 22979, 23362, 23886, 24006, 24712		
<code>\@algocf@finish</code>	180		
<code>\@algocf@start</code>	172		
<code>\@ampacol</code>	1485, 1493		
<code>\@arabic</code>	169, 597, 598, 599, 600, 621, 628, 747, 748, 749, 750, 756, 763, 1002, 1003, 1004, 1005, 1021, 1028, 1263, 1264, 1265, 1266, 1272, 1279, 2668, 2677, 5248, 9363, 9370, 9388, 9389, 9390, 9391, 9392, 9394, 9396, 9398, 9553, 9560, 9566, 9567, 9568,		
<code>\@argdef</code>	5953		
<code>\@array</code>	403, 435, 1420, 1421, 22360, 24671		
<code>\@arrayacol</code>	24691		
<code>\@arrayclassiv</code>	24692		
<code>\@arrayclassz</code>	1485, 22364, 24691		
<code>\@arraycr</code>	430, 16812, 24693		
<code>\@arrayleft</code>	423		
<code>\@arrayparboxrestore</code>	2012, 16890, 18878		
<code>\@arrayright</code>	445		
<code>\@arrayrule</code>	1440, 1441, 1442, 1478, 1479, 1480		
<code>\@arstdepth</code>	22357, 22362, 22380		
<code>\@arstheight</code>	22362, 22380		
<code>\@arstrut</code>	417, 16828, 22338, 24681		
<code>\@arstrutbox</code>	406, 16814, 16892, 22331, 22372, 22376, 22380, 24674		
<code>\@author</code>	478, 492, 528, 549, 810, 812, 830, 875, 894, 1063, 1065, 1083, 1128, 1147, 1314, 1316, 1334, 1379, 1399, 1410, 4629, 8733, 8735, 8804, 9426, 9428, 9446, 9604, 9606, 9624, 9699, 9713, 9749, 9770, 11456, 11468, 11502, 11521, 11551, 11565, 11601,		



11622, 13906,	.. 6491, 6492, 6493	6596, 6600, 6601
13918, 13952,	\@bidi@after@Hy@hyperfootnote .. 6539, 6542, 6543	
13971, 17645,	.. 11760, 11901,	
19090, 19092,	12102, 12249,	\@bidi@info .. 4207,
19110, 19155,	12390, 12537,	4234, 4235,
19174, 19229,	12684, 12831,	4449, 4475, 4476
19231, 19251,	12978, 13125,	\@bidi@inslogo@ 4178,
19298, 19320,	13272, 13462, 13516	4179, 4288,
19331, 19488,	\@bidi@append@to@cslist	4512, 4552, 4553
19502, 19543,	.. 6638, 6642, 6652	\@bidi@list@minipage@parbox@not@nobtrue
19564, 19676,	\@bidi@append@to@list	.... 14612, 24563
19690, 19726,	... 6642, 6645,	\@bidi@list@minipage@parbox@false
19747, 20167,	6648, 6655, 6663	..... 1976, 22527
20311, 20897,	\@bidi@banner@false 4087	\@bidi@list@minipage@parbox@true
21041, 21660, 21804	\@bidi@banner@true 4086	14613, 24567, 24570
\@cauxout .. 4164,	\@bidi@before@Hy@hyperfootnote .. 4304,	\@bidi@logo .. 4304,
4168, 5318, 5729,	.. 11746, 11894,	4333, 4520, 4551
5757, 5783, 5811,	12087, 12234,	\@bidi@logo@ . 4179,
5837, 5840, 5874,	12375, 12522,	4288, 4330,
5877, 9200, 24757	12669, 12816,	4512, 4551, 4553
\@badmath . 14105, 14119	12963, 13110,	\@bidi@logo@hb@xt@
\@begin@tempboxa ..	13257, 13442, 13494	..... 4513, 4551
..... 15166,	\@bidi@copy@stacktop	\@bidi@logo@hb@xt@columnwidth
15262, 15269, 24575	..... 6710, 6713	..... 4289, 4331
\@begin@dvi 14172, 25069	\@bidi@copy@ins@ 4284,	\@bidi@lst@makecaption
\@begin@parpenalty .	4285, 4286, 4287,	..... 16700,
..... 4789,	4288, 4508, 4509,	16716, 16717,
4798, 14108, 14122	4510, 4511, 4512,	16748, 16749,
\@bib@break	11969, 14918,	16750, 16754, 16756
20359, 21110, 21865	14919, 14920,	\@bidi@mdf@RTLtrue
\@biblabel . 90, 304,	14921, 14931,	..... 16980
621, 622, 756,	14932, 14980,	\@bidi@orig@XeLaTeX
757, 1021, 1022,	14981, 15037,	.... 24470, 24471
1272, 1273, 2668,	15038, 15039,	\@bidi@orig@XeTeX .
2669, 9363, 9364,	15040, 15057,	.... 24463, 24464
9553, 9554, 9866,	15058, 15076,	\@bidi@pdf@banner@false
9867, 11419,	15085, 15097,	..... 4094
11420, 11691,	15103, 15107,	\@bidi@pdf@banner@true
11692, 13878,	15119, 15121,	..... 4093
13879, 16490,	15124, 15155,	\@bidi@pdf@creator .
18299, 19037,	18206, 18207,	... 4258, 4409,
19038, 19431,	18215, 18745,	4435, 4554, 4568
19432, 19627,	18747, 18748,	\@bidi@pdf@custom@properties
19628, 19834,	24866, 24869, 24872	... 4264, 4411,
19835, 20367,	\@bidi@empty@toks ..	4422, 4560, 4571
20369, 21118,	.. 5384, 5389, 5413	\@bidi@pdf@encrypt@false
21120, 21873,	\@bidi@env@body 5383,	..... 4388
21875, 22647, 22648	5385, 5387, 5388,	\@bidi@pdf@encrypt@true
\@bib@setup	5389, 5409,	..... 4390, 4393
18299	5411, 5412, 5413	\@bidi@pdf@m@mark@false
\@bib@title@style ...	\@bidi@fi 6572, 6573,	..... 4186, 4576
... 85, 299, 16485	6574, 6575, 6579,	\@bidi@pdf@m@mark@true
\@bidi@st@pelt	6580, 6584, 6585,	..... 4185, 4575
.. 6426, 6432, 6436	6589, 6590, 6595,	
\@bidi@Equal@StringX		



\@bidityftesidenote@RTLside@font	7998, 8007	\@bidityftesidenote@sidenote@verticaloffset	8051, 8059, 20513, 20515
\@bidityftesidenote@add@citation	8137, 8170	\@bidityftesidenote@trim@b	8276, 8278, 8284, 20516, 20590
\@bidityftesidenote@check@multiple@sidenotes	8195, 8203	\@bidityftesidenote@trim@c	8291, 8305, 8307, 20592, 21260
\@bidityftesidenote@citation@font	8002, 8011, 8083, 8121, 8149	\@bidityftesidenote@trim@spaces	8313, 8320, 8334, 21264, 21266
\@bidityftesidenote@citation@justification	8016, 8150	\@bidityftesidenote@margin@par@reset	8336, 8342, 8349, 21267, 21342
\@bidityftesidenote@ citations	8136, 8138, 8139, 8141, 8146, 8155, 8274, 8303, 8332, 8371, 8380, 8389	\@bidityftesidenotes@save@margin@par@reset	8047, 8054, 21344, 22015, 22019, 22021, 22022, 22097, 22099
\@bidityftesidenote@info@note@cite	8169, 8273, 8302, 8331, 8370, 8379, 8388	\@bidityftesidenotes@save@margin@par@reset	8051, 8054, 8059, 10923, 10980, 13720, 13721, 13749, 13759, 15052, 15064, 15098, 15101, 15102, 15112, 15113, 16906, 16912, 16925, 16927, 18739
\@bidityftesidenote@justification@autodetect	8014, 8015, 8016, 8017	\@bidityftesidenotes@save@margin@par@reset	7879, 7880, 7883, 7886, 13470, 13472, 13522, 13524
\@bidityftesidenote@margin@par	8018, 8151, 8218, 8236, 8254, 8372, 8381, 8390	\@bidityftesidenotes@save@margin@par@reset	7877, 7878, 7882, 18829, 18842, 18855, 22562, 22591, 24626
\@bidityftesidenote@margin@font	7993, 7996, 7999, 8002	\@bidityftesidenotes@save@margin@par@reset	8524, 8540, 22753, 22784, 22807, 22824, 22841, 22858, 22875, 22892, 22910, 22929, 22949, 22984
\@bidityftesidenote@margin@note@font	7999, 8008, 8372	\@bidityftesidenotes@save@margin@par@reset	8400, 8401, 22754, 22785, 22808, 22825, 22842, 22859, 22876, 22893, 22911, 22930, 22950, 22985
\@bidityftesidenote@margin@note@justification	8015, 8372, 8381, 8390	\@bidityftesidenotes@save@margin@par@reset	10048, 10049, 24307, 24308, 24347, 17668, 17649, 17637, 17637, 22989, 22911, 22930, 22950, 22985
\@bidityftesidenote@normal@cite	8077, 8174, 8294, 8323, 8352, 8374, 8383, 8392	\@bidityftesidenotes@save@margin@par@reset	17668, 17668, 17637, 17637, 22989, 22911, 22930, 22950, 22985
\@bidityftesidenote@print@ citations	8143, 8293, 8322, 8351, 8373, 8382, 8391	\@bidityftesidenotes@save@margin@par@reset	17668, 17668, 17637, 17637, 22989, 22911, 22930, 22950, 22985
\@bidityftesidenote@sidenote	8272, 8359, 8363	\@bidityftesidenotes@save@margin@par@reset	17668, 17668, 17637, 17637, 22989, 22911, 22930, 22950, 22985
\@bidityftesidenote@sidenote@ citations	8168	\@bidityftesidenotes@save@margin@par@reset	17668, 17668, 17637, 17637, 22989, 22911, 22930, 22950, 22985
\@bidityftesidenote@sidenote@font	7996, 8005, 8181, 8182, 8185	\@bidityftesidenotes@save@margin@par@reset	17668, 17668, 17637, 17637, 22989, 22911, 22930, 22950, 22985
\@bidityftesidenote@sidenote@justification	8014, 8181, 8182	\@bidityftesidenotes@save@margin@par@reset	17668, 17668, 17637, 17637, 22989, 22911, 22930, 22950, 22985



387, 1427, 1439,	17945, 17946,	17725, 17731, 17735
1452, 1472, 1477,	17947, 17951,	\@contfmark 17706, 17709
22461, 22477,	20096, 20113,	\@contfnote 17705, 17708
22488, 24694, 24699	20826, 20843,	\@contindw 17730
\@checkend .. 5402, 5426	21589, 21606, 25103	\@contnfont
\@chnum ... 365, 372,	\@colourfalse 5040	. 17707, 17718,
383, 453, 1428,	\@colourgreenfalse	17722, 17729, 17734
1435, 1448, 1458,	.... 10663, 10761	\@contpost 17739
1474, 1475, 1476,	\@colourgreentrue .	\@contpre ... 17717,
1489, 1497, 1523,	.... 10664, 10762	17723, 17728, 17733
9998, 22462,	\@colourgreyfalse .	\@conttfont
22469, 22484,	.... 10667, 10765	. 17707, 17719,
24696, 24697, 24698	\@colourgreytrue ..	17725, 17731, 17735
\@circlefnt 14008	.... 10668, 10766	\@curfield ... 9216,
\@classiv 4877,	\@colourorangefalse	9231, 9251,
16804, 22325,	.... 10661, 10759	9265, 9275, 25016
24489, 24667, 24692	\@colourorangetrue	\@curline 9214,
\@classx 1455, 1514, 9992	.... 10662, 10760	9229, 25016, 25018
\@classz . 1455, 1514,	\@colourredfalse ..	\@currbox 4948,
1548, 1549, 4876,	.... 10665, 10763	4979, 4983, 7828,
9992, 16804,	\@colourredtrue ...	7831, 7872, 7875,
22324, 22364,	.... 10666, 10764	7880, 7884, 7916,
24488, 24666, 24691	\@colourtrue 5039	7919, 7924, 7928,
\@cleartopmattertags	\@colroom ... 10623,	7960, 7963, 7968,
..... 130, 16568	10626, 10628,	7972, 13774,
\@cliptoboxdim .. 22491	10629, 10923,	24889, 24892,
\@clsextension 6901,	10980, 15030,	24897, 24901,
6907, 6925,	15044, 15047,	24933, 24936,
7140, 7143, 7152	15049, 16915,	24941, 24945,
\@clubpenalty	16933, 20097,	24967, 24976, 25008
.... 631, 2681,	20114, 20827,	\@currentHlabel ...
9876, 11701,	20844, 21590, 21607	15983, 15998, 16013
19637, 19844, 22657	\@combinedblfloats	\@currentHref 15984,
\@colht .....	. 10263, 10322,	15999, 16014,
10378, 10379,	14058, 14094,	16073, 16111,
10463, 10464,	14176, 14963,	16144, 16175,
10480, 10596,	15016, 17876,	16206, 16773, 16777
10611, 10612,	17973, 24806, 24849	\@currentlabel .. 44,
10622, 10623,	\@combinefloats ...	58, 74, 258, 272,
10630, 10646,	.... 13705, 15132	287, 2304, 2321,
10650, 13710,	\@compactenum@ ... 8587	2338, 2354, 2370,
14195, 15030,	\@cons 24966, 24967	2386, 8220, 8238,
15042, 15043,	\@contcshortstyle 17719	8256, 11817,
15044, 15046,	\@contcstyle	11831, 11845,
15048, 15136,	17724, 17730, 17735	11858, 11870,
17812, 17815,	\@contcwidth	11882, 12119,
17817, 17819,	.... 17713, 17714	12129, 12139,
17824, 17825,	\@contdelim	12177, 12190,
17826, 17845,	. 17707, 17718,	12203, 12266,
17846, 17847,	17722, 17729, 17734	12275, 12284,
17851, 17912,	\@contfield	12321, 12333,
17915, 17917,	.. 9217, 9232, 9264	12345, 12407,
17919, 17924,	\@contfinal	12417, 12427,
17925, 17926,	. 17707, 17719,	12465, 12478,



12491,	12554,	11625,	11710,	\@dottedtocline ...
12564,	12574,	11715,	13909,	. 24019, 24020,
12612,	12625,	13919,	13953,	24022, 24040, 24708
12638,	12701,	13974,	16577,	\@dseries 9909
12711,	12721,	16582,	17646,	\@eha 5379, 22971
12759,	12772,	19098,	19100,	\@ehc 5499,
12785,	12848,	19112,	19157,	5501, 5507, 5509,
12858,	12868,	19177,	19237,	5515, 5517, 5523,
12906,	12919,	19239,	19253,	5525, 5969, 6835,
12932,	12995,	19300,	19323,	16669, 16676,
13005,	13015,	19332,	19491,	16904, 18018, 18024
13053,	13066,	19503,	19544,	\@ehd 17765
13079,	13142,	19566,	19679,	\@eightcol@LTRfootgroupv@l
13152,	13162,	19691,	19727,	..... 12974
13200,	13213,	19750,	20172,	\@eightcol@footgroupv@r
13226,	13289,	20312,	20902,	..... 12970
13299,	13309,	21042, 21665, 21805		\@eightcolLTRfootfmt
13347,	13360,	\@dblarg 17771		13008, 13029, 13069
13373,	13554,	\@dblfloatplacement		\@eightcolLTRfootnotetext
13566,	13578,	. 10267, 10326,		.... 12965, 13001
13615,	13629,	14059, 14098,		\@eightcolRTLfootfmt
13643,	14511,	14183, 14967,		13018, 13032, 13082
14528,	14544,	15020, 17880,		\@eightcolRTLfootnotetext
14573, 14588, 14603		17977, 24810, 24853		.... 12966, 13011
\@currentlabelname		\@declaredcolor ...		\@eightcolfootfmt .
..... 15985,		..... 10033,		12998, 13026, 13056
16000, 16015,		10034, 24264, 24287		\@eightcolfootnotetext
16074, 16112,		\@dedication .....		.... 12964, 12985
16145, 16176, 16207		. 20214, 20217,		\@elt 5529, 5532,
\@currenvir .. 5388,		20322, 20944,		7716, 7717, 7718,
5391, 5392, 5412,		20947, 21052,		7719, 7720, 7721,
5415, 5416, 5443		21707, 21710, 21815		7722, 7723, 7724,
\@currentxt ... 23177,		\@dedicatory 335		7725, 7726, 7727,
23289, 23347, 23357		\@deferlist 15028		7757, 7758, 7759,
\@currlist 24966		\@depth .. 408, 16816,		7760, 7761, 7762,
\@curtabmar 25015, 25018		22304, 22333,		7763, 7764, 7765,
\@cvtheme ... 5120, 5123		22373, 24676, 25005		7766, 7767, 7768,
\@cvthemeoptions ..		\@dgroup 9896		7769, 7770, 7771,
..... 5121, 5123		\@dischyph		7772, 7773, 7774,
\@date 481, 493,		14889, 16991, 18882		9935, 10889,
529, 552, 818,		\@displaypagenumbersfalse		10910, 10916,
820, 832, 877,		..... 5219		10951, 10953,
897, 1071, 1073,		\@displaypagenumberstrue		10955, 10961,
1085, 1130, 1150,		..... 5218		10973, 11003,
1322, 1324, 1336,		\@dmath 9884, 9913		11005, 11007,
1381, 1402, 1411,		\@doclearpage ... 13789		11013, 22392, 22394
4630, 8751, 8805,		\@docolbox 14249		\@email 5132, 10751, 10849
9434, 9436, 9448,		\@dodynamictfoot		\@empty 87,
9612, 9614, 9626,		..... 14173		116, 135, 137,
9702, 9714, 9750,		\@dodynamicthead		301, 430, 491,
9773, 11459,		..... 14173		492, 493, 494,
11469, 11503,		\@dotsep 23904,		527, 528, 529,
11524, 11554,		23905, 24013, 24719		530, 627, 762,
11566, 11602,				829, 830, 831,



832,	874,	875,	16015,	16074,	20862,	20863,
876,	877,	1027,	16112,	16145,	20870,	20878,
1082,	1083,	1084,	16176,	16207,	20885,	20891,
1085,	1127,	1128,	16487,	16554,	20907,	20913,
1129,	1130,	1278,	16575,	16721,	20926,	20929,
1333,	1334,	1335,	16727,	16750,	20936,	20944,
1336,	1378,	1379,	16754,	16756,	20949,	20964,
1380,	1381,	2033,	16835,	16877,	20971,	20986,
2034,	2413,	2439,	17643,	17644,	20987,	20991,
2465,	2676,	3122,	17645,	17646,	20992,	21000,
3128,	3134,	3212,	17805,	17905,	21001,	21005,
3614,	3761,	3857,	18326,	19043,	21006,	21015,
3952,	4179,	4553,	19109,	19110,	21016,	21020,
4628,	4629,	4630,	19111,	19112,	21021,	21029,
4631,	4935,	5247,	19154,	19155,	21030,	21040,
5256,	5400,	5424,	19156,	19157,	21041,	21042,
6665,	8079,	8098,	19250,	19251,	21043,	21044,
8117,	8138,	8145,	19252,	19253,	21045,	21046,
8733,	8800,	8801,	19297,	19298,	21047,	21048,
8802,	9369,	9445,	19299,	19300,	21049,	21050,
9446,	9447,	9448,	19437,	19501,	21051,	21052,
9559,	9623,	9624,	19502,	19503,	21102,	21133,
9625,	9626,	9712,	19504,	19542,	21158,	21159,
9713,	9714,	9715,	19543,	19544,	21264,	21524,
9748,	9749,	9750,	19545,	19633,	21625,	21626,
9751,	9872,	9899,	19689,	19690,	21633,	21641,
10231,	10294,		19691,	19692,	21648,	21654,
10950,	11002,		19725,	19726,	21670,	21676,
11425,	11467,		19727,	19728,	21689,	21692,
11468,	11469,		19840,	20032,	21699,	21707,
11470,	11501,		20132,	20133,	21712,	21727,
11502,	11503,		20140,	20148,	21734,	21749,
11504,	11564,		20155,	20161,	21750,	21754,
11565,	11566,		20177,	20183,	21755,	21763,
11567,	11600,		20196,	20199,	21764,	21768,
11601,	11602,		20206,	20214,	21769,	21778,
11603,	11697,		20219,	20234,	21779,	21783,
11708,	11724,		20241,	20256,	21784,	21792,
11728,	13550,		20257,	20261,	21793,	21803,
13562,	13574,		20262,	20270,	21804,	21805,
13611,	13625,		20271,	20275,	21806,	21807,
13639,	13704,		20276,	20285,	21808,	21809,
13884,	13917,		20286,	20290,	21810,	21811,
13918,	13919,		20291,	20299,	21812,	21813,
13920,	13951,		20300,	20310,	21814,	21815,
13952,	13953,		20311,	20312,	21857,	21888,
13954,	14038,		20313,	20314,	21913,	21914,
14074,	14659,		20315,	20316,	22019,	22262,
14741,	14941,		20317,	20318,	22379,	22427,
14990,	15028,		20319,	20320,	22653,	22957,
15131,	15146,		20321,	20322,	22959,	23312,
15147,	15148,		20352,	20382,	23318,	23785,
15149,	15150,		20407,	20408,	24267,	24270,
15985,	16000,		20513,	20761,	24310,	24313,



24476, 24684,	\@extratitle	\@firstcoltopmark .
24693, 24782,	. 20132, 20139,	. . . . . 10228,
24829, 25055,	20256, 20262,	10236, 10291,
25056, 25058, 25059	20270, 20276,	10299, 14035,
\@emptycol . . 10615,	20285, 20291,	14043, 14071,
10618, 10634, 10637	20315, 20862,	14079, 14938,
\@emptytoks 9898	20869, 20986,	14946, 14987,
\@end@tempboxa 15173,	20992, 21000,	14995, 17802,
15267, 15284, 24588	21006, 21015,	17810, 17902,
\@endfloatbox 5000	21021, 21045,	17910, 24779,
\@endmodernpoem . . .	21625, 21632,	24787, 24826, 24834
. 9227, 9247	21749, 21755,	\@firstcolumnfalse
\@endparenv	21763, 21769,	. . . . . 10221,
. . . 9137, 9244,	21778, 21784, 21808	10284, 10654,
18381, 18401, 22557	\@familyname . 5065,	14029, 14065,
\@endparpenalty 4793,	5067, 5068, 5126,	14190, 14927,
4802, 14109, 14123	10726, 10816, 10837	14976, 17795,
\@endpbox 1465, 1466,	\@familynamecolour	17895, 24772, 24819
1507, 1531, 1532,	. . . . . 5095, 5112	\@firstcolumntrue .
1533, 10006,	\@fax . 5131, 10750, 10848	. . . . . 10239,
10007, 10008,	\@fcolmadefalse . 15029	10302, 10609,
16801, 16807,	\@ff@do@allframes .	14045, 14082,
22339, 22377, 24682	. . . . 14175, 14180	14154, 14951,
\@endpetrue 24420, 24430	\@ff@fbox 14258	15000, 17854,
\@endtraditionalpoem	\@ff@setoffset . . 14255	17954, 24790, 24837
. 9118, 9183	\@ffbackground . . 14245	\@firstdetailselementfalse
\@ensure@LR 18729, 24440	\@filebordercolor .	. . . . . 10831
\@ensure@LTR 18727,	. . . . 16286, 16288	\@firstdetailselementtrue
18729, 18737,	\@filecolor 16304	. . . . . 10828
24438, 24440,	\@finalstrut . 2308,	\@firstfooterelementfalse
24448, 24450,	2325, 2342, 2358,	. . . . . 10747,
24452, 25300, 25302	2374, 2390,	10748, 10749,
\@ensure@RL 18728, 24439	11795, 11801,	10750, 10751, 10752
\@ensure@RTL 18726,	11807, 14516,	\@firstfooterelementtrue
18728, 24437, 24439	14533, 14549,	. . . . . 10732
\@ensure@dir 18730,	14577, 14592, 14607	\@firstname . . 5065,
18731, 24441, 24442	\@firststampfalse . . .	5067, 5068, 5125,
\@ensure@maindir . .	. . . . . 1487, 1495	10726, 10816, 10837
. . . . 18731, 24442	\@firstcolfirstmark	\@firstnamecolour .
\@enumctr . . . . .	. . . . . 10230,	. . . . . 5094, 5111
. . 2614, 8588, 8589	10231, 10235,	\@firstofone . 6298,
\@eqnum	10293, 10294,	6305, 6313, 6324,
14130, 16571, 25124	10298, 14037,	6338, 6344, 6354,
\@evenfoot 2195, 2236,	14038, 14042,	6360, 7170,
4592, 14166, 25048	14073, 14074,	7178, 14203,
\@evenhead . . . 2194,	14078, 14940,	14221, 14225,
2236, 14165, 25048	14941, 14945,	14228, 14231,
\@extrafootnotefeaturesfalse	14989, 14990,	14237, 16410,
. 4149	14994, 17804,	16411, 16412,
\@extrafootnotefeaturestrue	17805, 17809,	16413, 17769,
. 4148	17904, 17905,	20482, 21233,
\@extrainfo	17909, 24781,	21988, 25030,
5133, 10752, 10850	24782, 24786,	25072, 25084,
	24828, 24829, 24833	25087, 25089,



25096, 25100, 25106	11576, 13929,	21931, 22407,
\@firstoftwo . 5538,	19073, 19132,	22424, 22514, 22516
5546, 5550, 5558,	19212, 19273,	\@footstartv@l 11968,
5562, 5570, 5576,	19470, 19513,	12029, 13458, 13508
5580, 5598, 5612,	19701, 20129,	\@footstartv@r
5620, 5628, 5636,	20250, 20859,	11967, 12028, 13452
5642, 5646, 5654,	20980, 21622, 21743	\@for 8080,
5660, 5663, 5666,	\@footgroupv@r 11967,	8085, 8099, 8104,
5680, 5687, 6078,	12065, 12094,	8118, 8123, 8146,
6096, 6102, 6126,	12241, 12382,	8155, 10199, 23316
6145, 6175,	12529, 12676,	\@fourcol@LTRfootgroupv@l
6238, 6248, 18307	12823, 12970,	. . . . . 12386
\@fivecol@LTRfootgroupv@l	13117, 13264, 13451	\@fourcol@footgroupv@r
. 12533	\@footnote 8682	. . . . . 12382
\@fivecol@footgroupv@r	\@footnotemark 2416,	\@fourcolLTRfootfmt
. 12529	2423, 2442, 2449,	12420, 12441, 12481
\@fivecolLTRfootfmt	2468, 2475, 4908,	\@fourcolLTRfootnotetext
12567, 12588, 12628	4916, 4924, 8191,	. . . . 12377, 12413
\@fivecolLTRfootnotetext	8284, 8291, 8313,	\@fourcolRTLfootfmt
. . . . 12524, 12560	8320, 8342, 8349,	12430, 12444, 12494
\@fivecolRTLfootfmt	9165, 9172, 9179,	\@fourcolRTLfootnotetext
12577, 12591, 12641	14477, 14483,	. . . . 12378, 12423
\@fivecolRTLfootnotetext	14486, 14492,	\@fourcolfootfmt . .
. . . . 12525, 12570	16026, 16215,	12410, 12438, 12468
\@fivecolfootfmt . .	16219, 16233, 16234	\@fourcolfootnotetext
12557, 12585, 12615	\@footnotetext . . 35,	. . . . 12376, 12397
\@fivecolfootnotetext	80, 152, 153,	\@fps 4929, 4930,
. . . . 12523, 12544	154, 249, 294,	4932, 4935, 4952
\@float 7462, 7791	2393, 2397, 2402,	\@fpsadddefault . . .
\@floatboxreset . . 4998	4865, 4987, 8212,	. . . . . 4933, 4936
\@floatpenalty	8284, 8291, 9035,	\@freelist 4948, 7716,
. . . 4941, 4943,	9046, 9252, 9266,	7757, 7872, 7873,
4946, 7864, 7866,	10869, 10870,	7916, 7917, 7960,
7870, 7874, 7908,	11750, 11764,	7961, 13703,
7910, 7914, 7918,	11765, 11809,	15130, 24889,
7952, 7954, 7958,	11887, 11895,	24890, 24933,
7962, 24881,	12088, 12235,	24934, 24966, 24967
24883, 24887,	12376, 12523,	\@frontispiece
24891, 24925,	12670, 12817,	. 20133, 20136,
24927, 24931, 24935	12964, 13111,	20140, 20143,
\@floatplacement 13795	13258, 13443,	20257, 20261,
\@fltovf 4981,	13496, 13498,	20271, 20275,
7875, 7919,	14503, 14560,	20286, 20290,
7963, 24892, 24936	14622, 15896,	20316, 20863,
\@flushglue	15904, 15975,	20866, 20870,
. . . 9020, 9021,	16023, 16216,	20873, 20987,
16997, 19600,	16220, 16236,	20991, 21001,
23365, 23369,	16237, 16886,	21005, 21016,
23373, 23419, 24626	17047, 18170,	21020, 21046,
\@fnsymbol 503,	18172, 18173,	21626, 21629,
793, 852, 1046,	19983, 19986,	21633, 21636,
1105, 1297, 1356,	20425, 20712,	21750, 21754,
4616, 9409, 9587,	20715, 21176,	21764, 21768,
9724, 11479,	21475, 21478,	21779, 21783, 21809



<code>\@fs@capt</code>	<code>\@height</code> . . 407, 1545,	7877, 7921, 7965,
.. 7805, 7818, 7826	10020, 10497,	10033, 10048,
<code>\@fs@cfont</code> . . . 7798,	14870, 16815,	14475, 14484,
7804, 7814, 7817,	16892, 17017,	14646, 14661,
7825, 14134, 14135	20069, 20077,	14679, 14685,
<code>\@fs@iftopcapt</code>	20799, 20807,	15239, 16223,
.. 7809, 7822, 7835	21562, 21570,	16247, 18185,
<code>\@fs@mid</code> 7808, 7821, 7833	22304, 22332,	18385, 18405,
<code>\@fs@post</code>	22373, 24675, 25005	24264, 24307,
.. 7807, 7820, 7834	<code>\@highpenalty</code>	24501, 24894, 24938
<code>\@fs@pre</code> 7806, 7819, 7827	... 9314, 9330,	<code>\@ifpackagelater</code> 14345
<code>\@g@tnextcol</code> . . . 14152	9337, 9347, 9492,	<code>\@ifpackageloaded</code> .
<code>\@getcirc</code> 14004	9508, 9515, 9525,	... 6936, 6966,
<code>\@gnewline</code> . . 18831,	9781, 9796, 9806,	7008, 7169, 7254,
18844, 18857, 18868	11632, 13816,	7258, 7784, 7789,
<code>\@gobble</code> . 4845, 5399,	13831, 13841,	7842, 11342, 11343
5423, 5445, 5450,	18982, 18998,	<code>\@ifpackagewith</code> 198,
6201, 6202, 6203,	19005, 19015,	202, 204, 206,
6204, 6205, 6300,	19355, 19371,	10176, 16641,
6315, 6330, 6376,	19378, 19388,	16644, 16647,
6390, 6402, 6414,	19572, 19586,	16654, 18916,
7295, 8855, 8920,	19596, 19758,	18919, 22236,
14213, 14214,	19773, 19783,	22247, 22254, 22665
14215, 17766,	22739, 22774,	<code>\@ifstar</code> 6063,
20424, 20425,	23163, 23187, 23275	7634, 11346,
20426, 20427,	<code>\@hintcolour</code> 5102, 5118	11902, 12107,
21175, 21176,	<code>\@holdpg</code> 10357, 10374,	12254, 12395,
21177, 21178,	10377, 10394,	12542, 12689,
21930, 21931,	10485, 10518, 10520	12836, 12983,
21932, 21933,	<code>\@hyper@launch</code> . . 16309	13130, 13277,
24271, 24314,	<code>\@idxitem</code> 103,	13490, 13541, 15242
25065, 25066, 25067	108, 233, 238,	<code>\@ifundefined</code> . . 342,
<code>\@gobbletwo</code>	650, 665, 915,	343, 2517, 5222,
... 2218, 5464,	1168, 8646, 8653,	5497, 5500, 5505,
5465, 5468, 5469,	9289, 9467, 9679,	5508, 5513, 5516,
5479, 5480, 5483,	16504, 16509,	5521, 5524, 8026,
5484, 5487, 5488,	18939, 19195,	8509, 8517, 8632,
5491, 5492, 6434,	19657, 22717, 25134	8634, 8639, 8729,
20428, 21179, 21934	<code>\@ifover@pkg@</code> 5616, 5618	8746, 10035,
<code>\@gtempa</code> 5710, 5711	<code>\@ifover@pkg@least</code>	10042, 10050,
<code>\@halignto</code> 416, 455,	... 5592, 5594	10056, 14137,
22337, 22375,	<code>\@if@ver@pkg@most</code> .	14392, 16679,
24476, 24680, 24693	... 5606, 5608	16690, 16753,
<code>\@hangfrom</code> . . 20519,	<code>\@ifclassloaded</code> . . .	16755, 16760,
20549, 20552,	... 6897, 6923,	18913, 20591,
21270, 21300,	7217, 7223, 7286,	21343, 22098,
21303, 22025,	8695, 8697, 14300	22958, 22962,
22055, 22058, 24648	<code>\@ifdefinable</code> . 5692,	23038, 23060,
<code>\@hboxRconstructfalse</code>	5695, 5698, 5713,	23061, 23109,
... 18695, 24386	5956, 5971, 14399	23110, 23197,
<code>\@hboxRconstructtrue</code>	<code>\@ifempty</code> . 7, 213, 16533	23219, 23220,
... 431, 18685,	<code>\@ifnextchar</code>	23504, 23527,
22344, 22383,	... 164, 4813,	23581, 23641,
22544, 24376, 24689	4843, 4858, 5946,	23690, 23707, 23737



<code>\@ifundefinedmodel</code>	<code>\@latexerr</code>	17752, 17784,
. 24297, 24331	15067, 15077, 15087	20476, 20508,
<code>\@ifxempty</code> 24357	<code>\@leftcolumn</code> 10222,	21227, 21259,
<code>\@ignoretrue</code> 2244, 9920	10248, 10285,	21982, 22014, 25109
<code>\@iiiminipage</code> . . . 14609	10307, 10360,	<code>\@makechapterhead</code> .
<code>\@iiiparbox</code>	10365, 14030,	313, 9633, 9831,
12047, 14640, 24559	14051, 14066,	11656, 13844,
<code>\@indextitlestyle</code> .	14087, 14928,	18814, 19808, 22682
. . . 101, 231, 16502	14956, 14977,	<code>\@makecol</code> . . . 13767,
<code>\@inlabelfalse</code> . . . 9887	15009, 17796,	13768, 15053,
<code>\@insertfalse</code> . . . 10342	17855, 17868,	15063, 16913, 16931
<code>\@inserttrue</code> . . . 10608	17896, 17955,	<code>\@makeextratitle</code> . .
<code>\@iprintcites</code> . . . 18823	17964, 24773,	. 20259, 20273,
<code>\@itemdepth</code> . . 2605,	24799, 24820, 24842	20288, 20989,
2625, 2626, 2627	<code>\@let@token</code> . 5436, 5439	21003, 21018,
<code>\@itemfudge</code> 25015, 25017	<code>\@listI</code> 7332	21752, 21766, 21781
<code>\@itemlabel</code> 24522	<code>\@listdepth</code> . 14459,	<code>\@makefnmark</code> 504, 853,
<code>\@ixpt</code> 8546	14625, 14894,	1357, 2286, 2291,
<code>\@kernel@refstepcounter</code>	14898, 20010,	4617, 8187, 8198,
. 16776	20739, 21502,	9725, 10874,
<code>\@kernel@tabular@init</code>	24513, 24516, 24521	10895, 11480,
. 396	<code>\@listI</code> 7332, 7340, 8550	11577, 13930,
<code>\@keywords</code> 336	<code>\@lowertitleback</code> . .	16520, 17650,
<code>\@kludgeins</code> . 13707,	. 20183, 20194,	19133, 19274,
15133, 18213, 18218	20206, 20241,	19471, 19514,
<code>\@lastchclass</code>	20321, 20913,	19702, 20130,
. 365, 366,	20924, 20936,	20131, 20251,
367, 368, 370,	20971, 21051,	20252, 20860,
1428, 1429, 1430,	21676, 21687,	20861, 20981,
1431, 1433, 1472,	21699, 21734, 21814	20982, 21623,
1473, 1485, 1493,	<code>\@lowpenalty</code> 4789, 23813	21624, 21744, 21745
22462, 22463,	<code>\@m</code> 94, 308,	<code>\@makefntext</code> . . . 46,
22464, 22465,	633, 765, 1030,	60, 76, 260, 274,
22467, 24694, 24695	1281, 2683, 5263,	289, 505, 790,
<code>\@lastvipertrue</code> . . .	9372, 9562, 9878,	855, 1043, 1106,
. . . . 10620, 10639	11428, 11703,	1294, 1359, 2307,
<code>\@latex@error</code> . 5378,	13887, 14929,	2357, 4618, 8185,
17765, 18018, 18024	14931, 14978,	8224, 8242, 8260,
<code>\@latex@warning</code> . . .	14980, 16494,	9406, 9584, 9726,
. 96, 310,	18306, 19046,	11481, 11578,
635, 767, 1032,	19440, 19639,	13931, 14515,
1283, 2685, 5252,	19846, 20386,	14532, 14548,
9374, 9564, 9880,	21137, 21892, 22659	14576, 14591,
11430, 11705,	<code>\@mainmatterfalse</code> .	14606, 15151,
13889, 16496,	. . . . . 8882,	17652, 19070,
19048, 19442,	8912, 9859, 11685	19135, 19209,
19641, 19848,	<code>\@mainmattertrue</code> . .	19276, 19473,
20390, 20397,	. . . . . 8879, 8895	19516, 19703,
21141, 21148,	<code>\@makeLTRfntext</code> . . .	20000, 20027,
21896, 21903, 22661	. . 2289, 2341, 2389	20030, 20729,
<code>\@latex@warning@no@line</code>	<code>\@makeRTLfntext</code> . . .	20756, 20759,
10613, 10631, 24981	. . 2284, 2324, 2373	21492, 21519, 21522
<code>\@latexbug</code> 24967	<code>\@makecaption</code> . 7629,	<code>\@makefrontispiece</code>
	9981, 17702,	. 20265, 20279,



20294, 20995,	7879, 7883, 7884,	662, 753, 912,
21009, 21024,	7917, 7919, 7923,	1018, 1165, 1269,
21758, 21772, 21787	7927, 7928, 7961,	2218, 9286, 9360,
\@makeother .. 6062,	7963, 7967, 7971,	9464, 9550, 9675,
6108, 6212, 6220	7972, 24890,	9863, 11416,
\@makeschapterhead	24892, 24896,	11688, 13875,
..... 9285,	24900, 24901,	18936, 19034,
9463, 9653, 9674,	24934, 24936,	19192, 19428,
9845, 11671,	24940, 24944,	19624, 19653, 19831
13856, 18935,	24945, 24966,	\@mklab 24523
19191, 19652,	24976, 24979,	\@mkpream 412, 16820,
19820, 22688, 22693	24987, 24989,	22335, 22367, 24678
\@makespecialcolbox	24990, 24992,	\@mobile
.... 13708, 15134	24993, 24994,	5129, 10748, 10846
\@maketitle ... 121,	25003, 25007, 25008	\@modernpoem 9203, 9247
328, 332, 510,	\@mathmargin 11298,	\@mpLTRfootnotetext
512, 517, 526,	11305, 11313, 11320	..... 2377,
536, 859, 861,	\@maxdepth	11754, 11772,
866, 873, 883,	. 13719, 13734,	11773, 11863,
1112, 1114,	13755, 13766, 15144	11891, 11899,
1119, 1126, 1136,	\@mentempa .. 17702,	12100, 12247,
1363, 1365, 1370,	17704, 17718,	12388, 12535,
1377, 1387, 4621,	17725, 17729, 17734	12682, 12829,
4627, 9731, 9733,	\@menubordercolor .	12976, 13123,
9738, 9747, 9757,	.... 16380, 16382	13270, 13460,
11486, 11488,	\@menucolor 16391	13514, 14579,
11493, 11500,	\@midlist ... 13703,	14623, 15926,
11510, 11583,	13704, 15130, 15131	15941, 15964,
11585, 11590,	\@minipagefalse 5002,	16028, 17048, 22517
11599, 11609,	7894, 7903, 7938,	\@mpRTLfootnotetext
13936, 13938,	7947, 7982, 7991,	..... 2361,
13943, 13950,	12044, 14637,	11755, 11774,
13960, 16559,	16712, 17758,	11775, 11875,
17655, 17657,	24911, 24920,	11892, 11900,
17664, 19139,	24955, 24964, 25115	12101, 12248,
19141, 19146,	\@minipagerestore 14626	12389, 12536,
19153, 19163,	\@minipagetrue	12683, 12830,
19280, 19282,	... 7902, 7946,	12977, 13124,
19287, 19296,	7990, 24919, 24963	13271, 13461,
19306, 19525,	\@minus	13515, 14564,
19527, 19532,	5169,	14624, 15915,
19541, 19551,	5255, 7328, 7330,	15940, 15953,
19708, 19710,	7337, 7339, 7341,	16029, 17049, 22518
19715, 19724,	7342, 8547, 8549,	\@mparbottom
19734, 20268,	8551, 8552,	. 24977, 24985,
20282, 20297,	14808, 14846,	24986, 24987, 24988
20309, 20998,	18303, 20654,	\@mpargs
21012, 21027,	20672, 20682,	12047, 14615, 14640
21039, 21761,	20692, 20703,	\@mparswitchfalse 7311
21775, 21790, 21802	21415, 21435,	\@mparswitchtrue . 7306
\@maketitle@hook ..	21445, 21455,	\@mpeightcol@LTRfootgroupv@
..... 119, 16557	21466, 22170,	..... 12982
\@makewincaption 18542	22190, 22200,	\@mpeightcol@footgroupv@
\@marbox . 7873, 7875,	22210, 22221, 22269	..... 12980
	\@mkboth .. 618, 646,	



\@mpightcolLTRfootnotetext	12315, 12327,	\@mpfourcol@LTRfootgroupv@l
.... 12976, 13059	12328, 12452,	..... 12394
\@mpightcolRTLfootnotetext	12459, 12472,	\@mpfourcol@footgroupv@r
.... 12977, 13072	12473, 12599,	..... 12392
\@mpightcolfootnotetext	12606, 12619,	\@mpfourcolLTRfootnotetext
.... 12975, 13035	12620, 12746,	.... 12388, 12471
\@mpfivecol@LTRfootgroupv@l	12753, 12766,	\@mpfourcolRTLfootnotetext
..... 12541	12767, 12893,	.... 12389, 12484
\@mpfivecol@footgroupv@r	12900, 12913,	\@mpfourcolfootnotetext
..... 12539	12914, 13040,	.... 12387, 12447
\@mpfivecolLTRfootnotetext	13047, 13060,	\@mplistdepth
.... 12535, 12618	13061, 13187,	.... 14459, 14625
\@mpfivecolRTLfootnotetext	13194, 13207,	\@mpninecol@LTRfootgroupv@l
.... 12536, 12631	13208, 13334,	..... 13129
\@mpfivecolfootnotetext	13341, 13354,	\@mpninecol@footgroupv@r
.... 12534, 12594	13355, 13602,	..... 13127
\@mpfn	13609, 13623, 13624	\@mpninecolLTRfootnotetext
2429, 2455, 4883,	\@mpfootinsv@r .....	.... 13123, 13206
4886, 4889, 4905,	. 12028, 12066,	\@mpninecolRTLfootnotetext
4913, 4921, 8282,	12067, 12162,	.... 13124, 13219
8288, 8311, 8317,	12169, 12197,	\@mpninecolfootnotetext
8340, 8346, 9142,	12198, 12306,	.... 13122, 13182
9145, 9148, 9162,	12313, 12339,	\@mppara@LTRfootgroupv@l
9169, 9176,	12340, 12450,	.... 13466, 13518
14322, 14324,	12457, 12485,	\@mppara@footgroupv@r
14475, 14480,	12486, 12597,	..... 13465
14484, 14489,	12604, 12632,	\@mpparaLTRfootnotetext
14621, 14651,	12633, 12744,	13460, 13514, 13622
14666, 15901,	12751, 12779,	\@mpparaRTLfootnotetext
15912, 15923,	12780, 12891,	.... 13461, 13636
16123, 16154,	12898, 12926,	\@mpparafootnotetext
16185, 16248,	12927, 13038,	13459, 13512, 13597
17044, 22449, 22456	13045, 13073,	\@mpsevencol@LTRfootgroupv@l
\@mpfootins	13074, 13185,	..... 12835
... 2347, 2348,	13192, 13220,	\@mpsevencol@footgroupv@r
2363, 2364, 2379,	13221, 13332,	..... 12833
2380, 11852,	13339, 13367,	\@mpsevencolLTRfootnotetext
11853, 11864,	13368, 13600,	.... 12829, 12912
11865, 11876,	13607, 13637, 13638	\@mpsevencolRTLfootnotetext
11877, 12014,	\@mpfootnotetext ..	.... 12830, 12925
12015, 12017,	..... 2345,	\@mpsevencolfootnotetext
12018, 12037,	11753, 11770,	.... 12828, 12888
12039, 12042,	11771, 11851,	\@mpsixcol@LTRfootgroupv@l
12067, 12069,	11890, 11898,	..... 12688
14566, 14567,	12099, 12246,	\@mpsixcol@footgroupv@r
14581, 14582,	12387, 12534,	..... 12686
14596, 14597,	12681, 12828,	\@mpsixcolLTRfootnotetext
14631, 14632,	12975, 13122,	.... 12682, 12765
14635, 17033, 17038	13269, 13459,	\@mpsixcolRTLfootnotetext
\@mpfootinsv@l	13510, 13512,	.... 12683, 12778
. 12029, 12068,	14594, 14622,	\@mpsixcolfootnotetext
12069, 12164,	15904, 15939,	.... 12681, 12741
12171, 12184,	15942, 16027,	\@mptencol@LTRfootgroupv@l
12185, 12308,	17047, 22514, 22516	..... 13276



\@mptencol@footgroupv@r	13256,	13380,	23593,	23596,
..... 13274	13386,	13392,	23604,	23605,
\@mptencolLTRfootnotetext	13397,	13440,	23607,	23610,
.... 13270, 13353	13441,	13493,	23613,	23638,
\@mptencolRTLfootnotetext	13651,	13662,	23642,	23643,
.... 13271, 13366	13678,	13687,	23644,	23646,
\@mptencolfootnotetext	13696,	16971,	23647,	23649,
.... 13269, 13329	22973,	23012,	23652,	23655,
\@mptthreecol@LTRfootgroupv@l	23013,	23014,	23663,	23664,
..... 12253	23015,	23016,	23666,	23669,
\@mptthreecol@footgroupv@r	23017,	23018,	23672,	23692,
..... 12251	23019,	23020,	23695,	23699,
\@mptthreecolLTRfootnotetext	23021,	23039,	23739, 23742, 23746	
.... 12247, 12326	23040,	23041,		
\@mptthreecolRTLfootnotetext	23042,	23043,	\@nameuse 9198,	
.... 12248, 12338	23044,	23045,	11228,	11278,
\@mptthreecolfootnotetext	23046,	23047,	11281,	11327,
.... 12246, 12303	23062,	23063,	12213,	12214,
\@mptwocol@LTRfootgroupv@l	23064,	23065,	12219,	12220,
..... 12106	23067,	23068,	12224,	12225,
\@mptwocol@footgroupv@r	23070,	23073,	12229,	12230,
..... 12104	23076,	23084,	12354,	12355,
\@mptwocolLTRfootnotetext	23085,	23087,	12360,	12361,
.... 12100, 12183	23090,	23093,	12365,	12366,
\@mptwocolRTLfootnotetext	23106,	23111,	12370,	12371,
.... 12101, 12196	23112,	23113,	12501,	12502,
\@mptwocolfootnotetext	23115,	23116,	12507,	12508,
.... 12099, 12159	23118,	23121,	12512,	12513,
\@namedef 9200,	23124,	23132,	12517,	12518,
12049, 12085,	23133,	23135,	12648,	12649,
12086, 12210,	23138,	23141,	12654,	12655,
12216, 12222,	23153,	23198,	12659,	12660,
12227, 12232,	23199,	23200,	12664,	12665,
12233, 12351,	23201,	23202,	12795,	12796,
12357, 12363,	23203,	23204,	12801,	12802,
12368, 12373,	23205,	23206,	12806,	12807,
12374, 12498,	23221,	23222,	12811,	12812,
12504, 12510,	23223,	23224,	12942,	12943,
12515, 12520,	23226,	23227,	12948,	12949,
12521, 12645,	23229,	23232,	12953,	12954,
12651, 12657,	23235,	23243,	12958,	12959,
12662, 12667,	23244,	23246,	13089,	13090,
12668, 12792,	23249,	23252,	13095,	13096,
12798, 12804,	23265,	23505,	13100,	13101,
12809, 12814,	23506,	23507,	13105,	13106,
12815, 12939,	23508,	23509,	13236,	13237,
12945, 12951,	23510,	23511,	13242,	13243,
12956, 12961,	23512,	23513,	13247,	13248,
12962, 13086,	23552,	23558,	13252,	13253,
13092, 13098,	23565,	23571,	13383,	13384,
13103, 13108,	23578,	23582,	13389,	13390,
13109, 13233,	23583,	23584,	13394,	13395,
13239, 13245,	23585,	23587,	13399,	13400,
13250, 13255,	23588,	23590,	13652,	13659,
			13663,	13670,



13679,	13684,	5266, 5272, 5287,	386, 1434, 1436,
13688,	13693,	5315, 5367, 5727,	1437, 1438, 1440,
14158,	20181,	5781, 5835, 6557,	1441, 1442, 1443,
20516,	20911,	6716, 6787, 6848,	1444, 1445, 1446,
21267,	21674,	9730, 10187,	1449, 1450, 1451,
22022,	22700,	11485, 11582,	1463, 1465, 1466,
22974,	22975,	11984, 13935,	1531, 1532, 1533,
22976,	22979,	14565, 14580,	10006, 10007,
22982,	22987,	14595, 14908,	10008, 22468,
22988,	22993,	16256, 16257,	22470, 22471,
22997,	22998,	16262, 16667,	22472, 22473,
23000,	23001,	16674, 16683,	22474, 22475,
23003,	23004,	16694, 16824,	22476, 22478,
23006,	23007,	17654, 17731,	22479, 22480,
23009,	23010,	17994, 18384,	22481, 22482,
23017,	23022,	18404, 19138,	22485, 22486, 22487
23023,	23106,	19279, 19477,	<code>\@nil</code> 1516, 1517, 1519,
23153,	23157,	19520, 19524,	1520, 5595, 5602,
23158,	23170,	19707, 20010,	5609, 5619, 9995,
23180,	23181,	20037, 20039,	10917, 10974, 22612
23265,	23269,	20255, 20422,	<code>\@ninecol@LTRfootgroupv@l</code>
23270,	23291,	20739, 20766,	..... 13121
23307,	23310,	20768, 20985,	<code>\@ninecol@footgroupv@r</code>
23311,	23315,	21173, 21502,	..... 13117
23321,	23322,	21529, 21531,	<code>\@ninecolLTRfootfmt</code>
23323,	23327,	21748, 21928,	13155, 13176, 13216
23330,	23334,	22397, 22401,	<code>\@ninecolLTRfootnotetext</code>
23336,	23350,	22462, 22471,	.... 13112, 13148
23352,	23354,	22478, 22814,	<code>\@ninecolRTLfootfmt</code>
23360,	23378,	23157, 23158,	13165, 13179, 13229
23379,	23381,	23269, 23270,	<code>\@ninecolRTLfootnotetext</code>
23382,	23392,	23499, 24213,	.... 13113, 13158
23394,	23397,	24360, 24516,	<code>\@ninecolfootfmt</code> ..
23398,	23400,	24557, 24592,	13145, 13173, 13203
23402,	23403,	24594, 24595,	<code>\@ninecolfootnotetext</code>
23411,	23413,	24596, 24601,	.... 13111, 13132
23417,	23418,	24603, 24604,	<code>\@nmbulistfalse</code> . 24524
23422,	23426,	24605, 24610,	<code>\@nobreakfalse</code> . 570,
23430,	23431,	24612, 24613,	719, 964, 1204,
23499,	23532,	24614, 24619,	9324, 9502, 9791,
23539,	23544,	24621, 24622,	11641, 13826,
23545,	23552,	24623, 24697,	18992, 19365,
23631,	23638,	24699, 24742, 24967	19581, 19768,
23709,	23776,	<code>\@newlistfalse</code>	22761, 22765, 23300
24299, 24333, 25039		.... 14202, 25028	<code>\@nobreaktrue</code> .. 569,
<code>\@ne</code> .. 138, 143, 365,		<code>\@next</code> 4948,	718, 963, 1203,
374, 377, 509,		7872, 7873, 7916,	9323, 9501, 9790,
858, 1111, 1362,		7917, 7960, 7961,	11640, 13825,
1428, 1437, 1440,		24889, 24890,	18991, 19364,
1441, 1442, 1475,		24933, 24934, 24966	19580, 19767,
1478, 1479, 1480,		<code>\@nextchar</code> 371, 373,	22760, 22764, 23299
2346, 2362, 2378,		374, 375, 377,	<code>\@nocnterr</code> 343
2626, 4371, 4376,		378, 379, 380,	<code>\@nocounterr</code> 342
4377, 4378, 4958,		381, 384, 385,	<code>\@nodocument</code> 4927



<code>\@noitemerr</code>	96, 310, 634, 766, 1031, 1282, 2684, 5252, 9373, 9563, 9879, 11429, 11704, 13888, 16496, 18313, 19047, 19441, 19640, 19847, 20389, 20396, 21140, 21147, 21895, 21902, 22660	19435, 19631, 19838, 20372, 21123, 21878, 22651	<code>\@outputpage</code>	10265, 10269, 10324, 10328, 14058, 14061, 14096, 14100, 14177, 14181, 14186, 14197, 14965, 14969, 15018, 15022, 16914, 16932, 17878, 17883, 17975, 17980, 18442, 18443, 24808, 24812, 24851, 24855, 25023			
<code>\@nonlatinfalse</code>	4155, 4244, 16701, 16745	<code>\@otarlinesep</code>	22357, 22363	<code>\@ovbtrue</code>	13993		
<code>\@nonlatintrue</code>	4156, 4245, 16701, 16745	<code>\@outerparskip</code> . . .	9241	<code>\@ovdx</code>	14006, 14014		
<code>\@normalLTRfootfmt</code>	11803, 11848, 11873	<code>\@outputbox</code> .	10222, 10225, 10226, 10240, 10252, 10257, 10259, 10285, 10288, 10289, 10303, 10313, 10316, 10318, 13710, 13712, 13713, 13718, 13733, 13735, 13749, 13759, 14030, 14033, 14046, 14055, 14066, 14069, 14083, 14093, 14175, 14180, 14227, 14928, 14935, 14936, 14952, 14962, 14977, 14984, 14985, 15001, 15013, 15052, 15064, 15098, 15100, 15111, 15136, 15139, 15140, 16938, 16940, 16942, 17796, 17799, 17800, 17830, 17855, 17858, 17860, 17872, 17896, 17899, 17900, 17930, 17955, 17958, 17960, 17970, 18450, 18453, 18458, 24773, 24776, 24777, 24791, 24803, 24820, 24823, 24824, 24838, 24848, 25086	<code>\@ovtrue</code>	13993	<code>\@ovdy</code>	14007, 14015
<code>\@normalRTLfootfmt</code>	11797, 11834, 11885	<code>\@normalcr</code>	17000	<code>\@ovhorz</code> . .	14012, 14013		
<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@ovltrue</code>	13993		
<code>\@notprerr</code> . .	6300, 6315	<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@ovri</code>	14005		
<code>\@nx</code>	125, 126, 346, 16563, 16564	<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@ovro</code>	14005, 14014, 14015		
<code>\@nxtcol</code>	14150, 14152, 14193	<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@ovrtrue</code>	13993		
<code>\@oddfoot</code>	2190, 2195, 2231, 2236, 4587, 14163, 14170, 25042, 25059	<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@ovttrue</code>	13993		
<code>\@oddhead</code>	2114, 2194, 2219, 2236, 14162, 14169, 25042, 25058	<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@ovvert</code> . .	14010, 14011		
<code>\@oldmakefnmark</code> . . .	20130, 20131, 20251, 20252, 20860, 20861, 20981, 20982, 21623, 21624, 21744, 21745	<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@ovxx</code>	13995, 13996, 13999, 14006, 14011, 14012, 14016, 14017		
<code>\@onelevel@sanitize</code>	4930	<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@ovyy</code> .	13997, 13998, 13999, 14007, 14013		
<code>\@onlypreamble</code>	4357, 13433, 13434, 13438, 13799	<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@pagedp</code> . .	24995, 25005		
<code>\@openbib@code</code> .	625, 760, 1025, 1276, 5245, 5256, 9367, 9557, 9870, 11423, 11695, 13882, 19041,	<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@pageht</code>	10346, 10352, 13775, 13776, 13777, 24978, 24985		
		<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@par</code>	23434		
		<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@para@LTRfootgroupv@l</code>	13457, 13507		
		<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@para@footgroupv@r</code>	13451		
		<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@para@footstartv@l</code>	13458, 13508		
		<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@para@footstartv@r</code>	13452		
		<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@paraLTRfootfmt</code> . .	13570, 13589, 13633		
		<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@paraLTRfootnotetext</code>	13444, 13500, 13561		
		<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@paraRTLfootfmt</code> . .	13582, 13593, 13647		
		<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@paraRTLfootnotetext</code>	13445, 13573		
		<code>\@normalfootfmt</code> . . .	11791, 11820, 11861	<code>\@parafotfmt</code>	13558, 13585, 13619		
		<code>\@outputbox@append</code>	24868				
		<code>\@outputbox@appendfootnotetext</code>	24865				
		<code>\@outputdblcol</code>	14149, 24861, 24862, 24863				



<code>\@parafootnotetext</code>	13443, 13498, 13543	<code>\@photowidth</code>	. 5134, 5135, 10724, 10820	21446, 21455, 21466, 21560, 21567, 21577, 21640, 21666, 21711, 22125, 22144, 22170, 22171, 22190, 22191, 22200, 22201, 22210, 22221, 22268, 22563, 22592, 22716, 22993, 23161, 23164, 23168, 23273, 23276, 23280, 23355, 23692, 23695, 23699, 23820, 24004, 24710	
<code>\@parboxrestore</code>	. 43, 57, 73, 257, 271, 286, 2303, 2320, 2337, 2353, 2369, 2385, 4997, 7623, 7891, 7935, 7979, 9925, 11857, 11869, 11881, 11982, 12176, 12189, 12202, 12320, 12332, 12344, 12464, 12477, 12490, 12611, 12624, 12637, 12758, 12771, 12784, 12905, 12918, 12931, 13052, 13065, 13078, 13199, 13212, 13225, 13346, 13359, 13372, 13614, 13628, 13642, 13657, 13668, 14202, 14510, 14527, 14543, 14572, 14587, 14602, 14620, 17779, 17993, 24575, 24908, 24952, 25029	<code>\@pkgextension</code>	6938, 6970, 6976, 7134, 7137, 7155		
<code>\@parboxto</code>	24578, 24585	<code>\@plus</code>	.. 24, 104, 234, 560, 577, 649, 664, 693, 696, 709, 727, 734, 914, 921, 924, 937, 954, 972, 1167, 1178, 1181, 1194, 1212, 1220, 5169, 5255, 7328, 7329, 7330, 7337, 7338, 7339, 7341, 7342, 8547, 8548, 8549, 8551, 8552, 8618, 9288, 9299, 9302, 9315, 9331, 9338, 9466, 9477, 9480, 9493, 9509, 9516, 9678, 9782, 9797, 11375, 11389, 11633, 13587, 13591, 13595, 13817, 13832, 14808, 14846, 16505, 16526, 18045, 18057, 18303, 18938, 18967, 18970, 18983, 18999, 19006, 19194, 19340, 19343, 19356, 19372, 19379, 19573, 19587, 19656, 19759, 19774, 20067, 20074, 20084, 20147, 20173, 20218, 20618, 20636, 20654, 20655, 20672, 20673, 20682, 20683, 20692, 20703, 20797, 20804, 20814, 20877, 20903, 20948, 21370, 21389, 21415, 21416, 21435, 21436, 21445,	<code>\@pnumwidth</code>	... 13, 15, 219, 221, 563, 564, 566, 580, 581, 585, 712, 713, 715, 737, 738, 742, 940, 941, 945, 957, 958, 960, 1197, 1198, 1200, 1223, 1224, 1228, 9318, 9319, 9321, 9341, 9342, 9346, 9496, 9497, 9499, 9519, 9520, 9524, 9785, 9786, 9788, 9800, 9801, 9805, 10070, 10075, 10076, 11378, 11379, 11383, 11392, 11393, 11395, 11635, 11636, 11638, 13820, 13821, 13823, 13835, 13836, 13840, 16539, 16541, 18065, 18986, 18987, 18989, 19009, 19010, 19014, 19359, 19360, 19362, 19382, 19383, 19387, 19575, 19576, 19578, 19590, 19591, 19595,
<code>\@part</code>	..... 609, 611, 11407, 11409			
<code>\@pboxswfalse</code>	..... ..... 14611, 24561			
<code>\@pboxswtrue</code>	... 24583				
<code>\@pdfm@mark</code>	..... . 16264, 16280, 16314, 16345, 16374, 16418, 16423, 16434, 16439, 16450, 16456, 16467, 16473			
<code>\@pdfremotestartview</code>	..... 16295			
<code>\@phone</code>	5130, 10749, 10847				
<code>\@photo</code>	. 5135, 10722, 10724, 10853, 10855				



19762, 19763,	\@preamentenfmt 13315,	\@rememsize 22367, 22370
19765, 19777,	13321, 13324, 13327	\@removefromreset .
19778, 19782,	\@preamthreefmt ...	.... 18322, 18324
22619, 22628,	..... 12289,	\@reqcolroom
22630, 23023,	12295, 12298, 12301	. 10346, 10347,
23172, 23173,	\@preamtwofmt 12145,	10348, 10349,
23185, 23284,	12151, 12154, 12157	10351, 10352,
23285, 23294,	\@printcites ... 18825	10353, 10354,
23558, 23565,	\@ptsize . 5033, 5034,	10355, 10356, 10596
23911, 24016, 24722	5035, 5036, 5043	\@resetactivechars
\@preamble 414, 420,	\@publisher . 8710, 8763	.... 14200, 25026
433, 445, 1488,	\@publishers 20174,	\@resetdyn@mics . 14188
1496, 16831,	20319, 20904,	\@resetst@tics .. 14187
22336, 22338,	21049, 21667, 21812	\@restonecolfalse 99,
22345, 22375,	\@quote . 5136, 10728,	229, 639, 655,
22376, 22384,	10730, 10857, 10859	905, 1158, 9279,
24679, 24681, 24690	\@quotebox 18824	9457, 9668,
\@preameightfmt ...	\@quotecolour	16500, 18929,
..... 13021,	.. 5098, 5115, 5225	19185, 19646, 22674
13027, 13030, 13033	\@r@m@size 22370	\@restonecoltrue 99,
\@preamerr	\@raggedtwo@abdhook	229, 641, 657,
387, 1452, 1482,	18899, 18904, 18914	907, 1160, 9281,
22488, 24688, 24701	\@raggedtwo@document@opt	9459, 9670,
\@preamfivefmt 12580,	18898, 18902, 18920	16500, 18931,
12586, 12589, 12592	\@raggedtwo@everyselectfont	19187, 19648, 22676
\@preamfntext 11815,	..... 18838,	\@resumename 5068, 5124
11829, 11843,	18851, 18864, 18875	\@revlabeltrue . 791,
11977, 12118,	\@raggedtwo@footmisctrue	1044, 1295, 9407,
12128, 12138,	..... 18901	9585, 19071, 19210
12265, 12274,	\@raggedtwo@gnewline	\@rightcolumn 17822,
12283, 12406,	18831, 18844, 18857	17827, 17828,
12416, 12426,	\@raggedtwo@raggedrightboxes@opt	17837, 17838,
12553, 12563,	..... 18877,	17846, 17850,
12573, 12700,	18896, 18900, 18917	17856, 17922,
12710, 12720,	\@raggedtwo@samed@gnewline	17927, 17928,
12847, 12857,	..... 18868	17937, 17938,
12867, 12994,	\@raggedtwo@samed@cr	17946, 17950, 17956
13004, 13014,	..... 18828,	\@rightskip . 16996,
13141, 13151,	18841, 18854, 18867	18833, 18834,
13161, 13288,	\@raggedtwo@spaceskipfalse	18846, 18847,
13298, 13308,	..... 18874	18859, 18860,
13553, 13565, 13577	\@raggedtwo@spaceskiptrue	18870, 18871, 24626
\@preamfourfmt 12433,	18837, 18850, 18863	\@rjfieldfalse .. 25013
12439, 12442, 12445	\@rc@ifdefinable ..	\@runbordercolor ..
\@preamninefmt 13168,	..... 5713, 5971	.... 16320, 16322
13174, 13177, 13180	\@regtcline 690, 728,	\@runcolor
\@preamnormalfmt ..	745, 918, 948,	16336
..... 11787,	973, 1175, 1213,	\@s@size
11792, 11798, 11804	1231, 9296, 9332,	22329
\@preamsevenfmt ...	9350, 9474, 9510,	\@savemarbox ... 25007
..... 12874,	9528, 18964,	\@secondoftwo . 5540,
12880, 12883, 12886	19000, 19018,	5544, 5552, 5556,
\@preamsixfmt 12727,	19337, 19373, 19391	5564, 5568, 5574,
12733, 12736, 12739	\@reinserts 13790	5582, 5596, 5610,
		5622, 5630, 5639,



5648, 5657, 5663, 5666, 5677, 5682, 5689, 6069, 6079, 6080, 6081, 6082, 6088, 6097, 6103, 6127, 6147, 6175, 6227, 6239, 6240, 6249, 13800	\@sevenscol@LTRfootgroupv@1 12827	10329, 14059, 14061, 14099, 14100, 14184, 14186, 14968, 14970, 15021, 15023, 17881, 17884, 17978, 17981, 24811, 24813, 24854, 24856
\@secpenalty 5, 211, 559, 576, 708, 726, 733, 936, 953, 971, 1193, 1211, 1219, 11374, 11388, 16531, 22604, 22741, 22796, 23160, 23167, 23272, 23279	\@sevenscolRTLfootfmt 12871, 12885, 12935	\@startfield 9250
\@sectiontitlecolour 5099, 5116	\@sevenscolRTLfootnotetext 12819, 12864	\@startpbox 1465, 1466, 1531, 1532, 1533, 10006, 10007, 10008, 16805, 16806, 16812, 22339, 22377, 24682
\@seesize . 22367, 22370	\@sevenscolfootfmt . 12851, 12879, 12909	\@startsection 23, 16525
\@setcol 14194	\@sevenscolfootnotetext 12817, 12838	\@starttoc .. 8513, 8521
\@setcolbox 14155, 14191	\@sharp 426, 1490, 1491, 1492, 1498, 1499, 1500, 16818, 22341, 22376, 22382, 24685	\@stopfield 9215, 9230, 9234, 9262, 25013
\@setcopyright 113, 16551	\@sixcol@LTRfootgroupv@1 12680	\@stopline . 9234, 25013
\@setfontsize . 7327, 7336, 8546, 8556, 8557, 8558, 8559, 8560, 8561, 8562	\@sixcol@footgroupv@r 12676	\@stpelt 6422, 6426, 6428
\@setfpsbit 4962, 4965, 4968	\@sixcolLTRfootfmt 12714, 12735, 12775	\@strip 17990
\@setmarks .. 10232, 10234, 10264, 10295, 10297, 10323, 14039, 14041, 14058, 14075, 14077, 14095, 14942, 14944, 14964, 14991, 14993, 15017, 17806, 17808, 17877, 17906, 17908, 17974, 24783, 24785, 24807, 24830, 24832, 24850	\@sixcolLTRfootnotetext 12671, 12707	\@subjclass 336
\@setminipage . 7625, 14627, 14902, 17781	\@sixcolRTLfootfmt 12724, 12738, 12788	\@subject 20155, 20156, 20318, 20885, 20886, 21048, 21648, 21649, 21811
\@setpar 19474, 19517, 20033, 20044, 20762, 20774, 21525, 21537	\@sixcolRTLfootnotetext 12672, 12717	\@subsectioncolour 5101, 5117
\@settab 9208	\@sixcolfootfmt ... 12704, 12732, 12762	\@subtitle .. 20161, 20314, 20891, 21044, 21654, 21807
	\@sixcolfootnotetext 12670, 12691	\@tabacol 4875, 16803, 22323, 24487, 24665
	\@skip@bove 22361, 22363	\@tabarray 397, 457, 4877, 16789, 16791, 18359, 18361, 24482, 24489, 24667, 24693
	\@spaces 22399, 22440, 22445	\@tabclassiv 4877, 16804, 22325, 24489, 24667
	\@spart 612, 614, 11410, 11412	\@tabclassz .. 1493, 4876, 16804, 22324, 24488, 24666
	\@specialpagefalse 14157, 25039	\@tabcr 9211, 9221
	\@specialstyle 14158, 25039	\@tabminus 9209
	\@stabarray 22325	\@tabplus 9208
	\@stabular 22321	\@tabular 389, 4863, 24663
	\@star@or@long 5708, 5941, 5965, 5976	
	\@startcolumn ... 15027	
	\@startdblcolumn 10268, 10270, 10327,	



<code>\@tabularcr</code>	16049, 16061,	14018, 14134,
. . 4877, 16808,	16080, 16084,	14135, 14136,
22325, 24489, 24667	16087, 16099,	14616, 14640,
<code>\@tarlinesep</code> 22363,	16562, 16565,	14745, 14790,
22364, 22365,	16896, 16897,	14797, 14807,
22366, 22369, 22371	16899, 16900,	14810, 14814,
<code>\@temp@bibkey</code> . 8080,	18325, 18326,	14816, 14822,
8099, 8118, 8146	18327, 18330,	14856, 14858,
<code>\@temp@bibkeyx</code> 8085,	18337, 18343,	14864, 14877,
8086, 8088, 8089,	19118, 19120,	14881, 14882,
8090, 8091, 8104,	19122, 19126,	15170, 15266,
8105, 8107, 8108,	19259, 19261,	15283, 15674,
8109, 8110, 8123,	19263, 19267,	15855, 15857,
8124, 8126, 8127,	19857, 19858,	16704, 16709,
8128, 8129, 8155,	19900, 19901,	16713, 16857,
8156, 8158,	20032, 20374,	16858, 16861,
8159, 8160, 8161	20377, 20761,	17707, 17710,
<code>\@temp@last@bibkey</code>	21125, 21128,	17714, 17716,
. 8079,	21524, 21880,	17722, 17724,
8080, 8086, 8098,	21883, 22448,	17725, 17754,
8099, 8105, 8117,	22450, 22455,	17755, 17759,
8118, 8124,	22457, 24002,	18543, 18544,
8145, 8146, 8156	24019, 24023,	18547, 22422,
<code>\@tempa</code> 124, 127, 134,	24024, 24025,	22442, 23963,
135, 136, 137,	24034, 24048,	23966, 23971,
838, 840, 842,	24224, 24227,	23975, 23979,
846, 1091, 1093,	24233, 24237, 24251	23983, 23987,
1095, 1099, 1342,	<code>\@tempb</code> 5372,	23991, 23995,
1344, 1346, 1350,	5373, 5375, 5376,	23999, 24648,
2408, 2434, 2460,	15204, 15205,	24649, 24704,
5317, 5331, 5372,	15245, 15247,	24705, 24706,
5373, 5376, 5496,	15275, 15277,	24707, 24892,
5497, 5500, 5502,	15278, 15280,	24936, 25074,
5504, 5505, 5508,	15283, 18329,	25081, 25082,
5510, 5512, 5513,	18330, 18336,	25111, 25112, 25116
5516, 5518, 5520,	18337, 18342, 18343	<code>\@tempc</code>
5521, 5524, 5526,	<code>\@tempboxa</code> . . . 2120,	15246, 15248, 15254
5728, 5738, 5744,	2121, 2122, 2123,	<code>\@tempcnta</code> 1456, 1515,
5756, 5763, 5769,	2124, 2224, 2225,	1516, 1517, 1519,
5782, 5792, 5798,	2226, 2227, 2228,	1520, 2526, 2527,
5810, 5817, 5823,	2490, 2507, 2508,	2529, 4950, 4956,
5836, 5849, 5855,	2509, 2510, 2511,	4958, 4971, 4972,
5873, 5883, 5889,	2512, 2513, 2514,	4978, 4979, 5349,
13994, 15204,	2553, 2555, 2556,	5351, 5355, 9993,
15205, 15206,	2557, 2562, 2575,	9995, 10915,
15207, 15244,	7875, 7919, 7963,	10972, 18409,
15247, 15248,	10362, 10363,	18411, 18412,
15254, 15265,	10940, 10941,	18418, 18422,
15266, 15272,	10942, 10943,	18435, 20226,
15277, 15278,	10945, 10994,	20228, 20956,
15280, 15283,	10995, 10996,	20958, 21719,
15582, 15583,	10997, 10999,	21721, 22435,
15584, 15585,	12047, 14005,	23810, 23811,
16042, 16046,	14009, 14017,	23812, 23831,



23832,	23833,	11229,	11234,	20775,	20776,
23835,	23837,	11235,	11236,	20780,	20782,
23919,	23920,	11237,	11238,	21198,	21199,
23921,	24967,	11353,	11355,	21526,	21527,
24969,	24972,	11357,	11376,	21529,	21531,
24974,	24976, 24998	11381,	11391,	21538,	21539,
\@tempcntb ...	2537,	13430,	13469,	21543,	21545,
	2538, 2540, 4976,	13470,	13473,	21953,	21954,
	4977, 4978,	13474,	13480,	22368,	22371,
	18410, 18411,	13481,	13482,	22373,	22436,
	18418, 18422, 18435	13483,	13485,	22495,	22496,
\@tempdima ...	8, 10,	13521,	13522,	22497,	22751,
	12, 14, 214, 216,	13525,	13526,	22755,	22782,
	218, 220, 404,	13532,	13533,	22786,	22805,
	405, 407, 561,	13534,	13535,	22809,	22822,
	578, 583, 698,	13537,	13720,	22826,	22839,
	711, 735, 740,	13722,	13819,	22843,	22856,
	926, 927, 938,	13833,	13838,	22860,	22873,
	943, 956, 1183,	14006,	14007,	22877,	22890,
	1196, 1221, 1226,	14010,	14011,	22894,	22908,
	1510, 1511, 1543,	14614,	14618,	22912,	22927,
	1544, 1545, 2207,	15139,	15141,	22931,	22947,
	2524, 2528, 2529,	15263,	15265,	22951,	22982,
	2541, 2542, 2544,	15270,	15272,	22986,	23170,
	2567, 2569, 2580,	15273,	15275,	22986,	23170,
	2582, 3602, 3603,	15288,	15293,	23176,	23282,
	5030, 5032, 8534,	15298,	15302,	23322,	23326,
	8535, 9304, 9317,	16534,	16536,	23329,	23333,
	9339, 9344, 9482,	16538,	16540,	23336,	23338,
	9495, 9517, 9522,	16538,	16540,	23378,	23381,
	9783, 9798, 9803,	16800,	16810,	23382,	23386,
	10018, 10019,	16815,	17825,	23827,	23829,
	10020, 10068,	17829,	17925,	23858,	23861,
	10073, 10886,	17929,	17990,	23868,	23871,
	10887, 10888,	18015,	18038,	23875,	23880,
	10889, 10907,	18050,	18051,	23883,	23895,
	10908, 10909,	18062,	18063,	23928,	23930,
	10910, 10916,	18413,	18972,	23931,	23934,
	10918, 10919,	18985,	19007,	23937,	23941,
	10923, 10924,	19012,	19345,	23948,	23950,
	10925, 10926,	19358,	19380,	24009,	24010,
	10927, 10935,	19385,	19475,	24023,	24025,
	10939, 10942,	19476,	19477,	24033,	24040,
	10943, 10944,	19518,	19519,	24186,	24187,
	10958, 10959,	19520,	19588,	24206,	24217,
	10960, 10973,	19593,	19760,	24218,	24219,
	10975, 10976,	19775,	19780,	24220,	24232,
	10980, 10981,	19902,	19903,	24235,	24241,
	10982, 10983,	20034,	20035,	24242,	24574,
	10984, 10990,	20037,	20039,	24242,	24574,
	10993, 10996,	20045,	20046,	24575,	24715,
	10997, 10998,	20050,	20052,	24716,	24977,
	11010, 11011,	20447,	20448,	24978,	24979,
	11012, 11228,	20763,	20764,	24980,	24983,
		20766,	20768,	24986,	24989,
				24991, 25014, 25015	



<code>\@tempdimb</code> . . .	2525, 2526, 2530, 2533, 2534, 2539, 2540, 2541, 2542, 2547, 2550, 2551, 2553, 2554, 2563, 2568, 2569, 2576, 2581, 2582, 9987, 10443, 10463, 10886, 10887, 10907, 10908, 10959, 10961, 10964, 11011, 11013, 11016, 11231, 11234, 13471, 13472, 13473, 13523, 13524, 13525, 13999, 14000, 14001, 14002, 14004, 15264, 15265, 15271, 15272, 15274, 15275, 17990, 18015, 20047, 20048, 20050, 20052, 20777, 20778, 20780, 20782, 21540, 21541, 21543, 21545, 22368, 22371, 22373, 23828, 23834, 23836, 23841, 23843, 23846, 23850, 23854, 23862, 23864, 23865, 23878, 23884, 23886, 24189, 24190, 24192, 24194, 24197, 24198, 24200, 24203, 24217, 24218, 24219, 24223, 24236, 24240, 24241, 24577, 24578	20787, 21523, 21535, 21536, 21550 <code>\@tempskipa</code> 9240, 9241, 9242, 11992, 11993, 11994, 12010, 12011, 12012, 13673, 13674 <code>\@tempswafalse</code> 1998, 1999, 10927, 10984, 11983, 15211, 20184, 20914, 21677, 24271, 24314 <code>\@tempswatru</code> . 1998, 10921, 10978, 11985, 20180, 20910, 21673, 24765 <code>\@temptokena</code> . . 122, 126, 16560, 16564 <code>\@tempx</code> 9142, 9143, 16120, 16132 <code>\@tempxi</code> 9145, 9146, 16151, 16163 <code>\@tempxii</code> 9148, 9149, 16182, 16194 <code>\@tempy</code> 4883, 4884 <code>\@tempyi</code> 4886, 4887 <code>\@tempyii</code> . . . 4889, 4890 <code>\@tencol@LTRfootgroupv@l</code> 13268 <code>\@tencol@footgroupv@r</code> 13264 <code>\@tencolLTRfootfmt</code> 13302, 13323, 13363 <code>\@tencolLTRfootnotetext</code> 13259, 13295 <code>\@tencolRTLfootfmt</code> 13312, 13326, 13376 <code>\@tencolRTLfootnotetext</code> 13260, 13305 <code>\@tencolfootfmt</code> . . . 13292, 13320, 13350 <code>\@tencolfootnotetext</code> 13258, 13279 <code>\@testopt</code> 5943, 5961, 16797, 16798 <code>\@testpach</code> 364, 1427, 1472, 22461, 24694 <code>\@textbottom</code> 13715, 15142, 20067, 20074, 20797, 20804, 21560, 21567	<code>\@textsuperscript</code> . . 504, 507, 792, 854, 856, 1045, 1109, 1296, 1358, 1360, 4617, 4620, 8185, 8187, 9408, 9586, 9725, 9728, 11480, 11483, 11577, 11580, 13930, 13933, 17650, 19072, 19134, 19136, 19211, 19275, 19277, 19472, 19479, 19515, 19522, 19702, 19705 <code>\@texttop</code> . 13711, 15138 <code>\@tfor</code> 4951, 13994 <code>\@thanks</code> 483, 491, 519, 527, 823, 829, 868, 874, 1076, 1082, 1121, 1127, 1327, 1333, 1372, 1378, 4622, 4628, 9439, 9445, 9617, 9623, 9704, 9712, 9740, 9748, 11461, 11467, 11495, 11501, 11556, 11564, 11592, 11600, 13911, 13917, 13945, 13951, 14642, 14656, 14659, 17643, 17666, 19103, 19109, 19148, 19154, 19242, 19250, 19289, 19297, 19493, 19501, 19534, 19542, 19681, 19689, 19717, 19725, 20177, 20196, 20219, 20300, 20310, 20907, 20926, 20949, 21030, 21040, 21670, 21689, 21712, 21793, 21803 <code>\@thefnmark</code> 45, 59, 75, 259, 273, 288, 504, 507,
-------------------------------	---	--	---



792, 854, 856,	13930, 13933,	12269, 12294, 12324
1045, 1109, 1296,	14476, 14481,	<code>\@threecolfootnotetext</code>
1358, 1360, 2305,	14485, 14490,	..... 12235, 12256
2322, 2339, 2355,	14512, 14529,	<code>\@title</code> 332, 473, 494,
2371, 2387, 2415,	14545, 14574,	530, 544, 801,
2421, 2441, 2447,	14589, 14604,	803, 831, 876,
2467, 2473, 4617,	14647, 14652,	889, 1054, 1056,
4620, 4906, 4914,	14662, 14667,	1084, 1129, 1142,
4922, 8185, 8187,	14703, 14707,	1305, 1307, 1335,
8221, 8239, 8257,	14709, 14715,	1380, 1394, 1405,
8283, 8289, 8312,	14719, 14721,	4631, 5066, 5127,
8318, 8341, 8347,	14727, 14731,	8718, 8803, 9417,
9163, 9170, 9177,	14733, 15153,	9419, 9447, 9595,
9408, 9586, 9725,	15902, 15913,	9597, 9625, 9694,
9728, 11480,	15924, 15935,	9715, 9751, 9765,
11483, 11577,	16053, 16091,	10838, 11451,
11580, 11818,	16124, 16155,	11470, 11504,
11832, 11846,	16186, 16249,	11516, 11546,
11859, 11871,	16522, 19072,	11567, 11603,
11883, 11922,	19134, 19136,	11617, 13901,
11926, 11928,	19211, 19275,	13920, 13954,
11934, 11938,	19277, 19472,	13966, 17644,
11940, 11946,	19479, 19515,	19081, 19083,
11950, 11952,	19522, 19702, 19705	19111, 19156,
12120, 12130,	<code>\@thefoot</code> . . . 14163,	19169, 19220,
12140, 12178,	14166, 14170,	19222, 19252,
12191, 12204,	25042, 25048,	19299, 19315,
12267, 12276,	25056, 25059, 25094	19326, 19483,
12285, 12322,	<code>\@thehead</code> . . . 14162,	19504, 19545,
12334, 12346,	14165, 14169,	19559, 19671,
12408, 12418,	25042, 25048,	19692, 19728,
12428, 12466,	25055, 25058, 25078	19742, 20159,
12479, 12492,	<code>\@themargin</code> . 14219,	20313, 20889,
12555, 12565,	15308, 15310,	21043, 21652, 21806
12575, 12613,	15315, 15317,	<code>\@titlecolour</code> 5096, 5113
12626, 12639,	15321, 15323,	<code>\@titlehead</code>
12702, 12712,	25044, 25046,	. 20148, 20150,
12722, 12760,	25050, 25052, 25071	20317, 20878,
12773, 12786,	<code>\@thm</code> 18366, 18387	20880, 21047,
12849, 12859,	<code>\@thmcountersep</code> . . .	21641, 21643, 21810
12869, 12907,	. . . . . 362, 24507	<code>\@titlepageiscoverpagefalse</code>
12920, 12933,	<code>\@threecol@LTRfootgroupv@l</code>	20099, 20829, 21592
12996, 13006,	. . . . . 12245	<code>\@tocextra</code>
13016, 13054,	<code>\@threecol@footgroupv@r</code>	. 22700, 22701,
13067, 13080,	. . . . . 12241	22705, 22707, 22710
13143, 13153,	<code>\@threecol@LTRfootfmt</code>	<code>\@tocline</code> . 2, 208, 16528
13163, 13201,	12278, 12297, 12336	<code>\@tocpagenum</code>
13214, 13227,	<code>\@threecol@LTRfootnotetext</code>	. . . 15, 221, 16541
13290, 13300,	. . . . . 12236, 12271	<code>\@tocrmarg</code> . . 18034,
13310, 13348,	<code>\@threecol@RTLfootfmt</code>	18046, 18058,
13361, 13374,	12287, 12300, 12348	18913, 22746,
13555, 13567,	<code>\@threecol@RTLfootnotetext</code>	22777, 22800,
13579, 13616,	. . . . . 12237, 12280	22817, 22834,
13630, 13644,	<code>\@threecol@footfmt</code> .	22851, 22868,



22885, 22903,	17663, 19145,	\@undefined
22922, 22942,	19286, 19531, 19714	4880, 16802, 17764
22977, 23028,	\@topsep .. 18380, 18400	\@undottedtocline 18031
23571, 23578,	\@topsepadd	\@unexpandable@protect
23888, 24005, 24711	4794, 18381, 18401	. . . . . 5994, 7161
\@todonotes@MissingFigureDown	\@totalleftmargin .	\@unrecurse 22358, 22361
. 24167	. . . . . 14892,	\@uppertitleback ..
\@todonotes@MissingFigureText	14896, 14899,	. 20183, 20190,
. 24144	14908, 16995,	20199, 20234,
\@todonotes@MissingFigureUp	18383, 18384,	20320, 20913,
. 24166	18403, 18404,	20920, 20929,
\@todonotes@author	18887, 24533,	20964, 21050,
. 24077,	24535, 24541,	21676, 21683,
24088, 24113, 24131	24543, 24547,	21692, 21727, 21813
\@todonotes@currentfigcolor	24549, 24553,	\@urlbordercolor ..
. 24148	24555, 24557,	. . . . . 16351, 16353
\@todonotes@currentfigheight	24592, 24594,	\@urlcolor 16365
. 24149	24595, 24596,	\@viiipt 7336,
\@todonotes@currentfigwidth	24601, 24603,	8556, 18421, 18434
. 24149,	24604, 24605,	\@viipt 8556, 18421, 18434
24151, 24161, 24164	24610, 24612,	\@viper 10271,
\@todonotes@drawInlineNote	24613, 24614,	10273, 10275,
. 24072	24619, 24621,	10330, 10332,
\@todonotes@drawLineToLeftMargin	24622, 24623, 25014	10334, 10348,
. 24100, 24103	\@traditionalpoem .	10355, 10599,
\@todonotes@drawLineToRightMargin	. . . . . 9091, 9183	10650, 17991,
. 24100, 24103	\@trivlist .. 18377,	18006, 18008, 18013
\@todonotes@drawMarginNote	18397, 20009,	\@viperoutput
24099, 24102, 24106	20738, 21501, 24526	. . . . . 10277, 10336
\@todonotes@drawMarginNoteWithLine	\@twocol@LTRfootgroupv@l	\@vipt 8557
. 24094	. . . . . 12098	\@vpt 8557
\@todonotes@ifdisabled	\@twocol@footgroupv@r	\@whilesw
. 24173	. . . . . 12094	. 10269, 10328,
\@todonotes@sizecommand	\@twocolLTRfootfmt	14060, 14100,
. 24077,	12132, 12153, 12193	14185, 14969,
24079, 24086,	\@twocolLTRfootnotetext	15022, 17882,
24088, 24090,	. . . . . 12089, 12125	17979, 24812, 24855
24113, 24115,	\@twocolRTLfootfmt	\@wholewidth
24127, 24130,	12142, 12156, 12206	13996, 13998, 14016
24131, 24133, 24136	\@twocolRTLfootnotetext	\@width 32,
\@todonotes@text ..	. . . . . 12090, 12135	247, 409, 590,
. 24077, 24079,	\@twocolfootfmt . . .	772, 1008, 1254,
24088, 24090,	12122, 12150, 12180	1545, 9379, 9533,
24113, 24115,	\@twocolfootnotetext	9812, 10020,
24128, 24134, 24137	. . . . . 12088, 12109	10244, 10309,
\@todonotes@textwidth	\@twosidefalse . . . 7311	10541, 10560,
. 24111	\@twosidetrue . . . 7306	10868, 11434,
\@toodeep .. 2625, 24514	\@typeset@protect .	11734, 11786,
\@topnum .. 112, 326,	. . . . . 4822,	13866, 14089,
516, 865, 1118,	4828, 4834, 4849	14423, 14425,
1369, 8796, 9737,	\@undeclaredcolor .	14870, 14958,
11492, 11589,	. . . . . 10033,	15005, 16519,
13942, 16550,	10041, 24264, 24265	16590, 16817,
		16892, 17017,



17864, 17966,	\@xnewline .. 20429,	21182, 21191,
18109, 18120,	20436, 21180,	21937, 21946,
18152, 18204,	21187, 21935, 21942	22325, 22340,
19023, 19447,	\@xpt .. 122, 320, 345,	22356, 22357,
19604, 19789,	346, 9934, 16560	22562, 22591,
20069, 20799,	\@xpt 7327	24110, 24117,
21562, 22334,	\@xstartcol 15045	24489, 24626,
22373, 24677,	\@xthm 18385, 18405	24667, 24683, 24693
24795, 24844, 25005	\@xtitle 332	\{ ... 4739, 17139, 17183
\@x 9200, 9201	\@xxpt 8561	\} ... 4740, 17139, 24494
\@x@sf 8194,	\@xxxii 4977	_ 4277,
8199, 8205, 8208	\@xympar 7881,	4501, 8087, 8091,
\@xLTRfootnote	7885, 7925, 7929,	8106, 8110, 8125,
... 4871, 4993,	7969, 7973,	8129, 8157, 8161,
9041, 9052, 9258,	24898, 24902,	14762, 14764, 22534
9272, 14484, 14487	24942, 24946, 25009	\] 9209, 14114
\@xLTRfootnotenext	\@yargdef 5963	\^ 4448, 8991,
... 4870, 4992,	\@ympar 25006	8992, 8994, 8995
9040, 9051, 9257,	\@ythm 18385, 18405	_ . 6913, 6925, 6938,
9271, 14646,	\[..... 9208, 14104	7061, 7064, 7075,
14649, 15921, 22408	\ \ 123, 430,	7078, 15336,
\@xRTLfootnote	799, 844, 1052,	15344, 15356,
... 4873, 4995,	1097, 1303, 1348,	15358, 15379,
9043, 9054, 9260,	1874, 2210, 3209,	15387, 15388,
9274, 14475, 14478	4075, 4877, 5174,	15405, 15422,
\@xRTLfootnotenext	5180, 5371, 6447,	15469, 15472,
... 4872, 4994,	6463, 6467, 6696,	15516, 16838, 18359
9042, 9053, 9259,	6698, 6699, 6700,	\` .. 14890, 16992, 18883
9273, 14661,	6708, 6713, 6714,	\| .. 14769, 14770, 14885
14664, 15910, 22409	6716, 7641, 7642,	
\@xaddress 333	7643, 7645, 8605,	Numbers
\@xauthor 333	8974, 9112, 9415,	\0 4376
\@xcentercr . 20438,	9593, 10726,	\1 .. 17081, 17132, 17184
20445, 21189,	10727, 10730,	\9 4376
21196, 21944, 21951	10746, 10833,	
\@xcolor@ . 24272, 24315	10838, 10845,	A
\@xcurraddr 334	10855, 10859,	\abovecaptionskip .
\@xemail 334	11714, 11718,	. 16702, 17703,
\@xepersian@pdfcustomproperties	11727, 15754,	17753, 20480,
..... 4413, 4424	15757, 15770,	20484, 20581,
\@xfloat 4926	15773, 15873,	21231, 21235,
\@xfootnote .. 4869,	16294, 16309,	21333, 21986,
4991, 9039, 9050,	16328, 16561,	21990, 22088, 25110
9256, 9270, 16247	16581, 16585,	\abovedisplayshortskip
\@xfootnotemark . 15932	16666, 16667,	.. 7329, 7338, 8548
\@xfootnotenext ...	16673, 16674,	\abovedisplayskip .
... 4868, 4990,	16794, 16795,	..... 7328,
9038, 9049, 9255,	17000, 18828,	7331, 7337, 7344,
9269, 15899, 22407	18829, 18841,	7378, 8547, 8554
\@xiipt 8559	18842, 18854,	\abstractname .. 676,
\@xipt 8558	18855, 18867,	682, 685, 984,
\@xivpt 315, 8560	19079, 19124,	990, 992, 1237,
\@xmakefntext .. 855,	19218, 19265,	1243, 1246, 9355,
1359, 19135, 19276	20431, 20440,	9545, 18950,



2970, 2971, 3320,	14179,	14765,	22650,	22755,
3322, 3602, 3610,	14779,	14792,	22786,	22809,
3612, 3678, 3750,	14793,	14825,	22826,	22843,
3751, 3753, 3754,	14830,	14831,	22860,	22877,
3768, 4326, 4376,	14834,	14843,	22894,	22912,
4377, 4378, 4547,	14907,	15034,	22931,	22951,
4590, 4595, 4958,	15035,	15039,	22986,	23027,
4972, 4978, 5244,	15040,	15042,	23176,	23180,
5315, 5367, 5727,	15043,	15046,	23291,	23326,
5781, 5835, 6557,	15047,	15048,	23329,	23333,
6716, 6722, 6732,	15049,	15168,	23386,	23811,
6787, 6804, 6813,	16256,	16266,	23831,	23836,
7829, 8535, 8610,	16491,	16538,	23886,	23887,
8961, 8969, 8970,	16810,	16824,	23888,	23891,
9241, 9344, 9366,	16909,	16910,	23895,	23920,
9522, 9556, 9803,	17817,	17819,	23931,	24010,
9869, 10019,	17846,	17847,	24033,	24187,
10027, 10028,	17850,	17917,	24189,	24199,
10068, 10182,	17919,	17946,	24218,	24219,
10348, 10349,	17947,	17950,	24248,	24259,
10352, 10355,	18004,	18005,	24260,	24516,
10356, 10406,	18006,	18007,	24529,	24530,
10407, 10408,	18016,	18038,	24533,	24535,
10470, 10610,	18051,	18063,	24541,	24543,
10611, 10626,	18076,	18206,	24547,	24549,
10645, 10646,	18207,	18378,	24553,	24555,
10876, 10886,	18382,	18383,	24651,	24652,
10887, 10897,	18398,	18402,	24716,	24742,
10907, 10908,	18403,	18411,	24978,	24979,
10924, 10925,	18476,	18504,	24986,	24987,
10926, 10943,	18511,	18559,	24988, 24989, 25014	
10952, 10959,	18564,	18565,	\afterassignment ..	
10981, 10982,	18566,	18595,	..... 4279,	
10983, 10997,	18596,	18622,	4281, 4503,	
11004, 11011,	18633,	18821,	4505, 5995, 6796,	
11158, 11159,	19012,	19040,	8059, 22431, 22432	
11168, 11169,	19385,	19434,	\aftergroup .. 4776,	
11185, 11187,	19476,	19519,	4786, 8043,	
11191, 11193,	19593,	19630,	8058, 10031,	
11197, 11200,	19780,	19837,	10033, 10040,	
11201, 11202,	19903,	20012,	10046, 10065,	
11381, 11422,	20014,	20371,	10359, 10365,	
11694, 12079,	20422,	20739,	10368, 14206,	
12081, 13430,	21122,	21173,	14208, 18678,	
13436, 13481,	21504,	21506,	18679, 18682,	
13483, 13533,	21877,	21928,	18687, 18688,	
13535, 13673,	22286,	22357,	18692, 18697,	
13775, 13776,	22371,	22381,	18698, 18702,	
13777, 13838,	22401,	22496,	18706, 18710,	
13881, 13996,	22540,	22541,	18714, 20449,	
13998, 14000,	22547,	22548,	20451, 20454,	
14006, 14007,	22563,	22579,	21200, 21202,	
14014, 14015,	22592,	22596,	21205, 21955,	
14016, 14178,	22628,	22629,	21957, 21960,	



22597,	23813,	20334,	20812,	\arraylinesep ...	22364
24253,	24262,	21064,	21575, 21827	\arrayrulecolor ..	1517
24264,	24301,	\andify	117, 16555	\arrayrulewidth .	22381
24305,	24358,	\andname ..	844, 1097,	\arraystretch	
24369,	24370,	1348,	19124, 19265	407, 408, 4770,	
24373,	24378,	\andnext	17642	4781, 16815,	
24379,	24383,	\AppendToTokenList	6663	16816, 22332,	
24388,	24389,	\ApplyPatchCodeToFile		22333, 22368,	
24393,	24398,	.....	7198	24502, 24675, 24676	
24402,	24407,	\ApplyPatchCodeToPackage		\aslice 18602, 18603,	
25024, 25034, 25035		... 1504, 1879,		18605, 18607,	
\ALG@floatstyle ...		7279, 16020,		18608, 18610,	
.. 7844, 7845, 7846		16040, 16118,		18623, 18624, 18626	
\algocf@float	199	16865, 17745, 22664		\At@ViperColsBreak	
\algocf@makecaption	189	\ApplyPatchIfPackageLoaded		.... 10373, 10376	
\algocf@within .	167,	..... 601,		\AtBeginCaption .	16744
169, 202, 204, 206		7250, 7266, 7271,		\AtBeginDocument ..	
\alignL	9966	11399, 16743, 24477		..... 1552,	
\alignR	9973	\ApplyPatchIfPackageLoadedF		2197, 3091, 3324,	
\allowbreak .....		.... 171, 2134,		3553, 3623, 3671,	
. 10882, 10903,		7269, 22639, 25123		3791, 3879, 3974,	
12152, 12155,		\ApplyPatchIfPackageLoadedT		4039, 4053, 4178,	
12158, 12296,		..... 7264		4270, 5063, 5123,	
12299, 12302,		\ApplyPatchToClass		5220, 6304, 7422,	
12440, 12443,		..... 7114, 7284		7649, 7783, 7788,	
12446, 12587,		\ApplyPatchToClasses		7841, 8652, 8852,	
12590, 12593,		..... 7109, 25149		8917, 10755,	
12734, 12737,		\ApplyPatchToClassesIfPackageLoadedF		10890,	
12740, 12881,		..... 7119, 25137		10911, 11341,	
12884, 12887,		\ApplyPatchToClassIfPackageLoadedF		13477, 13529,	
13028, 13031,		..... 7124, 7212		13788, 14552,	
13034, 13175,		\ApplyPatchToFile .		15157, 15369,	
13178, 13181,		..... 7090, 7184		15871, 16599,	
13322, 13325, 13328		\ApplyPatchToFiles		16752, 16759,	
\Alph	17685	..... 7085,		18899, 22347, 23960	
\alt	2818	7207, 25288, 25293		\AtBeginPackage .	17746
\and ..	498, 534, 810,	\ApplyPatchToFilesIfPackageLoadedF		\AtBeginDocument 4406,	
836, 839, 881,		..... 7203, 25144		4419, 4432, 5227,	
1063, 1089, 1092,		\ApplyPatchToPackage		6330, 9136,	
1134, 1314, 1340,		..... 7102, 7274		9193, 17124,	
1343, 1385, 1407,		\ApplyPatchToPackageIfPackageLoadedF		15, 17193, 24763	
4635, 9426, 9452,		..... 7232, 25142		\AtEndOfClass	5062
9604, 9630, 9719,		\ApplyPatchToPackages		\AtEndOfPackage ...	
9755, 11474,		..... 7097, 25176		... 4100, 4101,	
11508, 11571,		\var@ialign	415	4107, 4108, 4114,	
11607, 13924,		\varabic ..	19, 20, 21,	4115, 4120, 4121,	
13958, 17641,		22, 87, 199, 225,		4126, 4127, 4139,	
19090, 19116,		226, 227, 228,		4140, 4141, 4142,	
19119, 19161,		301, 341, 14140,		4143, 4178, 4179	
19229, 19257,		14147, 16487,		\AtPageLowerLeft	11149
19260, 19304,		16545, 16546,		\AtPageUpperLeft ..	
19328, 19508,		16547, 16548, 22967		11149, 11173, 11203	
19549, 19696,		\array	447, 24691	\AtTextUpperLeft ..	
19732, 20082,		\arraycolsep	447	.... 11153, 11179	



<code>\author</code>	333, 496, 532, 834, 879, 1087, 1132, 1338, 1383, 4633, 8702, 8734, 9450, 9628, 9717, 9753, 11472, 11506, 11569, 11605, 13922, 13956, 19114, 19159, 19255, 19302, 19506, 19547, 19694, 19730, 20323, 21053, 21816	<code>\baselineskip</code> . .	428, 771, 773, 777, 780, 1253, 1255, 1259, 1262, 2502, 2923, 2938, 2953, 3040, 3042, 3070, 3076, 3219, 5935, 7355, 7357, 7360, 7362, 7364, 7367, 7522, 8152, 8219, 8237, 8255, 8372, 8381, 8390, 8471, 8478, 8485, 8492, 8499, 8599, 8656, 8999, 9060, 9124, 9130, 9378, 9380, 9384, 9387, 9532, 9534, 9538, 9541, 10183, 10184, 10201, 10205, 10612, 14216, 14780, 16851, 16863, 16998, 17015, 18557, 18560, 18574, 18598, 18602, 18607, 18611, 18623, 18634, 18661, 18894, 19022, 19024, 19028, 19031, 19446, 19448, 19452, 19455, 20112, 20842, 21605, 22343, 22382, 24187, 24195, 24199, 24687, 25068, 25091		12369, 12404, 12414, 12424, 12462, 12475, 12488, 12499, 12505, 12511, 12516, 12551, 12561, 12571, 12609, 12622, 12635, 12646, 12652, 12658, 12663, 12698, 12708, 12718, 12756, 12769, 12782, 12793, 12799, 12805, 12810, 12845, 12855, 12865, 12903, 12916, 12929, 12940, 12946, 12952, 12957, 12992, 13002, 13012, 13050, 13063, 13076, 13087, 13093, 13099, 13104, 13139, 13149, 13159, 13197, 13210, 13223, 13234, 13240, 13246, 13251, 13286, 13296, 13306, 13344, 13357, 13370, 13381, 13387, 13393, 13398, 13551, 13563, 13575, 13612, 13626, 13640, 13658, 13669, 13683, 13692
<code>\auto@footnoterule</code>	14439, 14450	<code>\baselinestretch</code> . .			
<code>\autodot</code>	20338, 21067, 21830, 24023				
<code>\autofootnoterule</code>	4139, 10862, 11780, 14448, 15149, 25128				
B					
<code>\backmatter</code>	8906, 9853, 11679				
<code>\Backref@HyperLTFootnote</code>	14679, 14686				
<code>\Backref@HyperRTLFootnote</code>	14685, 14689				
<code>\Backref@HyperSymbol</code>	14687, 14690, 14693, 14696				
<code>\Backref@OptHyperLTFootnote</code>	14692				
<code>\Backref@OptHyperRTLFootnote</code>	14695				
<code>\Backref@OptLTRHyperFootnote</code>	14679				
<code>\Backref@OptRTLHyperFootnote</code>	14685				
<code>\BackrefFootnoteTag</code>	14677, 14678, 14683, 14684, 14703, 14707, 14709, 14715, 14719, 14721, 14727, 14731, 14733				
<code>\badness</code>	10399, 10403, 10431, 10435, 10437, 10442, 10446, 10450, 10514, 10535				
			<code>\BCmd</code> 4775		
			<code>\BDefaboveskip</code> 4790, 4805, 4808		
			<code>\BDefbelowskip</code> 4794, 4806, 4809		
			<code>\BDefinlineskip</code> 4799, 4807, 4810		
			<code>\beamer@ttmpop@button@default</code> 2961		
			<code>\beamer@ttmpop@caption@default</code> 2890		
			<code>\beamer@ttmpop@footline@progressbar</code> 3410		
			<code>\beamer@ttmpop@footnote@default</code>		



..... 2867	\beamer@dimb . 2971,	2517, 2519, 2520
\beamer@biblabeltemplate	2986, 2987, 2989,	\beamer@leftmargin
..... 2669, 2678	3002, 3003, 3005	... 2062, 2079,
\beamer@boxsize ...	\beamer@dogeometryfalse	2264, 2267, 2559,
.. 2716, 2720, 2722	..... 2075	2561, 2574, 3603,
\beamer@colalign ..	\beamer@entrycode 2589	3609, 3750, 3753
..... 2242, 2252	\beamer@enum@ 2604	\beamer@leftsidebar
\beamer@colbox@color	\beamer@enumtempl 2613	.. 2080, 2533, 2550
.. 2000, 2039, 2052	\beamer@exitcode . 2595	\beamer@lefttext ..
\beamer@colbox@colsep	\beamer@firstlineitemizeunskip	..... 3630, 3697
... 2017, 2018,	..... 1891,	\beamer@link 2726
2019, 2020, 2028	2620, 2646, 2661	\beamer@LTRfootnotetext
\beamer@colbox@colseps	\beamer@focus@totalframenumbering .	2454, 2468, 2475
..... 2022,	.. 3419, 3444, 3464	\beamer@minislide .
2029, 2053,	\beamer@footarg 2407,	..... 2739, 2744
2055, 2057, 2059	2408, 2409, 2413,	\beamer@minislidehighlight
\beamer@colbox@dp 2034	2420, 2433, 2434,	..... 2732
\beamer@colbox@ht 2033	2435, 2439, 2446,	\beamer@minislidewidthhighlight
\beamer@colbox@ls 2013	2459, 2460,	..... 2734
\beamer@colbox@rs 2015	2461, 2465, 2472	\beamer@mpfn . 2403,
\beamer@colbox@ssep	\beamer@footins 2295,	2414, 2420,
..... 2014,	2300, 2312, 2317,	2429, 2440, 2446,
2016, 2024, 2026	2329, 2334, 2597	2455, 2466, 2472,
\beamer@colbox@shadow	\beamer@footnotetext	14302, 14308, 14314
..... 2038	.. 2402, 2416, 2423	\beamer@next . 2414,
\beamer@colbox@wd .	\beamer@framebox ..	2418, 2425, 2440,
.. 2011, 2032, 2041	... 2558, 2570,	2444, 2451,
\beamer@colclose ..	2583, 2588, 2592	2466, 2470, 2477
... 2239, 2248,	\beamer@framefootnotetext	\beamer@putleft 3113,
2249, 2280, 2281	..... 2294, 2393	3146, 3158, 3170
\beamer@colentrycode	\beamer@frameLTRfootnotetext	\beamer@putright ..
.. 2258, 2261, 2279	..... 2328, 2395	.. 3147, 3159, 3171
\beamer@colexitcode	\beamer@frameRTLfootnotetext	\beamer@rightmargin
.. 2259, 2271, 2281	..... 2311, 2394	..... 2062,
\beamer@colheadskip	\beamer@frametextheight	2087, 2158, 2268,
..... 2243, 2253	..... 2524,	2273, 3603,
\beamer@colmode ...	2545, 2554,	3611, 3751, 3754
..... 2238, 2247	2558, 2561, 2574	\beamer@rightsidebar
\beamer@columncom 2247	\beamer@frametitlebox	.. 2088, 2534, 2551
\beamer@computepref	..... 2590	\beamer@RTLfootnotetext
..... 2605, 2627	\beamer@framezoom 2481	.. 2428, 2442, 2449
\beamer@cramped ...	\beamer@ftelleft .. 3320	\beamer@section@min@dim
.. 2618, 2644, 2659	\beamer@fterright . 3322	..... 2725
\beamer@defaultospec	\beamer@gobbleoptionalinsp	\beamer@shortinstitute
..... 2624	..... 2818	..... 3489
\beamer@descdefault	\beamer@headheight	\beamer@sidebarformat
..... 2650, 2658	... 3595, 3603,	..... 3656
\beamer@descriptionitem	3606, 3607, 3639,	\beamer@sidebarside
..... 2658	3643, 3646, 3650	..... 3630,
\beamer@dimwidth	\beamer@kvorig 2405,	3672, 3675, 3697
..... 2970, 2985,	2411, 2431,	\beamer@sidebarwidth
2990, 3001, 3006	2437, 2457, 2463	..... 3602,
	\beamer@labelzoomed	3634, 3639, 3640,
	... 2486, 2490,	3642, 3645, 3646,



3658, 3660, 3669, 3672, 3677, 3695	..... 3315	1970, 2037, 2240, 2242, 2250, 2252, 2256, 2499, 2561, 2574, 2692, 2763, 2767, 2786, 2790, 2806, 2810, 2914, 2922, 2929, 2937, 2944, 2952, 2977, 3035, 3041, 3048, 3065, 3071, 3077, 3117, 3124, 3130, 3136, 3205, 3226, 3241, 3243, 3248, 3250, 3255, 3261, 3275, 3277, 3279, 3350, 3351, 3357, 3358, 3377, 3385, 3430, 3456, 3488, 3491, 3494, 3515, 3517, 3522, 3524, 3541, 3542, 3563, 3565, 3569, 3572, 3575, 3581, 3629, 3658, 3660, 3712, 3714, 3719, 3721, 3756, 3769, 3770, 3776, 3805, 3806, 3807, 3824, 3829, 3832, 3845, 3851, 3853, 3867, 3868, 3869, 3893, 3894, 3895, 3905, 3908, 3914, 3917, 3924, 3927, 3941, 3946, 3948, 3961, 3962, 3963, 3984, 3987, 3990, 3996, 3999, 4015, 4018, 4033, 4769, 4771, 4780, 4782, 4785, 5178, 5182, 5184, 5186, 5188, 5192, 5200, 5203, 5238, 5395, 5399, 5419, 5423, 5450, 6367, 6368, 6375, 6401, 7428, 7429, 7442, 7445, 7519, 7520, 7526, 7527, 7534, 7535, 7560, 7561, 7598, 7601, 7604, 7607, 7611, 7612, 7796, 7797, 8415, 8471, 8478, 8485, 8492,
\beamer@slidehaszoomtrue 2483	\beamer@thempfn 2404, 2415, 2421, 2430, 2441, 2447, 2456, 2467, 2473	
\beamer@stalign .. 2694		
\beamer@stend 2697	\beamer@typesetheadorfoot .. 2186, 2191, 2201	
\beamer@stlinebreakrule 2695	\beamer@usesphere 1765, 1770, 1776, 1789, 1804, 1811	
\beamer@ststart .. 2691	\beamer@vboxoffset 2715	
\beamer@temp	\beamer@vmode 1987, 2025	
.. 2544, 2566, 2579	\beamer@xkvorig 2406, 2412, 2432, 2438, 2458, 2464	
\beamer@tempbox 2001, 2032, 2033, 2034, 2042, 2045, 2046, 2048, 2051, 2056, 2061, 2062, 2064, 2116, 2117, 2118, 2119, 2124, 2127, 2138, 2143, 2144, 2152, 2153, 2154, 2155, 2158, 2167, 2172, 2173, 2181, 2182, 2183, 2184, 2220, 2221, 2222, 2223, 2228, 2232, 2233, 2234, 2235, 2965, 2966, 2967, 2968, 2969, 2974, 3014, 3370, 3375, 3379, 3383, 3387, 3391, 3756, 3767, 3784, 4004, 4005, 4023, 4024	\beamer@xpos	
\beamer@tempdim ...	.. 2705, 2710, 2721	
... 2079, 2080, 2082, 2084, 2087, 2088, 2090, 2092, 2117, 2118, 2121, 2122, 2152, 2153, 2181, 2182, 2221, 2222, 2225, 2226, 2266, 2267, 2268, 2269, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2969, 2970, 2971, 2975, 2977, 2983, 2991, 2999, 3007, 3013, 3677, 3678, 3684, 3692, 3752, 3753, 3754, 3767, 3768, 3769, 3778	\beamer@ypos	
\beamer@themrounded@shadow	.. 2711, 2712, 2717	
	\beamer@ypos@offset 2708, 2712	
	\beamer@zoomborderwidth 2485, 2489	
	\beamer@zoombox .. 2514	
	\beamer@zoomcount 2484, 2486	
	\beamer@zoomer ... 2522	
	\beamer@zoomframecount 2486	
	\beamerboxesrounded 1890	
	\beamercolorbox .. 2959	
	\beameritemnestingprefix 1738, 1739, 2605, 2606, 2608, 2609, 2616, 2617, 2627, 2628, 2630, 2631, 2634, 2638, 2639	
	\beameroriginal .. 2818	
	\beamertemplatedotitem 4051	
	\begin	
	462, 472, 477, 540, 548, 784, 797, 808, 887, 893, 1037, 1050, 1061, 1140, 1146, 1288, 1301, 1312, 1392, 1398, 1407, 1409, 1410, 1609, 1788, 1824, 1833, 1842, 1867, 1910, 1932, 1958,	



8499, 8512, 8520,	20879, 20884,	13928, 14059,
8642, 8647, 8780,	20896, 20919,	14097, 14182,
8827, 8850, 9225,	20923, 21113,	14198, 14479,
9400, 9413, 9424,	21578, 21582,	14488, 14650,
9578, 9591, 9602,	21642, 21647,	14665, 14739,
9646, 9658, 9683,	21659, 21682,	14791, 14824,
9693, 9698, 9761,	21686, 21868,	14966, 15019,
9769, 10086,	22643, 24074,	15193, 15209,
10096, 10109,	24081, 24084,	15621, 15900,
10119, 10132,	24095, 24108,	15911, 15922,
10142, 10155,	24111, 24118,	15933, 16031,
10165, 10730,	24124, 24147,	16051, 16089,
10836, 10841,	24151, 24157, 24164	16122, 16153,
10859, 11028,	<code>\begin@bidi@stack</code> .	16184, 16532,
11031, 11035,	..... 5389,	16558, 16736,
11037, 11042,	5399, 5400,	16819, 17648,
11044, 11048,	5413, 5423, 5424	17778, 17879,
11051, 11054,	<code>\begingroup</code> 6,	17976, 18186,
11058, 11060,	120, 212, 314,	18190, 18194,
11064, 11066,	327, 394, 411,	18473, 18770,
11070, 11073,	502, 562, 579,	18771, 18984,
11076, 11080,	710, 736, 851,	19008, 19131,
11082, 11087,	939, 955, 1104,	19272, 19357,
11089, 11260,	1195, 1222, 1355,	19381, 19512,
11326, 11442,	1536, 1979, 1980,	19574, 19589,
11450, 11455,	2115, 2219, 2419,	19700, 19761,
11514, 11520,	2445, 2471, 2497,	19776, 20102,
11535, 11545,	2565, 2578, 4615,	20248, 20361,
11550, 11613,	4904, 4912, 4920,	20420, 20832,
11621, 11713,	5343, 5371, 5390,	20978, 21112,
13892, 13900,	5414, 5685, 5710,	21171, 21595,
13905, 13964,	6061, 6107, 6114,	21741, 21867,
13970, 14107,	6136, 6152, 6168,	21926, 22430,
15622, 15627,	6211, 6219, 6252,	22552, 22576,
15645, 15748,	6302, 6430, 6638,	22600, 22744,
15750, 15764,	6640, 6670, 6680,	23171, 23283,
15766, 16580,	6690, 6820, 7159,	23809, 23926,
17791, 18418,	7622, 8041, 8287,	24266, 24309,
19064, 19077,	8316, 8345, 8719,	24358, 24480,
19088, 19167,	8736, 8752, 8764,	24809, 24852, 25024
19173, 19201,	8797, 9101, 9161,	<code>\beginL</code> ... 177, 1521,
19216, 19227,	9168, 9175, 9205,	2009, 3147, 3159,
19311, 19319,	9316, 9340, 9494,	3171, 4314, 4530,
19328, 19330,	9518, 9723, 9784,	5225, 7903, 7947,
19331, 19462,	9799, 9892,	9996, 10025,
19482, 19487,	10011, 10065,	10031, 10033,
19563, 19660,	10074, 10266,	10065, 12076,
19670, 19675,	10325, 11154,	14009, 14111,
19738, 19746,	11180, 11377,	14126, 14294,
20085, 20089,	11390, 11478,	15159, 15165,
20149, 20154,	11575, 11634,	15174, 15194,
20166, 20189,	13468, 13478,	15210, 15220,
20193, 20362,	13520, 13530,	15343, 15386,
20815, 20819,	13818, 13834,	15444, 15487,



15525,	16255,	25078,	25094,	14616,	14844,
16705,	18474,	25113,	25116, 25124	16825,	16827,
18537,	18672,	<code>\belowcaptionskip</code> .		16884,	16919,
18678,	18694,	.. 16715, 17744,		16926,	16982,
18775,	19950,	17761, 20478,		17991,	18485,
19961,	19968,	20486, 20578,		18680,	18686,
19978,	22498,	21229, 21237,		18690,	18696,
24257,	24262,	21330, 21984,		18700,	18705,
24264,	24358,	21992, 22085, 25118		18708,	18713,
24363,	24369,	<code>\belowdisplayshortskip</code>		18958,	19409,
24385,	24920,	.. 7330, 7339, 8549		22322,	22330,
24998, 25078, 25094		<code>\belowdisplayskip</code> .		22338,	22344,
<code>\beginR</code> 175, 348, 360,		..... 7331,		22375,	22379,
392, 431, 1522,		7344, 7379, 8554		22383,	22542,
3375, 3383, 3391,		<code>\bf</code> .. 4551, 18543, 18545		23918,	24371,
3566, 4874, 7903,		<code>\bfseries</code> 25, 315, 566,		24377,	24381,
7991, 9923, 9997,		582, 715, 739,		24387,	24391,
10026, 10031,		942, 960, 1200,		24397,	24400,
10040, 10046,		1225, 4332, 4725,		24406,	24480,
10065, 11147,		5195, 8779, 9321,		24486,	24664,
12073, 14136,		9343, 9499, 9521,		24673, 24681, 24689	
15161, 15166,		9647, 9659, 9788,		<code>\BHFN@OldLTRFootnote</code>	
15223, 15262,		9802, 9836, 9842,		14672, 14687, 14693	
15269, 15387,		9850, 11380,		<code>\BHFN@OldRTLFootnote</code>	
15451, 15493,		11395, 11638,		14673, 14690, 14696	
15534, 15880,		11661, 11667,		<code>\bib@after@hook</code> ...	
15888, 16270,		11676, 13823,		..... 20406,	
16306, 16338,		13837, 13848,		20408, 21157,	
16367, 16393,		13853, 13861,		21159, 21912, 21914	
16399, 16406,		16527, 18989,		<code>\bib@before@hook</code> ..	
16573, 16705,		19011, 19362,		..... 20356,	
16857, 16919,		19384, 19559,		20407, 21107,	
16926, 16972,		19578, 19592,		21158, 21862, 21913	
17065, 17073,		19765, 19779,		<code>\bib@beginhook</code> 20349,	
17264, 17590,		19812, 19817,		20355, 21100,	
17754, 17756,		19825, 23175,		21106, 21855, 21861	
18547, 18672,		23288, 23719,		<code>\bib@endhook</code>	
18679, 18684,		23723, 23728,		20410, 21161, 21916	
18766, 18767,		23757, 23761, 23766		<code>\bib@heading</code>	
18768, 19944,		<code>\bgroup</code>	172,	20351, 21105, 21860	
19954, 19965,		173, 392, 417,		<code>\bibcleanup</code> 18317	
19972, 20465,		425, 431, 684,		<code>\bibentry</code> 8089, 8091,	
21216, 21971,		1245, 1522, 1892,		8108, 8110, 8127,	
22322, 22344,		1970, 2001, 2010,		8129, 8159, 8161	
22383, 22505,		2258, 2262, 2269,		<code>\bibfont</code>	18296
24258, 24262,		2607, 2629, 2652,		<code>\bibindent</code> .. 5229, 5230	
24301, 24305,		3118, 3125, 3131,		<code>\bibitem@fin</code> ... 18311	
24358, 24363,		3137, 3499, 3635,		<code>\bibliofont</code>	
24370, 24375,		3682, 3689, 3723,		... 86, 300, 16486	
24636, 24639,		3760, 4283, 4507,		<code>\bibliographyitemlabel</code>	
24642, 24657,		4864, 4986, 9033,		..... 5231, 5238	
24664, 24689,		9251, 9265, 9925,		<code>\bibname</code>	8635,
24964, 24998,		9997, 14111,		8636, 9359, 9360,	
25015, 25017,		14112, 14126,		9549, 9550, 9862,	



9863, 11687,	11418, 11690,	\bidi@AfterOutputPageShipOut
11688, 13874,	13877, 16489,	6290, 14231, 25100
13875, 19033,	17790, 18298,	\bidi@Afteroutputpageshipouthook
19034, 19427,	19036, 19430,	..... 6290,
19428, 19623,	19626, 19833,	6291, 14232, 25101
19624, 19830, 19831	20365, 21116,	\bidi@AfterPackage 6962
\bibpostamble ... 18312	21871, 22646, 24511	\bidi@AfterPreamble
\bibpreamble	\bidi@addto@envbody	. 6304, 6305, 16635
. 18295, 20352,	.. 5385, 5403, 5405	\bidi@AfterReadingMainAux
20353, 21102,	\bidi@addto@long@envbody	..... 7069, 7074
21103, 21857, 21858	.. 5409, 5427, 5429	\bidi@append 6213, 6263
\bibsection .. 8630,	\bidi@AfterAtEndOfClass	\bidi@append@csl@csl@csl
8633, 8635,	..... 6947	..... 6651, 6724
8636, 17788,	\bidi@AfterAtEndOfPackage	\bidi@append@list@to@list
18293, 22640, 22642	..... 6980	..... 6647, 6733
\bidi 6921, 6934, 6951,	\bidi@AfterClass . 6893	\bidi@append@to@list
6956, 6984, 6989	\bidi@AfterEndDocument	..... 6626, 6645
\bidi@@convert@dimen@to@pt	..... 6347,	\bidi@append@toks@csl@to@list
..... 5588	6350, 6354, 6360	..... 6655
\bidi@@convert@dimen@to@unit	\bidi@AfterEndDocumentCheckLabelsPerUnit	\bidi@appto .. 5997,
..... 5585	.. 5305, 6319, 6324	6041, 6312, 24865
\bidi@@diagbox@double@ii	\bidi@afterenddocumentchecklabels@perunit	\bidi@apptocmd ..
.... 11029, 11033	.. 6319, 6320, 6325	. 6209, 6210, 22526
\bidi@@diagbox@double@iii	\bidi@afterenddocumenthook	\bidi@are@these@correct
.... 11032, 11040	..... 6347,	..... 6623, 6626
\bidi@@diagbox@triple@setbox@NW@tabular@ii	6348, 6355, 6361	\bidi@AtBeginEnvironment
11049, 11052, 11056	\bidi@AfterEndEnvironment	..... 6364, 6376
\bidi@@diagbox@triple@setbox@NW@tabular@iii	..... 6404, 6414	\bidi@AtEndEnvironment
.... 11055, 11062	\bidi@AfterEndPreamble	..... 6380, 6390
\bidi@@diagbox@triple@setbox@SE@tabular@ii	..... 6307,	\bidi@AtEndOutputPage
.... 11071, 11078	6310, 6313, 6315,	..... 5366,
\bidi@@diagbox@triple@setbox@SE@tabular@iii	6330, 8793, 8816	6293, 14237, 25106
11074, 11077, 11085	\bidi@afterendpreamblehook	\bidi@atendoutputpagehook
\bidi@@end .. 6358, 6362	..... 6307,	..... 6293,
\bidi@@footnotetext@font	6308, 6314, 6316	6294, 14238, 25107
..... 39, 253,	\bidi@AfterFile ...	\bidi@AtEndPreamble
2302, 2351, 8217,	... 3178, 3531,	..... 4381,
14499, 14506, 14600	7148, 14698,	6266, 6269, 6298,
\bidi@L@TRfootnotetext@font	20573, 21325, 22080	6300, 6305, 8073,
..... 69, 282,	\bidi@AfterFooter .	16718, 18149, 18210
2336, 2383, 8235,	..... 6286, 25096	\bidi@autofooterulefalse
14500, 14539, 14585	\bidi@afterfooterhook	14427, 14431, 14434
\bidi@@null . 6530, 6531	. 6286, 6287, 25097	\bidi@autofooteruletrue
\bidi@@patchcmd ...	\bidi@AfterLastShipout	..... 14449
..... 6109, 6111	.. 6332, 6338, 6344	\bidi@backslash ...
\bidi@@RTLfootnotetext@font	\bidi@afterlastshipouthook	..... 6447, 6448
..... 53, 267,	..... 6332,	\bidi@beamer@blacktriangle
2319, 2367, 8253,	6333, 6339, 6345	..... 2849,
14501, 14523, 14570	\bidi@AfterOutputPage	2863, 2864, 2865
\bidi@@thebibliography@font	6280, 14228, 25087	\bidi@beamer@frametitleshade
..... 89, 303,	\bidi@afteroutputboxoutputpagehook	..... 3735, 3780
620, 755, 1020,	..... 6280,	\bidi@beamer@Gm@lmargin
1271, 2667, 5237,	6281, 14229, 25088	..... 2097,
9362, 9552, 9865,		2124, 2127, 2204



<code>\bidi@beamer@Gm@rmargin</code>	6272, 14204, 25031	6679, 6688, 6689
.. 2105, 2213, 2232		
<code>\bidi@beamer@leftskip</code>	<code>\bidi@BeforePackage</code>	<code>\bidi@cs@listb</code>
. 1581,	. . . . . 7154	. . . . . 6673, 6675
1584, 1588, 1591,	<code>\bidi@bswitch</code> 6589, 6591	<code>\bidi@cs@liste</code>
1595, 1605, 1619,	<code>\bidi@CharsBefore</code> .	. . . . . 6671, 6676
1623, 1641, 1659,	. . . . . 6504,	<code>\bidi@cs@appto</code> 6041
1665, 1763, 1769,	6506, 6507, 6512,	<code>\bidi@cs@sarg</code>
1774, 1785, 1803,	6516, 6517, 6522	. . . 6459, 6475,
1810, 2822, 2843,	<code>\bidi@CharsBeforeNC</code>	6549, 6556, 6574,
2846, 2959,	. . . . . 6505	6579, 6584, 6589,
3609, 3610, 3758	<code>\bidi@checkvlist</code> . .	6595, 6600, 6642,
<code>\bidi@beamer@ragged</code>	. . . . . 5259, 5324	6643, 6661, 6667,
. . . 1560, 1826,	<code>\bidi@clearpage</code> . . .	6678, 6688, 6697,
1835, 1844, 1853,	. . . . . 6341, 6343	6707, 6711, 6715
1869, 1885, 2243,	<code>\bidi@collect@body</code>	<code>\bidi@cs@defcs</code> 5691
2253, 2619, 2645,	. . . . . 5391, 5398	<code>\bidi@cs@appto</code>
2660, 2679, 2693,	<code>\bidi@collect@body</code> 5386	. . . . . 6042, 6045
2872, 2894, 3187,	<code>\bidi@collect@long@body</code>	<code>\bidi@cs@sepreto</code>
3195, 3206, 3289,	. . . . . 5415, 5422	. . . . . 6051, 6054
4268, 24411,	<code>\bidi@collect@long@body</code>	<code>\bidi@cs@gappto</code>
24421, 24431,	. . . . . 5410	. . . 6043, 6365,
24432, 24590,	<code>\bidi@column@check@number</code>	6381, 6395, 6405
24599, 24608, 24617	. 24726, 24742,	<code>\bidi@cs@gpreto</code> . . . 6052
<code>\bidi@beamer@rightskip</code>	24744, 24746, 24758	<code>\bidi@cs@let</code> 5697
. . . 2830, 2959,	<code>\bidi@column@status</code>	<code>\bidi@cs@letcs</code> 5694
3611, 3612, 3759	. 4165, 4169, 24728	<code>\bidi@cs@name</code>
<code>\bidi@beamer@today</code>	<code>\bidi@column@type</code> .	. . . 6471, 6622,
. . 3332, 3353, 3360	24743, 24748, 24759	6628, 6673, 6707
<code>\bidi@BeforeBeginEnvironment</code>	<code>\bidi@columnwidth</code> .	<code>\bidi@cs@preto</code> 6050
. 6394, 6402	. 11742, 11744,	<code>\bidi@cs@protect</code> . . 6776
<code>\bidi@BeforeClass</code> 7151	12212, 12218,	<code>\bidi@cs@undef</code> . 1570,
<code>\bidi@BeforeClosingMainAux</code>	12353, 12359,	1572, 1574, 1576,
. 7055, 7060	12500, 12506,	1578, 1598, 1600,
<code>\bidi@BeforeFile</code> . .	12647, 12653,	1602, 1626, 1628,
. . 7145, 7152, 7155	12794, 12800,	1630, 1632, 1634,
<code>\bidi@BeforeFooter</code>	12941, 12947,	1636, 1638, 1756,
. 6283, 25089	13088, 13094,	1758, 1760, 1778,
<code>\bidi@beforefooterhook</code>	13235, 13241,	1780, 1782, 1815,
. 6283, 6284, 25090	13382, 13388,	1817, 1819, 1848,
<code>\bidi@BeforeHeader</code>	13656, 13667, 16948	1863, 2838, 2840,
6274, 14221, 25072	<code>\bidi@copy@stacktop</code>	2857, 2859, 2861,
<code>\bidi@beforeheaderhook</code>	. . . . . 6709	2905, 2907, 2909,
. 6274,	<code>\bidi@copyins@amount</code>	2956, 3030, 3095,
6275, 14222, 25073	. 15038, 15039,	3097, 3099, 3101,
<code>\bidi@BeforeOutputBoxOutputPage</code>	15040, 15043,	3103, 3105, 3107,
6277, 14225, 25084	15048, 15049, 15061	3109, 3201, 3330,
<code>\bidi@beforeoutputboxoutputpagehook</code> . . . 5319, 5365	<code>\bidi@counter@page</code>	3482, 3508, 3559,
. 6277,	. . . 5319, 5365	3587, 3589, 3591,
6278, 14226, 25085	<code>\bidi@cs@a</code> . . 6532, 6533	3593, 3707, 3743,
<code>\bidi@BeforeOutputPageShipOut</code>	<code>\bidi@cs@e</code> . . . 6703,	3797, 3799, 3885,
6271, 14203, 25030	6704, 6706,	3887, 3980, 6197
<code>\bidi@beforeoutputpageshipouthook</code>	6707, 6710, 6712	<code>\bidi@cs@use</code>
. 6271,	<code>\bidi@cs@lista</code> 6676,	. . . 5984, 6371,
	6677, 6678,	6385, 6398, 6409



\bidi@cswitch 6584, 6586	\bidi@ensure@newcommand	12960, 12985,
\bidi@csxappto . . . .	.. 5708, 11893,	13001, 13011,
..... 6044, 6046	11905, 11911,	13021, 13026,
\bidi@csxpreto	11912, 11916,	13029, 13032,
..... 6053, 6055	11917, 11918,	13035, 13059,
\bidi@current@column@status	11919, 11931,	13072, 13085,
24728, 24731, 24764	11943, 11965,	13097, 13107,
\bidi@dbg@fail 6069,	11966, 11971,	13132, 13148,
6079, 6080, 6081,	11972, 11973,	13158, 13168,
6082, 6088, 6097,	11974, 11977,	13173, 13176,
6103, 6205, 6227,	12025, 12027,	13179, 13182,
6239, 6240, 6249	12031, 12032,	13206, 13219,
\bidi@dbg@info	12048, 12065,	13232, 13244,
... 6070, 6072,	12070, 12072,	13254, 13279,
6075, 6077, 6078,	12078, 12080,	13295, 13305,
6089, 6091, 6093,	12084, 12109,	13315, 13320,
6095, 6096, 6098,	12125, 12135,	13323, 13326,
6100, 6102, 6203,	12145, 12150,	13329, 13353,
6228, 6230, 6232,	12153, 12156,	13366, 13379,
6235, 6241, 6243	12159, 12183,	13391, 13401,
\bidi@dbg@init 6067,	12196, 12209,	13409, 13416,
6086, 6202, 6225	12221, 12231,	13419, 13427,
\bidi@dbg@succ	12256, 12271,	13439, 13543,
... 6113, 6204,	12280, 12289,	13561, 13573,
6236, 6244, 6246	12294, 12297,	13585, 13589,
\bidi@dbg@trce	12300, 12303,	13593, 13597,
... 6060, 6106,	12326, 12338,	13622, 13636,
6201, 6210, 6218	12350, 12362,	13650, 13661,
\bidi@default . 6574,	12372, 12397,	13677, 13686,
6579, 6584,	12413, 12423,	13695, 13702,
6589, 6595, 6600	12433, 12438,	13706, 13717, 13718
\bidi@del@tok@from@list	12441, 12444,	\bidi@ensure@newlength
..... 6670	12447, 12471,	5715, 11915, 11975
\bidi@digits . 4370,	12484, 12497,	\bidi@epreto
4376, 4377, 4378	12509, 12519,	.. 6023, 6036, 6051
\bidi@digits@charclass	12544, 12560,	\bidi@eqs@a . 6485, 6486
... 4372, 4376,	12570, 12580,	\bidi@eqs@b . 6485, 6486
4377, 4378, 4379	12585, 12588,	\bidi@EqualString 6485
\bidi@dummies	12591, 12594,	\bidi@EqualStringX 6490
.. 6554, 6556, 6557	12618, 12631,	\bidi@error
\bidi@eappto	12644, 12656,	... 5717, 5969,
.. 6001, 6014, 6042	12666, 12691,	6559, 6666, 6835
\bidi@empty	12707, 12717,	\bidi@everyjob 4232,
... 4386, 4387,	12727, 12732,	4235, 4474, 4476
6529, 6532, 6533	12735, 12738,	\bidi@expandonce ..
\bidi@empty@stack .	12741, 12765,	..... 5989,
..... 6714, 6720	12778, 12791,	6000, 6004, 6008,
\bidi@empty@toks ..	12803, 12813,	6012, 6022, 6026,
.. 6727, 6730, 6734	12838, 12854,	6030, 6034, 6247
\bidi@endpreamblehook	12864, 12874,	\bidi@ff@box
..... 6266,	12879, 12882,	.... 14245, 14263
6267, 6299, 6301	12885, 12888,	\bidi@firstcolumn@status@write
\bidi@ensure@new@command	12912, 12925,	... 4163, 4171,
..... 5708, 5709	12938, 12950,	10247, 10306,



14050, 14086, 14955, 15008, 17867, 17963, 24735, 24798, 24841	\bidi@ifpatchable . .. 6063, 6065, 6112	\bidi@looprepeat@csargromannumeral ... 6773, 6788, 6789, 6790, 6791, 6792, 6795, 6800, 6801, 6802, 6803, 6804, 6806, 6812, 6825, 6827, 6828, 6829, 6836, 6837, 6839, 6844, 6852
\bidi@floathook 11743, 13467, 13519, 13794, 13796	\bidi@ifpatchable@i 6063, 6084	\bidi@looprepeat@csromannumeral 6772, 6796, 6804, 6807, 6823, 6851
\bidi@font@@outputpage 14211, 25021, 25063	\bidi@ifpattern 6076, 6167	\bidi@looprepeat@depth ... 6772, 6773, 6775, 6787, 6813
\bidi@footdir@footnote . 80, 294, 2397, 14554, 14556, 14560	\bidi@ifscanable 6073, 6094, 6135, 6233	\bidi@looprepeat@dxbody 6796, 6800
\bidi@footskip 11994, 12001, 12012, 12019, 13674	\bidi@in@front@of@cslist 6679, 6680	\bidi@looprepeat@setup 6793, 6819
\bidi@fswitch 6600, 6602	\bidi@in@front@of@list 6678	\bidi@looprepeat@sign .. 6793, 6804, 6834
\bidi@gappto . 5360, 6005, 6043, 6266, 6271, 6274, 6277, 6280, 6283, 6286, 6290, 6293, 6307, 6319, 6332, 6347	\bidi@info 5720	\bidi@looprepeat@tmp 6794, 6795, 6822, 6824, 6827, 6832, 6839, 6842, 6844, 6847
\bidi@gpreto 6027, 6052	\bidi@init@multi@footins 13782, 13799, 13804, 13805	\bidi@looprepeat@traceexit 6778, 6813
\bidi@hooktocmd 6213, 6221, 6223	\bidi@invert@csstack 6719	\bidi@looprepeat@traceinit 6778, 6786
\bidi@hooktocmd@i 6237, 6251	\bidi@IsEmptyList 6533	\bidi@looprepeat@zero .. 6793, 6812, 6850
\bidi@hop@ES 6493, 6495	\bidi@joinfootnotes 11967, 11968, 11969, 11989	\bidi@lst@caption@direction 16667, 16668, 16680, 16683
\bidi@ifblank@i 5663, 5664, 5666	\bidi@joinmpfootnotes 12007, 12028, 12029	\bidi@lst@caption@script 16674, 16675, 16691, 16694
\bidi@ifdefmacro 5669, 5671, 5672, 5673	\bidi@lastcolumn@status@write 4167, 4172, 10251, 10312, 14054, 14092, 14961, 15012, 17871, 17969, 24802, 24847	\bidi@lst@ensure@caption@direction 16703, 16705, 16707, 16726, 16730, 16737, 16746
\bidi@ifdefparam 6180, 6182, 6183, 6184	\bidi@leave@mult@copyins 18205, 18216	\bidi@lst@ensure@caption@script 16689, 16701, 16745
\bidi@ifdefprotected 6189, 6191, 6192, 6193	\bidi@left@footnoterule 16950, 16956, 16961	\bidi@LTRrigidbalance . 12075, 12220, 12230, 12361, 12371, 12508, 12518, 12655, 12665, 12802, 12812, 12949, 12959, 13096,
\bidi@ifEmpty 6532	\bidi@leftskip 23176, 23178, 23180, 23181, 23291, 23348, 23350, 23386, 23387, 23419, 24409	
\bidi@ifempty 6530	\bidi@length@of@csstack .. 6715, 6716, 6719	
\bidi@ifEmptyX ... 6531	\bidi@length@of@stack 6715, 6729	
\bidi@ifhashcheck . .. 6074, 6151, 6234	\bidi@local@in@front@of@list 6683, 6700	
\bidi@ifhashcheck@i 6155, 6157	\bidi@local@push@onto 6699	
\bidi@ifhashcheck@ii 6159, 6162, 6163, 6164	\bidi@looprepeat@comp .. 6793, 6829, 6834	
\bidi@ifmulticol .. . 11983, 11993, 12011, 13796, 13800	\bidi@looprepeat@csarg 6771, 6823	
\bidi@ifNextChar . 6540		



13106, 13243,	\bidi@mpfootnoterule	\bidi@next ... 6506,
13253, 13390, 13400	..... 2346,	6507, 6509, 6511,
\bidi@make@eightcol@LTRfootgroup	2362, 2378,	6512, 6514, 6519,
.... 12973, 13091	14331, 14565,	6521, 6522, 6524
\bidi@make@fivecol@LTRfootgroup	14580, 14595,	\bidi@NextChar ... 6537
.... 12532, 12650	14634, 17037, 22524	\bidi@normal@footmarkwidth
\bidi@make@fourcol@LTRfootgroup	\bidi@mswitch 6595, 6597	..... 11902,
.... 12385, 12503	\bidi@multicol@align@columns	11958, 11964,
\bidi@make@mpeightcol@LTRfootgroup	..... 18091,	12107, 12254,
.... 12981, 13102	18142, 18145, 18147	12395, 12542,
\bidi@make@mpfivecol@LTRfootgroup	\bidi@everypar ..	12689, 12836,
.... 12540, 12661	. 18674, 18675,	12983, 13130,
\bidi@make@mpfourcol@LTRfootgroup	18676, 18677,	13277, 13490, 13541
.... 12393, 12514	24180, 24365,	\bidi@notblank 5665,
\bidi@make@mpninecol@LTRfootgroup	24366, 24367, 24368	5673, 6184, 6193
.... 13128, 13249	\bidi@namedef 6416	\bidi@nxt@a
\bidi@make@mppara@LTRfootgroup	\bidi@nameedef ... 6418	.. 6538, 6541, 6543
13464, 13517, 13686	\bidi@namegdef	\bidi@nxt@b
\bidi@make@mpsevendcol@LTRfootgroup	5365, 5722, 6417	.. 6538, 6541, 6544
.... 12834, 12955	\bidi@namelongdef 5700	\bidi@nxt@c
\bidi@make@mpsixcol@LTRfootgroup	\bidi@namelongedef 5704	.. 6539, 6542, 6543
.... 12687, 12808	\bidi@namelonggdef 5702	\bidi@nxt@ch
\bidi@make@mpntencol@LTRfootgroup	\bidi@namelongxdef 5706	.. 6538, 6541, 6543
.... 13275, 13396	\bidi@namexdef ... 6419	\bidi@o@everypar ..
\bidi@make@mpthreecol@LTRfootgroup	\bidi@new@command .	..... 18673,
.... 12252, 12367	..... 5941,	18675, 18676,
\bidi@make@mptwoocol@LTRfootgroup	5943, 5972, 5980	24364, 24366, 24367
.... 12105, 12226	\bidi@new@ifnch ...	\bidi@oldwbuskip ..
\bidi@make@nincol@LTRfootgroup	..... 5436, 5438	..... 6665, 6668
.... 13120, 13238	\bidi@new@ifnextchar	\bidi@orig@leftline
\bidi@make@para@LTRfootgroup	..... 5433, 24501	24638, 24644, 24645
13455, 13505, 13661	\bidi@newcommand ..	\bidi@orig@raggedleft
\bidi@make@sevencol@LTRfootgroup	..... 5943, 5945	24629, 24631, 24632
.... 12826, 12944	\bidi@newrobustcmd	\bidi@orig@raggedright
\bidi@make@sixcol@LTRfootgroup	... 4278, 4280,	24630, 24631, 24632
.... 12679, 12797	5940, 5941, 5965,	\bidi@orig@rightline
\bidi@make@tencol@LTRfootgroup	5976, 5997, 6001,	24641, 24644, 24645
.... 13267, 13385	6005, 6009, 6014,	\bidi@oswitch 6579
\bidi@make@threecol@LTRfootgroup	6015, 6019, 6023,	\bidi@p@ftn .. 4818,
.... 12244, 12356	6027, 6031, 6036,	4881, 4883, 4884,
\bidi@make@twocol@LTRfootgroup	6037, 6041, 6042,	4886, 4887, 4889,
.... 12097, 12215	6043, 6044, 6045,	4890, 4894,
\bidi@makecolbf ...	6046, 6050, 6051,	4897, 4900, 5005
.... 13756, 13768	6052, 6053, 6054,	\bidi@p@ftntext ...
\bidi@matrix@check	6055, 6059, 6105,	.. 4865, 4882, 4987
..... 5442, 24496	6196, 6197, 6209,	\bidi@p@LTRftntext
\bidi@matrix@error	6217, 6266, 6269,	.. 4866, 4885, 4988
..... 5444, 5448	6271, 6274, 6277,	\bidi@p@RTLftntext
\bidi@mopfn@bottom	6280, 6283, 6286,	.. 4867, 4888, 4989
..... 13723,	6290, 6293, 6304,	\bidi@p@exfootnote .
13736, 13769, 13770	6307, 6310, 6319,	.. 4869, 4903, 4991
\bidi@mopfootnotebf	6332, 6347, 6350,	\bidi@p@xftntext ..
.... 13732, 13763	6364, 6380, 6394,	..... 4868,
	6404, 24460, 24467	4893, 4908, 4990



\bidi@p@xLTRfootnote	18791, 22513, 22521	5393, 5407, 5412,
.. 4871, 4911, 4993	\bidi@patchcmd@scantoks	5416, 5417, 5431
\bidi@p@xLTRftntext	.. 6123, 6129, 6259	\bidi@protected 5992,
..... 4870,	\bidi@pdfencrypt@keylength	6014, 6015, 6036,
4896, 4916, 4992	..... 4347, 4399	6037, 6045,
\bidi@p@xRTLfootnote	\bidi@pdfencrypt@ownerpassword	6046, 6054, 6055
.. 4873, 4919, 4995	.. 4342, 4386, 4398	\bidi@protected@cseappto
\bidi@p@xRTLftntext	\bidi@pdfencrypt@permissionflags.....	6045
..... 4872,	..... 4352, 4400	\bidi@protected@csepreto
4899, 4924, 4994	\bidi@pdfencrypt@userpassword	..... 6054
\bidi@page@count ..	.. 4337, 4387, 4397	\bidi@protected@csxappto
..... 5286,	\bidi@pdfm@mark ...	..... 6046
5287, 5321, 5367	..... 4564, 4578	\bidi@protected@csxpreto
\bidi@paraskip 13436,	\bidi@pickescape . 6480	..... 6055
13485, 13537, 13673	\bidi@pop@cs@into .	\bidi@protected@eappto
\bidi@parse@ver ...	..... 6703, 6722	..... 6014
..... 5601, 5602	\bidi@pop@into	\bidi@protected@epreto
\bidi@parse@ver@ ..	..... 6706, 6732	..... 6036
..... 5595,	\bidi@pos 5722,	\bidi@protected@immediate@write
5601, 5609, 5619	5730, 5758, 5784,	.. 7062, 7076, 7158
\bidi@patch@AfterFile	5812, 5838,	\bidi@protected@xappto
.. 7176, 7186, 7200	5841, 5875, 5878	..... 6015
\bidi@patch@AfterPackage	\bidi@poscount	\bidi@protected@xpreto
... 7168, 7276,	... 5724, 5727,	..... 6037
7281, 8185, 8187,	5730, 5747, 5749,	\bidi@provide@command
8190, 8211, 8362,	5758, 5772, 5774,	..... 5976, 5978
8412, 8468, 8712	5781, 5784, 5801,	\bidi@providerobustcmd
\bidi@patchcmd . 172,	5803, 5812, 5826,	..... 5976
180, 189, 350,	5828, 5835, 5838,	\bidi@push@begins .
602, 605, 609,	5841, 5858, 5860,	.. 5395, 5396, 5399
612, 1979, 6105,	5864, 5866, 5875,	\bidi@push@cs@onto@cs
6106, 6322, 6335,	5878, 5892, 5894,	..... 6696, 6723
6352, 6369, 6383,	5898, 5900, 5907,	\bidi@push@long@begins
6407, 7506,	5909, 5910, 5912,	.. 5419, 5420, 5423
11027, 11030,	5913, 5916, 5917,	\bidi@push@onto .. 6697
11047, 11050,	5924, 5926, 5927	\bidi@push@onto@cs
11053, 11069,	\bidi@prepend 6221, 6264	..... 6697, 6698
11072, 11075,	\bidi@prepend@csl@to@csl@list	\bidi@raggedleft ..
11093, 11101,	..... 6653	..... 5172,
11109, 11118,	\bidi@prepend@list@to@list	5179, 5184, 5203,
11127, 11136,	..... 6649	10726, 10842,
11400, 11403,	\bidi@prepend@to@list	14024, 15664, 24634
11407, 11410,	..... 6646	\bidi@raggedright .
15306, 15552,	\bidi@prepend@toks@cs@to@list	..... 14023,
15560, 16417,	..... 6656	18227, 18230,
16425, 16433,	\bidi@preto	18232, 18235,
16441, 16449,	... 6019, 6050,	18237, 18239,
16458, 16466,	6296, 13789, 13802	18242, 18244,
16475, 16611,	\bidi@pretocmd 6217,	18246, 18248,
16617, 16625,	6218, 6397, 6439	18251, 18253,
16719, 16732,	\bidi@PreventPackageFromLoading	18255, 18257,
16938, 18212,	..... 7003	18259, 18262,
18359, 18464,	\bidi@process@envbody	18264, 18267,
18770, 18779,	... 5388, 5392,	18269, 18272,



18274, 18276,	\bidi@rightskip ...	\bidi@switch . 6563,
18279, 18281,	..... 23172,	6574, 6576, 6581
18283, 18286,	23284, 23352,	\bidi@switch@exit .
18288, 18290, 24633	23353, 23365,	..... 6573,
\bidi@rcol@copyinsskip	23369, 23373, 24410	6574, 6575, 6579,
..... 14918,	\bidi@RTL@everypar	6580, 6584, 6585,
14923, 14932, 14981	. 13550, 13562,	6589, 6590, 6595,
\bidi@reflect@box .	13574, 13611,	6596, 6600, 6601
. 18751, 18758,	13625, 13639,	\bidi@t@w@w 6624
24453, 24461, 24468	18672, 18676,	\bidi@tabular@RTLCases
\bidi@reinsert@footnotes	22262, 24363, 24367	.... 24476, 24503
13786, 13808, 13809	\bidi@s@tffttextcol	\bidi@tempcountb ..
\bidi@reinserts ...	.... 14242, 14246	... 6451, 6720,
13773, 13791, 13792	\bidi@s@saved@eqno ..	6721, 6730, 6731
\bidi@releasename .	..... 18762,	\bidi@temptoksa ...
..... 4061,	18764, 18765,	... 6452, 6720,
4062, 4063, 4220,	25119, 25121, 25122	6723, 6724, 6725,
4259, 4262, 4265,	\bidi@s@saved@leqno .	6727, 6730, 6734
4445, 4446, 4462,	..... 18763,	\bidi@temptoksb ...
4555, 4558, 4561	18764, 18765,	... 6453, 6722,
\bidi@removexfootskip	25120, 25121, 25122	6723, 6724, 6725
. 11995, 12013,	\bidi@sepmark@charclass	\bidi@todonotes@tempa
13448, 13504, 13676	..... 4373,	.... 24056, 24064
\bidi@removexparafotskip	4374, 4375, 4379	\bidi@todonotes@tempb
13448, 13504, 13672	\bidi@set@column@status	..... 24056,
\bidi@renew@command	24730, 24758, 24763	24057, 24064, 24065
.. 5965, 5967, 5981	\bidi@set@cslist ..	\bidi@tok@SM 6671, 6676
\bidi@renewrobustcmd	..... 6689, 6690	\bidi@toks@lista ..
5965, 24464, 24471	\bidi@set@list ... 6688	..... 6636,
\bidi@ReplaceClass 7139	\bidi@SOUL@ulleaders	6638, 6639, 6640,
\bidi@ReplaceInput 7130	.... 22303, 22309	6641, 6672, 6674,
\bidi@ReplacePackage	\bidi@stack@length	6680, 6681, 6683,
..... 7133	..... 6714,	6685, 6690, 6691
\bidi@ResetPreventPackageFromLoading	6716, 6717, 6721,	\bidi@toks@listb ..
..... 7031	6722, 6731, 6732	.. 6636, 6672, 6674
\bidi@resrvda . 6115,	\bidi@star@footmarkwidth	\bidi@typesethour .
6116, 6117, 6120,	. 11902, 11961,	..... 4320,
6121, 6122, 6123,	12107, 12254,	4322, 4323, 4324,
6124, 6125, 6130,	12395, 12542,	4327, 4541, 4543,
6133, 6137, 6138,	12689, 12836,	4544, 4545, 4548
6139, 6140, 6141,	12983, 13130,	\bidi@typesetminute
6143, 6144, 6153,	13277, 13490, 13541	..... 4321,
6155, 6169, 6170,	\bidi@startparafotskip	4324, 4325, 4326,
6172, 6174, 6175,	. 13435, 13438,	4328, 4542, 4545,
6253, 6254, 6255,	13487, 13488, 13539	4546, 4547, 4549
6256, 6257, 6258,	\bidi@storecatcode	\bidi@undef
6259, 6260, 6261	... 6457, 7190,	... 2867, 2890,
\bidi@resrvdb 6117, 6118	7221, 7240, 7256	2961, 3410, 6125,
\bidi@restorecatcode	\bidi@StorePreventPackageFromLoading	6261, 6301,
... 6464, 7193,	..... 7037	6316, 15329,
7226, 7243, 7259	\bidi@StringBefore 6515	15330, 15370,
\bidi@right@footnoterule	\bidi@StringBeforeNC	15371, 15372,
16951, 16954, 16963	..... 6503	15373, 23031,



23032, 23192, 23193, 23442, 23443	\bidiGscale@box 15242, 15243	9160, 9256, 9270
\bidi@undefined 5262, 6196, 6198	\bidiGscale@box ... 15219, 15220, 15239	\bidipoem@p@xftntext 9038, 9049, 9151,
\bidi@undefinedcs 6549, 6556, 6611, 6615, 6621, 6625, 6666	\bidiGscale@box@dd 15251, 15255, 15261	9165, 9255, 9269
\bidi@UnPreventPackageFromLoading 7040	\bidiGscale@box@ddd 15257, 15268	\bidipoem@p@xLTRfootnote ... 9041, 9052, 9167, 9258, 9272
\bidi@UnReplaceClass 7142	\bidilogo 4552	\bidipoem@p@xLTRftntext 9040, 9051, 9154, 9172, 9257, 9271
\bidi@UnReplaceInput 7131	\bidipdfinfooff .. 4576	\bidipoem@p@xRTLfootnote ... 9043, 9054, 9174, 9260, 9274
\bidi@UnReplacePackage 7136	\bidipdfinfoon 4575, 4580	\bidipoem@p@xRTLftntext 9042, 9053, 9157, 9179, 9259, 9273
\bidi@version 4060, 4063, 4220, 4237, 4259, 4262, 4265, 4444, 4462, 4480, 4482, 4555, 4558, 4561	\bidipoem@half@verses .. 8983, 8984, 8987	\bidipoem@set@@verse .. 8963, 8966, 8968
\bidi@w@w 6611	\bidipoem@half@verses@next .. 8983, 8984, 8985	\bidipoem@set@verseI 8962, 8965
\bidi@warning 5718, 6374, 6388, 6400, 6412	\bidipoem@hvind 8957, 8960, 8961, 8969, 8970, 8973, 8976	\bidipoem@set@verseII 8962, 8965
\bidi@warningnoline 604, 607, 611, 614, 5719, 11402, 11405, 11409, 11412, 18777, 18789, 18807	\bidipoem@hvlen 8956, 8961, 8963, 8974, 8976	\bidipoem@spreadbox ... 8952, 8974, 8976, 8977, 8978
\bidi@willbeunhskip .. 6658, 6665, 6668	\bidipoem@hvsep 8956, 8969, 8970, 8977	\bidireleasename 4062, 4446
\bidi@x@stack@to@list 6729	\bidipoem@next 8962, 8963	\bidirlap 24646
\bidi@xappto 6009, 6015, 6044	\bidipoem@openbox 9001, 9006	\bidituftefloatDebugInfoNL ... 7294, 7382, 7386, 7681, 7730
\bidi@xargdef 5947, 5955	\bidipoem@p@ftn 9008, 9018, 9142, 9143, 9145, 9146, 9148, 9149, 9152, 9155, 9158, 9263, 16121, 16131, 16152, 16162, 16183, 16193	\bidituftefloatError 7293, 7776
\bidi@xparaskip 13430, 13432, 13434, 13484, 13536	\bidipoem@p@LTRftntext 9036, 9047, 9144, 9253, 9267, 16150	\bidituftefloatInfoNL .. 7294, 7295, 7845
\bidi@xpreto 6031, 6037, 6053	\bidipoem@p@RTLftntext 9037, 9048, 9147, 9254, 9268, 16181	\bidituftefloatRecalculate 7411, 7422
\bidicolor 9991, 10047, 10062, 10064, 14243, 24306, 24353, 24356, 24357	\bidipoem@p@xfootnote ... 9039, 9050,	\bidituftesidenotemarginpar .. 7861, 8213, 8372
\bidics 6448		\bidituftetocError .. 8401, 8448, 8457
\bididate 4059, 4063, 4220, 4259, 4262, 4442, 4462, 4555, 4558		\bidiversion 4237, 4477



<code>\bm@b</code>	24707	7670, 8415, 8419,	17872, 17964,
<code>\bm@l</code>	24704	8467, 8680, 8817,	17970, 18107,
<code>\bm@r</code>	24705	8886, 8897, 14257	18113, 18128,
<code>\bm@t</code>	24706		18136, 18445,
<code>\bmb@box</code>	1909,	<code>\botmark</code> . .	14236, 25105
	1914, 1915, 1916,	<code>\box</code>	1924,
	1919, 1920, 1924,		2042, 2046, 2048,
	1925, 1926, 1932,		2056, 2062, 2064,
	1933, 1945,		2118, 2122, 2124,
	1951, 1955, 1970		2144, 2153, 2155,
<code>\bmb@colorbox</code>	1969		2173, 2182, 2184,
<code>\bmb@dim</code>	1929,		2222, 2226, 2228,
	1942, 1945, 1946,		2235, 2510, 2514,
	1947, 1948,		2562, 2575, 2592,
	1959, 1960, 1961		2597, 2968, 2974,
<code>\bmb@dimb</code>	1930,		3014, 3784, 4315,
	1943, 1944, 1947		4531, 7831, 9898,
<code>\bmb@lower</code> . .	1896, 1972		9962, 10030,
<code>\bmb@prevheight</code> . . .			10189, 10192,
	. . . . .		10209, 10213,
	1917, 1926		10248, 10252,
<code>\bmb@temp</code> 1920, 1921,			10258, 10259,
	1922, 1924, 1928,		10307, 10313,
	1929, 1930, 1940		10317, 10318,
<code>\bmb@upper</code> . .	1901, 1911		10544, 10549,
<code>\bmb@width</code> . . .	1910,		10556, 10563,
	1919, 1928,		10599, 10883,
	1958, 1959, 1970		10904, 10920,
<code>\bool</code> . .	15333, 15354,		10977, 12072,
	15376, 15402,		12075, 13413,
	15466, 15477,		13425, 13749,
	15513, 17065,		13759, 14051,
	17073, 17204,		14055, 14087,
	17221, 17222,		14093, 14136,
	17266, 17272,		14227, 14260,
	17287, 17310,		14265, 14858,
	17313, 17333,		14865, 14868,
	17338, 17350,		14882, 14956,
	17367, 17368,		14962, 15009,
	17371, 17388,		15013, 15052,
	17413, 17420,		15064, 15075,
	17426, 17432,		15085, 15098,
	17442, 17449,		15170, 15187,
	17471, 17583,		15190, 15233,
	17586, 17594,		15236, 15266,
	17595, 18360,		15283, 16713,
	18446, 18448, 18457		16861, 16916,
<code>\boolean</code> .	7294, 7354,		16920, 16938,
	7356, 7359, 7363,		16940, 16942,
	7366, 7369, 7394,		17283, 17541,
	7490, 7505, 7516,		17552, 17557,
	7536, 7543, 7551,		17591, 17592,
	7568, 7588, 7592,		17593, 17594,
	7610, 7611, 7614,		17596, 17725,
	7615, 7650, 7659,		17759, 17868,
			17872, 17964,
			17970, 18107,
			18113, 18128,
			18136, 18445,
			18453, 18458,
			18547, 18551,
			18567, 18601,
			18605, 18610,
			18614, 18626,
			18637, 18651,
			18654, 18658,
			18663, 18739,
			18755, 18793,
			18801, 19875,
			19884, 19922,
			19933, 22505,
			22580, 22598,
			24250, 24251,
			24261, 24457,
			24649, 24799,
			24803, 24842,
			24848, 24976,
			24992, 25003,
			25016, 25018,
			25082, 25086, 25116
		<code>\boxdef</code> . .	4767, 4769,
			4775, 4780, 4785
		<code>\boxmaxdepth</code>	10875,
			10880, 10896,
			10901, 10928,
			10985, 13719,
			13734, 13992,
			14811, 14813, 15137
		<code>\br</code> . . .	18578, 18580,
			18582, 18583,
			18584, 18588,
			18644, 18650, 18658
		<code>\BR@b@bibitem</code>	8066, 8067
		<code>\BR@bibitem</code> .	8069, 8070
		<code>\BR@c@bibitem</code>	8071
		<code>\bracetext</code> . . .	4282,
			4506, 18678,
			18679, 24369, 24370
		<code>\break</code>	16796
		<code>\BreakBibliography</code>	
			. . . . . 20358,
			20391, 20393,
			20399, 21109,
			21142, 21144,
			21150, 21864,
			21897, 21899, 21905
		<code>\breakhere</code> . .	3377, 3385
		<code>\breaklooprepeat</code> . .	
			. . . 6757, 6759,



6811, 6812, 6830, 6841, 6846, 6860	\bx@OO 7745, 7772	9822, 9824, 9825, 11645, 11647,
\breakrepeatloop . 6786	\bx@P 7719, 7760	11649, 11650,
\bs 4735, 4736, 4738	\bx@p 7705, 7725, 7766	13985, 13987,
\bslice 18598, 18599, 18601, 18611, 18612, 18614, 18634, 18635, 18637, 18661, 18662, 18663	\bx@PP 7746, 7772	13989, 14269, 14271, 14273, 14274, 14282, 14284, 14286, 14287, 16763, 17687, 18340, 19056, 19058, 19060, 19421, 19423, 19425, 19612, 19614, 19616, 19797, 19799, 19801, 19802
\bx@A 7716, 7757	\bx@Q 7719, 7760	\c@colht 17812, 17824, 17850, 17851, 17912, 17924, 17950, 17951
\bx@a 7690, 7722, 7763	\bx@q 7706, 7725, 7766	\c@curpg 14151, 14178, 14179
\bx@AA 7729, 7731, 7769	\bx@QQ 7747, 7772	\c@DFNsloppiness 10873, 10894
\bx@B 7716, 7757	\bx@R 7719, 7760	\c@enumiv . 621, 628, 756, 763, 1021, 1028, 1272, 1279, 2668, 2677, 5248, 9363, 9370, 9553, 9560, 9866, 9873, 11419, 11426, 11691, 11698, 13878, 13885, 19037, 19044, 19431, 19438, 19627, 19634, 19834, 19841, 20367, 20376, 20383, 21118, 21127, 21134, 21873, 21882, 21889, 22647, 22654
\bx@b 7691, 7722, 7763	\bx@r 7707, 7725, 7766	\c@equation 9394, 9572, 9820, 11270, 11339, 11645, 13985, 14269, 14282, 17687, 19056, 19425, 19612, 19797, 21096, 21851
\bx@BB 7732, 7769	\bx@RR 7748, 7772	\c@figure 9396, 9574, 9822, 11647, 13987, 14271, 14284,
\bx@C 7716, 7757	\bx@S 7680, 7682, 7720, 7761	
\bx@c 7692, 7722, 7763	\bx@s 7708, 7726, 7767	
\bx@CC 7733, 7769	\bx@SS 7749, 7773	
\bx@D 7716, 7757	\bx@T 7683, 7720, 7761	
\bx@d 7693, 7722, 7763	\bx@t 7709, 7726, 7767	
\bx@DD 7734, 7769	\bx@TT 7750, 7773	
\bx@E 7716, 7757	\bx@U 7684, 7720, 7761	
\bx@e 7694, 7722, 7763	\bx@u 7710, 7726, 7767	
\bx@EE 7735, 7769	\bx@UU 7751, 7773	
\bx@F 7717, 7758	\bx@V 7685, 7720, 7761	
\bx@f 7695, 7723, 7764	\bx@v 7711, 7726, 7767	
\bx@FF 7736, 7770	\bx@VV 7752, 7773	
\bx@G 7717, 7758	\bx@W 7686, 7721, 7762	
\bx@g 7696, 7723, 7764	\bx@w 7712, 7727, 7768	
\bx@GG 7737, 7770	\bx@WW 7753, 7774	
\bx@H 7717, 7758	\bx@X 7687, 7721, 7762	
\bx@h 7697, 7723, 7764	\bx@x 7713, 7727, 7768	
\bx@HH 7738, 7770	\bx@XX 7754, 7774	
\bx@I 7717, 7758	\bx@Y 7688, 7721, 7762	
\bx@i 7698, 7723, 7764	\bx@y 7714, 7727, 7768	
\bx@II 7739, 7770	\bx@YY 7755, 7774	
\bx@J 7717, 7758	\bx@Z 7689, 7721, 7762	
\bx@j 7699, 7723, 7764	\bx@z 7715, 7727, 7768	
\bx@JJ 7740, 7770	\bx@ZZ 7756, 7774	
\bx@K 7718, 7759	\bye 4578	
\bx@k 7700, 7724, 7765	\bystep 6739, 6751, 6835, 6848, 6858, 6871, 6884, 6885	
\bx@KK 7741, 7771		
\bx@L 7718, 7759	C	
\bx@l 7701, 7724, 7765	\c 4075, 15482, 15483, 17267, 17268, 17282, 17544, 17625	
\bx@LL 7742, 7771	\c@abspage 14361	
\bx@M 7718, 7759	\c@addvipersep 17812, 17830, 17835, 17857, 17887, 17912, 17930, 17935, 17957, 17984	
\bx@m 7702, 7724, 7765	\c@algocf 169	
\bx@MM 7743, 7771	\c@chapter 9394, 9396, 9398, 9572, 9574, 9576, 9820,	
\bx@N 7718, 7759		
\bx@n 7703, 7724, 7765		
\bx@NN 7744, 7771		
\bx@O 7719, 7760		
\bx@o 7704, 7725, 7766		



17688, 19058,	\c@secnumdepth	919, 952, 970,
19421, 19614,	. . . . 316, 9636,	1176, 1192,
19799, 21085, 21844	9834, 11659,	1210, 9297, 9313,
\c@footnote . . . 129,	13847, 18817, 19811	9329, 9475, 9491,
330, 503, 793,	\c@section . . . 2728,	9507, 9780, 9795,
852, 1046, 1105,	9388, 9566,	11373, 11387,
1297, 1356, 4616,	9826, 11651,	11631, 13815,
9409, 9587,	13979, 14275,	13830, 16529,
9724, 11479,	14288, 17676,	18032, 18044,
11576, 13929,	18350, 19050,	18056, 18965,
14643, 14657,	19415, 19617,	18981, 18997,
15934, 16044,	19803, 21074, 21833	19338, 19354,
16052, 16082,	\c@subparagraph 600,	19370, 19571,
16090, 16567,	750, 1005, 1266,	19585, 19757,
16896, 16899,	9392, 9570, 9830,	19772, 22727,
19073, 19132,	11532, 11655,	22731, 22773,
19212, 19273,	13983, 14279,	22792, 22814,
19470, 19513,	14292, 17684,	22831, 22848,
19701, 20129,	19054, 19419,	22865, 23157,
20250, 20859,	19621, 19807,	23269, 23307,
20980, 21622, 21743	20345, 21082, 21841	23807, 24003, 24709
\c@Hy@AnnotLevel . .	\c@subsection	\c@twb 10199
. 16256,	. . . . . 597, 747,	\c@twcompctr . . . 10180
16257, 16262, 16266	1002, 1263, 2729,	\c@twcompodctr . 10196
\c@ll@chapseci . . 10072	9389, 9567, 9827,	\c@twfirst . . 10181,
\c@ll@chapsecii . 10067	11529, 11652,	10187, 10194,
\c@lofdepth 22882, 22919	13980, 14276,	10198, 10207, 10210
\c@lor@error 10036,	14289, 17678,	\c@twlftside . . . 10185
10043, 10051,	19051, 19416,	\c@twlspec
10057, 24298, 24332	19618, 19804,	10199, 10202, 10206
\c@lotdepth 22900, 22939	20339, 21076, 21835	\c@twprune . . 10185,
\c@lstlisting	\c@subsectionslide 2731	10186, 10202, 10206
. 16763, 16765	\c@subsubsection 598,	\c@twrounds . 10197,
\c@LT@chunks . . . 16824	748, 1003, 1264,	10200, 10203, 10215
\c@mpfootnote . 2346,	9390, 9568, 9828,	\c@twrtside . . . 10186
2362, 2378,	11530, 11653,	\c@twslicea . 10183,
14565, 14580,	13981, 14277,	10185, 10189,
14595, 14621, 17046	14290, 17680,	10192, 10201,
\c@NAT@ctr 18299	19052, 19417,	10202, 10209, 10213
\c@page . 8824, 11155,	19619, 19805,	\c@twsliceb . 10184,
11183, 14151,	20341, 21078, 21837	10186, 10189,
14178, 24213, 24972	\c@table 9398,	10192, 10205,
\c@paragraph . . 599,	9576, 9824,	10206, 10209, 10213
749, 1004, 1265,	11649, 13989,	\c@twwinlines
9391, 9569, 9829,	14273, 14286,	. . . . . 10182, 10195
11531, 11654,	17689, 19060,	\c@zabspace 14361
13982, 14278,	19423, 19616,	\cals@activate@rtl 9946
14291, 17682,	19801, 21088, 21847	\cals@AtBeginTable 9963
19053, 19418,	\c@thisframe	\cals@AtEndTable . 9965
19620, 19806,	. 14150, 14155,	\cals@backup@row . 9962
20343, 21080, 21839	14191, 14193, 14194	\cals@borderB 9961
\c@part 2703	\c@tocdepth 3,	\cals@borderL 9958
\c@poem@no . . . 9093,	209, 558, 575,	\cals@borderR 9959
9135, 9187, 9198	691, 707, 725,	\cals@borderT 9960



<code>\cals@current@context</code>	<code>\caption@@make</code> .. 16879	<code>\centering</code> 315,
..... 9952	<code>\caption@@par</code> 9983	3204, 10730,
<code>\cals@last@context</code> 9951	<code>\caption@begin</code> .. 16873	10743, 10859,
<code>\cals@paddingL</code> 9968,	<code>\caption@belowskip</code>	15667, 15752,
9970, 9975, 9977	..... 16877	15768, 17710,
<code>\cals@paddingR</code>	<code>\caption@end</code> ... 16881	17712, 17714,
..... 9972, 9979	<code>\caption@hangindent</code>	20217, 20947, 21710
<code>\cals@set@tohsiz</code> 9955	..... 9984	<code>\CenteringLeftskip</code>
<code>\cals@set@cellprevdepth</code>	<code>\caption@ifdefined</code>	..... 18832
..... 9955	..... 16876	<code>\CenteringParfillskip</code>
<code>\cals@set@padding</code> . 9955	<code>\caption@LT@make</code> 16867	..... 18835
<code>\cals@setup@alignment</code>	<code>\caption@LT@settype</code>	<code>\CenteringParindent</code>
..... 9939, 9954	..... 16868	..... 18836
<code>\cals@table@alignment</code>	<code>\caption@LT@setup</code> 16869	<code>\CenteringRightskip</code>
..... 9944, 9945	<code>\caption@make@above</code>	..... 18833
<code>\cals@tbreak@tokens</code>	..... 16878	<code>\centerline</code>
..... 9949	<code>\caption@make@below</code>	... 319, 14865,
<code>\cals@tfoot@height</code> 9950	..... 16880	14882, 18766, 24635
<code>\cals@tfoot@tokens</code>	<code>\caption@makecaption</code>	<code>\cftbeforechapskip</code>
..... 9948, 9965	..... 9981, 16748	..... 22775
<code>\cals@thead@tokens</code> 9947	<code>\caption@normalsize</code>	<code>\cftbeforefigskip</code> 22883
<code>\cals@vfillAdd</code> 9940,	..... 16874	<code>\cftbeforeparaskip</code>
9942, 9968, 9977	<code>\caption@parindent</code> 9984	..... 22849
<code>\cals@vfillDrop</code> 9941,	<code>\caption@prepare@stepcounter</code>	<code>\cftbeforepartskip</code>
9942, 9970,	..... 16872	..... 22743
9972, 9975, 9979	<code>\caption@setautoposition</code>	<code>\cftbeforesecskip</code> .
<code>\CAny</code> .....	..... 16870	.... 22794, 22797
4756	<code>\caption@starfalse</code>	<code>\cftbeforesubfigskip</code>
<code>\cAny</code> .....	.... 16749, 16871	..... 22920
4764	<code>\caption@startrue</code> .	<code>\cftbeforesubparaskip</code>
<code>\cap@indent</code>	16750, 16756, 16871	..... 22866
. 20531, 20539,	<code>\captionabove</code> .....	..... 22815
20549, 20552,	20596, 21348, 22103	<code>\cftbeforesubsubsecskip</code>
20554, 21282,	<code>\captionbelow</code> .....	..... 22832
21290, 21300,	20598, 21350, 22105	<code>\cftbeforesubtabskip</code>
21303, 21305,	<code>\captionformat</code> ....	..... 22940
22037, 22045,	. 20492, 20524,	<code>\cftbeforetabskip</code> 22901
22055, 22058, 22060	20535, 20546,	<code>\cftchapaftersnum</code> 22784
<code>\cap@left</code> ... 20463,	20557, 21243,	<code>\cftchapaftersnumb</code>
20500, 21214,	21275, 21286,	..... 22785
21251, 21969, 22006	21297, 21308,	<code>\cftchapfillnum</code> . 22788
<code>\cap@margin</code>	21998, 22030,	<code>\cftchapfont</code> ... 22787
20419, 21170, 21925	22041, 22052, 22063	<code>\cftchapindent</code>
<code>\cap@right</code> .. 20471,	<code>\captionlabelfalse</code>	22776, 22779, 23026
20567, 21222,	..... 16754	<code>\cftchapnumwidth</code> ..
21318, 21977, 22073	<code>\catcode</code> . 4443, 4579,	.... 22782, 23027
<code>\cap@width</code> .. 20448,	6132, 6460, 6461,	<code>\cftchappresnum</code> . 22783
20501, 21199,	6462, 6502, 7187,	<code>\cftchapterprecistoc</code>
21252, 21954, 22007	7216, 7237, 7253,	..... 23025
<code>\caption</code>	8038, 8060, 8991,	<code>\cftdot</code>
7499,	8992, 8994, 8995,	..... 22723
7500, 7502, 7558,	14769, 14770, 14885	<code>\cftdotfill</code> 23017
15637, 15655,	<code>\Centering</code>	<code>\cftdotsep</code>
16799, 17763,	18827	..... 23016
17765, 20504,		<code>\cftfigaftersnum</code> 22892
20505, 21255,		
21256, 22010, 22011		



<code>\cftfigaftersnumb</code>	22893	<code>\cftsubparaindent</code>	13874, 19033, 19427, 19623, 19830
<code>\cftfigfillnum</code>	.. 22896	.... 22867, 22870	
<code>\cftfigfont</code>	.... 22895	<code>\cftsubparanumwidth</code>	<code>\chapterheadendvskip</code>
<code>\cftfigindent</code>	.....	..... 22873	..... 18822
.... 22884, 22887		<code>\cftsubparapresnum</code>	<code>\chapterheadstartvskip</code>
<code>\cftfignumwidth</code>	. 22890	..... 22874	..... 18814
<code>\cftfigpresnum</code>	.. 22891	<code>\cftsubsecaftersnum</code>	<code>\chaptermark</code> 8898, 22684
<code>\cftparaaftersnum</code>	22858	..... 22824	<code>\chaptername</code> 320, 17696
<code>\cftparaaftersnumb</code>	..... 22859	<code>\cftsubsecaftersnumb</code>	<code>\chapterstyle</code> ... 17691
<code>\cftparafillnum</code>	. 22862	..... 22825	<code>\char</code> 4380, 4739, 4740, 6448
<code>\cftparafont</code>	... 22861	<code>\cftsubsecfillnum</code>	22828
<code>\cftparaindent</code>	....	<code>\cftsubsecfont</code>	.. 22827
.... 22850, 22853		<code>\cftsubsecindent</code>	..
<code>\cftparanumwidth</code>	22856	.... 22816, 22819	.... 14769, 16667, 16668, 16674, 16675
<code>\cftparapresnum</code>	. 22857	<code>\cftsubsecnumwidth</code>	<code>\checkfloats</code> ... 10624
<code>\cftpartaftersnum</code>	22753	..... 22822	<code>\CheckCommand</code>
<code>\cftpartaftersnumb</code>	..... 22754	<code>\cftsubsecpresnum</code>	.... 16041, 16079
<code>\cftpartfillnum</code>	. 22757	<code>\cftsubsubsecaftersnum</code>	<code>\checkoddpage</code> 7393
<code>\cftpartfont</code>	... 22756	..... 22841	<code>\CIIIAAny</code> 4757
<code>\cftpartindent</code>	....	<code>\cftsubsubsecaftersnumb</code>	<code>\ciiAny</code> ..... 4765
.... 22745, 22748		..... 22842	<code>\circle</code> 10088, 10091, 10098, 10101, 10111, 10114, 10121, 10124, 10134, 10137, 10144, 10147, 10157, 10160, 10167, 10170
<code>\cftpartnumwidth</code>	22751	<code>\cftsubsubsecfillnum</code>	
<code>\cftpartpresnum</code>	...	..... 22845	
.... 22752, 22756		<code>\cftsubsubsecfont</code>	22844
<code>\cftpnmalign</code>	... 22722	<code>\cftsubsubsecindent</code>	.... 22833, 22836
<code>\cftsecaftersnum</code>	22807	<code>\cftsubsubsecnumwidth</code>	..... 22839
<code>\cftsecaftersnumb</code>	22808	<code>\cftsubsubsecpresnum</code>	..... 22840
<code>\cftsecfillnum</code>	.. 22811	..... 22840	<code>\cite</code> 8075, 8167, 8173, 8174, 8268, 8273, 8294, 8302, 8323, 8331, 8352, 8370, 8374, 8379, 8383, 8388, 8392, 18308, 18309
<code>\cftsecfont</code>	.... 22810	<code>\cftsubtabaftersnum</code>	
<code>\cftsecindent</code>	.....	..... 22949	<code>\citeasnoun</code> 18309
.... 22799, 22802		<code>\cftsubtabaftersnumb</code>	<code>\citeN</code> 18308
<code>\cftsecnumwidth</code>	. 22805	..... 22950	<code>\cites</code> 8168
<code>\cftsecpresnum</code>	.. 22806	<code>\cftsubtabfillnum</code>	22953
<code>\cftsubfigaftersnum</code>	..... 22929	<code>\cftsubtabfont</code>	.. 22952
<code>\cftsubfigaftersnumb</code>	..... 22930	<code>\cftsubtabindent</code>	..
<code>\cftsubfigfillnum</code>	22933	.... 22941, 22944	.... 22941, 22944
<code>\cftsubfigfont</code>	.. 22932	<code>\cftsubtabnumwidth</code>	..... 22947
<code>\cftsubfigindent</code>	..	..... 22947	<code>\cftsubtabpresnum</code> 22948
.... 22921, 22924		<code>\cfttabaftersnum</code>	22910
<code>\cftsubfignumwidth</code>	..... 22927	<code>\cfttabaftersnumb</code>	22911
<code>\cftsubfigpresnum</code>	22928	<code>\cfttabfillnum</code>	.. 22914
<code>\cftsubparaaftersnum</code>	..... 22875	<code>\cfttabfont</code>	.... 22913
<code>\cftsubparaaftersnumb</code>	..... 22876	<code>\cfttabindent</code>	.....
<code>\cftsubparafillnum</code>	..... 22879	.... 22902, 22905	.... 22902, 22905
<code>\cftsubparafont</code>	. 22878	<code>\cfttabnumwidth</code>	. 22908
		<code>\cfttabpresnum</code>	.. 22909
		<code>\chapnumfont</code>	... 18816
		<code>\chapter</code>	. 8413, 8441, 8511, 8519, 8635, 8641, 9359, 9549, 9862, 11687,



21700, 21722,	\col@number	133, 138,	12480, 12493,
21728, 21735, 22009		140, 143, 144,	12556, 12566,
\ClassWarningNoLine		151, 509, 858,	12576, 12614,
..... 17747		1111, 1362, 9730,	12627, 12640,
\cleardoubleemptypage		11485, 11582,	12703, 12713,
20220, 20950, 21713		11984, 11993,	12723, 12761,
\cleardoublepage ..		12011, 13783,	12774, 12787,
... 8777, 8822,		13784, 13935,	12850, 12860,
8824, 8881, 8894,		17654, 17994,	12870, 12908,
8908, 9855, 11681		18076, 18081,	12921, 12934,
\clearpage 651,		18155, 18156,	12997, 13007,
667, 917, 1170,		18158, 18161,	13017, 13055,
6336, 6337, 6341,		18162, 18169,	13068, 13081,
6342, 7777, 8789,		19138, 19279,	13144, 13154,
8824, 8910, 9291,		19524, 19707,	13164, 13202,
9469, 9680,		20255, 20985, 21748	13215, 13228,
9857, 11683,	\col@sep	.....	13291, 13301,
18941, 19197,		394, 447, 9987,	13311, 13349,
19658, 20222,		9988, 16811, 24480	13362, 13375,
20952, 21715, 22718	\color	..... 1610,	13557, 13569,
\clip 3434, 3457		1613, 1650, 1682,	13581, 13618,
\clist ... 6995, 7001,		1705, 1726, 1747,	13632, 13646,
7005, 7006, 7014,		1793, 1934, 1936,	13725, 13738,
7015, 7028, 7033,		1975, 2070, 2738,	14514, 14531,
7034, 7038, 7042,		2743, 2818, 2978,	14547, 14575,
7043, 7045, 7047,		3643, 4651, 4652,	14590, 14605,
7083, 7087, 7088,		4653, 4654, 4655,	14617, 15105,
7092, 7095, 7099,		4656, 5172,	15115, 15122,
7100, 7104, 7107,		10032, 10035,	16885, 16983, 24870
7111, 7112, 7116,		10038, 10056,	\color@block
7121, 7122, 7126		10059, 10724,	.....
\CloneTOCEntryStyle		10727, 10737,	.... 10029, 24261
..... 20608,		10855, 17009, 24263	\color@box 10062, 24353
20621, 20639,	\color@	... 24303, 24350	\color@endbox . 5006,
20648, 21360,		\color@b@x .. 10024,	7897, 7941, 7985,
21373, 21392,		10062, 10064,	19947, 19957,
21401, 22115,		24256, 24353, 24356	19975, 24914,
22128, 22147, 22156	\color@begingroup .		24958, 25079, 25095
\closing 11721		..... 2001,	\color@endgroup 2031,
\clubpenalty ... 93,		2306, 2323, 2340,	2309, 2326, 2343,
307, 630, 631,		2356, 2372, 2388,	2359, 2375, 2391,
764, 1029, 1280,		8223, 8241, 8259,	8227, 8245, 8263,
2680, 2681, 5249,		9261, 9275,	9263, 11821,
9109, 9371, 9561,		11819, 11833,	11835, 11849,
9875, 9876,		11847, 11860,	11862, 11874,
11427, 11700,		11872, 11884,	11886, 12045,
11701, 13886,		12121, 12131,	12123, 12133,
16493, 18305,		12141, 12179,	12143, 12181,
19045, 19439,		12192, 12205,	12194, 12207,
19636, 19637,		12268, 12277,	12270, 12279,
19843, 19844,		12286, 12323,	12288, 12325,
20385, 21136,		12335, 12347,	12337, 12349,
21891, 22656, 22657		12409, 12419,	12411, 12421,
\coffeefont 18052		12429, 12467,	12431, 12469,
			12482, 12495,



12558,	12568,	15014,	16501,	13078,	13199,
12578,	12616,	17874,	17991,	13212,	13225,
12629,	12642,	18084,	18130,	13346,	13359,
12705,	12715,	18934,	19190,	13372,	13471,
12725,	12763,	19651,	24218,	13523,	13614,
12776,	12789,	24223,	24227,	13628,	13642,
12852,	12862,	24233, 24236, 24804		13866,	13871,
12872,	12910,	<code>\columnseprule</code> . 100,		14047,	14049,
12923,	12936,	230, 643, 659,		14053,	14057,
12999,	13009,	909, 1162, 4600,		14085,	14091,
13019,	13057,	5082, 9283, 9461,		14420,	14423,
13070,	13083,	9672, 10244,		14425,	14510,
13146,	13156,	10309, 10541,		14527,	14543,
13166,	13204,	10560, 14048,		14571,	14586,
13217,	13230,	14089, 14958,		14601,	14619,
13293,	13303,	15005, 16501,		14900,	14907,
13313,	13351,	17864, 17966,		14954,	14960,
13364,	13377,	18109, 18120,		15003,	15007,
13559,	13571,	18933, 19189,		15011,	15015,
13583,	13620,	19650, 24795, 24844		15609,	15610,
13634,	13648,	<code>\columnseprulecolor</code>		16516,	16590,
13729,	13742,	.... 18108, 18119		16595,	16948,
14517,	14534,	<code>\columnwidth</code> 29, 42,		16986,	17862,
14550,	14578,	56, 72, 244, 256,		17866,	17870,
14593,	14608,	270, 285, 590,		17873,	17962,
14638,	15108,	595, 779, 1014,		17968,	17991,
15118, 15125, 24873		1261, 2299, 2316,		18020,	18026,
<code>\color@fb@x</code> 24354, 24355		2333, 2352, 2368,		18188,	18192,
<code>\color@fb@x</code> 10063, 24354		2384, 4292, 4298,		18196,	18201,
<code>\color@h@x</code>		4996, 9386, 9540,		19030,	19454,
. 19944, 19954,		9812, 9817, 9927,		19604,	19609,
19972, 25076, 25092		10242, 10246,		19789,	19794,
<code>\color@setgroup</code> ...		10250, 10254,		20077,	20116,
.... 10065, 24358		10305, 10311,		20117,	20807,
<code>\color@v@x</code> .. 4984,		10539, 10543,		20846,	20847,
7888, 7932,		10548, 10553,		21570,	21609,
7976, 24905, 24949		10555, 10562,		21610,	24793,
<code>\colorA</code> 9638, 9647, 9659		10873, 10894,		24797,	24801,
<code>\colorB</code>	9644,	11434, 11439,		24805,	24840,
9650, 9656, 9662		11734, 11739,		24846, 24997, 24999	
<code>\colorblend</code> . 24270,		11744, 11786,		<code>\contentslabel</code>	
24271, 24313, 24314		11816, 11830,		... 8472, 8479,	
<code>\colorbox</code> 2054,		11844, 11857,		8486, 8493, 8500	
4812, 4814, 4815		11869, 11881,		<code>\contentsline</code> ... 15872	
<code>\colorlet</code> 1898, 1903,		12176, 12189,		<code>\contentsmargin</code> . 22620	
1973, 1974, 2003,		12202, 12320,		<code>\contentspush</code> ... 22594	
2005, 2994, 3034		12332, 12344,		<code>\convertcolorspec</code> .	
<code>\columncolor</code> 1516, 9995		12464, 12477,		..... 24277,	
<code>\columnsep</code> 100,		12490, 12611,		24280, 24320, 24323	
230, 644, 660,		12624, 12637,		<code>\Coord</code> 4753	
910, 1163, 4599,		12758, 12771,		<code>\coord</code> 4758	
5081, 9284, 9462,		12784, 12905,		<code>\CoordIII</code> 4755	
9673, 10253,		12918, 12931,		<code>\coordiii</code> 4760	
10552, 14056,		13052, 13065,		<code>\Coordn</code> 4754	



<code>\coordn</code>	4759	<code>\count@</code>	1456,	214, 259, 273,
<code>\Coordx</code>	4750, 4753,		1515, 5330, 5334,	288, 345, 346,
	4754, 4755, 4756,		5337, 5457, 5462,	401, 1419, 2305,
	4757, 4758, 4759,		5473, 5477, 9993,	2322, 2339, 2355,
	4760, 4764, 4765		18071, 18072,	2371, 2387, 2420,
<code>\coordx</code>	4761		18074, 18076,	2446, 2472, 2491,
<code>\Coordy</code>	4751, 4753,		18083, 18104,	2520, 4841, 4842,
	4754, 4755, 4756,		18105, 18107,	4856, 4857, 4883,
	4757, 4758, 4759,		18124, 18125,	4886, 4889, 4905,
	4760, 4764, 4765		18128, 18414,	4913, 4921, 4976,
<code>\coordy</code>	4762		18422, 18435, 22432	5290, 5293, 5296,
<code>\Coordz</code>	4752, 4755,	<code>\counterwithout</code> . . .		5298, 5300, 5303,
	4757, 4760, 4765		17692,	5306, 5314, 5315,
<code>\coordz</code>	4763		17693, 17694, 17695	5320, 5344, 5346,
<code>\copy</code>	1951, 7884,	<code>\coverpagebottommargin</code>		5348, 5349, 5350,
	7928, 7972, 9931,		20109, 20839, 21602	5351, 5354, 5356,
	10222, 10285,	<code>\coverpageleftmargin</code>		5360, 5362, 5391,
	10394, 10884,		20104, 20105,	5392, 5415, 5416,
	10905, 14030,		20107, 20834,	5443, 5464, 5468,
	14066, 14928,		20835, 20837,	5479, 5483, 5487,
	14977, 15178,		21597, 21598, 21600	5491, 5502, 5510,
	15224, 16912,	<code>\coverpagerightmargin</code>		5518, 5526, 5528,
	16927, 16934,		20107, 20837, 21600	5530, 5534, 5535,
	17796, 17896,	<code>\coverpagetopmargin</code>		5592, 5606, 5616,
	18671, 18754,		20103,	5634, 5676, 5686,
	18824, 24456,		20109, 20833,	5692, 5693, 5695,
	24773, 24820,		20839, 21596, 21602	5696, 5698, 5699,
	24901, 24945, 25008	<code>\cr</code>	421,	5701, 5703, 5705,
<code>\cor@height</code>	17819,		9056, 9063, 9119,	5707, 5909, 5910,
	17820, 17847,		12074, 12077,	5912, 5913, 5916,
	17848, 17887,		12079, 16831,	5917, 5926, 5927,
	17919, 17920,		22338, 22376, 24681	5962, 5963, 5986,
	17947, 17948, 17984	<code>\crrc</code>	4878, 9059,	6041, 6042, 6043,
<code>\count</code>	4287,		22326, 22356,	6044, 6050, 6051,
	4511, 4979, 6766,		24491, 24494, 24668	6052, 6053, 6198,
	7873, 7917, 7961,	<code>\CROP@llc</code>	10130	6369, 6370, 6372,
	11985, 12057,	<code>\CROP@lrc</code>	10153	6383, 6384, 6386,
	12062, 12092,	<code>\CROP@ulc</code>	10084	6397, 6407, 6416,
	12096, 12239,	<code>\CROP@urc</code>	10107	6417, 6418, 6419,
	12243, 12380,	<code>\CROP@execopt</code> . . .	10177	6442, 6466, 6471,
	12384, 12527,	<code>\cs</code>	7050, 7061, 7062,	6475, 6491, 6509,
	12531, 12674,		7064, 7075, 7076,	6511, 6519, 6521,
	12678, 12821,		7078, 15331,	6530, 6531, 6611,
	12825, 12968,		15352, 15374,	6615, 6648, 6650,
	12972, 13115,		15400, 15464,	6661, 6662, 6676,
	13119, 13262,		15482, 15483,	6684, 6686, 6713,
	13266, 13447,		15511, 16777,	6734, 6771, 6772,
	13454, 13503,		17122, 17173,	6773, 6789, 6790,
	13774, 13783,		17191, 17245,	6791, 6792, 7620,
	14161, 14920,		17260, 17548,	7621, 7628, 7629,
	14929, 14931,		17550, 18442, 18443	8221, 8239, 8257,
	14978, 14980,	<code>\cs@a</code>	6533	8288, 8317, 8346,
	15307, 15313,	<code>\csname</code> 8, 45, 59, 75,		8588, 9114, 9142,
	24890, 24934, 25042		167, 169, 199,	9145, 9148, 9162,



9169, 9176, 9184,	15883,	15887,	23716,	23719,
9185, 9223, 9248,	15901,	15912,	23723,	23728,
9249,	10038,	15923,	16123,	23732,
10044,	10052,	16154,	16185,	23736,
10059,	11818,	16534,	17776,	23750,
11832,	11846,	17777,	17784,	23754,
11859,	11871,	19988,	19992,	23757,
11883,	12120,	19996,	20080,	23761,
12130,	12140,	20304,	20594,	23766,
12178,	12191,	20611,	20613,	23770,
12204,	12267,	20615,	20618,	23775,
12276,	12285,	20624,	20632,	23777,
12322,	12334,	20634,	20636,	23778,
12346,	12408,	20642,	20644,	23781,
12418,	12428,	20717,	20721,	23785,
12466,	12479,	20725,	20810,	23835,
12492,	12555,	21034,	21346,	23837,
12565,	12575,	21363,	21365,	23844,
12613,	12626,	21367,	21370,	23845,
12639,	12702,	21376,	21384,	23849,
12712,	12722,	21386,	21389,	23854,
12760,	12773,	21395,	21397,	23858,
12786,	12849,	21480,	21484,	23869,
12859,	12869,	21488,	21573,	23870,
12907,	12920,	21797,	22101,	23874,
12933,	12996,	22118,	22120,	23880,
13006,	13016,	22122,	22125,	23935,
13054,	13067,	22131,	22139,	23940,
13080,	13143,	22141,	22144,	24036,
13153,	13163,	22150,	22152,	24037,
13201,	13214,	22328,	22354,	24039,
13227,	13290,	22356,	22388,	24042,
13300,	13310,	22410,	22412,	24043,
13348,	13361,	22428,	22429,	24047,
13374,	13555,	22449,	22456,	24521,
13567,	13579,	22701,	22966,	24586,
13616,	13630,	22967,	22983,	24670,
13644,	13994,	22984,	22985,	24731, 24744, 24746
14138,	14139,	22992,	22994,	\CT@do@color 9990
14145,	14146,	22995,	23048,	\CT@cell@color
14251,	14252,	23049,	23207,	. . . . . 1540, 10015
14253,	14254,	23208,	23312,	\CT@color 9989
14256,	14258,	23337,	23364,	\CT@column@color . .
14259,	14260,	23368,	23372,	. . . . . 1538, 10013
14261,	14263,	23429,	23481,	\CT@do@color
14264,	14265,	23484,	23498,	. 1541, 9990, 10016
14351,	14375,	23514,	23515,	\CT@extract . 1516, 9995
14393,	14480,	23531,	23538,	\CT@row@color
14489,	14512,	23543,	23561,	. . . . . 1539, 10014
14529,	14545,	23562,	23574,	\CT@setup 1505, 1506,
14574,	14589,	23575,	23630,	1508, 1509, 1513,
14604,	14651,	23685,	23687,	1537, 9986, 10012
14666,	15874,	23689,	23705,	\cumpartcl 18575
15877,	15879,	23708,	23714,	\cumtcl 18575
				\curraddr 334
				\current@color 10031,
				10037, 10044,
				10052, 10058,
				14747, 14752,
				24262, 24299,
				24300, 24304,
				24333, 24334, 24351
				\CurrentOption 8836,
				8837, 8838,
				8839, 8840, 8860,
				8861, 8862, 8863,
				8864, 10670, 10768
				\currentposxwidth 5906
				\currentposyheight 5923
				\CustomFBox 14749



96, 99, 108, 109,
110, 111, 123,
133, 134, 136,
208, 229, 238,
239, 240, 241,
246, 249, 263,
278, 310, 313,
325, 331, 348,
357, 362, 364,
389, 398, 403,
436, 447, 448,
449, 455, 504,
505, 536, 634,
766, 790, 791,
799, 838, 839,
841, 846, 848,
853, 855, 883,
1031, 1043, 1044,
1052, 1091, 1092,
1094, 1099, 1101,
1106, 1107, 1136,
1282, 1294, 1295,
1303, 1342, 1343,
1345, 1350, 1352,
1357, 1359, 1387,
1407, 1417, 1418,
1421, 1427, 1455,
1468, 1469, 1472,
1485, 1493, 1501,
1502, 1505, 1506,
1509, 1514, 1987,
2000, 2070, 2113,
2114, 2190, 2201,
2210, 2217, 2219,
2231, 2239, 2249,
2258, 2259, 2261,
2271, 2280, 2281,
2284, 2285, 2286,
2289, 2290, 2291,
2407, 2408, 2409,
2414, 2418, 2433,
2434, 2435, 2440,
2444, 2459, 2460,
2461, 2466, 2470,
2481, 2485, 2604,
2615, 2624, 2635,
2649, 2684, 2691,
2697, 2701, 2761,
2784, 2804, 3320,
3322, 3377, 3385,
3656, 4059, 4060,
4061, 4163, 4167,
4279, 4281, 4282,
4337, 4342, 4347,

4352, 4442, 4444,
4445, 4446, 4477,
4494, 4502, 4503,
4504, 4505, 4506,
4512, 4513, 4520,
4536, 4540, 4548,
4549, 4550, 4551,
4552, 4553, 4554,
4557, 4560, 4564,
4575, 4576, 4578,
4587, 4592, 4617,
4618, 4746, 4747,
4748, 4750, 4751,
4752, 4753, 4754,
4755, 4756, 4757,
4758, 4759, 4760,
4761, 4762, 4763,
4764, 4765, 4770,
4781, 4812, 4813,
4814, 4815, 4822,
4828, 4834, 4842,
4847, 4849, 4857,
4862, 4863, 4878,
4882, 4885, 4888,
4893, 4896, 4899,
4903, 4911, 4919,
4926, 4928, 4929,
4931, 5000, 5094,
5095, 5096, 5097,
5098, 5099, 5101,
5102, 5120, 5121,
5124, 5125, 5126,
5127, 5128, 5129,
5130, 5131, 5132,
5133, 5134, 5135,
5136, 5252, 5365,
5385, 5386, 5389,
5395, 5398, 5409,
5410, 5413, 5419,
5422, 5433, 5435,
5438, 5442, 5448,
5456, 5463, 5464,
5468, 5472, 5478,
5479, 5483, 5487,
5491, 5496, 5504,
5512, 5520, 5527,
5529, 5602, 5664,
5672, 5693, 5701,
5708, 5709, 5715,
5717, 5718, 5719,
5720, 5722, 5941,
5943, 5945, 5951,
5955, 5958, 5967,
5978, 5980, 5981,

5992, 6065, 6084,
6116, 6117, 6118,
6129, 6135, 6138,
6139, 6151, 6163,
6167, 6170, 6183,
6192, 6223, 6251,
6254, 6255, 6263,
6264, 6300, 6315,
6342, 6359, 6416,
6417, 6418, 6419,
6428, 6448, 6457,
6464, 6471, 6475,
6480, 6485, 6490,
6492, 6495, 6498,
6506, 6507, 6509,
6511, 6512, 6519,
6521, 6522, 6529,
6530, 6531, 6532,
6533, 6537, 6538,
6540, 6541, 6543,
6549, 6555, 6573,
6574, 6579, 6584,
6589, 6595, 6600,
6611, 6615, 6621,
6624, 6638, 6640,
6642, 6643, 6645,
6646, 6647, 6649,
6651, 6653, 6655,
6656, 6661, 6662,
6663, 6664, 6665,
6670, 6671, 6678,
6680, 6683, 6688,
6690, 6696, 6697,
6698, 6699, 6703,
6706, 6708, 6709,
6713, 6715, 6716,
6719, 6729, 6771,
6772, 6773, 6776,
6786, 6793, 6795,
6800, 6812, 6819,
6821, 6825, 6826,
6833, 6835, 6838,
6843, 6850, 6852,
7158, 7168, 7176,
7340, 7431, 7452,
7456, 7469, 7549,
7618, 7636, 7642,
7679, 7804, 7806,
7807, 7808, 7817,
7819, 7820, 7821,
7825, 7827, 7833,
7834, 7861, 7875,
7878, 7882, 7886,
7899, 7905, 7919,



7922, 7926, 7930,	11656,	11671,	13387,	13393,
7943, 7949, 7963,	11704,	11743,	13398,	13430,
7966, 7970, 7974,	11785,	11812,	13435,	13551,
7987, 8039, 8054,	11826,	11840,	13563,	13575,
8059, 8185, 8187,	11855,	11867,	13612,	13626,
8215, 8233, 8251,	11879,	11906,	13640,	13658,
8272, 8301, 8330,	11907,	11908,	13669,	13683,
8550, 8587, 8595,	11916,	11917,	13692,	13769,
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24510, 24512,	\define@choicekey .	6183, 6254, 6255
24522, 24559, 24056, 24064	\dfn@afteroutput ..
24625, 24638,	\define@key 2690, 24054 10962,
24641, 24648,	\definecolor . 4641,	10965, 11014, 11017
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25010, 25011,	10789, 10790,	10936, 10980,
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25023, 25109,	10801, 10802, 11343	\dfn@countins
25121, 25122,	\DefineTOCEntryCommandOption 10915, 10972
25124, 25300, 25302 23455,	\dfn@dimas ... 10876,
\default@color	23457, 23459,	10877, 10878,
. 10031, 24262	23463, 23465,	10889, 10897,
\DefaultOptionsFile	23467, 23469, 23471	10898, 10899,
16600, 16602, 16605	\DefineTOCEntryIfOption	10910, 10914,
\defbeamertemplate 23447,	10931, 10951,
. 1580, 1583,	23449, 23453, 23489	10971, 10988, 11003
1587, 1590, 1593,	\DefineTOCEntryLengthOption	\dfn@dimb ... 10951,
1604, 1618, 1621,	. 23034, 23036,	10952, 10954,
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1772, 1784, 1802,	\DefineTOCEntryListOption	\dfn@elt@adjust ...
1808, 1821, 1830, 23451 10951, 11003
1839, 1850, 1865,	\DefineTOCEntryOption	\dfn@elt@getht
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2864, 2865, 2869,	\DefNewDummy 6555, 6572	\dfn@fnht ... 10887,
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2911, 2926, 2941,	\DEPTH 22494, 22501	10952, 10958,
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3151, 3154, 3163,	\depthof 11218,	11010, 11011, 11012
3166, 3175, 3203,	11223, 11232,	\dfn@fnmaxdp 10875,
3335, 3412, 3484,	11233, 11237, 11242	10880, 10885,
3510, 3561, 3597,	\descriptionlabel 8628	10896, 10901,



10906, 10928, 10931, 10985, 10988	\diagbox@double@pict@NW 11100	\DigitsDotDashInterCharToks 4379, 4380
\dfn@footnoterule 10969, 11021	\diagbox@double@pict@SE 11093, 11100	\dim .. 17267, 17268, 17591, 17592, 17593
\dfn@footnotetext 10870	\diagbox@double@pict@SW 11108	\dimen ... 4286, 4510, 11976, 12058, 12063, 12080, 12081, 12082, 12091, 12095, 12238, 12242, 12379, 12383, 12526, 12530, 12673, 12677, 12820, 12824, 12967, 12971, 13114, 13118, 13261, 13265, 13446, 13453, 13502, 14921, 18088, 18095, 18096, 18104, 18105, 18110, 18111, 18124, 18125, 18132, 18133, 25015, 25018
\dfn@gobble 10872, 10893	\diagbox@font 11028, 11031, 11035, 11037, 11042, 11044, 11048, 11051, 11054, 11058, 11060, 11064, 11066	\dimen@ 5325, 5326, 5332, 5340, 10027, 10028, 13712, 13714, 14779, 14780, 14781, 14791, 14792, 14793, 14796, 14797, 14798, 14804, 14814, 14816, 14825, 14827, 14834, 14835, 14836, 14837, 16908, 16909, 16910, 16911, 18206, 18207, 18739, 18744, 22284, 22286, 22292, 22298, 24195, 24196, 24197, 24198, 24199, 24200, 24259, 24260
\dfn@ins 10880, 10881, 10882, 10884, 10901, 10902, 10903, 10905, 10919, 10920, 10976, 10977	\diagbox@ht . 11095, 11098, 11103, 11106	\dimen@i 22285, 22286, 22291, 22297
\dfn@latex@footnotetext 10869	\diagbox@insepl 11028, 11035, 11037, 11048, 11051, 11058, 11060, 11070, 11080, 11082	\dimen@ii ... 14829, 14830, 14831, 14837, 14839, 14842, 14843, 14844
\dfn@latex@LTRfootnotetext 10875, 10890	\diagbox@insepr 11031, 11042, 11044, 11054, 11064, 11066, 11073, 11076, 11087, 11089	
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\dfn@latex@RTLfootnotetext 10896, 10911	\diagbox@triple@pict@NE 11118	
\dfn@list ... 10889, 10910, 10917, 10950, 10952, 10955, 10961, 10974, 11002, 11004, 11007, 11013	\diagbox@triple@pict@NW 11109	
\dfn@LTRfootnotetext 10871, 10891	\diagbox@triple@pict@SE 11136	
\dfn@LTRmakecol ... 10970, 11022, 11024	\diagbox@triple@pict@SW 11127	
\dfn@makecol 11022, 11023, 11024	\diagbox@triple@setbox@NE 11092	
\dfn@makefnmark 10874, 10895	\diagbox@triple@setbox@NW 11047, 11050, 11053, 11068	
\dfn@RTLfootnotetext 10892, 10912	\diagbox@triple@setbox@SE 11069, 11072, 11075, 11092	
\dfn@RTLmakecol ... 10913, 11022, 11023	\diagbox@triple@setbox@SW 11068	
\dfn@split .. 10885, 10906, 10919, 10931, 10976, 10988	\diagbox@wd . 11095, 11098, 11103, 11106	
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\DFNcolumnsep 10934, 10947, 10991		
\DFNcolumnwidth 10868, 10873, 10894, 10933, 10935, 10938, 10948, 10990, 10992		
\diagbox@double 11027, 11030		
\diagbox@double@pict@NE 11101, 11108		



<code>\dimexpr</code>	29, 244, 779, 1014, 1261, 2502, 2923, 2938, 2953, 3256, 3258, 3262, 3264, 3373, 3382, 3390, 5586, 5589, 5912, 5916, 5926, 5935, 9386, 9540, 10363, 10425, 10426, 10428, 10454, 10463, 10487, 10517, 16516, 17015, 17024, 17991, 18201, 19030, 19454, 20020, 20066, 20073, 20077, 20103, 20104, 20105, 20106, 20108, 20749, 20796, 20803, 20807, 20833, 20834, 20835, 20836, 20838, 21512, 21559, 21566, 21570, 21596, 21597, 21598, 21599, 21601, 23181, 23394, 23402, 23411, 23413, 24592, 24594, 24595, 24596, 24601, 24603, 24604, 24605, 24610, 24612, 24613, 24614, 24619, 24621, 24622, 24623	13472, 13473, 13524, 13525, 14006, 14007, 15167, 15168, 18583, 18584, 22366	13411, 13712, 13720, 13777, 14005, 14018, 14509, 14526, 14542, 15034, 15039, 15139, 15180, 15181, 15184, 15226, 15227, 15230, 16816, 17023, 17026, 18088, 18104, 18105, 18110, 18111, 18124, 18125, 18132, 18133, 18563, 18564, 18565, 18739, 19861, 19903, 19906, 19960, 19967, 20472, 20474, 20568, 20570, 21223, 21225, 21319, 21321, 21978, 21980, 22074, 22076, 22333, 22368, 22380, 22494, 22496, 24251, 24260, 24261, 24676, 24987, 24994, 25081
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<code>\downto</code>	value . 6739, 6751, 6833, 6872		
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<code>\display@setup</code> 9885, 9910		
<code>\displayindent</code>	... 9926		
<code>\displaystyle</code> 14111, 14127		
<code>\displaywidth</code>	. 9926, 11214, 11216, 11221, 14130, 16572		
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6004, 6021, 6022,	\EdefEscapeName . 16373	610, 613, 619,
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21189, 21587, 12960	1472, 1473, 1474,
21880, 21935,	\reject 14782, 14851, 14871	1475, 1476, 1478,
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22393, 22448,	135, 137, 152,	1646, 1676, 1699,
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6130, 6144, 6154,	21867,	21962,	<code>\endminipage</code>
6171, 6224, 6297,	22431,	22552,	12033, 14628, 22510
6433, 6639, 6641,	22584,	22768,	<code>\endmodernpoem</code> ... 9249
6677, 6682, 6691,	23188,	23302,	<code>\endpgfpicture</code> .. 18486
6849, 7164, 7630,	23815,	23943,	<code>\endpspicture</code>
8057, 8059, 8290,	24253,	24286,	..... 18779, 18789
8319, 8348, 8725,	24329,	24348,	<code>\endR</code> .. 182, 348, 360,
8742, 8758, 8769,	24481,	24814,	398, 442, 1417,
8809, 9128, 9164,	24857, 25024, 25034		1418, 1535, 3378,
9171, 9178, 9236,	<code>\endinput</code> 460,		3386, 3394, 3566,
9325, 9348, 9503,	10082, 22637, 22721		4878, 4879, 9923,
9526, 9741, 9792,	<code>\endL</code> 184, 1546,		10010, 10026,
9807, 10017,	2031, 3152, 3164,		10031, 10033,
10279, 10338,	3176, 4316, 4532,		10065, 11147,
11176, 11206,	5225, 10021,		12074, 14136,
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11496, 11593,	10040, 10046,		15223, 15262,
11642, 13475,	10065, 12077,		15269, 15387,
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13538, 13827,	14131, 14294,		15534, 15880,
13842, 13946,	15164, 15172,		15888, 16270,
14061, 14101,	15191, 15201,		16306, 16338,
14186, 14207,	15216, 15237,		16367, 16393,
14482, 14491,	15359, 15389,		16403, 16406,
14653, 14668,	15454, 15497,		16573, 16707,
14754, 14795,	15538, 16267,		16857, 16922,
14826, 14971,	16707, 18532,		16928, 16972,
15024, 15202,	18537, 18678,		17065, 17073,
15217, 15865,	18697, 18785,		17264, 17590,
15903, 15914,	19950, 19961,		17754, 17756,
15925, 15936,	19968, 19978,		18547, 18679,
16037, 16062,	22506, 24261,		18687, 18766,
16100, 16133,	24262, 24301,		18767, 18768,
16164, 16195,	24305, 24358,		19946, 19956,
16543, 16566,	24369, 24388,		19965, 19974,
16740, 16832,	25003, 25078, 25094		20469, 21220,
17667, 17785,	<code>\endlist</code> ... 97, 311,		21975, 22326,
17885, 17982,	636, 768, 1000,		22327, 22352,
18189, 18193,	1033, 1284, 2686,		22358, 22505,
18197, 18518,	8613, 8621, 8626,		24258, 24262,
18523, 18525,	9375, 9565, 9881,		24264, 24358,
18528, 18533,	11431, 11706,		24370, 24378,
18780, 18787,	13890, 16497,		24491, 24636,
18993, 19016,	18316, 19049,		24639, 24642,
19149, 19290,	19443, 19642,		24657, 24668,
19366, 19389,	19849, 20403,		24669, 25003,
19535, 19582,	21154, 21909, 22662		25016, 25018,



25078, 25094,	11290, 11293,	<code>\evenpage</code>	4584,
25113, 25116, 25124	11301, 11308,		4587, 4588, 4589,
<code>\endrotate</code>	11316, 11323,		4591, 4592,
<code>\endRTL</code>	11325, 11328,		4593, 4594, 4596
18719, 24422, 24430	11332, 11333,	<code>\evensidemargin</code> . . .	
<code>\ends@math</code>	11334, 11335,	.. 4608, 11185,	
<code>\endsideways</code> . . .	11347, 11349, 11350	11193, 15310,	
<code>\endsidewaysfigure</code>	<code>\eq@addpunct</code>	15315, 15323,	
..... 19893	<code>\EQ@box</code>	20105, 20835,	
<code>\endsidewaystable</code>	<code>\eq@group</code> . . .	21598, 25044, 25052	
19894	<code>\eq@GRP@first@dmath</code>	<code>\everycr</code>	16836
<code>\endstabular</code> . . . . .	..... 9897	<code>\everydisplay</code>	9885
..... 22326, 22328	<code>\eq@if</code> . 5460, 5461, 5463	<code>\everyhbox</code> .. 18681,	
<code>\endstrip</code>	<code>\eq@isIntertext</code> .. 9935	18683, 18691,	
17998	<code>\eq@prelim</code> .. 9888, 9905	18693, 24372,	
<code>\endtabular</code> 398, 401,	<code>\eq@setnumber</code>	24374, 24382, 24384	
1418, 1419, 4878,	<code>\eq@setup@a</code>	<code>\everyjob</code>	4232,
22352, 22354,	<code>\eq@startup</code>	4235, 4474, 4476	
22438, 24668, 24670	<code>\eq@wdCond</code>	<code>\everymath</code>	358
<code>\endtabularx</code>	22389, 22418, 22429	<code>\everypar</code>	570,
22389, 22418, 22429	<code>\endtcblrbox</code>	719, 964, 1204,	
22389, 22418, 22429	..... 22510, 22511	7903, 7947, 7991,	
<code>\endtcblsavebox</code> . 22511	<code>\endtcblsavebox</code> . 22511	9324, 9502, 9791,	
<code>\endtcblvbox</code> . . . 22521	<code>\endtcblvbox</code> . . . 22521	11641, 13826,	
<code>\endttitlepage</code> .. 678,	<code>\eqnumform</code>	14021, 16891,	
986, 1239, 9357,	<code>\eqstyle</code>	16893, 18673,	
9547, 18952, 19403	<code>\equal</code>	18677, 18885,	
<code>\endtraditionalpoem</code>	5207, 5211, 5215,	18992, 19365,	
..... 9185	7451, 7485, 7496,	19581, 19768,	
<code>\endtrivlist</code> . . . 14132	7528, 7529, 7545,	22761, 22765,	
<code>\endturn</code>	7586, 7844, 8086,	23300, 24364,	
19945	8087, 8105, 8106,	24368, 24414,	
<code>\endwindow</code>	8124, 8125, 8156,	24424, 24920, 24964	
18549	8157, 10838, 14242	<code>\everyvbox</code> . . . 1421,	
<code>\enskip</code> . . . 23928, 23953	<code>\errmessage</code>	1422, 18701,	
<code>\enspace</code> . . . . .	. 4283, 4507, 18086	18703, 18709,	
. 320, 18543, 18545	<code>\ERROR</code>	18711, 24392,	
<code>\ensuremath</code>	24755	24394, 24401, 24403	
4237	<code>\escapechar</code>	<code>\ExecuteDoHook</code> 20001,	
<code>\env@RTLcases</code> . . . . .	..... 5371, 5457,	20023, 20730,	
..... 24496, 24500	5462, 5473, 5477,	20752, 21493, 21515	
<code>\EQ</code>	5710, 6458, 6463,	<code>\ExecuteOptions</code> 5041,	
11211,	6465, 6467, 6480	7315, 8696,	
11217, 11218,	<code>\ESO@isMEMOIR</code> . . . 11152	8698, 10671, 10769	
11222, 11223,	<code>\ESO@tempdima</code> 11157,	<code>\exhyphenpenalty</code> ..	
11232, 11233,	11158, 11159,	..... 670, 978,	
11235, 11237,	11161, 11165,	1173, 9294, 9472,	
11238, 11240,	11167, 11168,	18944, 19395, 19458	
11241, 11242,	11169, 11174,	<code>\exp</code>	15409,
11243, 11245,	11181, 11185,	17141, 17144,	
11246, 11247,	11187, 11191,	17198, 17373, 17427	
11259, 11262,	11193, 11197, 11204	<code>\expandafter</code> 167, 199,	
11264, 11266,	<code>\ESO@tempdimb</code>	371, 401, 801,	
11267, 11269,	. 11172, 11174,	810, 818, 844,	
11272, 11274,	11199, 11200,		
11276, 11277,	11201, 11202, 11204		
11279, 11280,			
11282, 11285,			
11286, 11287,			



847, 1054, 1063,
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1305, 1314, 1322,
1348, 1351, 1419,
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4890, 4894, 4897,
4900, 4951, 4952,
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5360, 5385, 5387,
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5399, 5409, 5411,
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5423, 5443, 5445,
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5636, 5638, 5639,
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5986, 5990, 6041,
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6053, 6143, 6144,

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6791, 6792, 6830,
6841, 6846, 6860,
8047, 8588, 9018,
9143, 9146, 9149,
9152, 9155, 9158,
9184, 9185, 9248,
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9426, 9434, 9595,
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9995, 10037,
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19220, 19229,
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22143, 22149,
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22450, 22452,
22457, 22459,
22468, 22966,
22967, 22983,
22984, 22985,
22992, 22994,
22995, 23048,



118, 135, 137,
143, 151, 155,
159, 163, 170,
178, 185, 194,
218, 219, 224,
229, 235, 238,
239, 240, 251,
302, 317, 321,
340, 348, 360,
374, 375, 387,
388, 392, 398,
424, 431, 442,
513, 518, 556,
563, 571, 573,
580, 583, 584,
587, 603, 606,
610, 613, 619,
642, 651, 658,
667, 671, 684,
687, 688, 689,
695, 696, 701,
704, 712, 720,
722, 729, 730,
737, 740, 741,
746, 754, 794,
804, 813, 821,
845, 847, 862,
867, 901, 908,
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999, 1000, 1001,
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1100, 1115, 1120,
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1475, 1476, 1482,
1483, 1487, 1492,
1495, 1500, 1503,

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1522, 1534, 1535,
1546, 1557, 1565,
1649, 1654, 1679,
1687, 1702, 1710,
1723, 1731, 1744,
1752, 1923, 1927,
1937, 1968, 1996,
1999, 2008, 2014,
2016, 2021, 2022,
2023, 2024, 2026,
2028, 2029, 2030,
2033, 2034, 2047,
2049, 2060, 2063,
2065, 2085, 2093,
2094, 2102, 2110,
2137, 2151, 2166,
2180, 2274, 2275,
2296, 2346, 2349,
2362, 2378, 2424,
2450, 2476, 2505,
2510, 2535, 2543,
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2643, 2666, 2686,
2709, 2713, 2735,
2740, 2745, 2747,
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2813, 2827, 2835,
2854, 2976, 3016,
3061, 3127, 3133,
3139, 3216, 3232,
3244, 3251, 3266,
3320, 3322, 3327,
3333, 3363, 3368,
3374, 3375, 3377,
3378, 3383, 3385,
3386, 3391, 3393,
3394, 3425, 3443,
3452, 3453, 3463,
3472, 3473, 3475,
3476, 3477, 3518,
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3577, 3580, 3605,
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3992, 4001, 4008,
4011, 4020, 4027,
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4283, 4295, 4301,
4302, 4369, 4380,
4385, 4391, 4394,
4402, 4429, 4440,
4441, 4483, 4498,
4499, 4506, 4507,
4518, 4538, 4540,
4570, 4826, 4832,
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4937, 4938, 4944,
4959, 4960, 4963,
4966, 4969, 4973,
4974, 4982, 5196,
5197, 5198, 5200,
5228, 5236, 5267,
5268, 5269, 5273,
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5358, 5380, 5381,
5396, 5406, 5420,
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5599, 5603, 5613,
5623, 5631, 5640,
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5661, 5683, 5690,
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5746, 5764, 5770,
5771, 5789, 5793,
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5850, 5856, 5857,
5884, 5890, 5891,
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6544, 6549, 6560,
6572, 6573, 6611,
6615, 6622, 6626,
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6793, 6831, 6837,
6841, 6846, 6860,
7165, 7194, 7227,
7244, 7260, 7399,



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7604, 7607, 7626,	10105,	10128,	11308,	11323,
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8197, 8199, 8209,	10213,	10214,	11381,	11382,
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8984, 9015, 9016,	10300,	10321,	11411,	11417,
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9191, 9193, 9197,	10389,	10420,	11635,	11643,
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9361, 9394, 9396,	10525,	10531,	11756,	11776,
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10068,	11195,	11198,	13342,	13343,



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13534,	13548,	15128,	15129,	15825,	15831,
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23840,	23847,	24418,	24428,	25121,	25122,
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23860,	23866,	24441,	24445,	\figcaption	15632, 15650
23872,	23876,	24446,	24491,	\fill 3036,
23882,	23885,	24517,	24536,	3227, 3229, 3231,	
23887,	23888,	24544,	24550,	3436, 3437, 3440,	
23889,	23892,	24556,	24564,	3441, 3447, 3450,	
23895,	23898,	24571,	24572,	3458, 3543, 3545,	
23899,	23908,	24573,	24579,	3547, 8826, 8830,	
23914,	23923,	24584,	24587,	15667, 15862,	
23924,	23932,	24595,	24596,	16782, 16784, 16786	
23938,	23942,	24604,	24605,	\filright	. 22559, 22588
23945,	23946,	24613,	24614,	\FirstFrameCommand	
23957,	23958,	24622,	24623,	....	14759, 14805
23968,	23969,	24631,	24632,	\firstmark	.. 10235,
23973,	23977,	24633,	24634,	10298,	14042,
23981,	23985,	24637,	24640,	14078,	14236,
23989,	23993,	24643,	24644,	14945,	14994,
23997,	24001,	24645,	24646,	17809,	17909,
24005,	24010,	24647,	24649,	24786, 24833, 25105	
24018,	24021,	24651,	24652,	\firstname	..... 5125
24028,	24029,	24659,	24662,	\firstnamecolour	..
24033,	24040,	24664,	24668,	5094, 10676, 10772	
24063,	24069,	24669,	24672,	\firstnamefont	5103,
24080,	24085,	24688,	24689,	5111,	10714,
24091,	24093,	24697,	24698,	10715, 10806, 10809	
24100,	24103,	24701,	24702,	\firstnamestyle	5111,
24116,	24125,	24703,	24704,	10726, 10816, 10837	
24138,	24141,	24705,	24711,	\fivecolumnfootnotes	
24152,	24158,	24716,	24724,	.....	12519
24159,	24165,	24741,	24747,	\Fld@height	15561, 15566
24170,	24173,	24749,	24756,	\Fld@width	.. 15556,
24187,	24192,	24766,	24768,	15561,	15564,
24195,	24196,	24788,	24812,	15566,	16421,
24197,	24198,	24815,	24835,	16429, 16437, 16445	
24202,	24205,	24855,	24858,	\flnew@within	... 14144
24207,	24213,	24861,	24875,	\float@newx	.... 14137
24214,	24228,	24884,	24893,	\floatalignment	7455,
24238,	24239,	24928,	24937,	7456, 7497, 7498,	
24246,	24251,	24969,	24972,	7520,	7527,
24254,	24257,	24973,	24974,	7535,	7586, 7797
24258,	24261,	24975,	24976,	\FloatBarrier	7427, 7777



\floatc@bidituftefloatplainfont	..... 22268, 22269	\footdir@toks	.....
... 7795, 7805,	\fontdimen	.	14339, 14406,
7812, 7818, 7826	\fontsize	14407, 14408, 14412	
\floatc@bidituftefloatplaintop	8781, 8783, 8785,	\footdir@write	....
..... 7812	10714, 10806,	14334, 14363, 14402	
\floatc@bidituftefloatruled	16522, 18421, 18434	\footersymbol	10733,
..... 7813	\footdir@abspage	10734, 10749,	
\floatc@plain	... 14134	10750, 10751, 10752	
\floatingpenalty	42,	\footfootmark	.....
56, 72, 256,	14371, 14372,	.	11793, 11919,
270, 285, 10888,	14375, 14376, 14379	12152, 12296,	
10909, 10956,	\footdir@debug	12440, 12587,	
10963, 11008,	14340,	12734, 12881,	
11015, 11979,	14348, 14352,	13028, 13175,	
14509, 14526, 14542	14355, 14365,	13322, 13588, 14700	
\floatstyle	..... 7846	\footfudgefactor	..
\flushleft	.. 4792, 4801	13412, 13474, 13526	
\FN@sf@@footnote	..	\footins	..... 36,
..... 4819, 4823	\footdir@fntext	50, 66, 250,	
\FN@sf@@footnotemark	..... 4848, 4850	264, 279, 10888,	
\FN@sf@LTRfootnote	..... 4820, 4829	10909, 10913,	
\FN@sf@RTLfootnote	..... 4821, 4835	10914, 10925,	
\FN@sf@gobble@bracket	..... 4859, 4862	10928, 10932,	
\FN@sf@gobble@opt	..	10956, 10962,	
..... 4825,	\footdir@ORG@bidi@amsart@footnotetext	10970, 10971,	
4831, 4837, 4840	..... 80	10982, 10985,	
\FN@sf@gobble@optonly	..... 4852, 4855	\footdir@ORG@bidi@amsart@LTRfootnotetext	..... 10989,
\FN@sf@gobble@twobracket	..... 4844, 4847	..... 82	11014, 11810,
\focus@pbar@height	..... 3434,	\footdir@ORG@bidi@amsart@RTLfootnotetext	..... 11824,
3436, 3437, 3438,	..... 81	..... 11976,	11985,
3440, 3441, 3442,	\footdir@ORG@bidi@amsbook@footnotetext	11996, 11997,	
3447, 3448, 3450,	..... 294	11999, 12000,	
3451, 3457, 3458,	\footdir@ORG@bidi@amsbook@LTRfootnotetext	12056, 12061,	
3460, 3462, 3467,	..... 296	13724, 13728,	
3468, 3470, 3471	\footdir@ORG@bidi@amsbook@RTLfootnotetext	13737, 13741,	
\focus@pbar@leftoffset	..... 3416,	..... 295	13748, 13761,
3417, 3432, 3436,	\footdir@ORG@bidi@beamer@footnotetext	..... 2397	14503, 14520,
3437, 3440, 3441	..... 2399	..... 2399	14929, 14978,
\focus@pbar@progress	.. 3431, 3437, 3441	\footdir@ORG@bidi@beamer@LTRfootnotetext	..... 2399
\focus@pbar@rightoffset	..... 3420,	..... 2398	15033, 15034,
3421, 3423, 3424,	\footdir@ORG@bidi@beamer@RTLfootnotetext 2398	15055,
3432, 3447, 3450, 14560	\footdir@ORG@bidi@footnotetext	15056, 15066,
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3468, 3470, 3471 14562 14560	15114, 15117,
\font 22268, 22269	\footdir@ORG@bidi@LTRfootnotetext	18740, 18741, 18743
\fontdimen	22268, 22269	\footinsdim	.....
\fontsize	..... 315,	\footdir@ORG@bidi@RTLfootnotetext	11975, 11976,
\fonttop	8781, 8783, 8785,	..... 14561	12058, 12063,
\fonttop	10714, 10806,	\footdir@temp	... 80,
\fonttop	16522, 18421, 18434	81, 82, 294, 295,	12091, 12095,
\footdir@abspage	..	296, 2397, 2398,	12238, 12242,
..... 14368,	2399, 14398,	12379, 12383,	
14371, 14372,	14560, 14561, 14562	12526, 12530,	
14375, 14376, 14379		12673, 12677,	
\footdir@debug	14340,		
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\footdir@debugtrue 4132, 14338		
\footdir@fntext	... 14386, 14403, 14405		
\footdir@LeftRightElse	14346, 14362, 14440		
\footdir@name	..... 14389, 14392, 14393		
\footdir@ORG@bidi@amsart@footnotetext	..... 80		
\footdir@ORG@bidi@amsart@LTRfootnotetext 82		
\footdir@ORG@bidi@amsart@RTLfootnotetext 81		
\footdir@ORG@bidi@amsbook@footnotetext 294		
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\footdir@ORG@bidi@RTLfootnotetext 14561		
\footdir@temp	... 80,		
81, 82, 294, 295,			
296, 2397, 2398,			
2399, 14398,			
14560, 14561, 14562			



12820, 12824,	13545, 13573,	15117, 15150,
12967, 12971,	13791, 13804, 13808	18151, 18742, 22522
13114, 13118,	<code>\footmarkstyle</code>	<code>\footnotes</code> 8178
13261, 13265,	. . . . 11916, 11955	<code>\footnotesep</code> 30, 32,
13446, 13453, 13502	<code>\footmarkwidth</code>	41, 47, 55, 61,
<code>\footinsv@l</code> . 11968,	. 11915, 11920,	71, 77, 245, 247,
12060, 12061,	11921, 11923,	255, 261, 269,
12062, 12063,	11925, 11928,	275, 284, 290,
12095, 12096,	11932, 11933,	2308, 2325, 2342,
12113, 12125,	11935, 11937,	2358, 2374, 2390,
12242, 12243,	11940, 11944,	10885, 10906,
12260, 12271,	11945, 11947,	10931, 10988,
12383, 12384,	11949, 11952,	11794, 11800,
12401, 12413,	11959, 11962,	11806, 11980,
12530, 12531,	14701, 14702,	13480, 13532,
12548, 12560,	14704, 14706,	14508, 14516,
12677, 12678,	14709, 14713,	14525, 14533,
12695, 12707,	14714, 14716,	14541, 14549,
12824, 12825,	14718, 14721,	14577, 14592,
12842, 12854,	14725, 14726,	14607, 16517, 16519
12971, 12972,	14728, 14730, 14733	<code>\footnotesize</code>
12989, 13001,	<code>\footnote</code> . 467, 541,	. . . . 39, 53, 69,
13118, 13119,	789, 888, 1042,	107, 237, 253,
13136, 13148,	1141, 1293, 1393,	267, 282, 463,
13265, 13266,	2401, 4819, 4822,	785, 1038, 1289,
13283, 13295,	8363, 8682, 8713,	5203, 5225, 7335,
13453, 13454,	9405, 9583, 9688,	7336, 7374, 7993,
13488, 13502,	9762, 11447,	7994, 7995, 8187,
13503, 13539,	11515, 11540,	8217, 8235, 8253,
13547, 13561,	11614, 13897,	9401, 9579, 9684,
13792, 13805, 13809	13965, 14302,	11443, 11536,
<code>\footinsv@r</code>	17705, 17708,	11972, 11973,
. 11967, 12055,	19069, 19168,	11974, 13893,
12056, 12057,	19206, 19312,	14499, 14500,
12058, 12091,	19467, 19555,	14501, 14506,
12092, 12111,	19665, 19739,	14523, 14539,
12135, 12238,	20126, 20856, 21619	14570, 14585,
12239, 12258,	<code>\footnotelayout</code> . . .	14600, 16508,
12280, 12379,	. . 8181, 8182, 8185	18543, 18545,
12380, 12399,	<code>\footnotemark</code> . 4848,	19065, 19202,
12423, 12526,	4849, 14641,	19463, 19661,
12527, 12546,	14655, 17706, 17709	20122, 20852, 21615
12570, 12673,	<code>\footnoterule</code> 10867,	<code>\footnotetext</code> . 4883,
12674, 12693,	10929, 10935,	4894, 9142, 9152
12717, 12820,	10940, 10968,	<code>\footrulewidth</code>
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12864, 12967,	10990, 10994,	<code>\footscript</code>
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13011, 13114,	11785, 12041,	11926, 11928,
13115, 13134,	13727, 13740,	14703, 14707, 14709
13158, 13261,	14331, 14428,	<code>\footskip</code> . . . 20112,
13262, 13281,	14432, 14435,	20842, 21605, 25091
13305, 13446,	14450, 14455,	<code>\foottextfont</code>
13447, 13487,	14456, 14458,	. 11794, 11814,



11857,	11972,	\fs@biditytuftefloatplaintop	17173,	17174,
12085,	12117, 7811	17191,	17192,
12152,	12175,	\fs@biditytuftefloatruled	17229,	17245,
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23294, 23776,	\hintcolour 5102	9812, 10497,
23911, 23948,	\hintfont 5110, 5118,	10868, 11434,
23950, 24016,	5172, 5179, 5184	11734, 11786,
24023, 24025,	\hintscolumnwidth .	13866, 14423,
24494, 24722,	. . . 5138, 5152,	14425, 14457,
24794, 24796,	5156, 5164, 5172,	14870, 16519,
24843, 24845,	5178, 5184, 5241	16590, 17017,
25016, 25018,	\hintstyle 5118	18152, 18204,
25055, 25056,	\hline 16790, 16792, 16799	18655, 19023,
25058, 25059, 25116	\HLOFF 4727	19447, 19604,
\hfill 1528,	\HLON 4721	19789, 20069,
1529, 2244, 2249,	\HLTR@LTRfootnotetext	20077, 20799,
2270, 3346, 3495,	. 11766, 15898,	20807, 21562, 21570
3498, 3632, 3723,	15929, 16006,	\hrulefill 29,



244, 595, 779,	13617,	13628,	244, 317, 321,
1014, 1261,	13631,	13642,	584, 595, 701,
9386, 9540, 9817,	13645,	13656,	702, 741, 779,
11439, 11739,	13667,	14135,	930, 931, 944,
13871, 14420,	14136,	14510,	992, 1014, 1186,
16516, 16595,	14527,	14543,	1187, 1227, 1261,
18201, 19030,	14571,	14586,	1408, 1461, 1462,
19454, 19609, 19794	14601,	14618,	1500, 1524, 1527,
<code>\hspace</code> 42,	14619,	14765,	1591, 1648, 1652,
56, 72, 256, 270,	14870,	14900,	1678, 1685, 1701,
285, 671, 979,	14903,	14907,	1708, 1722, 1729,
1174, 2011, 2209,	14910,	14911,	1743, 1750, 2053,
2297, 2298, 2299,	16709,	16713,	2055, 2057, 2059,
2314, 2315, 2316,	16827,	16858,	2062, 2070, 2124,
2331, 2332, 2333,	16861,	16889,	2127, 2135, 2158,
2352, 2368, 2384,	16986,	16987,	2165, 2204, 2213,
2553, 4551, 4996,	16994,	17017,	2228, 2232, 2264,
7829, 7830, 7890,	17755,	17759,	2273, 2746, 2975,
7934, 7978, 8575,	17992,	18072,	3013, 3346, 3375,
9295, 9473, 9927,	18074,	18082,	3377, 3383, 3385,
10189, 10192,	18118,	18122,	3391, 3393, 3603,
10209, 10213,	18126,	18129,	3640, 3645, 3681,
11816, 11830,	18134,	18137,	3688, 3700, 3755,
11844, 11857,	18187,	18191,	3783, 3786, 3921,
11869, 11881,	18195,	18716,	3931, 4006, 4007,
12146, 12176,	18718,	18886,	4010, 4025, 4026,
12189, 12202,	18945,	19396,	4029, 5255, 8536,
12212, 12218,	19459,	19475,	8976, 9020, 9021,
12290, 12320,	19518,	20034,	9024, 9026, 9027,
12332, 12344,	20045,	20047,	9030, 9307, 9308,
12353, 12359,	20117,	20118,	9345, 9386, 9485,
12434, 12464,	20462,	20499,	9486, 9523, 9540,
12477, 12490,	20501,	20763,	9804, 9817, 9999,
12500, 12506,	20775,	20777,	10002, 10069,
12581, 12611,	20847,	20848,	10242, 10249,
12624, 12637,	21213,	21250,	10253, 10254,
12647, 12653,	21252,	21526,	10539, 10547,
12728, 12758,	21538,	21540,	10552, 10553,
12771, 12784,	21610,	21611,	10933, 10934,
12794, 12800,	21968,	22005,	10937, 10947,
12875, 12905,	22007,	22539,	10948, 10991,
12918, 12931,	22546,	22547,	11382, 11439,
12941, 12947,	22548,	22549,	11739, 13408,
13022, 13052,	22550,	23963,	13839, 13871,
13065, 13078,	23966,	23971,	14047, 14052,
13088, 13094,	23975,	23979,	14056, 14057,
13169, 13199,	23983,	23987,	14112, 14128,
13212, 13225,	23991,	23995,	14420, 15003,
13235, 13241,	23999,	24219,	15010, 15014,
13316, 13346,	24240,	24244,	15015, 15288,
13359, 13372,	24411,	24421,	15290, 15291,
13382, 13388,	24575,	24907,	15294, 15299,
13556, 13568,	24951, 25112, 25116		15302, 15304,
13580, 13614,	<code>\hskip</code> . . 14, 29, 220,		15305, 15556,



15564,	16421,	23178,	23181,	960,	1200,	1228,	
16429,	16437,	23387,	23419,	2046,	2615,	2637,	
16445,	16454,	23898,	23945,	3642,	3643,	4332,	
16462,	16471,	23955,	24010,	4551,	4620,	8595,	
16479,	16516,	24716,	24793,	9321,	9346,	9499,	
16540,	16572,	24800,	24804,	9524,	9728,	9788,	
16595,	17862,	24805,	24999,	9805,	10070,		
17869,	17873,	25001,	25015,	25018	10248,	10252,	
17874,	18039,	\hspace	109,	10307,	10313,		
18051,	18063,	110,	239,	240,	10545,	10550,	
18118,	18122,	3519,	3526,	5173,	10557,	10564,	
18126,	18129,	5178,	5184,	7572,	10936,	10946,	
18130,	18134,	7579,	7801,	8479,	10991,	11000,	
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18201,	18226,	8493,	8494,	8500,	11221,	11224,	
18229,	18231,	8501,	8628,	8654,	11227,	11383,	
18234,	18236,	8655,	10855,		11395,	11483,	
18238,	18241,	11028,	11031,		11580,	11638,	
18243,	18245,	11035,	11037,		11922,	11928,	
18247,	18250,	11042,	11044,		11934,	11940,	
18252,	18254,	11048,	11051,		11946,	11952,	
18256,	18258,	11054,	11058,		13823,	13840,	
18261,	18263,	11060,	11064,		13933,	14051,	
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18275,	18278,	11080,	11082,		14703,	14709,	
18280,	18282,	11087,	11089,		14715,	14721,	
18285,	18287,	11725,	11923,		14727,	14733,	
18289,	18303,	11935,	11947,		14956,	14962,	
18505,	18512,	14704,	14716,		15009,	15013,	
18975,	18976,	14728,	15667,		15187,	15233,	
19013,	19030,	15683,	15696,		15291,	15305,	
19329,	19348,	15708,	15721,		16619,	16626,	
19349,	19386,	15730,	15738,		16631,	16855,	
19454,	19594,	15783,	15792,		16864,	17283,	
19609,	19781,	15800,	15813,		17544,	17625,	
19794,	19874,	15826,	15838,		17868,	17872,	
19876,	19883,	15862,	16510,		17964,	17970,	
19885,	19921,	16511,	20434,		18108,	18109,	
19923,	19932,	20443,	20539,		18119,	18120,	
19934,	20020,	20549,	20552,		18519,	18529,	
20077,	20084,	20554,	21185,		18755,	18766,	
20749,	20807,	21194,	21290,		18767,	18768,	
20814,	21512,	21300,	21303,		18793,	18801,	
21570,	21577,	21305,	21940,		18989,	19014,	
22292,	22298,	21949,	22045,		19362,	19387,	
22310,	22315,	22055,	22058,		19479,	19522,	
22560,	22589,	22060,	22230,		19578,	19595,	
22755,	22786,	22231,	22238,		19705,	19765,	
22809,	22826,	22242,	22248,		19782,	20022,	
22843,	22860,	22250,	22255,		20058,	20577,	
22877,	22894,	22257,	22566,	22578	20583,	20751,	
22912,	22931,	\hss	. . 507,	566,	585,	20788,	21329,
22951,	22986,	715,	742,	945,		21335,	21514,



15606, 15610, 15612, 15627, 15645	\hvSet@rotAngle ... 15585, 15854, 15857	\Hy@pstringdef 16277, 16278, 16312, 16313, 16344
\hvFloat 15574	\Hy@Acrobatmenu . 16371	\Hy@pstringF 16275, 16276, 16277, 16292, 16312, 16325, 16330
\hvMaxCapWidth 15585, 15586, 15607, 15608, 15609, 15612	\Hy@backout 16398	\Hy@pstringP 16313, 16330
\hvObjectBox 15589, 15592, 15594, 15598, 15604, 15679, 15681, 15692, 15694, 15704, 15706, 15722, 15723, 15731, 15732, 15739, 15740, 15747, 15750, 15755, 15758, 15763, 15766, 15770, 15773, 15784, 15785, 15793, 15794, 15801, 15802, 15809, 15811, 15822, 15824, 15834, 15836	\Hy@BeginAnnot 16254, 16274, 16311, 16343, 16372	\Hy@pstringURI 16344, 16357
\hvObjectWidth 15598, 15602, 15606, 15607, 15608	\Hy@bidipoem@footnotetext 16127, 16136	\Hy@raisedlink 15947, 15958, 15969, 15980, 15995, 16010, 16070, 16108, 16141, 16172, 16203
\hvOBox ... 15592, 15596	\Hy@bidipoem@LTRfootnotetext 16158, 16167	\Hy@safe@activestruel 15484
\hvSet@capAngle 15625, 15644	\Hy@bidipoem@RTLfootnotetext 16189, 16198	\Hy@saved@footnotemark 16215, 16234
\hvSet@capPos 15607, 15608, 15675, 15746, 15762	\Hy@CleanupFile . 16276	\Hy@saved@footnotetext 16216, 16237
\hvSet@capVPos 15677, 15690, 15717, 15726, 15779, 15788, 15807, 15820	\Hy@colorlink 16304, 16336, 16365, 16391	\Hy@SetNewWindow 16299, 16327
\hvSet@capWidth 15602, 15604, 15609, 15610	\Hy@EndAnnot 16261, 16307, 16339, 16368, 16394	\Hy@setpdfborder 16285, 16319, 16350, 16379
\hvSet@floatCapSep 15683, 15696, 15708, 15721, 15730, 15738, 15783, 15792, 15800, 15813, 15826, 15838	\Hy@endcolorlink 16263	\Hy@tabularx@hook 16022, 16034
\hvSet@floatPos . 15620	\Hy@footnote@currentHlabel 15983, 15998, 16013	\Hy@temp@menu 16373, 16386
\hvSet@objectAngle 15591, 15595	\Hy@footnote@currentHhref 15945, 15948, 15956, 15959, 15967, 15970, 15978, 15981, 15984, 15993, 15996, 15999, 16008, 16011, 16014, 16057, 16095, 16128, 16159, 16190	\Hy@VerboseLinkStart 15338, 15381
\hvSet@objectPos .. 15664, 15666, 15860	\Hy@gttemp . 16033, 16038	\Hy@VerboseLinkStop . 15361, 15391, 15452, 15495, 15536
	\Hy@href@nextactionraw 16300, 16332, 16361, 16387	\Hy@xspace@end 15387, 15451, 15494, 15535, 16270, 16306, 16338, 16367, 16393
	\Hy@href@page ... 16295	\HyLTR@saved@LTRfootnotetext 16218, 16243
	\Hy@linkcounter 11267, 11272	\HyOrg@maketitle .. 16213, 16224, 16229
	\Hy@linktoc 15876	\HyOrg@TX@endtabularx 16021
	\Hy@LT@LTRfootnotetext 16056, 16065	\hyper@@@anchor 15945, 15948, 15956, 15959, 15967, 15970, 15978, 15981, 15993, 15996, 16008,
	\Hy@LT@RTLfootnotetext 16094, 16103	
	\Hy@MakeRemoteAction 16279	
	\Hy@maketitle@end . 16225, 16230, 16232	
	\Hy@maketitle@optarg 16223, 16228	
	\Hy@pstringD 16278, 16297	



16011, 16068,			
16071, 16106,			
16109, 16139,			
16142, 16170,			
16173, 16201, 16204			
\hyper@link			
15370, 15374, 16269			
\hyper@linkend			
. 15330, 15352,			
15880, 15884,			
15888, 15890,			
16270, 16403, 16406			
\hyper@linkfile . . .			
15371, 15400, 16272			
\hyper@linknamed . .			
15373, 15509, 15511			
\hyper@linkstart . .			
. 15329, 15331,			
15880, 15884,			
15888, 15890,			
16270, 16399, 16406			
\hyper@linkurl			
15372, 15464, 16341			
\hyper@nat@current			
. 16400			
\hyper@nat@linkbreak			
. 16405			
\hyper@nat@linkend 16402			
\hyper@nat@linkstart			
. 16397			
\hyper@pageduration			
. 2116, 2220			
\hyper@pagetransition			
. 2116, 2220			
\hyperlink 2490			
\hyperref			
. 14703, 14707,			
14709, 14715,			
14719, 14721,			
14727, 14731, 14733			
\hypersetup . . 2489,			
5056, 5064,			
8672, 8731, 8748			
\hypertarget . 2519,			
20428, 21179, 21934			
\hyphenpenalty 6, 106,			
212, 236, 670,			
978, 1173, 9294,			
9472, 16507,			
16532, 18944,			
19395, 19458, 19601			
\HyRTL@saved@RTLfootnotetext			
. . . . 16217, 16240			
	I		
\i 6860, 6861,			
6873, 6885, 6886			
\ialign 22337,			
22375, 24494, 24680			
\if 373, 374, 375, 377,			
378, 379, 380,			
381, 384, 385,			
386, 424, 431,			
1436, 1437, 1438,			
1440, 1441, 1442,			
1443, 1444, 1445,			
1446, 1449, 1450,			
1451, 1474, 1475,			
1476, 1478, 1479,			
1480, 1481, 1482,			
4955, 4961, 4964,			
4967, 4970, 5603,			
6556, 6611, 6615,			
6621, 6625, 6666,			
6749, 9888, 9907,			
9940, 9941, 9942,			
14351, 14375,			
14613, 16600,			
16781, 16783,			
16785, 22344,			
22378, 22383,			
22470, 22471,			
22472, 22473,			
22474, 22475,			
22476, 22478,			
22479, 22480,			
22481, 22482,			
22485, 22486,			
22487, 24580,			
24581, 24672,			
24689, 24696,			
24697, 24698,			
24699, 24700, 24701			
\if@allcaps 800, 809,			
817, 1053, 1062,			
1070, 1304, 1313,			
1321, 9416, 9425,			
9433, 9594, 9603,			
9611, 19080,			
19089, 19097,			
19219, 19228, 19236			
\if@altsecnumformat			
20338, 21067, 21830			
\if@bib@break@ 20348,			
20373, 20388,			
20404, 21099,			
21124, 21139,			
21155, 21854,			
			21879, 21894, 21910
			\if@bibchapter . . 22678
			\if@bidi@banner . . .
			. . . . . 4065, 4233
			\if@bidi@blank
			. . 5662, 6164, 6171
			\if@bidi@csdef 4412,
			4423, 5626,
			5675, 16947,
			18150, 23792, 23798
			\if@bidi@csmacro . 5674
			\if@bidi@cspprimitive
			. . . . . 5684
			\if@bidi@csundef . .
			. . . . . 5289,
			5292, 5295, 5299,
			5304, 5632, 5711,
			5747, 5772, 5801,
			5826, 5858, 5864,
			5892, 5898, 5907,
			5924, 6441,
			11747, 11748,
			11761, 11762,
			13798, 18211,
			24459, 24466, 25133
			\if@bidi@def 5644
			\if@bidi@defmacro .
			. . . . . 5667,
			5668, 5676,
			6071, 6090, 6229
			\if@bidi@defparam .
			. . . . . 6092,
			6178, 6179, 6231
			\if@bidi@defprimitive
			. . . . . 5678
			\if@bidi@defprotected
			. . . . . 6099,
			6187, 6188, 6242
			\if@bidi@list@minipage@parbox
			. . . . . 4256,
			24531, 24591,
			24600, 24609,
			24618, 24631,
			24632, 24644, 24645
			\if@bidi@list@minipage@parbox@not@nob
			. . . . . 4257,
			24539, 24593,
			24602, 24611, 24620
			\if@bidi@mdf@RTL . .
			. . . . 16977, 16984
			\if@bidi@patchable
			. . . . . 6059, 6060
			\if@bidi@pdfbanner
			. . . . . 4066, 4404



<code>\if@bidi@pdfencrypt</code>	<code>\if@conthang</code> ... 17721	<code>\if@left@column@spread</code>
..... 4248, 4395	<code>\if@continent</code> .. 17727	.... 10423, 10500
<code>\if@bidi@pdfmark</code>	<code>\if@DEBUG</code> 5010	<code>\if@LTRbibitems</code> ...
... 4070, 4405,	<code>\if@displaypagenumbers</code>	..... 88, 302,
4431, 4487, 4567	..... 5218, 5221	619, 754, 1019,
<code>\if@bidi@perpage@footnote</code>	<code>\if@donumindex</code>	1270, 2666, 4253,
..... 4071, 4382	.... 22679, 22698	5236, 9361, 9551,
<code>\if@bidi@todonotes@figposition@right</code>	<code>\if@dot&cbib</code> ... 22638	9864, 11417,
. 24052, 24150,	<code>\if@dotocind</code>	11689, 13876,
24155, 24162, 24168	.... 22686, 22703	16488, 17789,
<code>\if@bidi@todonotes@textdirection@RTL</code>	<code>\if@extrafootnotefeatures</code>	18297, 19035,
..... 24051,	..... 4068, 4367	19429, 19625,
24085, 24125, 24159	<code>\if@fcolmade</code>	19832, 20364,
<code>\if@bidi@undef</code> 5650,	10269,	21115, 21870, 22645
5715, 5968, 5979,	10328, 14060,	<code>\if@LTRmarginpar</code> ..
5998, 6002, 6006,	14100, 14185,	..... 4252,
6010, 6020, 6024,	14969, 15022,	24998, 25003, 25007
6028, 6032,	15051, 17882,	<code>\if@mainmatter</code>
6068, 6087, 6226	17979, 24812, 24855	... 8879, 9637,
<code>\if@capbreak</code>	<code>\if@ff@nwpg</code> 14153	9835, 11660,
20542, 21293, 22048	<code>\if@filesw</code> ... 5316,	18818, 21070, 21092
<code>\if@captionabove</code> ..	5737, 5743, 5762,	<code>\if@minipage</code> 7624, 17780
..... 20477,	5768, 5791, 5797,	<code>\if@mparswitch</code> .. 24971
20483, 20578,	5816, 5822, 5848,	<code>\if@newlist</code> . 14201,
20581, 21228,	5854, 5882, 5888	14233, 25027, 25102
21234, 21330,	<code>\if@firstcolumn</code> ...	<code>\if@nobreak</code> .. 7165,
21333, 21983,	..... 10220,	14887, 16988, 18879
21989, 22085, 22088	10283, 10344,	<code>\if@nonlatin</code>
<code>\if@cftdopart</code> ... 22737	10616, 10635,	348, 360, 4069,
<code>\if@cfthaschapter</code> .	14028, 14064,	4380, 5573, 5579,
..... 22728,	14926, 14975,	9923, 9925, 16972
22732, 22738,	15063, 17794,	<code>\if@noparlist</code> 9238
22759, 22771, 22793	17894, 18000,	<code>\if@noskipsec</code> . 9886,
<code>\if@cfthaspart</code> .. 22724	24771, 24818, 24969	14888, 16989, 18880
<code>\if@chapterentrywithdots</code>	<code>\if@firstdetailselement</code>	<code>\if@oldtoc</code> 705,
.... 21377, 22132	.... 10828, 10830	731, 934, 950,
<code>\if@colour</code> 5039	<code>\if@firstfooterelement</code>	1190, 1217,
<code>\if@colourgreen</code> ...	.... 10732, 10735	9311, 9335, 9489,
..... 10663,	<code>\if@hboxRconstruct</code>	9513, 18979,
10692, 10761, 10787	..... 4247,	19003, 19352, 19376
<code>\if@colourgrey</code> 10667,	4490, 5561, 5567,	<code>\if@openright</code>
10706, 10765, 10799	14612, 24538,	. 8907, 9854, 11680
<code>\if@colourorange</code> ..	24562, 24593,	<code>\if@ovb</code> 14013
..... 10661,	24602, 24611,	<code>\if@ovl</code> 14011
10685, 10759, 10781	24620, 24631,	<code>\if@ovr</code> 14010
<code>\if@coloured</code> 10665,	24632, 24644, 24645	<code>\if@ovt</code> 14012
10699, 10763, 10793	<code>\if@ignore</code> .. 6408, 6410	<code>\if@pboxsw</code> 24587
<code>\if@compatibility</code> .	<code>\if@inlabel</code> 9887	<code>\if@restonecol</code> . 651,
. 568, 717, 794,	<code>\if@inltxdoc</code> ... 22671	667, 917, 1170,
962, 1047, 1202,	<code>\if@insert</code> 10643	9291, 9469,
1298, 9410, 9588,	<code>\if@komalongtable</code> .	9680, 18941,
19074, 19213,	20574, 21326, 22081	19197, 19658, 22718
22763, 23298, 24660	<code>\if@left@column@shrink</code>	<code>\if@reversemargin</code> 24974
<code>\if@contcw</code> 17711, 17740	..... 10506	



<code>\if@right@column@shrink</code>	5761, 5790, 5815,	15555,	15563,
10424, 10453, 10528	5847, 5881, 8535,	15676,	15778,
<code>\if@right@column@spread</code>	8536, 8653, 8654,	15880,	15888,
..... 10522	8655, 9295, 9301,	16270,	16306,
<code>\if@rjfield</code> 25013	9302, 9307, 9318,	16338,	16367,
<code>\if@rl</code> 4243	9341, 9344, 9345,	16393,	16399,
<code>\if@rl@footnote</code> .. 4255	9361, 9473, 9479,	16403,	16406,
<code>\if@rlmain</code> 4242	9480, 9485, 9496,	16420,	16428,
<code>\if@rot@twoside</code> ...	9519, 9522, 9523,	16436,	16444,
..... 19864,	9551, 9635, 9646,	16452,	16461,
19869, 19879,	9648, 9785, 9800,	16469,	16478,
19909, 19915, 19927	9803, 9804, 9833,	16488,	16506,
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219, 235, 238,	10033, 10040,	16580,	16585,
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3571, 3657, 3712,	15191, 15194,	18925,	18945,
3718, 3828, 3850,	15201, 15210,	18958,	18969,
3904, 3913, 3923,	15216, 15220,	18970,	18975,
3945, 3986, 3995,	15223, 15237,	18986,	19009,
4014, 4243, 4272,	15262, 15269,	19012,	19013,
4489, 4496, 5236,	15387, 15451,	19035,	19330,
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19343,	19348,	22835,	22843,	12168,	12173,
19359,	19382,	22850,	22851,	12257,	12262,
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19978,	20003,	23887,	23888,	13184,	13191,
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20049,	20336,	23898,	23945,	13285,	13331,
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20412,	20413,	24033,	24040,	13495,	13509,
20414,	20416,	24100,	24103,	13544,	13599,
20464,	20468,	24187,	24222,	13606,	14504,
20732,	20740,	24230,	24257,	14553,	14595, 14598
20765,	20779,	24258,	24261,	\if@RTLbibitems ...	
21066,	21115,	24262,	24264, 88, 302,	
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21165,	21167,	24358,	24363,	1270, 2666, 4254,	
21215,	21219,	24409,	24410,	5236, 9361, 9551,	
21495,	21503,	24437,	24438,	9864, 11417,	
21528,	21542,	24441,	24445,	11689, 13876,	
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21920,	21922,	24565,	24633,	19429, 19625,	
21970,	21974,	24634,	24636,	19832, 20364,	
22229,	22232,	24639,	24642,	21115, 21870, 22645	
22237,	22248,	24644,	24645,	\if@RTLmain .. 1553,	
22255,	22287,	24646,	24647,	2081, 2089, 2098,	
22307,	22505,	24649,	24651,	2106, 2128, 2145,	
22543,	22579,	24652,	24657,	2159, 2174, 3228,	
22596,	22616,	24704,	24705,	3320, 3322, 3325,	
22619,	22624,	24711,	24716,	3435, 3446, 3459,	
22628,	22629,	24998,	25003,	3466, 3544, 3637,	
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22745,	22746,	25016,	25017,	4242, 4271, 4290,	
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14329, 15287,	\if@titlepageiscoverpage	\ifbeamer@dogeometry
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392, 398, 431,	\if@ttb@rotate .. 14293	\ifbeamer@tree@showhooks
442, 1417, 1418,	\if@twocolumn ... 99, 4003, 4022
1437, 1438, 1475,	229, 508, 638,	\ifbeamercoloreempty
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22358, 22383,	19137, 19184, 6620, 6622
22471, 22472,	19278, 19406,	\ifblank 2624, 3489
24491, 24664,	19413, 19523,	\ifblendcolors 24269,
24668, 24669,	19645, 19706,	24290, 24312, 24339
24689, 24697, 24698	20254, 20984,	\ifbool ... 17002, 17011
\if@sectionentrywithdots	21747, 22673,	\IfBooleanT 7049
..... 20625	24733, 24968, 25127	\IfBooleanTF
\if@sentedir 4491	\if@twoside 6895, 6949,
\if@specialpage 8824, 11182,	6964, 6982, 7010
.... 14156, 25038	14160, 20135,	\ifcase .. 1458, 1485,
\if@tab@rl 4246	20179, 20257,	1489, 1493, 1497,
\if@tempswa .. 2017,	20271, 20865,	1523, 4536, 5260,
2027, 2036, 2051,	20909, 20987,	9998, 15876,
10930, 10987,	21001, 21628,	16870, 22610,
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\if@thmmarks 18367,	\if@vihproof	24065, 24289,
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..... 1391, 19310	\ifadl@usingarypkg 1426	4506, 6506, 6507
\if@titlepage .. 461,	\IfArgIsEmpty	\IfClassLoadedF .. 9681
672, 781, 980,	20019, 20748, 21511	\IfClassLoadedT 460,
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11534, 13891,	\ifbeamer@colbox@ignorebg	14280, 22637, 22721
18946, 19061, 1999, 2002	\ifconvertcolorsU .
19198, 19397,	\ifbeamer@colbox@rounded 24275,
19461, 19659, 2035	24291, 24318, 24340
20088, 20818, 21581	\ifbeamer@compress 2704	\ifcoppddpage 7401



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<code>\ifdefined</code>	.. 5645, 5651		
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<code>\ifdfn@allowcbreak</code> 10883, 10904		
<code>\ifdfn@ruleboth</code> 10941, 10995		
<code>\ifdfn@trysingle</code> 10922, 10979		
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<code>\IfFileLoadedTF</code>	.. 7177		
<code>\iffootdir@debug</code>	..		



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<code>\ifltoR</code>	5542	1430, 1431, 1433,	17943,	18032,
<code>\ifltoR hboxconstruct</code>		1472, 1473, 2346,	18044,	18056,
.....	5566	2362, 2378, 2625,	18156,	18162,
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14318, 14323, 14325		14896, 14898,	22464,	22465,
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366, 367, 368,		16680, 16683,	22731,	22773,
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1176, 1192, 1210,		17687, 17813,	22939,	22974,



23157,	23158,	23084,	23085,	7451, 7470, 7485,
23269,	23270,	23086,	23089,	7490, 7496, 7505,
23297,	23307,	23092,	23111,	7516, 7522, 7528,
23321,	23807,	23112,	23113,	7529, 7536, 7543,
23812,	23830,	23115,	23116,	7545, 7551, 7568,
24003,	24221,	23117,	23120,	7586, 7588, 7592,
24513,	24694,	23123,	23132,	7610, 7611, 7614,
24695,	24709,	23133,	23134,	7615, 7650, 7659,
24764,	24976,	23137,	23140,	7670, 7680, 7729,
24998, 25121, 25122		23198,	23199,	7844, 8068, 8086,
\ifodd ... 4956, 8824,		23200,	23201,	8087, 8105, 8106,
11155, 11183,		23202,	23203,	8124, 8125, 8156,
11254, 14161,		23204,	23205,	8157, 8275, 8280,
15307, 15313,		23206,	23221,	8304, 8309, 8333,
24213, 24972, 25042		23222,	23223,	8338, 8415, 8419,
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7215, 7235, 9778,		23251,	23505,	10749, 10750,
9860, 19755, 19828		23506,	23507,	10751, 10752,
\IfPackageLoadedT 7236		23508,	23509,	10838, 10843,
\IfPackageVersionAtLeastTF		23510,	23511,	10846, 10847,
..... 5591		23512,	23513,	10848, 10849,
\IfPackageVersionAtMostTF		23582,	23583,	10850, 10853,
..... 5605		23584,	23585,	10857, 14242,
\IfPackageVersionTF		23587,	23588,	14257, 19868, 19913
..... 5615		23589,	23592,	\Iftocfeature 23177,
\ifpgfrememberpicturepositiononpage		23595,	23604,	23289, 23347, 23357
..... 18487		23605,	23606,	\iftocstyle@autolength
\ifpoem@started ...		23609,	23612,	..... 23852
... 9067, 9073,		23642,	23643,	\iftocstyle@indentnotnumbered
9213, 9220, 9234		23644,	23646,	... 23897, 23944
\ifprimitive 5679, 5686		23647,	23648,	\iftrue .. 5460, 5476,
\ifr@gedbottom . 18744		23651,	23654,	7809, 7822, 7835
\ifrot@messages ...		23663,	23664,	\ifttl@label ... 22577
... 19914, 19926		23665,	23668,	\ifTX@ 22404
\ifRtoL 5536		23671,	23691,	\IfValueT 7020
\ifRtoLhboxconstruct		23694,	23697,	\ifvbox 13707,
..... 5560		23717,	23721,	15133, 18213, 18218
\ifRtoLtable 5548		23726,	23738,	\ifvmode 5261,
\ifsomething 6759		23741,	23745,	5733, 5787, 5844,
\Ifstr 20592,		23755, 23759, 23764		7165, 7598, 7601,
21344, 22099,	\Ifstrstart . 23496,			7604, 7607,
23039, 23040,	23528, 23556,			17017, 18086,
23041, 23042,	23569, 23628, 23780			18378, 18398, 22356
23043, 23044,	\iftagsleft@ 340, 11212			\ifvoid 10255, 10271,
23045, 23046,	\iftest 6563			10314, 10330,
23047, 23062,	\ifthenelse .. 5190,			10385, 10572,
23063, 23064,	5207, 5211, 5215,			10881, 10902,
23065, 23067,	5223, 7294, 7354,			10913, 10938,
23068, 23069,	7356, 7359, 7363,			10970, 10992,
23072, 23075,	7366, 7369, 7394,			11990, 11996,



12008,	12014,	15585,	15591,	20913,	20929,
12037,	13748,	15602,	15604,	20936,	20944,
13761,	13773,	15607,	15608,	20952,	20964,
13786,	14631,	15625,	15631,	20971,	20986,
14856,	14877,	15632,	15634,	20987,	20991,
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15055,	15057,	15650,	15652,	21001,	21005,
15066,	15076,	15655,	15664,	21006,	21015,
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15101,	15112,	15677,	15690,	21021,	21029,
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17033,	18071,	15746,	15762,	21560,	21567,
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18738,	18740,	15807,	15820,	21633,	21641,
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24416, 24426, 24866		15873,	15904,	21676,	21692,
<code>\ifWF@float</code>	24195, 24209	15915,	15926,	21699,	21707,
<code>\ifx</code>	116, 135, 137, 152,	16233,	16236,	21715,	21727,
	156, 160, 167,	16239,	16242,	21734,	21749,
	842, 846, 1095,	16286,	16294,	21750,	21754,
	1099, 1346, 1350,	16320,	16328,	21755,	21763,
	2033, 2034, 2413,	16351,	16380,	21764,	21768,
	2439, 2465, 2491,	16554,	16575,	21769,	21778,
	3122, 3128, 3134,	16720,	16721,	21779,	21783,
	3212, 3419, 3444,	16725,	16727,	21784,	21792,
	3464, 3614, 3630,	16802,	17764,	21857,	22364,
	3697, 3761, 3857,	17805,	17905,	22533,	22556,
	3952, 4386, 4387,	18170,	18175,	22612,	22959,
	4822, 4828, 4834,	18180,	18326,	23312,	23318,
	4849, 4880, 4932,	18330,	18337,	23364,	23368,
	4935, 5196, 5197,	18343,	18735,	23372,	23479,
	5198, 5200, 5262,	18828,	18841,	23819,	23890,
	5344, 5373, 5376,	18854,	19122,	23902,	23910,
	5396, 5400, 5420,	19126,	19263,	23927,	23952,
	5424, 5439, 5443,	19267,	20032,	24019,	24024,
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	5948, 6144, 6486,	20132,	20133,	24313,	24446,
	6492, 6493, 6530,	20140,	20148,	24566,	24569,
	6531, 6532, 6533,	20155,	20161,	24576,	24735,
	6543, 6549, 6574,	20183,	20199,	24743,	24782,
	6579, 6584, 6589,	20206,	20214,	24829,	25055,
	6595, 6600, 6788,	20222,	20234,	25056, 25058, 25059	
	8138, 8962, 8983,	20241,	20256,	<code>\ifXC@tst</code>	24293, 24342
	9136, 9188, 9193,	20257,	20261,	<code>\ignorespaces</code>	.....
	9195,	20262,	20270,	.....	47, 61, 77,
	10294,	20271,	20275,	.....	123, 261, 275,
	11002,	20276,	20285,	.....	290, 348, 677,
	11724,	20286,	20290,	.....	686, 985, 1238,
	14038,	20291,	20299,	.....	1247, 2025, 2243,
	14459,	20352,	20761,	.....	2249, 2253, 2258,
	14941,	20797,	20804,	.....	2270, 2280, 2308,
	15028,	20862,	20863,	.....	2325, 2342, 2358,
	15247,	20870,	20878,	.....	2374, 2390, 2750,
	15254,	20885,	20891,	.....	6317, 6807, 6823,



6825, 6831, 6834,	22693, 22694,	<code>\insertblocktitle</code> .
6837, 6841, 6846,	22700, 22701,	..... 1825,
7621, 7628, 7629,	22705, 22706,	1834, 1843, 2915,
7638, 8225, 8243,	22707, 22710, 22711	2930, 2945, 3146,
8261, 8297, 8326,	<code>\indexspace</code> 8656	3158, 3170, 3270
8355, 8620, 9044,	<code>\init@mult@footins</code>	<code>\insertbuttontext</code> 2965
9055, 9208, 9209, 13803	<code>\insertcaption</code>
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9927, 10040,	4368, 4485, 4577,	<code>\insertcaptionname</code>
10046, 10054,	5043, 7188, 7192,	.. 1857, 1873, 2899
10061, 11713,	7218, 7224, 7238,	<code>\insertcaptionnumber</code>
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11800, 11806,	8854, 8919, 25126	<code>\insertdate</code>
14516, 14533,	<code>\input@path</code> 17260	.. 3079, 3134, 3137
14549, 14577,	<code>\InputIfFileExists</code>	<code>\insertdateindicator</code>
14592, 14607,	..... 16602	..... 3136
15289, 15293,	<code>\insert</code> 36, 50, 66, 250,	<code>\insertenumlabel</code> ..
15298, 15303,	264, 279, 4288,	..... 1682, 1747
16561, 16580,	4512, 10872,	<code>\insertfootnotemark</code>
16972, 17777,	10888, 10893,	... 2286, 2291,
17784, 18951,	10909, 10956,	2873, 2880, 2887,
18960, 19402,	10962, 11008,	3290, 3296, 3302
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20491, 20493,	12109, 12125,	2873, 2880, 2887,
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21997, 21999,	12271, 12280,	<code>\insertframenumber</code>
24301, 24305,	12397, 12413, 3224,
24558, 24597,	12423, 12544,	3432, 3438, 3442,
24606, 24615, 24624	12560, 12570,	3460, 3462, 3539
<code>\iii</code> 6867	12691, 12707,	<code>\insertframesubtitle</code>
<code>\ilg</code> 18566, 18589	12717, 12838,	... 3614, 3615,
<code>\immediate</code> .. 7162, 9200	12854, 12864,	3761, 3762, 3857,
<code>\includegraphics</code> ..	12985, 13001,	3860, 3952, 3955
..... 5231,	13011, 13132,	<code>\insertframetitle</code> .
10724, 10855, 18408	13148, 13158,	..... 3613,
<code>\includemedia</code>	13279, 13295,	3760, 3856, 3951
17239, 17569, 17570	13305, 13543,	<code>\insertgotosymbol</code> 2761
<code>\indentedwidth</code> .. 11726	13561, 13573,	<code>\insertinstitute</code> ..
<code>\index</code> 6745,	13779, 13787,	.. 3073, 3128, 3131
6746, 14214, 25066	14503, 14520,	<code>\insertinstituteindicator</code>
<code>\indexname</code> 645, 646,	14536, 15056, 15058	..... 3130
647, 661, 662,	<code>\insert@column</code>	<code>\insertlogo</code> 3643
911, 912, 1164,	... 1460, 1461,	<code>\insertnavigation</code> .
1165, 8640, 8641,	1462, 1463, 1465,	..... 3566, 3825
9285, 9286, 9463,	1466, 1526, 1528,	<code>\insertnote</code> 3404
9464, 9674, 9675,	1529, 1531, 1532,	<code>\insertpenalties</code> ..
9676, 18935,	1533, 10001,	.... 14467, 15086
18936, 19191,	10003, 10004,	<code>\insertreturnsymbol</code>
19192, 19652,	10006, 10007, 10008	..... 2804
19653, 19654,	<code>\insertauthor</code>	<code>\insertsection</code>
22682, 22683,	.. 3067, 3122, 3125	..... 3370, 3377
22684, 22688,	<code>\insertauthorindicator</code>	<code>\insertsectionhead</code>
22689, 22690,	..... 3124	... 3209, 3519,



3921, 4004, 4012	3448, 3451,	18370, 18389, 18391
\insertshortauthor	3468, 3471, 3539	\ior 17343, 17344, 17348
.. 3489, 3692, 3716	\insertverticalnavigation	\isempty 7470,
\insertshortdate . 3497	..... 3695	8068, 8275, 8280,
\insertshortframetitle	\insertvrule	8304, 8309, 8333,
..... 3387, 3393	.. 2070, 3341, 3399	8338, 8726,
\insertshortinstitute	\int 15335,	8735, 8743, 8770
..... 3489	15366, 15378,	\isodd 19868, 19913
\insertshorttitle .	15396, 15404,	\isSC@ODD ... 22230,
..... 3369,	15432, 15433,	22231, 22233,
3492, 3684,	15460, 15468,	22234, 22238,
3723, 3911, 3993	15503, 15515,	22240, 22242, 22244
\insertskipsymbol 2784	15547, 16847,	\isundefined . 7680,
\insertslideintonotes	17293, 17340,	7729, 10722,
..... 3346	17341, 17345,	10728, 10745,
\insertsubenumlabel	17423, 17511,	10748, 10749,
..... 1705	17514, 17515,	10750, 10751,
\insertsubsection .	17526, 17564,	10752, 10843,
..... 3379, 3385	17602, 17627, 18444	10846, 10847,
\insertsubsectionhead	\interfootnotelinepenalty	10848, 10849,
... 3212, 3215,	40, 54, 70, 254,	10850, 10853, 10857
3526, 3578, 3835,	268, 283, 11978,	\item 103, 233,
3931, 4023, 4031	14507, 14524, 14540	650, 665, 915,
\insertsubsubenumlabel	\interlinepenalty 40,	998, 1168, 8612,
..... 1726	54, 70, 254, 268,	8620, 8625, 8646,
\insertsubtitle ...	283, 669, 694,	9289, 9467, 9679,
.. 3051, 3119, 3196	922, 977, 1172,	14110, 14125,
\insertttitle	1179, 8532, 9293,	16504, 18939,
.. 3045, 3118, 3189	9300, 9471, 9478,	19195, 19657, 22717
\insertttitlegraphic	9643, 9841, 9849,	\itemindent .. 8607,
..... 3062	10575, 10587,	8608, 8616, 24520
\insertttitleindicator	10600, 11666,	\itemize 2623
..... 3117	11675, 11978,	\itemsep . 2672, 7343,
\inserttocsection .	13852, 13860,	8553, 8592, 8606
..... 1588,	14507, 14524,	\itemx 18225
1616, 1656,	14540, 18036,	\itemxox 18260
1766, 1797, 3113	18048, 18060,	\itemxoxx 18270
\inserttocsectionnumber	18821, 18943,	\itemxx 18228
..... 1591,	18968, 19341,	\itemxxo 18265
1613, 1650, 1794	19394, 19457,	\itemxxox 18277
\inserttocsubsection	19816, 19824,	\itemxxx 18233
..... 1581,	22569, 22610,	\itemxxxo 18284
1591, 1619, 1661,	22749, 22780,	\itemxxxx 18240
1770, 1805, 2843	22803, 22820,	\itemxxxxx 18249
\inserttocsubsectionnumber	22837, 22854,	\itshape 4730,
..... 1591	22871, 22888,	5203, 8416, 8418,
\inserttocsubsubsection	22906, 22925,	8422, 8429, 8436,
..... 1585,	22945, 22980,	8471, 8478, 8485,
1596, 1624, 1668,	23363, 23893,	8492, 8499,
1776, 1812, 2847	24007, 24188, 24713	8803, 8804, 8805
\inserttotalframenum	\intermath@penalty 9920	
..... 3224,	\intertextsep 24248, 24250	
3423, 3429, 3432,	\InTheType	J
	. 11228, 18368,	\j 6881, 6882, 6886



<code>\juo@ht</code>	17832, 17839, 17932, 17939, 18008, 18015	11313, 11359, 11433, 11437, 11440, 11733, 11735, 11737, 11740, 11785, 11786, 11913, 11914, 13865, 13867, 13869, 13872, 14010, 14011, 14012, 14246, 14418, 14421, 14422, 14423, 14424, 14425, 14457, 14745, 14809, 15187, 15233, 16514, 16517, 16518, 16519, 16589, 16591, 16593, 16596, 16972, 18095, 18151, 18152, 18199, 18202, 18203, 18204, 18744, 18755, 18758, 19021, 19022, 19024, 19027, 19028, 19031, 19072, 19211, 19445, 19446, 19448, 19451, 19452, 19455, 19603, 19605, 19610, 19607, 19788, 19790, 19792, 19795, 20066, 20070, 20073, 20077, 20078, 20472, 20474, 20568, 20570, 20796, 20800, 20803, 20807, 20808, 21223, 21225, 21319, 21321, 21559, 21563, 21566, 21570, 21571, 21978, 21980, 22074, 22076, 22291, 22297, 22583, 24223, 24227,	11320, 11363, 11435, 11435, 11440, 11735, 11735, 11740, 11740, 11786, 11786, 11914, 11914, 13867, 13867, 13872, 14011, 14011, 14246, 14421, 14421, 14423, 14423, 14425, 14745, 15187, 16514, 16518, 16518, 16589, 16593, 16972, 18151, 18199, 18203, 18203, 18744, 18758, 19022, 19022, 19027, 19027, 19031, 19031, 19211, 19446, 19446, 19451, 19451, 19455, 19605, 19610, 19790, 19795, 20070, 20077, 20077, 20472, 20568, 20796, 20803, 20808, 21225, 21225, 21321, 21321, 21563, 21563, 21570, 21978, 22074, 22074, 22291, 22291, 22583, 24227,	24233, 24236, 24258, 24417, 24427, 24457, 24461, 24468, 24995	<code>\keys</code> 4083, 4090, 4097, 4104, 4111, 4117, 4123, 4129, 4136, 4145, 4152, 4159, 4175, 4182, 4191, 4198, 4335, 4340, 4345, 4350, 4355, 17056, 17252, 17346, 17585, 17586	<code>\keywords</code> 336	<code>\kill</code> 16799	<code>\KOMAClassName</code> 20026, 20200, 20207, 20229, 20235, 20242, 20430, 20439, 20503, 20602, 20755, 20930, 20937, 20959, 20965, 20972, 21181, 21190, 21254, 21354, 21518, 21693, 21700, 21722, 21728, 21735, 21936, 21945, 22009, 22109	<code>\KV@errx</code> 2405, 2408, 2411, 2431, 2434, 2437, 2457, 2460, 2463	L	<code>\l</code> 6915, 6916, 6995, 7005, 7006, 7028, 7042, 7043, 7083, 7087, 7088, 7092, 7095, 7099, 7100, 7104, 7107, 7111, 7112, 7116, 7121, 7122, 7126, 11254, 11270, 11273, 11279, 11282, 11284, 11285, 11288, 11289, 11292, 11295, 11296, 11297, 11302, 11303, 11304, 11310, 11311, 11312,
K											
<code>\keepthetitle</code> . . .	17636										
<code>\kern</code>	27, 30, 31, 32, 242, 245, 246, 247, 348, 589, 591, 593, 596, 770, 771, 773, 776, 777, 780, 792, 1007, 1009, 1012, 1015, 1045, 1252, 1253, 1255, 1258, 1259, 1262, 1296, 1524, 1529, 1614, 1655, 1661, 1668, 1765, 1770, 1776, 1796, 1804, 1811, 2724, 2973, 3015, 4753, 4754, 4755, 4756, 4757, 4758, 4759, 4760, 4764, 4765, 4812, 4814, 4815, 5340, 7819, 7820, 7830, 7831, 7833, 8298, 8299, 8327, 8328, 8356, 8357, 9377, 9378, 9380, 9383, 9384, 9387, 9408, 9531, 9532, 9534, 9537, 9538, 9541, 9586, 9811, 9813, 9815, 9818, 9999, 10004, 10026, 10867, 10868, 11298, 11305,										



11317,	11318,	17247,	17262,	9779,	11386,
11319,	11328,	17263,	17264,	11630,	13814,
11331,	11339,	17265,	17283,	18980,	18996,
15333,	15340,	17303,	17311,	19353,	19369,
15354,	15376,	17316,	17330,	19570,	19756,
15383,	15402,	17335,	17339,	22631,	22632,
15408,	15410,	17340,	17341,	22725,	23964, 23967
15415,	15416,	17343,	17344,	<code>\l@section</code>	574,
15421,	15424,	17345,	17348,	732, 745, 935,	
15425,	15433,	17352,	17354,	948, 1218, 1231,	
15434,	15439,	17355,	17356,	11372, 22791, 23976	
15466,	15474,	17357,	17358,	<code>\l@subfigure</code> . . .	22918
15475,	15476,	17359,	17360,	<code>\l@subparagraph</code> . . .	
15477,	15513,	17362,	17363,	. . . . .	22864, 23992
17064,	17066,	17364,	17365,	<code>\l@subsection</code>	
17072,	17074,	17367,	17368,	. . . . .	22813, 23980
17080,	17081,	17369,	17371,	<code>\l@subsubsection</code> . . .	
17082,	17083,	17372,	17373,	. . . . .	22830, 23984
17084,	17085,	17376,	17377,	<code>\l@subtable</code>	22938
17086,	17087,	17378,	17381,	<code>\l@table</code>	
17088,	17089,	17414,	17416,	. . . . .	8541, 22899, 23996
17090,	17092,	17419,	17444,	<code>\label</code>	5227,
17093,	17095,	17446,	17478,	7499, 7501, 7503,	
17096,	17097,	17482,	17494,	7507, 7559,	
17104,	17105,	17495,	17541,	14213, 14678,	
17106,	17108,	17551,	17557,	14684, 15639,	
17110,	17113,	17569,	17570,	15657, 20424,	
17114,	17121,	17589,	17590,	21175, 21930, 25065	
17131,	17132,	17591,	17592,	<code>\labelitemi</code> 791, 1044,	
17133,	17134,	17593,	17594,	1107, 1295, 9407,	
17135,	17136,	17595,	17596,	9585, 19071, 19210	
17137,	17138,	17597,	17632,	<code>\labelname</code> . . .	18226,
17139,	17140,	17633,	18360,	18229, 18231,	
17141,	17142,	18446, 18448, 18457		18234, 18236,	
17143,	17144,	<code>\l@</code>	22990	18238, 18241,	
17145,	17149,	<code>\l@addto@macro</code>		18243, 18245,	
17150,	17151,	. . . . .	20009, 20738, 21501	18247, 18250,	
17153,	17155,	<code>\l@chapter</code> 9336, 9350,		18252, 18254,	
17158,	17159,	9514, 9528, 9794,		18256, 18258,	
17161,	17162,	13829, 19004,		18261, 18263,	
17163,	17172,	19018, 19377,		18266, 18268,	
17182,	17183,	19391, 19584,		18271, 18273,	
17184,	17185,	19771, 22634,		18275, 18278,	
17186,	17187,	22635, 22772, 23972		18280, 18282,	
17188,	17189,	<code>\l@figure</code>	8540,	18285, 18287, 18289	
17190,	17196,	. . . . .	8541, 22881, 24000	<code>\labelsep</code> 86, 91, 300,	
17198,	17199,	<code>\l@ngrel@x</code>		305, 624, 759,	
17200,	17203,	. . . . .	5948, 5949, 5951	1024, 1275, 2650,	
17205,	17207,	<code>\l@paragraph</code>		2671, 5242, 5244,	
17212,	17213,	. . . . .	22847, 23988	8569, 8571, 8628,	
17214,	17216,	<code>\l@part</code>	557, 706,	9366, 9556, 9869,	
17218,	17223,	724, 951, 969,		11422, 11694,	
17225,	17227,	1191, 1209, 9312,		13881, 16486,	
17235,	17246,	9328, 9490, 9506,		16491, 18226,	



18229, 18231,	\Larg 4730, 4731,	\Largs 4733
18234, 18236,	4732, 4733, 4734	\lastbox 10362, 13403,
18238, 18241,	\Larga 4731	13423, 13427,
18243, 18245,	\Largb 4732	17014, 18672,
18247, 18250,	\LARGE 473, 544,	24363, 24415, 24425
18252, 18254,	799, 889, 1052,	\LastFrameCommand .
18256, 18258,	1142, 1303, 1394,	. . . . 14763, 14873
18261, 18263,	1405, 8471, 8478,	\lastkern
18266, 18268,	8560, 8803, 9415,	. 5325, 8204, 14848
18271, 18273,	9593, 9694, 9765,	\lastnodetype 5262, 5271
18275, 18278,	10807, 11451,	\lastpenalty . 5265,
18280, 18282,	11516, 11546,	5330, 9918, 23812
18285, 18287,	11617, 13901,	\lastrule 9965
18289, 19040,	13966, 19079,	\lastskip 5264, 7637,
19434, 19630,	19169, 19218,	9239, 9240, 9917
19837, 20371,	19315, 19326,	\LastTOCLevelWasHigher
21122, 21877, 22650	19483, 19671, 19742	. . . . . 23689
\labelwidth 90,	\Large . . . 8422, 8485,	\LastTOCLevelWasLower
91, 304, 305,	8559, 8804, 8805,	. . . . . 23685
622, 623, 757,	10718, 10811, 19559	\LastTOCLevelWasSame
758, 1022, 1023,	\large 475, 481,	. . . . . 23687
1273, 1274, 2658,	546, 552, 566,	\LaTeX 16415,
2669, 2670, 5241,	715, 806, 816,	24449, 24450, 24468
5243, 8570, 8571,	891, 897, 960,	\LaTeXe . . . 24451, 24452
9364, 9365, 9554,	1059, 1069, 1144,	\LBEG 4735
9555, 9867, 9868,	1150, 1200, 1310,	\lcb 4732, 4735, 4736, 4739
11420, 11421,	1320, 1396, 1402,	\lccode 6508,
11692, 11693,	1406, 1411, 8429,	6510, 24214, 24215
13879, 13880,	8492, 8558, 9321,	\Lcs 4746
14901, 16490,	9422, 9432, 9499,	\LcsStar 4747
16491, 18226,	9600, 9610, 9696,	\leaders 20077,
18229, 18231,	9702, 9767, 9773,	20807, 21570,
18234, 18236,	9788, 10717,	22304, 22625,
18238, 18241,	10719, 10810,	23903, 24012, 24718
18243, 18245,	10812, 11395,	\leavevmode 14, 220,
18247, 18250,	11453, 11459,	317, 390, 565,
18252, 18254,	11518, 11524,	582, 700, 714,
18256, 18258,	11548, 11554,	739, 792, 929,
18261, 18263,	11619, 11625,	942, 959, 1045,
18266, 18268,	11638, 13823,	1108, 1185, 1199,
18271, 18273,	13903, 13909,	1225, 1296, 1581,
18275, 18278,	13968, 13974,	1584, 1588, 1591,
18280, 18282,	18989, 19086,	1594, 1605, 1619,
18285, 18287,	19096, 19171,	1622, 1641, 1659,
18289, 19038,	19177, 19225,	1664, 1763, 1769,
19039, 19432,	19235, 19317,	1773, 1785, 1803,
19433, 19628,	19323, 19327,	1809, 1852, 1868,
19629, 19835,	19332, 19362,	1987, 2243, 2253,
19836, 20369,	19485, 19491,	2263, 2278, 2665,
20370, 21120,	19578, 19673,	2843, 2846, 2896,
21121, 21875,	19679, 19744,	2923, 2938, 2953,
21876, 22648, 22649	19750, 19765,	3112, 3145, 3157,
\landscape 16946, 18464	23287, 23719, 23757	3169, 3486, 3512,
\langle 4731	\Largr 4734	3711, 3749, 3759,



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22911,	22928,	25105,	25106,		19172, 19226,
22929,	22930,	25119,	25120,		19318, 19327,
22948,	22949,	25128,	25129,		19486, 19562,
22950,	22983,	25130, 25299, 25301			19674, 19745,
22984,	22985,	\LetLtxMacro			20165, 20895,
23048,	23207, 14672, 14673			21658, 22343,
23390,	23428,	\Letter 5092			22382, 24687, 25068
23481,	23484,	\lettergroup 8657		\lineskiplimit	
23514,	23560,	\lftside 18603,	 14218, 25068	
23573,	23785,	18605, 18608,		\linespacing .	24, 16526
23806,	24022,	18610, 18624, 18626		\linespread .	3188, 5935



<code>\linewidth</code>	5200, 7535, 14111, 14126, 14130, 14899, 14907, 14908, 14910, 14911, 15586, 16994, 17710, 17716, 18382, 18384, 18402, 18404, 18561, 18567, 18653, 18662, 18663, 18716, 18718, 18886, 20118, 20434, 20443, 20501, 20577, 20848, 21185, 21194, 21252, 21329, 21611, 21940, 21949, 22007, 22084, 22550, 24411, 24421, 24529, 24530, 24557, 24592, 24594, 24595, 24596, 24601, 24603, 24604, 24605, 24610, 24612, 24613, 24614, 24619, 24621, 24622, 24623, 25014, 25017	5153, 5154, 5186	9406, 9584, 9726, 10024, 10871, 10892, 11481, 11578, 13931, 14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
<code>\link</code>	..... 5206		
<code>\list</code>	..... 90, 304, 621, 756, 993, 1021, 1272, 2612, 2633, 2656, 2668, 8588, 8606, 8615, 8623, 9363, 9553, 9866, 11419, 11691, 13878, 16490, 18299, 19037, 19431, 19627, 19834, 20366, 21117, 21872, 22647, 24512	<code>\listitemsymbol</code> 5087, 5144, 5185, 5187, 10673, 10771	
<code>\listdoubleitemmaincolumnwidth</code>	..... 5146, 5159, 5160, 5161, 5188, 5192	<code>\listitemsymbolwidth</code> 5143, 5144, 5154, 5160	14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
<code>\listfigurename</code>	... .. 8510, 8511	<code>\listoffigures</code> ... 8508	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
<code>\listitemmaincolumnwidth</code>	..... 5145,	<code>\listoftables</code> 8516	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
		<code>\listparindent</code> 993, 8608, 8615, 8616, 24519, 24528	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
		<code>\listtablename</code> 8518, 8519	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
		<code>\lload</code> 1606, 1642, 1659, 1666, 1764, 1769, 1775, 1786, 1804, 1811, 2615, 2637, 3700, 8595, 11227, 11921, 11933, 11945, 14702, 14714, 14726, 15153, 15289, 15291, 15293, 15295, 15298, 15300, 15303, 15305, 22289, 22580, 22598	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
		<code>\loadclass</code> .. 8842, 8866	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
		<code>\long</code> . 35, 49, 65, 249, 263, 278, 505, 790, 855, 1043, 1106, 1294, 1359, 4618, 4882, 4885, 4888, 4893, 4896, 4899, 5409, 5410, 5419, 5422, 5433, 5664, 5668, 5701, 5703, 5705, 5707, 5951, 5955, 6065, 6084, 6151, 6167, 6179, 6188, 6223, 6251, 6263, 6264, 6638, 6640, 6645, 6646, 6663, 6664, 6671, 6680, 6683, 6690, 6708, 7158, 7469, 7618, 7878, 7882, 7886, 7922, 7926, 7930, 7966, 7970, 7974, 8185, 8272, 8301, 8330, 9141, 9144, 9147, 9151, 9154, 9157,	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
		<code>\longindentation</code> 11725	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
		<code>\longthickrule</code> 19554, 19560	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
		<code>\loop</code> 4376, 4377, 4378, 6721, 6731, 10182, 10392, 13421, 18559, 18595, 18622, 18633, 18660, 22402	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
		<code>\looprepeat</code> .. 6738, 6742, 6786, 6857, 6864, 6869, 6875, 6878, 6880, 6884, 6885, 6890	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109
		<code>\lower</code> ... 2118, 2122, 2153, 2182, 2222,	14503, 14520, 14536, 14564, 14579, 14594, 15151, 15165, 15174, 15220, 15261, 15268, 15942, 15953, 15964, 15975, 15990, 16005, 16048, 16065, 16086, 16103, 16119, 16136, 16150, 16167, 16181, 16198, 16700, 16895, 16898, 17652, 17702, 17752, 17774, 18186, 18190, 18194, 18542, 18751, 19070, 19135, 19209, 19276, 19473, 19516, 19703, 20000, 20030, 20729, 20759, 21492, 21522, 22261, 22447, 22451, 22454, 22458, 24256, 24453, 24559, 24895, 24899, 24903, 24939, 24943, 24947, 25006, 25109



2226, 2510, 4315, 4531, 18757, 24250, 24460, 24467	20599, 21349, 21351, 22104, 22106	\LTR@column@boxes . 18102, 18146, 18148
\lowercase ... 5496, 5504, 5512, 5520	\LT@cols 16855, 20576, 21328, 22083	\LTR@outputdblcol . . 10282, 14063, 14925, 17893, 24817, 24861, 24863
\lowertitleback 20208, 20243, 20330, 20938, 20973, 21060, 21701, 21736, 21823	\LT@end@pen 16903	\LTRbidityftesidenotemarginpar .. 7905, 8231, 8381
\LR 16411, 18724, 18757, 24435, 24460, 24464, 24467, 24471	\LT@endpbox 16801	\LTRcite 8175, 8295, 8324, 8353, 8375, 8384, 8393
\lrb 4734, 4743	\LT@err 16904	\LTRdblcol 24863
\LRE 4278, 4332, 4502, 4551, 16410, 18724, 18727, 24062, 24435, 24438	\LT@foot 16907, 16909, 16912, 16920, 16927	\LTRdfnmakecol .. 11024
\LRfootnoterule ... 10866, 11784, 14429	\LT@head .. 16916, 16934	\LTRfootfootmark .. . 11805, 11931, 12155, 12299, 12443, 12590, 12737, 12884, 13031, 13178, 13325, 13592, 14712
\LS@rot 16938	\LT@hline 16799	\LTRfootmarkstyle 11917, 11956
\lsb 4733, 4741	\LT@kill 16799	\LTRfootnote 468, 542, 2453, 4820, 4828, 8364, 8714, 9689, 9763, 11541, 11615, 14314, 14324, 14484, 14672, 14675, 19207, 19313, 19468, 19556, 19666, 19740, 20127, 20857, 21620
\lst@caption 16721, 16727, 16734, 16739	\LT@lastfoot 16907, 16910, 16920	\LTRfootnotetext 4886, 4897, 9145, 9155, 14643, 14645, 16044, 16896, 22448, 22452
\lst@alloverstyle 4722, 4728	\LT@LL@FM@cr 16808, 16812	\LTRfootscript 11917, 11934, 11938, 11940, 14715, 14719, 14721
\lst@HRefStepCounter 16721, 16727	\LT@make@row ... 16834	\LTRfoottextfont .. . 11806, 11842, 11869, 11973, 12086, 12127, 12155, 12188, 12233, 12273, 12299, 12331, 12374, 12415, 12443, 12476, 12521, 12562, 12590, 12623,
\lst@ifnumberbychapter 16760, 16761	\LT@makecaption 16854, 16866, 20575, 21327, 22082	
\lst@Key .. 16664, 16671	\LT@mcol 16788, 16855, 20576, 21328, 22083	
\lst@MakeCaption 16719, 16732	\LT@no@pgbk 16797, 16798	
\lst@makecaption 16716, 16749	\LT@nofcols 16833	
\lst@maketitle 16717, 16750, 16754, 16756	\LT@output 16901	
\lst@title@dropdelim 16717	\LT@p@ftn ... 16043, 16046, 16050, 16060, 16081, 16084, 16088, 16098, 16896, 16897, 16899, 16900	
\lstKV@SwitchCases 16665, 16672	\LT@p@ftntext ... 16886	
\lstset 4647	\LT@p@LTRftntext 16041, 16048, 16887, 16895	
\LT@@hl ... 16790, 16792	\LT@p@RTLftntext 16079, 16086, 16888, 16898	
\LT@@tabarray 16789, 16793	\LT@rows 16825, 16838, 16847, 16870	
\LT@array 16769, 20588, 20589, 21340, 21341, 22095, 22096	\LT@setprevdepth 16826	
\LT@bchunk 16822, 16833, 16852	\LT@startpbox 16805, 16812, 16883	
\LT@caption 16799, 20597,	\LT@tabularcr ... 16794	
	\LT@caption 16771, 16776, 16777, 16868, 16872, 16873, 20592, 21344, 22099	
	\LTcapwidth 16855	
	\LTchunksize ... 16847	
	\LTleft 16782, 16784, 16786, 16827	
	\LTR 18716, 24411, 24413	



<code>\m@make@twocol@footgroup</code>	<code>\m@mold@mpfootnotetext</code>	24657, 24659, 24718
.... 12093, 12209	11890, 11898, 13510	<code>\maincolumnwidth</code> ..
<code>\m@mdoextrafeet</code> ...	<code>\m@mold@mpLTRfootnotetext</code>	..... 5141,
. 11965, 13747,	.... 11891, 11899	5150, 5151, 5152,
13758, 13789, 13802	<code>\m@mold@mpRTLfootnotetext</code>	5153, 5155, 5159,
<code>\m@mdoextrafeetendmini</code>	11892, 11900, 13515	5174, 5178, 5203
.... 12032, 12036	<code>\m@mold@RTLfootnotetext</code>	<code>\mainend</code> 3414
<code>\m@mdoextrafeetmini</code>	11889, 11897, 13501	<code>\mainmatter</code> 8893
..... 12025	<code>\m@mopfootnote</code>	<code>\makeatletter</code> . 6131,
<code>\m@mdosplits</code> 12074,	.... 13718, 13751	6142, 7191,
12077, 12078, 12079	<code>\m@mremoveboxes</code> ..	7222, 7241, 7257
<code>\m@minterparanoteglua</code>	..... 13427,	<code>\makebox</code> 11215,
.... 13416, 13418	13428, 13655,	11220, 11289,
<code>\m@mipn@skip</code>	13666, 13682, 13691	11292, 11295,
13408, 13415, 13417	<code>\m@mrigidbalance</code> ..	11302, 11310,
<code>\m@mmakehboxofhboxes</code>	. 12072, 12214,	11317, 11358,
. 13419, 13654,	12225, 12355,	11362, 18419, 18437
13665, 13681, 13690	12366, 12502,	<code>\makefooter</code>
<code>\m@mmf@prepare</code> 11822,	12513, 12649,	10738, 10739, 10755
11836, 11850,	12660, 12796,	<code>\MakeFramed</code> 14765
11912, 12124,	12807, 12943,	<code>\makelabel</code> ... 2615,
12134, 12144,	12954, 13090,	2635, 2658,
12182, 12195,	13101, 13237,	2678, 8595, 24523
12208, 12270,	13248, 13384, 13395	<code>\MakeLineNo</code> 16611
12279, 12288,	<code>\m@msplitoff</code>	<code>\makeLineNumber</code> ...
12325, 12337,	.... 12078, 12080	.... 16612, 16614
12349, 12412,	<code>\m@mungebox</code>	<code>\makeLineNumberLeft</code>
12422, 12432,	. 13409, 13560,	..... 16617
12470, 12483,	13572, 13584,	<code>\makeLineNumberRight</code>
12496, 12559,	13621, 13635, 13649	..... 16625
12569, 12579,	<code>\m@munvxh</code> . 13401, 13410	<code>\maketag@@@</code> ... 348,
12617, 12630,	<code>\m@ne</code>	11213, 11226, 16972
12643, 12706,	5271, 5457, 5473,	<code>\MakeTextField</code>
12716, 12726,	5710, 6458, 6465,	.... 15561, 15566
12764, 12777,	6717, 6722, 6732,	<code>\makethanksmark</code> . 17652
12790, 12853,	6813, 7873, 7917,	<code>\maketitle</code> 111,
12863, 12873,	7961, 9636, 9795,	325, 332, 462,
12911, 12924,	9834, 10182,	490, 501, 525,
12937, 13000,	11659, 13830,	783, 828, 850,
13010, 13020,	13847, 16266,	872, 1036, 1081,
13058, 13071,	18076, 18817,	1103, 1125, 1287,
13084, 13147,	19585, 19772,	1332, 1354, 1376,
13157, 13167,	19811, 20664,	4614, 4626, 5167,
13205, 13218,	21424, 21427,	8690, 8794, 8818,
13231, 13294,	22179, 22182,	9399, 9444, 9577,
13304, 13314,	22731, 22773,	9622, 9683, 9711,
13352, 13365,	23831, 24890,	9722, 9746,
13378, 13560,	24934, 24969, 24972	10720, 10834,
13572, 13584,	<code>\m@th</code>	11442, 11466,
13621, 13635, 13649	..... 398,	11477, 11499,
<code>\m@mold@footnotetext</code>	11216, 11221,	11535, 11563,
11887, 11895, 13496	11227, 14111,	11574, 11598,
<code>\m@mold@LTRfootnotetext</code>	14126, 16835,	13892, 13916,
.... 11888, 11896	23903, 24012,	13927, 13949,
	24493, 24587,	



16213, 16214,	<code>\marginline</code>	23987, 23991,
16549, 17647,	20415, 21166, 21921	23995, 23999,
19063, 19108,	<code>\marginnote</code> 8369	24184, 24774,
19130, 19152,	<code>\marginpar</code> . . . 7439,	24775, 24777,
19200, 19249,	8147, 20416,	24821, 24822, 24824
19271, 19295,	21167, 21922, 24098	<code>\mbox</code> . . 15249, 20135,
19462, 19500,	<code>\marginparpush</code>	20257, 20271,
19511, 19540,	. . . . . 7372, 24988	20286, 20865,
19660, 19688,	<code>\marginparsep</code> . 4604,	20987, 21001,
19699, 19723,	5052, 7413, 7416,	21016, 21628,
20079, 20202,	7420, 7572,	21750, 21764, 21779
20209, 20230,	7579, 15288,	<code>\mc@col@status@write</code>
20237, 20244,	15290, 15294,	. . . . 18106, 18127
20308, 20809,	15299, 15302,	<code>\mc@gridwarn</code> . . . 18096
20932, 20939,	15304, 24999, 25001	<code>\mc@lastcol@status@write</code>
20960, 20967,	<code>\marginparwidth</code> 4603,	. . . . 18112, 18135
20974, 21038,	5053, 7412, 7417,	<code>\mdf@footnotedistance@length</code>
21572, 21695,	7429, 7527, 7797,	. . . . . 17035
21702, 21723,	7890, 7934, 7978,	<code>\mdf@footnoteinput</code>
21730, 21737, 21801	15288, 15290,	. . . . . 17043
<code>\maketitledetailsnewline</code>	15302, 15304,	<code>\mdf@footnoteoutput</code>
. 10829, 10844,	24907, 24951, 25001	. . . . . 17032
10846, 10847,	<code>\markboth</code>	<code>\mdf@frametitleaboveskip@length</code>
10848, 10849, 10850	. . 125, 8898, 16563	. . . . . 17027
<code>\maketitledetailwidth</code>	<code>\math@cr@@@align</code> . . 350	<code>\mdf@frametitlealignment</code>
. 10821,	<code>\MathCollectFalse</code> . 393	. . . . . 17008
10823, 10824,	<code>\MathCollectTrue</code> . . 393	<code>\mdf@frametitlebelowskip@length</code>
10825, 10826, 10841	<code>\mathindent</code> 14112, 14128	. . . . . 17028
<code>\maketitlehookb</code> . 17697	<code>\mathsurround</code> . 429, 9914	<code>\mdf@frametitlebox</code>
<code>\maketitlehookc</code> . 17699	<code>\max@poem@no</code> . . . . .	. 17007, 17020,
<code>\maketitlenamefullwidth</code>	. . 9093, 9195, 9196	17021, 17022,
10815, 10816, 10818	<code>\maxdepth</code> . . . 13755,	17023, 17025, 17026
<code>\maketitlenamemaxwidth</code>	13766, 15137, 15144	<code>\mdf@frametitlefont</code>
10813, 10814, 10818	<code>\maxdimen</code> . . . . .	. . . . . 17010
<code>\maketitlenamewidth</code>	. 10223, 10224,	<code>\mdf@frametitlefontcolor</code>
. 10817,	10226, 10286,	. . . . . 17009
10818, 10824, 10836	10287, 10289,	<code>\mdf@horizontalmargin@equation</code>
<code>\maketitlepage</code>	13556, 13568,	. . . . . 16985
. 8776, 8818	13580, 13617,	<code>\mdf@ignorevbadness</code>
<code>\maketitlepicturewidth</code>	13631, 13645,	. . . . . 17019
. 10819,	13992, 14031,	<code>\mdf@lrbbox</code> 16978, 17007
10820, 10826, 10855	14032, 14033,	<code>\mdf@par@local</code> . . 17001
<code>\MakeUppercase</code>	14067, 14068,	<code>\mdf@patchamsthm</code> 16979
. 126, 618,	14069, 14772,	<code>\mdfframedtitleenv</code>
646, 647, 662,	14933, 14934,	. . . . . 17006
753, 912, 1018,	14936, 14982,	<code>\mdfframetitleboxdepth</code>
1165, 1269, 9286,	14983, 14985,	. . . . . 17023
9360, 9464, 9550,	17797, 17798,	<code>\mdfframetitleboxheight</code>
9675, 9676, 9863,	17800, 17897,	. . . . . 17022
11416, 11688,	17898, 17900,	<code>\mdfframetitleboxtotalheight</code>
13875, 16564,	22395, 22434,	. . . . . 17024
18936, 19034,	23963, 23966,	<code>\mdfframetitleboxwidth</code>
19192, 19428,	23971, 23975,	. . . . . 17021
19653, 19654, 19831	23979, 23983,	



\mdseries	319,	20757,	20932,	11332,	11333,
	10714,	10716,	20939,	20960,	11334,
	10718,	10719,	20967,	20974,	11336,
	10806,	10807,	21143,	21150,	11346,
	10808,	10811,	21182,	21191,	11352, 11353, 11355
\meaning	5372,	21255,	21257,	\MHInternalSyntaxOff	
	5375, 5670, 6121,	21259,	21260,	. . . . 11370, 16975	
	6140, 6155, 6173,	21261,	21520,	\MHInternalSyntaxOn	
	6181, 6190, 6257	21695,	21702,	. . . . 11210, 16969	
\mediabutton		21723,	21730,	\MidFrameCommand . .	
	17572, 17632, 17633	21737,	21898,	14761, 14805, 14873	
\medskip	9000	21905,	21937,	\minrowclearance . .	
\medskipamount		21946,	22010,	. 1510, 1544, 10019	
	. . . 1823, 1832,	22012,	22014,	\mintagvsep 11230	
	1841, 2913, 2928,	22015,	22016,	\missingfigure	
	2943, 3144, 3156,	23406, 23408, 23411		. . . . 24142, 24172	
	3168, 3237, 11727	\metropolis@block 3236		\mix 17066,	
\mem@makecol		\metropolis@blockadjust		17067, 17074,	
	. . . . 13745, 13767	. . . . . 3256,		17075, 17101,	
\memRTLleftskip	17670	3257, 3258,		17118, 17141,	
\memRTLraggedleft	17675	3262, 3263, 3264		17144, 17146,	
\memRTLraggedright		\metropolis@blocksep		17169, 17201,	
.	17674	. . 3256, 3262, 3279		17209, 17218,	
\memRTLrightskip	17671	\metropolis@parskip		17229, 17240,	
\memRTLvleftskip	17672	. . . . . 3280, 3283		17242, 17247,	
\memRTLvrightskip	17673	\metropolis@progressinheadfoot		17248, 17250,	
\message	4475, 4476,	. . 3538, 3545, 3547		17251, 17253,	
	14773, 14781,	\metropolis@progressinheadfoot@linewidth		17274,	
	14785, 14790,	. . 3543, 3545, 3547		17277, 17278,	
	14798, 14804,	\metropolis@progressonsectionpage		17279, 17289,	
	14814, 14819,	. . 3223, 3229, 3231		17299, 17300,	
	14821, 14828,	\metropolis@progressonsectionpage@linewidth		17303,	
	14836, 14849,	. . 3227, 3229, 3231		17308, 17309,	
	14857, 14862,	\metropolis@strut		3269, 3271	
	14867, 14880,	\MH		11225,	
	14891, 14899, 14911	. . . . . 11229, 11234,		11225, 11234,	
\MessageBreak . . . . .		. . . . . 11235, 11239,		11235, 11239,	
	. . . . 149, 6375,	. . . . . 11243, 11244,		11243, 11244,	
	6389, 6401, 6413,	. . . . . 11248, 11256,		11248, 11256,	
	7453, 7549, 7776,	. . . . . 11258, 11263,		11258, 11263,	
	7777, 7845, 8449,	. . . . . 11275, 11283,		11275, 11283,	
	8450, 8451, 8453,	. . . . . 11288, 11291,		11288, 11291,	
	8454, 8458, 8459,	. . . . . 11294, 11296,		11294, 11296,	
	8460, 8462, 8463,	. . . . . 11297, 11299,		11297, 11299,	
	17748, 17749,	. . . . . 11300, 11303,		11300, 11303,	
	18079, 18098,	. . . . . 11304, 11306,		11304, 11306,	
	18167, 20028,	. . . . . 11307, 11309,		11307, 11309,	
	20202, 20209,	. . . . . 11311, 11312,		11311, 11312,	
	20230, 20237,	. . . . . 11314, 11315,		11314, 11315,	
	20244, 20392,	. . . . . 11318, 11319,		11318, 11319,	
	20399, 20431,	. . . . . 11321, 11322,		11321, 11322,	
	20440, 20504,	. . . . . 11324, 11329,		11324, 11329,	
	20506, 20508,	. . . . . 11330, 11331,		11330, 11331,	
	20509, 20510,			\mkern 23904,	
				23905, 24013, 24719	



6287, 6291, 6294,	13102,	13238,	5232, 7426, 7441,
6308, 6320, 6333,	13249,	13385,	7444, 7482, 7609,
6348, 7130, 7131,	13396,	13429,	9183, 9247,
7133, 7136, 7139,	13492,	13672,	16484, 24413,
7142, 7145, 7148,	13732,	13767,	24423, 24589,
7151, 7154, 7292,	13768,	13769,	24598, 24607, 24616
7293, 7294, 7295,	13770,	14242,	<code>\newfloat@setwithin</code>
7317, 7320, 7347,	14245,	14334,	..... 18334,
7374, 7375, 7376,	14338,	14340,	18340, 18348, 18350
7377, 7392, 7411,	14346,	14362,	<code>\newfloat@Error</code> . 18353
7447, 7449, 7450,	14386,	14398,	<code>\newfloat@setwithin</code>
7455, 7456, 7458,	14453,	14499,	..... 18320
7459, 7466, 7467,	14500,	14501,	<code>\newif</code> 4065,
7468, 7476, 7479,	14554,	14556,	4066, 4067, 4068,
7567, 7585, 7795,	14686,	14689,	4069, 4070, 4071,
7803, 7813, 7816,	14692,	14695,	4247, 4248, 4251,
7824, 7993, 7994,	15574,	16678,	4252, 4253, 4254,
7995, 7996, 7997,	16689,	18141,	4256, 4257, 4487,
7998, 7999, 8000,	18144,	18147,	4488, 4489, 4490,
8001, 8002, 8003,	19981,	19982,	4491, 4492, 5010,
8004, 8005, 8006,	20710,	20711,	5039, 5218, 5293,
8007, 8008, 8009,	21473,	21474,	6620, 8879,
8010, 8011, 8012,	24053,	24055,	9067, 10661,
8013, 8014, 8015,	24360,	24361,	10663, 10665,
8016, 8017, 8018,	24409,	24410,	10667, 10732,
8027, 8077, 8096,	24511,	24633,	10759, 10761,
8115, 8137, 8143,	24634,	24734,	10763, 10765,
8168, 8169, 8203,	24862, 24863, 25021		10828, 14330,
8359, 8360, 8361,	<code>\newcount</code> 4320,		16977, 24051, 24052
8369, 8378, 8387,	4321, 4370,		<code>\newinsert</code> . . . 4284,
8400, 8401, 8524,	4541, 4542, 4584,		4508, 7682, 7683,
8577, 8657, 8670,	4585, 5286, 5296,		7684, 7685, 7686,
8704, 8705, 8706,	5300, 5724, 6451,		7687, 7688, 7689,
8707, 8708, 8709,	6554, 6714, 6775,		7690, 7691, 7692,
8710, 8711, 8762,	6855, 12071, 24726		7693, 7694, 7695,
8776, 8952, 8959,	<code>\newcounter</code>		7696, 7697, 7698,
8968, 8972, 8982,	. . . 8076, 9194,		7699, 7700, 7701,
9001, 9198,	14137, 14332,		7702, 7703, 7704,
9199, 10829,	22960, 22964, 22965		7705, 7706, 7707,
11023, 11024,	<code>\newdimen</code> 8956,		7708, 7709, 7710,
11033, 11040,	8957, 9007,		7711, 7712, 7713,
11056, 11062,	11742, 12071, 15061		7714, 7715, 7731,
11078, 11085,	<code>\NewDocumentCommand</code>		7732, 7733, 7734,
11746, 11760,	. . . 4355, 6893,		7735, 7736, 7737,
11787, 11791,	6947, 6962, 6980,		7738, 7739, 7740,
11797, 11803,	7003, 7031, 7037,		7741, 7742, 7743,
11958, 11961,	7040, 7055, 7069,		7744, 7745, 7746,
12075, 12215,	7085, 7097, 7109,		7747, 7748, 7749,
12226, 12356,	7119, 7184, 7198,		7750, 7751, 7752,
12367, 12503,	7203, 7212, 7232,		7753, 7754, 7755,
12514, 12650,	7250, 7264, 7269,		7756, 12055,
12661, 12797,	7274, 7279, 7284		12060, 12066, 12068
12808, 12944,	<code>\newenvironment</code> 4768,		<code>\newlength</code> . . . 5137,
12955, 13091,	4779, 4788, 4797,		5138, 5139, 5141,



5142, 5143, 5145,	20875, 20946,	13861, 16540,
5146, 5229, 7408,	20983, 20992,	16542, 16587,
7409, 7410, 7464,	20996, 21006,	16934, 17034,
7481, 8269,	21010, 21021,	18040, 18051,
10813, 10815,	21025, 21629,	18052, 18063,
10817, 10819,	21638, 21709,	18064, 18820,
10821, 22992,	21746, 21755,	18822, 18975,
22994, 22995, 23708	21759, 21769,	18976, 18990,
<code>\newline</code> 5200,	21773, 21784, 21788	19014, 19348,
7643, 20432,	<code>\next@tpage</code> . 20135,	19349, 19363,
20441, 21183,	20142, 20188,	19387, 19579,
21192, 21938, 21947	20264, 20278,	19595, 19766,
<code>\newlinechar</code> 4448	20293, 20865,	19782, 19813,
<code>\newlinetospace</code> 7640,	20872, 20918,	19817, 19825,
7660, 7661, 7662,	20994, 21008,	20353, 22538,
8899, 8900, 8901	21023, 21628,	22585, 22602,
<code>\newlistentry</code>	21635, 21681,	22609, 22755,
. 22957, 23024	21757, 21771, 21786	22758, 22786,
<code>\newpage</code> 515,	<code>\ninecolumnfootnotes</code>	22787, 22809,
537, 864, 884,	. . . . . 13107	22810, 22826,
1117, 1137, 1368,	<code>\no</code> . . . 3419, 3444, 3464	22827, 22843,
1388, 8795, 8832,	<code>\no@bib@break</code>	22844, 22860,
8833, 9736, 9758,	20378, 21129, 21884	22861, 22877,
10655, 11491,	<code>\noalign</code> . 1424, 9121,	22878, 22894,
11511, 11588,	12078, 16796,	22895, 22912,
11610, 13941,	16797, 16798,	22913, 22931,
13961, 16796,	16837, 20596,	22932, 22951,
17661, 19144,	20598, 21348,	22952, 22986,
19164, 19285,	21350, 22103, 22105	22987, 23022,
19307, 19530,	<code>\nobibliography</code> .. 8073	23184, 23185,
19552, 19713, 19735	<code>\nobidilogo</code> 4553	23294, 23296,
<code>\newpoem@tabcr</code>	<code>\nobreak</code> 14,	23387, 23419,
. . . 9211, 9220, 9221	16, 220, 222,	23424, 23427,
<code>\newsavebox</code> . . 4767,	567, 585, 701,	23896, 23901,
7425, 7460, 7461	702, 716, 742,	23909, 24010,
<code>\newskip</code> 4805,	930, 931, 945,	24011, 24015,
4806, 4807,	961, 1186, 1187,	24716, 24717, 24721
5715, 13415, 14923	1201, 1228, 2265,	<code>\node</code> 3460, 3462, 3467,
<code>\newthought</code> 8598	2272, 2589, 2591,	3468, 3470, 3471,
<code>\NewTokenList</code> 6661	2593, 3723, 7165,	24096, 24126, 24132
<code>\newtoks</code> 4818,	8196, 8536, 8537,	<code>\noexpand</code> . 415, 4840,
5383, 5384, 6452,	9021, 9023, 9029,	4841, 4855, 4856,
6453, 6623, 6636,	9307, 9308, 9322,	4883, 4886, 4889,
6661, 6714, 9008,	9346, 9485, 9486,	5321, 5379, 5388,
14339, 18674, 24365	9500, 9524, 9639,	5392, 5412, 5416,
<code>\newXeTeXintercharclass</code>	9647, 9659, 9789,	5532, 5669, 5670,
. 4372, 4373	9805, 9837, 9842,	5672, 5730, 5758,
<code>\next</code> 24757, 24760	9850, 10070,	5784, 5812, 5838,
<code>\next@tdpage</code> 20136,	11383, 11396,	5841, 5875, 5878,
20145, 20216,	11639, 11662,	6116, 6117, 6118,
20253, 20262,	11667, 11676,	6120, 6121, 6138,
20266, 20276,	11720, 11721,	6140, 6158, 6159,
20280, 20291,	13824, 13840,	6160, 6163, 6170,
20295, 20866,	13849, 13853,	6171, 6172, 6174,



6180, 6181, 6183,	24038, 24039,	3604, 3747, 3764,
6189, 6190, 6192,	24040, 24041,	3842, 3849, 3865,
6254, 6256, 6257,	24042, 24043,	3938, 3944, 3959,
6471, 6617, 6622,	24285, 24300,	9385, 9539, 9816,
6628, 6676, 6704,	24328, 24334,	10882, 10903,
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6795, 6802, 6805,	<code>\noindent</code> 505,	13870, 14419,
6806, 6823, 6827,	677, 686, 985,	14744, 16515,
6829, 6830, 6831,	1238, 1247,	16594, 17017,
6839, 6840, 6841,	2871, 2878, 2885,	18087, 18200,
6844, 6845, 6846,	3288, 3294, 3300,	19029, 19453,
6881, 8045, 8047,	4618, 7435, 7628,	19608, 19793,
8055, 8448, 8451,	8219, 8237, 8255,	20075, 20805,
8457, 8460, 9142,	8372, 8381, 8390,	21568, 24996, 25004
9145, 9148, 9200,	8600, 8620, 8781,	<code>\nopagebreak</code>
10613, 10965,	8783, 8785, 8976,	. 9075, 9085, 16798
11017, 14139,	9356, 9546, 9726,	<code>\nopagenumbers</code> . . . 5219
14140, 14146,	9927, 11481,	<code>\normalbaselines</code> 24493
14147, 14199,	11578, 11723,	<code>\normalbaselineskip</code>
15074, 15084,	11789, 13558,	. . . . . 323,
16034, 16044,	13570, 13582,	7333, 13469,
16052, 16053,	13619, 13633,	13483, 13521,
16054, 16056,	13647, 13660,	13535, 16998, 18894
16082, 16090,	13671, 13685,	<code>\normalcolor</code> . 2231,
16091, 16092,	13694, 13931,	4985, 10031,
16094, 16123,	15152, 17725,	10244, 10309,
16124, 16125,	18951, 18960,	10541, 10560,
16127, 16154,	19402, 19411,	11344, 12040,
16155, 16156,	19478, 19521,	13726, 13739,
16158, 16185,	19703, 20018,	14633, 14753,
16186, 16187,	20057, 20136,	14958, 15005,
16189, 16827,	20139, 20143,	15106, 15116,
16896, 16899,	20353, 20538,	15123, 16573,
17500, 17765,	20549, 20747,	17036, 18065,
20095, 20096,	20787, 20866,	20645, 21398,
20097, 20098,	20869, 20873,	22153, 23771,
20099, 20100,	21289, 21300,	23794, 23800,
20375, 20376,	21510, 21550,	24016, 24262,
20825, 20826,	21629, 21632,	24722, 24795,
20827, 20828,	21636, 22044,	24844, 24871,
20829, 20830,	22055, 24074,	25077, 25093, 25124
21126, 21127,	24077, 24079,	<code>\normalfont</code> 25, 39, 53,
21588, 21589,	24081, 24084,	69, 86, 253, 267,
21590, 21591,	24088, 24090,	282, 300, 504,
21592, 21593,	24146, 24208, 24649	507, 854, 856,
21881, 21882,	<code>\nointerlineskip</code> . .	1109, 1358, 1360,
22265, 22337,	. . . . . 28, 243,	3146, 3158, 3170,
22374, 22375,	594, 778, 1013,	4617, 4620, 4730,
22448, 22455,	1260, 1953, 1966,	4735, 4736, 4738,
22967, 23499,	2482, 2570, 2583,	4739, 4740, 4741,
23532, 23539,	2590, 2920, 2935,	4742, 4743, 4744,
23544, 23545,	2950, 3273, 3343,	7374, 7993, 7994,
23631, 24035,	3348, 3364, 3398,	7995, 8083, 8102,
24036, 24037,	3403, 3537, 3599,	8121, 8187, 8422,



8429, 8436, 8628,	19561, 20065,	23896, 24010, 24716
9635, 9655, 9725,	20072, 20795,	<code>\number</code> 8,
9728, 9833, 9848,	20802, 21558,	140, 214, 4539,
11216, 11221,	21565, 23426,	4540, 5320, 5321,
11227, 11480,	24918, 24962, 25062	5344, 5349, 5730,
11483, 11577,	<code>\NOT</code> 7528,	5747, 5749, 5758,
11580, 11658,	7529, 7568, 7588,	5772, 5774, 5784,
11674, 11922,	7592, 8275, 8304,	5801, 5803, 5812,
11926, 11928,	8333, 8415, 8419	5826, 5828, 5838,
11934, 11938,	<code>\not@eq@if</code> . . 5476, 5478	5841, 5858, 5860,
11940, 11946,	<code>\noteqnewif</code> 5472	5864, 5866, 5875,
11950, 11952,	<code>\NR@part</code> 602,	5878, 5892, 5894,
13846, 13859,	604, 11400, 11402	5898, 5900, 5907,
13930, 13933,	<code>\NR@spart</code> 605,	5909, 5910, 5912,
14703, 14707,	607, 11403, 11405	5913, 5916, 5917,
14709, 14715,	<code>\null</code> . . 470, 484, 538,	5924, 5926, 5927,
14719, 14721,	675, 678, 795,	6132, 6746, 6861,
14727, 14731,	824, 885, 983,	6867, 6873, 6876,
14733, 16486,	986, 1048, 1077,	6882, 6886, 9093,
16522, 16527,	1138, 1236, 1239,	9187, 10435,
16573, 17010,	1299, 1328, 1389,	10437, 10446,
17651, 18065,	8536, 9110, 9354,	10450, 10514,
18421, 18434,	9357, 9411, 9440,	10535, 10889,
19134, 19136,	9544, 9547, 9589,	10910, 10955,
19275, 19277,	9618, 9691, 9705,	10961, 10964,
19472, 19479,	9759, 11448,	11007, 11013,
19515, 19522,	11462, 11512,	11016, 11267,
19702, 19705,	11543, 11557,	11270, 16534, 18158
19810, 19823,	11611, 13898,	<code>\numberline</code>
20645, 21398,	13912, 13962,	. . 7621, 16734,
22153, 23012,	16453, 16470,	16739, 17777,
23017, 23018,	18041, 18051,	22683, 23806,
23426, 23771,	18052, 18063,	24024, 24027, 24030
23794, 23800,	18064, 18949,	<code>\numberline@box</code> . . .
24016, 24722, 25124	18952, 19075,	. . . . 23390, 23391
<code>\normalfootnotes</code> . .	19104, 19165,	<code>\numberline@tempa</code> 24026
. . . . 11893, 11904	19214, 19243,	<code>\numberwithin</code> 341
<code>\normallineskip</code> . . .	19308, 19400,	<code>\numexpr</code> 5935,
5077, 16997, 18893	19403, 19480,	23157, 23269, 23499
<code>\normalparindent</code> 43,	19494, 19553,	<code>\nxLcs</code> . 4746, 4747, 4748
57, 73, 257, 271, 286	19668, 19682,	
<code>\normalRTLparaLTRfootnotes</code>	19736, 20153,	O
. 13492	20178, 20216,	<code>\obeylines</code> . . 9111, 9212
<code>\normalsfcodes</code>	20883, 20908,	<code>\ocgbase</code> . . 17556, 17558
. . . . 14212, 25064	20946, 21646,	<code>\oddpage</code> 4585,
<code>\normalsize</code> 319, 1584,	21671, 21709,	4589, 4590, 4591,
1594, 1622, 1664,	22290, 22296,	4594, 4595, 4596
1773, 1787, 1809,	22318, 22755,	<code>\oddsidemargin</code>
2498, 2846, 7326,	22786, 22809,	. . . 4607, 5048,
7327, 7334, 7901,	22826, 22843,	11187, 11191,
7945, 7989, 8083,	22860, 22877,	11197, 15308,
8102, 8121, 8499,	22894, 22912,	15317, 15321,
10716, 10808,	22931, 22951,	20104, 20834,
14210, 17783,	22986, 23387,	21597, 25046, 25050



20800, 20803,	\pagefillstretch	24198	3867, 3871, 3893,
20808, 21370,	\pagefilstretch .	24197	3897, 3905, 3908,
21389, 21559,	\pagefootnoterule .		3914, 3917, 3924,
21563, 21566,	....	14455, 14463	3927, 3941, 3946,
21571, 22125,	\pagegoal		3948, 3961, 3965,
22144, 22716,	. 14772, 14774,		3984, 3987, 3990,
22993, 23161,	14779, 14786,		3996, 3999, 4015,
23164, 23168,	14827, 14829,		4018, 4033, 5013,
23273, 23276,	16908, 18003, 24189		5016, 5019, 5022,
23280, 23692,	\pageinwindow ...	10189	5025, 5028, 5031,
23695, 23699,	\pagenumbering		5032, 11150,
23705, 23820,	.....	5084, 8883	11157, 11167,
24004, 24710, 25134	\pageref	5223, 5225	20107, 20837, 21600
\p@enumiv	\pageshrink .	10425,	\par
87,	10428, 10454,		5, 15, 47,
301, 627, 762,	10478, 14788,		61, 77, 108, 109,
1027, 1278, 2676,	14792, 14808,		110, 111, 211,
5247, 9369, 9559,	14834, 14846, 24192		221, 238, 239,
9872, 11425,	\pagestretch		240, 261, 275,
11697, 13884,	. 10479, 14787,		290, 322, 325,
16487, 19043,	14808, 14846, 24196		430, 473, 479,
19437, 19633,	\pagestyle	2198, 4583,	481, 482, 501,
19840, 20382,	5075, 5083, 5226,		544, 550, 554,
21133, 21888, 22653	7648, 8884, 10754		566, 585, 678,
\p@subfigure . . .	\pagetotal . .	14774,	688, 702, 715,
22348	14779, 14785,		742, 804, 814,
\p@subtable	17660, 18001,		821, 822, 850,
22349	18004, 18015,		889, 895, 899,
\PackageError . .	24184, 24189, 24247		931, 945, 960,
145,	\paperheight		986, 1000, 1057,
5449, 5498, 5501,	... 3036, 3041,		1067, 1074, 1075,
5506, 5509, 5514,	3048, 3341, 3342,		1103, 1142, 1148,
5517, 5522, 5525,	3347, 3365, 3399,		1152, 1187, 1200,
5717, 7293,	3400, 3730, 5012,		1228, 1239, 1249,
8401, 16669,	5015, 5018, 5021,		1308, 1318, 1325,
16676, 18163,	5024, 5027, 5030,		1326, 1354, 1394,
22613, 22971, 24736	5031, 11150,		1400, 1405, 1410,
\PackageInfo .	20109, 20839, 21602		1413, 1581, 1585,
5720,	\paperwidth . .	2070,	1588, 1591, 1596,
7295, 18905, 24046	2208, 2530, 2547,		1616, 1619, 1624,
\PackageWarning . . .	2561, 3092, 3432,		1656, 1661, 1668,
....	3434, 3436, 3437,		1766, 1770, 1776,
139, 5278,	3450, 3457, 3458,		1797, 1805, 1812,
5718, 6328, 6445,	3462, 3470, 3471,		1823, 1832, 1841,
9189, 10670,	3488, 3491, 3494,		1860, 2277, 2482,
10768, 14141,	3515, 3517, 3522,		2589, 2843, 2847,
14878, 16604,	3524, 3539, 3541,		2873, 2880, 2887,
18097, 18157,	3543, 3545, 3566,		2902, 2913, 2917,
18314, 22534,	3602, 3629, 3712,		2928, 2932, 2943,
22962, 23313, 23404	3714, 3719, 3721,		2947, 3118, 3125,
\PackageWarningNoLine	3732, 3756, 3769,		3131, 3137, 3144,
.....	3772, 3778, 3783,		3156, 3168, 3190,
5307,	3805, 3813, 3825,		3197, 3211, 3218,
5719, 5748, 5773,	3845, 3851, 3853,		3237, 3290, 3296,
5802, 5827, 5859,			3302, 3613, 3615,
5865, 5893, 5899			
\page@sofar .			
165, 18069			
\pagebreak			
16797, 24192, 24201			
\pagecontents . . .			
18738			
\pagedepth			
24186			



3663, 3684, 3692,	13328,	13660,	19765,	19782,
3760, 3762, 3858,	13671,	13685,	19813,	19817,
3860, 3953, 3955,	13694,	13823,	19825,	20056,
4578, 4614, 5001,	13840,	13849,	20150,	20151,
7522, 7530, 7589,	13853,	13861,	20156,	20159,
7590, 7593, 7594,	13901,	13907,	20161,	20168,
7619, 7628, 7629,	13909,	13910,	20172,	20174,
7798, 7814, 8538,	13927,	13966,	20176,	20191,
8653, 8654, 8655,	13972,	13976,	20195,	20217,
8656, 8781, 8783,	14135,	14629,	20225,	20353,
8785, 8803, 8804,	16509,	16510,	20472,	20529,
8805, 8979, 9086,	16511,	16531,	20537,	20540,
9100, 9111, 9129,	16541,	16549,	20548,	20550,
9204, 9212, 9237,	16577,	16582,	20561,	20568,
9308, 9321, 9346,	16585,	16587,	20786,	20880,
9357, 9420, 9430,	16710,	16835,	20881,	20886,
9437, 9438, 9486,	16990,	17013,	20889,	20891,
9499, 9524, 9547,	17017,	17647,	20898,	20902,
9598, 9608, 9615,	17719,	17725,	20904,	20906,
9616, 9639, 9647,	17731,	17735,	20921,	20925,
9659, 9694, 9700,	17741,	17756,	20947,	20955,
9702, 9703, 9722,	17775,	17784,	21223,	21280,
9765, 9771, 9775,	18041,	18053,	21288,	21291,
9788, 9805, 9837,	18066,	18227,	21299,	21301,
9842, 9850, 9929,	18239,	18301,	21312,	21319,
10070,	10875,	18545,	21549,	21643,
10896,	11383,	18717,	21644,	21649,
11395,	11451,	18719,	21652,	21654,
11457,	11459,	18813,	21661,	21665,
11460,	11477,	18821,	21667,	21669,
11516,	11522,	18952,	21684,	21688,
11526,	11546,	18976,	21710,	21718,
11552,	11554,	18989,	21978,	22035,
11555,	11574,	19014,	21978,	22035,
11617,	11623,	19094,	22043,	22046,
11627,	11638,	19102,	22054,	22056,
11662,	11667,	19169,	22067,	22074,
11676,	11710,	19179,	22379,	23023,
11715,	11718,	19233,	23029,	23186,
11720,	11721,	19240,	23295,	23419,
11731,	12034,	19241,	23295,	23419,
12152,	12155,	19271,	23915,	24017,
12158,	12296,	19315,	23915,	24017,
12299,	12302,	19326,	24074,	24075,
12440,	12443,	19331,	24081,	24082,
12446,	12587,	19334,	24081,	24082,
12590,	12593,	19362,	24084,	24092,
12734,	12737,	19403,	24145,	24411,
12740,	12881,	19478,	24412,	24421,
12884,	12887,	19489,	24422,	24590,
13028,	13031,	19491,	24599,	24608,
13034,	13175,	19492,	24617,	24684,
13178,	13181,	19521,	24723,	25113, 25134
13322,	13325,	19564,	\par@updaterelative	
		19578,	20147, 20877, 21640	
		19671,	\paragraph 8434	
		19677,	\paragraphfootnotes	
		19679,	. . . . . 13439	
		19680,		
		19699,		
		19742,		
		19748,		
		19752,		



<code>\parbox</code>	5172, 5174, 10742, 11726, 15679, 15681, 15685, 15687, 15718, 15719, 15722, 15723, 15780, 15781, 15784, 15785, 15809, 15811, 15815, 15817, 16855, 17713, 17742, 18225, 18227, 18228, 18230, 18232, 18233, 18235, 18237, 18239, 18240, 18242, 18244, 18245, 18246, 18247, 18248, 18249, 18251, 18252, 18253, 18254, 18255, 18256, 18257, 18258, 18259, 18260, 18262, 18263, 18264, 18265, 18267, 18268, 18269, 18270, 18272, 18273, 18274, 18275, 18276, 18277, 18279, 18280, 18281, 18282, 18283, 18284, 18286, 18287, 18288, 18289, 18290, 20577, 21329, 22084	18046, 18058, 18835, 18848, 18861, 18872, 18971, 18987, 19010, 19344, 19360, 19383, 19576, 19591, 19763, 19778, 22564, 22593, 22623, 22747, 22778, 22801, 22818, 22835, 22852, 22869, 22886, 22904, 22923, 22943, 22978, 23173, 23285, 23353, 23355, 23419, 23889, 23891, 24005, 24628, 24711	13317, 13586, 13590, 13594, 13699, 13820, 13835, 13846, 13858, 13931, 15151, 16505, 16538, 16993, 18035, 18047, 18059, 18294, 18836, 18849, 18862, 18873, 18937, 18973, 18986, 19009, 19070, 19087, 19193, 19209, 19226, 19346, 19359, 19382, 19478, 19521, 19558, 19575, 19590, 19655, 19703, 19762, 19777, 19810, 19822, 20018, 20057, 20747, 20787, 21510, 21550, 22574, 22611, 22715, 22748, 22779, 22802, 22819, 22836, 22853, 22870, 22887, 22905, 22924, 22944, 22979, 23172, 23284, 23358, 23360, 23825, 23886, 23887, 24006, 24417, 24427, 24528, 24628, 24651, 24652, 24712
<code>\parindent</code>	12, 43, 57, 73, 104, 218, 234, 257, 271, 286, 505, 563, 580, 648, 663, 699, 712, 737, 790, 807, 913, 928, 940, 957, 994, 1043, 1060, 1106, 1166, 1184, 1197, 1223, 1294, 1311, 2871, 2878, 2885, 3288, 3294, 3300, 4618, 5079, 7350, 8021, 8530, 8572, 8580, 8645, 8798, 9104, 9207, 9287, 9305, 9318, 9341, 9406, 9423, 9465, 9483, 9496, 9519, 9584, 9601, 9635, 9655, 9677, 9726, 9785, 9800, 9833, 9847, 9953, 9984, 10075, 11378, 11392, 11481, 11578, 11635, 11658, 11673, 11788, 12052, 12147, 12291, 12435, 12582, 12729, 12876, 13023, 13170,	<code>\parshape</code> 9926, 14900, 14908, 18384, 18404, 18551, 18716, 18718, 19477, 19520, 20037, 20039, 20050, 20052, 20766, 20768, 20780, 20782, 21529, 21531, 21543, 21545,	
<code>\parfillskip</code>	13, 219, 564, 581, 697, 713, 738, 925, 941, 958, 1182, 1198, 1224, 8529, 9105, 9303, 9319, 9342, 9481, 9497, 9520, 9786, 9801, 9957, 10076, 11379, 11393, 11636, 13587, 13591, 13595, 13821, 13836, 16539, 16997, 18034,	<code>\parsep</code> 997, 7342, 7343, 8552, 8553, 8591, 8618, 24527	



24411, 24421,	\pdfencryptsetup ..	\pgf@resetpathsizes
24557, 24592,	.. 4355, 4357, 4360	..... 18484
24594, 24595,	\pdffile 15413	\pgf@restore@layerlist@from@global
24596, 24601,	\pdflastxpos . 5730,	..... 18521
24603, 24604,	5758, 5838, 5875	\pgf@shift@baseline
24605, 24610,	\pdflastypos . 5784,	..... 18501
24612, 24613,	5812, 5841, 5878	\pgf@trimleft ... 18503
24614, 24619,	\pdfm@box ... 16454,	\pgf@trimleft@final
24621, 24622, 24623	16462, 16471, 16479	18505, 18506, 18508
\parskip .. 104, 234,	\pdfmeta 15519	\pgf@trimright .. 18510
649, 664, 914,	\pdfsavepos .. 5740,	\pgf@trimright@final
1167, 2202, 2917,	5742, 5765, 5767,	18512, 18513, 18515
2932, 2947, 3238,	5794, 5796, 5819,	\pgf@x 18504,
3283, 4611, 5080,	5821, 5851,	18508, 18511, 18515
7351, 8022, 8573,	5853, 5885, 5887	\pgf@y 18501
8581, 8644, 8799,	\pdfstringdefDisableCommands	\pgfdeclarehorizontalshading
9103, 9206, 9241,	..... 16409	..... 3730
9288, 9466, 9678,	\penalty 799,	\pgfdefobject
10579, 10591,	1052, 1303, 5333,	.. 2753, 2773, 2796
10604, 11714,	9025, 9347, 9415,	\pgfmathsetmacro . 3431
11717, 11719,	9525, 9593, 9806,	\pgfpathcircle ... 1611
11721, 16505,	9914, 9920,	\pgfpathclose 2992, 3008
16581, 16584,	10575, 10587,	\pgfpathcurveto ...
16586, 16993,	10600, 13414,	... 1941, 2984,
17002, 18551,	13588, 13592,	2988, 3000, 3004
18884, 18938,	13596, 13841,	\pgfpathlineto
19194, 19558,	14809, 19015,	... 1940, 1947,
19656, 22531,	19079, 19218,	1948, 2983, 2999
22716, 23825,	19388, 19596,	\pgfpathqcurveto ..
24183, 24187, 24527	19783, 23187,	... 1939, 2981,
\part 23, 16525	23813, 23921, 24188	2982, 2997, 2998
\partopsep ... 2673,	\pgf@baseline ... 18500	\pgfpathqlineto ...
8594, 17698,	\pgf@insertlayers 18522	... 2756, 2757,
17700, 18378, 18398	\pgf@nodecallback 18478	2776, 2777, 2779,
\PassOptionsToClass	\pgf@oldpicture . 18485	2780, 2799, 2800
..... 8836,	\pgf@picmaxx 18479,	\pgfpathqmoveto 1938,
8837, 8838, 8839,	18491, 18493, 18511	2755, 2775, 2778,
8840, 8860, 8861,	\pgf@picmaxy	2798, 2980, 2996
8862, 8863, 8864	.... 18481, 18495	\pgfpathrectangle .
\PassOptionsToPackage	\pgf@picminx .....	..... 1961,
..... 7853, 8683	18480, 18494, 18504	2563, 2576, 3772,
\pbs 18442, 18460	\pgf@picminy	3778, 3813,
\pdf 15410,	.... 18482, 18496	3871, 3897, 3965
15412, 15421,	\pgf@picture ... 18485	\pgfpic 18531
15442, 15443, 15523	\pgf@picture@serial@count	\pgfpicture 18472
\pdfannot ... 15443,	.... 18476, 18477	\pgfpictureid
15445, 15486,	\pgf@process .....	.... 18477, 18488
15488, 15524,	18500, 18503, 18510	\pgfpicturetrue ...
15526, 15553, 15558	\pgf@relevantforpicturesizefalse	..... 1969, 18475
\pdfdict 15412, 15418,	..... 18499	\pgfpoint 1611, 1940,
15429, 15439,	\pgf@relevantforpicturesizetrue	1942, 1943, 1944,
15442, 15476,	..... 18483	1947, 1948, 1961,
15479, 15486,	\pgf@remember@layerlist@globally	1963, 2563, 2569,
15522, 15524, 15530	..... 18517	2576, 2582, 2753,



2773, 2796, 2983, 2985, 2986, 2987, 2989, 2990, 2991, 2999, 3001, 3002, 3003, 3005, 3006, 3007, 3352, 3359, 3772, 3778, 3813, 3871, 3897, 3965	\pgfuses shading 1963, 3737, 3739, 3803, 3846, 3891, 3942, 4049	\poem@startedfalse . . . 9113, 9222, 9228
\pgfpointorigin .. 3778	\pgfutil@gobble . 18478	\poem@startedtrue 9071, 9072, 9112, 9214, 9216, 9221, 9229, 9231
\pgfsetcolor 1969	\pgfutil@ifnextchar 18485	\poem@verse 9009, 9079, 9082
\pgfsetfading 3773, 3814, 3872, 3898, 3966	\phantom .. 17246, 18092	\poem@width .. 9012, 9013, 9017, 9094, 9096, 9099, 9132
\pgfsetfillcolor 3771, 3809, 3811, 3870, 3896, 3964	\phantomsection .. 5170	\poem@write@aux 9135, 9187, 9199
\pgfsetfillopacity 2500	\phone 5130	\poemblocksep 9006, 9110, 9210
\pgfsetlinewidth . 2979	\phonesymbol 5090, 10749, 10847	\poemcolsep skip 8997, 9026
\pgfsys@discardpath 18524	\photo 5135	\poemextrabaselineskip . . . 8999, 9087, 9122
\pgfsys@endpicture 18527	\picbox 18656	\poemmargin skip 8998, 9020, 9021
\pgfsys@endscope 18526	\picinwindow ... 10209	\poemskip 9000, 9100, 9131
\pgfsys@markposition 18488	\picwd 18544, 18547, 18655, 18657	\postbibhook ... 17791
\pgfsys@shadingoutsidepgfpicture 18536	\place@tag 350, 351, 353	\postCutedStrip . 10601
\pgfsys@typesetpicturebox 18531	\plainauthor . 7660, 8703, 8705, 8744, 8745, 8748	\postdisplaypenalty 14109, 14123
\pgftext 1613, 1789, 1790, 1963, 2501, 2502, 2562, 2570, 2575, 2583, 3353, 3360, 3780	\plainfootnotes . 11904	\postmath 9920
\pgftransformrotate 3351, 3358	\plainpublisher 8706, 8771, 8772	\PotEndMark 11219, 11224, 11227
\pgftransformscale 2566, 2579	\plaintitle .. 7661, 7662, 8703, 8704, 8727, 8728, 8731, 8899, 8901	\preCutedStrip 10577, 10589
\pgftransformshift . . . 1963, 2569, 2582, 3352, 3359	\plitemsep 8592	\predisplaydirection 18764, 18765, 25121, 25122
\pgfuseobject . 2764, 2768, 2787, 2791, 2807, 2811	\plparsep 8591	\predisplaypenalty 14108, 14122
\pgfusepath 1612, 1949, 1962, 2564, 2577, 3774, 3779, 3815, 3873, 3899, 3967	\plpartopsep 8594	\premath 9916
\pgfusepathqfill 2758, 2781, 2801, 2993	\pLRE 4278, 4279, 4502, 4503	\prepare@bidi@copyins 14917, 14950, 14999, 15157
\pgfusepathqstroke 3009	\PLS@Rotate 18464, 18466, 18468	\preparefootins 14949, 14998
	\pltopsep 8593	\PrependToTokenList 6664
	\poem@finish 9136, 9186, 9193	\prepnext@tok . 1457, 1467, 1515, 1547, 9994, 10022
	\poem@line 9063, 9069, 9120	\presetkeys 24174
	\poem@linebegin 9020, 9078	\prevdepth ... 5263, 7522, 7530, 10496, 10945, 10999, 17703, 18094
	\poem@lineend 9021, 9084	
	\poem@lineparsebegin . . . 9032, 9089, 9116	
	\poem@lineparseend . . . 9058, 9070, 9127	
	\poem@lineversesep 9022, 9081	
	\poem@needrun . 9014, 9133, 9188, 9190	
	\poem@obeylines 9115, 9184, 9224, 9248	
	\poem@prop .. 9096, 9198	



<code>\prg</code>	6913, 6917, 6918, 6921, 6926, 6927, 6930, 6934, 6939, 6940, 6943	12275, 12284, 12321, 12333, 12345, 12407, 12417, 12427, 12465, 12478, 12491, 12554, 12564, 12574, 12612, 12625, 12638, 12701, 12711, 12721, 12759, 12772, 12785, 12848, 12858, 12868, 12906, 12919, 12932, 12995, 13005, 13015, 13053, 13066, 13079, 13142, 13152, 13162, 13200, 13213, 13226, 13289, 13299, 13309, 13347, 13360, 13373, 13554, 13566, 13578, 13615, 13629, 13643, 14511, 14528, 14544, 14573, 14588, 14603	14361, 23718, 23722, 23727, 23731, 23756, 23760, 23765, 23769
<code>\pRLE</code>	4280, 4281, 4504, 4505		<code>\ProvidesClass</code> 5009, 8835, 8859
<code>\process@cols</code>	18070, 18103, 18117, 18123		<code>\ProvidesExplPackage</code> 17053
<code>\ProcessKeyOptions</code>	4206		<code>\ProvidesFile</code> 1, 132, 166, 207, 338, 356, 361, 363, 459, 652, 902, 1155, 1416, 1551, 1569, 1889, 1985, 2069, 2073, 2480, 2603, 2689, 2700, 2817, 2821, 3020, 3023, 3090, 3185, 3310, 3314, 3319, 3409, 3481, 3535, 3558, 3586, 3706, 3729, 3796, 3884, 3979, 4038, 4048, 9276, 9454, 9632, 9665, 9883, 9938, 9980, 9982, 9985, 10023, 10066, 10081, 10179, 10217, 10861, 11026, 11145, 11148, 11209, 11371, 11533, 11707, 11741, 13813, 13990, 14019, 14026, 14103, 14133, 14142, 14148, 14298, 14328, 14671, 14738, 14915, 15158, 15285, 15327, 15569, 15870, 16483, 16570, 16574, 16597, 16610, 16663, 16767, 16936, 16967, 16976, 17051, 17635, 17792, 18030, 18068, 18224, 18291, 18319, 18357, 18365, 18386, 18406, 18440, 18463,
<code>\ProcessOptions</code>	5042, 7318, 8409, 8668, 8700, 8841, 8865, 10672, 10770		
<code>\protect</code>	426, 4278, 4279, 4280, 4281, 4447, 4502, 4503, 4504, 4505, 4822, 4828, 4834, 4840, 4849, 4855, 5993, 5994, 6622, 6628, 7161, 7621, 14199, 14643, 14657, 15398, 15450, 15462, 15492, 15505, 15549, 16734, 16739, 16818, 17777, 22369, 22370, 22374, 22382, 22683, 23029, 24354, 25025	<code>\protected@write</code> 4164, 4168, 7061, 7062, 7064, 7075, 7076, 7078	
<code>\protected</code> . . .	4502, 4504, 5717, 5718, 5719, 5720, 5941, 5949, 5951, 5957, 6135, 6151, 6167, 6190, 6192, 6245, 6300, 6315, 18680, 18690, 18700, 18708, 24262, 24371, 24381, 24391, 24400	<code>\protected@xdef</code> 2415, 2441, 2467, 8283, 8312, 8341, 8724, 8741, 8757, 8768, 14476, 14485, 14642, 14647, 14656, 14662, 16053, 16091, 16124, 16155, 16186, 16249	
<code>\protected@edef</code> .	44, 58, 74, 258, 272, 287, 2304, 2321, 2338, 2354, 2370, 2386, 8220, 8238, 8256, 11817, 11831, 11845, 11858, 11870, 11882, 12119, 12129, 12139, 12177, 12190, 12203, 12266,	<code>\providecommand</code> 5087, 5088, 5089, 5090, 5091, 5092, 5103, 5104, 5105, 5106, 5107, 5108, 5109, 5110, 5111, 5112, 5113, 5114, 5115, 5116, 5117, 5118, 5371, 8181, 8188, 8189, 8598, 10733, 10738,	



3058, 3301, 9635,	15732, 15789,	649, 664, 671,
9655, 9833, 9847,	15790, 15793,	701, 707, 725,
11400, 11401,	15794, 15822,	779, 786, 787,
11403, 11404,	15824, 15828, 15830	788, 792, 801,
11407, 11408,	\rangle 4731	810, 827, 828,
11410, 11411,	\ratio 3224, 3539	833, 834, 835,
11658, 11673,	\rawtext 18551,	836, 839, 842,
11710, 11713,	18557, 18579,	846, 871, 872,
11718, 11726,	18580, 18661, 18665	873, 878, 879,
13846, 13858,	\rbrace . . . 24483, 24492	880, 881, 914,
16506, 16527,	\rcb 4732, 4735, 4736, 4740	930, 952, 970,
16577, 16580,	\rcol@footinsskip .	979, 1014, 1039,
16585, 17674, 14930, 14979	1040, 1041, 1045,
17675, 18813,	\realfootnote . . . 16246	1054, 1063, 1080,
18815, 18821,	\recomputelengths .	1081, 1086, 1087,
19810, 19822, 5148, 5165	1088, 1089, 1092,
20336, 20337,	\recomputethemelengths	1095, 1099, 1124,
20412, 20413, 5147,	1125, 1126, 1131,
20414, 20416,	5163, 10822, 10827	1132, 1133, 1134,
21066, 21163,	\reenable@package@load	1167, 1174, 1186,
21164, 21165, 7033, 7048	1192, 1210, 1261,
21167, 21829,	\reflectbox 15219	1290, 1291, 1292,
21918, 21919,	\refname 617, 618, 752,	1296, 1305, 1314,
21920, 21922,	753, 1017, 1018,	1331, 1332, 1337,
23364, 23367,	1268, 1269, 5234,	1338, 1339, 1340,
23371, 23482,	8633, 11415, 11416	1343, 1346, 1350,
24625, 24630,	\refstepcounter . . .	1375, 1376, 1377,
24632, 24633, 24634 14124,	1382, 1383, 1384,
\RaggedRightLeftskip	14676, 14682,	1385, 1472, 1473,
. 18858	16722, 16728,	1490, 1491, 1492,
\RaggedRightParfillskip	17768, 18375,	1891, 2062, 2420,
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	17817, 17916, 17917	9106, 9295, 9301,	22826, 22833,
\right@footnoterule		9302, 9307, 9318,	22834, 22835,
.....	26, 241,	9341, 9344, 9345,	22843, 22850,
	464, 592, 775,	9473, 9479, 9480,	22851, 22852,
	786, 1011, 1039,	9485, 9496, 9519,	22860, 22867,
	1257, 1290, 2346,	9522, 9523, 9785,	22868, 22869,
	2362, 9382, 9402,	9800, 9803, 9804,	22877, 22884,
	9536, 9580, 9685,	9940, 9941, 9942,	22885, 22886,
	9814, 11436,	10068, 10069,	22894, 22902,
	11444, 11537,	10075, 11378,	22903, 22904,
	11736, 13868,	11381, 11382,	22912, 22921,
	13894, 14417,	11392, 11635,	22922, 22923,
	14432, 14442,	12051, 13698,	22931, 22941,
	14565, 14595,	13820, 13835,	22942, 22943,
	16513, 16592,	13838, 13839,	22951, 22976,
	16951, 16959,	16538, 16539,	22977, 22978,
	18198, 19026,	16996, 17670,	22986, 23026,
	19066, 19203,	17671, 18034,	23028, 23825,
	19450, 19464,	18038, 18039,	23887, 23888,
	19606, 19662,	18046, 18051,	23889, 23895,
	19791, 20071,	18058, 18063,	23898, 23945,
	20123, 20801,	18832, 18834,	24005, 24010,
	20853, 21564, 21616	18845, 18847,	24033, 24040,
\rightfootnoterule		18858, 18860,	24409, 24410,
.....	4141,	18869, 18871,	24626, 24651,
	10863, 11781,	18945, 18958,	24652, 24711, 24716
	14430, 15147, 25130	18969, 18970,	\RL . 16413, 18725, 24436
\rightline	18768, 24645	18975, 18986,	\rlap .. 318, 504, 853,
\rightlinenumbers	.	19009, 19012,	1357, 1591, 4617,
.....	16637, 16645	19013, 19342,	9725, 11480,
\rightmargin	.. 996,	19343, 19348,	11577, 13930,
	8590, 8609, 8617,	19359, 19382,	14745, 15178,
	8623, 14893,	19385, 19386,	15224, 15290,
	14897, 18821,	19396, 19409,	15291, 15304,
	20012, 20741,	19459, 19575,	15305, 16572,
	21504, 24518,	19590, 19593,	18092, 18754,
	24529, 24535,	19594, 19599,	19133, 19274,
	24541, 24549, 24553	19600, 19762,	19472, 19515,
\rightskip	..... 12,	19777, 19780,	19702, 20131,
	13, 218, 219,	19781, 20004,	20252, 20861,
	317, 321, 563,	20733, 21496,	20982, 21624,
	580, 583, 584,	22541, 22563,	21745, 22295, 24456
	671, 684, 695,	22568, 22579,	\RLE 4280, 4504, 16412,
	696, 701, 712,	22592, 22596,	18725, 18726,
	737, 740, 741,	22616, 22619,	18730, 24059,
	923, 924, 930,	22624, 22628,	24436, 24437, 24441
	940, 943, 944,	22629, 22745,	\rmfamily 782,



1035, 1286, 8418, 8471, 8474, 8478, 8481, 8485, 8488, 8492, 8495, 8499, 8502, 19062, 19199	\RTLbidituftesidenotemarginpar 13328, 13371, .. 7949, 8249, 8390	13576, 13596, 13641
\romannumeral . 6772, 6773, 9135, 9198, 11279, 11282, 11328, 14251, 14252, 14253, 14254, 14256, 14257, 14258, 14259, 14260, 14263, 14264, 14265, 24521	\RTLcases . 24493, 24496	\RTLmarginnote ... 8387
\rot@float@box 19859, 19860, 19861, 19875, 19884, 19902, 19903, 19904, 19905, 19906, 19922, 19933	\RTLcite 8176, 8296, 8325, 8354, 8376, 8385, 8394	\RTLmarginpar ... 24922
\rot@label 19855, 19898	\RTLdblcol 24862	\RTLMulticolcolumns 18141
\rot@LR ... 19866, 19911	\RTLdfnmakecol .. 11023	\RTLsidenote 8119, 8361
\rot@mess@toks 19858, 19870, 19880, 19889, 19901, 19916, 19928, 19938	\RTLfootfootmark .. . 11799, 11943, 12158, 12302, 12446, 12593, 12740, 12887, 13034, 13181, 13328, 13596, 14724	\RTLthanks 469, 489, 524, 543, 8715, 8723, 8740, 8756, 8767, 9690, 9710, 9745, 9764, 11542, 11562, 11597, 11616, 14655, 17640, 19208, 19248, 19294, 19314, 19469, 19499, 19539, 19557, 19667, 19687, 19722, 19741, 20128, 20307, 20858, 21037, 21621, 21800
\rot@message 19889, 19938	\RTLfootmarkstyle 11918, 11957	\rtside 18599, 18601, 18612, 18614, 18635, 18637
\rot@pageref 19856, 19899	\RTLfootnote 469, 543, 2427, 4821, 4834, 8365, 8715, 9690, 9764, 11542, 11616, 14308, 14322, 14475, 14673, 14681, 19208, 19314, 19469, 19557, 19667, 19741, 20128, 20858, 21621	\rule 47, 61, 77, 261, 275, 290, 2308, 2325, 2342, 2358, 2374, 2390, 5172, 10727, 11360, 11364, 11367, 11794, 11800, 11806, 14516, 14533, 14549, 14577, 14592, 14607, 17246
\rotate 19952	\RTLfootnotetext 4889, 4900, 9148, 9158, 14657, 14660, 16082, 16899, 22455, 22459	\rule 47, 61, 77, 261, 275, 290, 2308, 2325, 2342, 2358, 2374, 2390, 5172, 10727, 11360, 11364, 11367, 11794, 11800, 11806, 14516, 14533, 14549, 14577, 14592, 14607, 17246
\rotatebox .. 14294, 15595, 15644, 15857, 16938, 16940, 16942, 17065, 17073, 17595, 19875, 19884, 19922, 19933	\RTLfootscript 11918, 11946, 11950, 11952, 14727, 14731, 14733	
\rotateframe 14256, 14293	\RTLfoottextfont 11800, 11828, 11881, 11974, 12137, 12158, 12201, 12282, 12302, 12343, 12425, 12446, 12489, 12572, 12593, 12636, 12719, 12740, 12783, 12866, 12887, 12930, 13013, 13034, 13077, 13160, 13181, 13224, 13307,	
\rotFPbot ... 19876, 19883, 19923, 19932		
\rotFPtop ... 19874, 19885, 19921, 19934		
\rrb 4734, 4744		
\rsb 4733, 4742		
\RTL 18718, 24421, 24423		
\RTL@column@boxes . 18116, 18143, 18148		
\RTL@outputdblcol . . 10219, 14027, 14974, 17793, 24770, 24861, 24862		

S

\s 17095, 17096
\save@dir . 18734, 24445
\savebox 11285, 15592, 15594, 15674
\saveCaptionSkip 15624
\savecounters@ .. 11268
\saved@dir . 18734, 18735, 24445, 24446
\saved@tempdimb ... 10393, 10476, 10485
\sbox .. 11351, 15626, 15643, 16704, 16857, 17064, 17072, 17264,



17551, 17590,	\scr@dte@tocline@numberwidth	20713, 20720,
17595, 17707,	..... 23393,	21473, 21476, 21483
17722, 17754,	23396, 23398, 23401	\scr@samed@RTLfootnotetext
18408, 22578,	\scr@dte@tocline@numbox	. 19982, 19985,
22595, 23392, 25111	23392, 23394, 23408	19995, 20711,
\SC@FLOAT	\scr@dte@undottedtocline@init	20714, 20724,
. 22229, 22237,	..... 23032	21474, 21477, 21487
22241, 22248,	\scr@endstrut 20529,	\scr@smashdp
22250, 22255, 22257	20539, 20550,	. 20521, 20552,
\SC@justify@caption	20561, 21280,	20555, 21272,
. 22232, 22239,	21290, 21301,	21303, 21306,
22243, 22249,	21312, 22035,	22027, 22058, 22061
22251, 22256, 22258	22045, 22056, 22067	\scr@trim@spaces 23317
\sc@wm@text 11147	\scr@ifundefinedorrelax	\scr@tso@figure@pagenumberformat
\scalebox .....	. 20502, 20515,	..... 23793
\scantokens . 6131, 6143	21253, 21266,	\scr@tso@table@pagenumberformat
\scr@makesinglelinecaption	22008, 22021,	..... 23799
. 20447, 20467,	23066, 23114,	\scr@v@is@ge
20490, 21198,	23159, 23225,	19999, 20728, 21491
21218, 21241,	23271, 23298,	\scr@v@is@gt
21953, 21973, 21996	23319, 23324,	.... 21069, 21091
\scr@compatibility	23380, 23495,	\scr@v@is@le 21084,
. 20080, 20181,	23497, 23526,	21087, 21843, 21846
20304, 20810,	23529, 23530,	\scriptsize .. 1691,
20911, 21034,	23537, 23555,	1800, 3338, 8556
21573, 21674, 21797	23557, 23568,	\scshape
\scr@dte@current ..	23570, 23586,	9638
.... 23481, 23484	23626, 23627,	\secshape . 19558, 19599
\scr@dte@def@l@targetocline	23629, 23645,	\SectFont
..... 23192	23698, 23725,	676,
\scr@dte@def@l@tocline	23744, 23763, 23779	685, 984, 992,
..... 23442	\scr@LT@array	1237, 1246, 9355,
\scr@dte@def@l@undottedtocline	. 20587, 20588,	9545, 18950,
..... 23031	20600, 21339,	18959, 19401, 19410
\scr@dte@donumwidth	21340, 21352,	\sectfont
.... 23711, 23712	22094, 22095, 22107	18815
\scr@dte@largetocline@init	\scr@makemultilinecaption	\section
..... 23193	. 20449, 20454,	617,
\scr@dte@nosub 23497,	20496, 21200,	645, 661, 676,
23499, 23529,	21205, 21247,	682, 685, 752,
23530, 23532,	21955, 21960, 22002	911, 984, 990,
23537, 23539,	\scr@makesinglelinecaption	992, 1017, 1164,
23544, 23545,	..... 20451,	1237, 1243, 1246,
23557, 23562,	20459, 21202,	1268, 5168, 5234,
23570, 23575,	21210, 21957, 21965	8420, 8442, 8510,
23629, 23631, 23782	\scr@parindent	8518, 8633, 8636,
\scr@dte@numberline@box	20702, 21465, 22220	8640, 9355, 9545,
.... 23390, 23417	\scr@samed@footnotetext	11415, 18950,
\scr@dte@pagenumberwidth	..... 19983,	18956, 18959,
..... 23428	19987, 20712,	19401, 19407, 19410
\scr@dte@tocline ..	20716, 21475, 21479	\sectionbib 22666
.... 23306, 23789	\scr@samed@LTRfootnotetext	\sectionfont . 5108,
\scr@dte@tocline@init	. 19981, 19984,	5116, 10718, 10811
..... 23443	19991, 20710,	\sectionstyle 5116, 5174
		\sectiontitlecolour
		.. 5099, 10680,
		10688, 10695,
		10702, 10709,



10779, 10785,	\setbox ... 406, 1463,	11864, 11876,
10791, 10797, 10803	1465, 1466, 1522,	11997, 11999,
\selectfont ... 359,	1909, 1915, 1924,	12015, 12017,
5936, 8781, 8783,	1969, 1970, 2001,	12072, 12075,
8785, 18421, 18434	2046, 2051, 2062,	12082, 12160,
\separatorcolumnwidth	2116, 2118, 2120,	12184, 12197,
..... 5139,	2122, 2127, 2138,	12304, 12327,
5140, 5151, 5157,	2153, 2158, 2167,	12339, 12448,
5173, 5178, 5184,	2182, 2220, 2222,	12472, 12485,
5242, 10825, 10855	2224, 2226, 2232,	12595, 12619,
\SepMark .. 24505, 24506	2295, 2312, 2329,	12632, 12742,
\seq 6911, 6916, 17327,	2347, 2363, 2379,	12766, 12779,
17328, 18452, 18455	2490, 2510, 2514,	12889, 12913,
\set@color	2553, 2558, 2588,	12926, 13036,
. 10026, 10031,	2597, 2965, 2968,	13060, 13073,
10039, 10045,	3370, 3379, 3387,	13183, 13207,
10053, 10060,	3756, 4004, 4023,	13220, 13330,
10065, 14752,	4306, 4522, 4983,	13354, 13367,
24258, 24262, 24358	7828, 7884, 7887,	13402, 13403,
\set@split@topskip@to	7928, 7931, 7972,	13410, 13420,
.... 10391, 10649	7975, 9034, 9045,	13423, 13425,
\set@typeset@protect	9251, 9265, 9898,	13427, 13556,
..... 14205,	9925, 9930, 9962,	13568, 13580,
14209, 22342,	9997, 10026,	13598, 13617,
24686, 25033, 25035	10183, 10184,	13623, 13631,
\SetatBoolean 5511	10188, 10191,	13637, 13645,
\setbaselineskip . 5934	10201, 10205,	13655, 13666,
\setbeamerfont	10208, 10212,	13682, 13691,
..... 1691, 1800	10222, 10225,	13710, 13718,
\setbeamersize	10226, 10240,	13733, 13749,
.. 2074, 3092, 3672	10257, 10273,	13759, 14009,
\setbeamertemplate	10285, 10288,	14030, 14033,
... 3021, 3024,	10289, 10303,	14046, 14066,
3025, 3027, 3028,	10316, 10332,	14069, 14083,
3179, 3180, 3181,	10357, 10358,	14134, 14175,
3186, 3194, 3222,	10362, 10394,	14180, 14566,
3287, 3293, 3299,	10395, 10397,	14581, 14596,
3305, 3307, 3311,	10398, 10401,	14616, 14807,
3312, 3315, 3316,	10402, 10430,	14816, 14820,
3317, 3326, 3532,	10436, 10439,	14844, 14858,
3536, 3554, 3624,	10447, 10485,	14928, 14935,
3792, 3880, 3975,	10486, 10516,	14936, 14952,
4041, 4043, 4054	10536, 10573,	14977, 14984,
\SetBoolean 5495	10584, 10597,	14985, 15001,
\setboolean .. 7297,	10647, 10871,	15052, 15064,
7298, 7300, 7302,	10879, 10880,	15098, 15100,
7307, 7308, 7312,	10884, 10892,	15111, 15136,
7313, 7384, 7388,	10900, 10901,	15161, 15170,
7391, 7396, 7398,	10905, 10920,	15177, 15178,
7402, 7404, 7782,	10923, 10928,	15223, 15224,
8406, 8407, 8408,	10932, 10940,	16814, 16825,
8665, 8666,	10977, 10980,	16906, 16912,
8667, 8692, 8693	10985, 10989,	16916, 16925,
	10994, 11852,	16982, 17014,



17020,	17796,	1123, 1298, 1330,	5077, 5079, 5080,
17799,	17800,	1374, 4624, 8084,	5081, 5082, 5140,
17822,	17827,	8103, 8122, 8154,	5149, 5150, 5153,
17837,	17855,	8404, 8916, 9194,	5155, 5158, 5159,
17860,	17896,	9410, 9442, 9588,	5161, 5164, 5230,
17899,	17900,	9620, 9707,	5240, 5241, 5242,
17922,	17927,	9742, 11464,	7321, 7348, 7349,
17937,	17955,	11497, 11559,	7350, 7351, 7372,
17960,	17991,	11594, 13914,	7378, 7379, 7412,
18072,	18088,	13947, 14235,	7415, 7419, 7465,
18543,	18557,	17668, 18373,	7517, 7518, 8019,
18560,	18579,	18394, 19074,	8020, 8021, 8022,
18580,	18586,	19106, 19150,	8028, 8270, 8563,
18587,	18598,	19213, 19245,	8564, 8565, 8566,
18600,	18602,	19291, 19496,	8567, 8568, 8569,
18604,	18607,	19536, 19684,	8570, 8572, 8573,
18609,	18611,	19719, 20090,	8575, 8578, 8579,
18613,	18623,	20303, 20376,	8580, 8581, 8798,
18625,	18634,	20820, 21033,	8799, 9317, 9339,
18636,	18651,	21127, 21583,	9495, 9517, 9783,
18653,	18661,	21796, 21882, 22969	9798, 10073,
18663,	18672,	<code>\setdefaultbibitems</code>	10814, 10818,
18753,	18754,	..... 24510	10820, 10823,
19944,	19954,	<code>\setdefaultmarginpar</code>	11231, 11376,
19965,	19972,	..... 25012	11391, 11959,
22283,	22331,	<code>\setDefaults</code> ... 15581	11962, 11976,
22372,	22422,	<code>\setfloatalignment</code> 7456	13819, 13833,
22492,	22542,	<code>\setfootnoteLR</code> .. 14497	14614, 15155,
23963,	23966,	<code>\setfootnoteRL</code> .. 14495	15263, 15264,
23971,	23975,	<code>\setkeys</code> . 1893, 1894,	15270, 15271,
23979,	23983,	1988, 1993, 1995,	15273, 15274,
23987,	23991,	1997, 2076, 2241,	15585, 15586,
23995,	23999,	2251, 2275, 2276,	15598, 15602,
24250,	24258,	2410, 2436, 2462,	15604, 15606,
24363,	24415,	2487, 9889, 9906,	15610, 15612,
24425,	24455,	11249, 11255,	16889, 18413,
24456,	24648,	11257, 15169,	18985, 19007,
24674,	24773,	15213, 15583,	19358, 19380,
24776,	24777,	18414, 19863,	19588, 19760,
24791,	24820,	19908, 22532, 24143	19775, 20031,
24823,	24824,	<code>\setlatin</code> 4244	20760, 21523,
24838,	24901,	<code>\setlength</code> 561, 578,	22567, 22568,
24904,	24945,	711, 735, 938,	22616, 22617,
24948,	24976,	956, 993, 994,	22619, 22993,
24990, 25008, 25074		995, 996, 997,	22997, 22998,
<code>\SetCaptionDefault</code>		1196, 1221, 3223,	23000, 23001,
..... 1884, 1886		3238, 3283, 3538,	23003, 23004,
<code>\setcaptionfont</code> .. 7376		4808, 4809, 4810,	23006, 23007,
<code>\setchapterpreamble</code>		5012, 5013, 5015,	23009, 23010,
.... 21103, 21858		5016, 5018, 5019,	23170, 23282,
<code>\setcitationfont</code> . 8011		5021, 5022, 5024,	23709, 24574, 24577
<code>\setcounter</code> ... 486,		5025, 5027, 5028,	<code>\setLR</code> 18760, 24474
521, 794, 826,		5030, 5031, 5032,	<code>\setLTR</code> 18721,
870, 1047, 1079,		5037, 5038, 5076,	18722, 18735,



18760, 18761,	21875, 21953,	12061, 12067,
24432, 24433,	22648, 23928, 23930	12069, 13436,
24446, 24474, 24475	\Setversedim	13724, 13737,
\setLTRbibitems . 24509	.. 8929, 8933, 8959	13776, 13784,
\setLTRcitationfont	\SetWatermarkText 11146	14632, 14918,
..... 8012	\sevendcolumnfootnotes	14919, 14930,
\setLTRmarginnotefont	..... 12813	14932, 14979,
..... 8009	\sf@size 16522	14981, 15035,
\setLTRmarginpar 25011	\sfcode 94,	15040, 15103,
\setLTRsidenotefont	308, 633, 765,	15114, 15121,
..... 8006	1030, 1281, 2683,	15155, 18206,
\setLTRtable 4250	9372, 9562, 9878,	18741, 18747, 24869
\setmarginnotefont 8008	11428, 11703,	\skip@ 323, 324
\setnonlatin 4245	13887, 16494,	\slideentry 2701
\setparsizes	18306, 19046,	\sloppy 43, 57, 73, 93,
20147, 20877, 21640	19440, 19639,	257, 271, 286,
\setRL 18759, 24473	19846, 20386,	307, 629, 764,
\setRTL 18720, 18723,	21137, 21892, 22659	1029, 1280, 2679,
18735, 18759,	\shadowbox 11345	5249, 9371, 9561,
24085, 24125,	\shadowsize . 11355,	9874, 11427,
24159, 24431,	11359, 11360,	11699, 13886,
24434, 24446, 24473	11363, 11364, 11367	14913, 16493,
\setRTLbibitems . 24508	\shipout 14205,	16999, 18305,
\setRTLcitationfont	15075, 15085, 25032	18895, 19045,
..... 8013	\shortauthors	19439, 19635,
\setRTLmain 4494	. 116, 117, 122,	19842, 20385,
\setRTLmarginnotefont	16554, 16555, 16560	21136, 21891, 22655
..... 8010	\shortcite 18308	\slshape .. 702, 931,
\setRTLmarginpar 25010	\shorttitle	1187, 5196, 9308,
\setRTLSidenotefont	. 115, 116, 122,	9486, 10716,
..... 8007	16553, 16554, 16560	10717, 10807,
\setRTLtable 4249	\showbox 14881	10808, 10810,
\setsidenotefont . 8005	\showoutput 14881	18976, 19349, 19564
\setSingleSpace ...	\sidebarheight 2130,	\small 463, 685,
.... 11905, 11910	2138, 2148,	785, 992, 1038,
\setspace@singlespace	2161, 2167, 2177	1246, 1289, 4650,
.. 8215, 8233, 8251	\sidecaptionsep ...	5110, 5200, 5205,
\setthesection .. 17685	..... 22230,	5235, 8545, 8546,
\settodepth 18409	22231, 22238,	8611, 8619, 8624,
\settoheight	22242, 22248,	8643, 9401, 9579,
.... 11228, 18410	22250, 22255, 22257	9684, 11443,
\settowidth 90,	\sidenote 8081, 8135,	11536, 13893,
304, 622, 757,	8173, 8268, 8359	18959, 19065,
1022, 1273, 2669,	\sidenotes 8178	19202, 19410,
3416, 3420, 3423,	\sideways 19970	19463, 19661,
5144, 9364, 9554,	\sixcolumnfootnotes	20122, 20852, 21615
9867, 10816,	..... 12666	\smallcaps
11273, 11420,	\sixt@n 4950, 4972	.. 8899, 8900, 8901
11692, 13879,	\size@chapter ... 18815	\smallskip
16490, 18412,	\skip 4285,	. 18227, 18232,
19038, 19432,	4509, 9122, 9123,	18239, 18248,
19628, 19835,	10925, 10982,	18259, 18264,
20369, 20447,	11992, 12010,	18269, 18276,
21120, 21198,	12039, 12056,	18283, 18290, 18812



<code>\smallskipamount</code> ..	16839, 17372,	17897, 24774, 24821
.. 3152, 3164, 3176	18078, 18080,	
<code>\smash</code>	18081, 18082,	<code>\splittopskip</code>
7578, 7589, 7590,	18083, 19812,	.... 41, 55, 71,
7593, 7594,	19857, 19900,	255, 269, 284,
7801, 10874,	20027, 20201,	11980, 12073,
10895, 14745,	20208, 20230,	12076, 12213,
18757, 24460, 24467	20236, 20243,	12214, 12219,
<code>\socket</code>	20391, 20756,	12220, 12224,
15341,	20931, 20938,	12225, 12229,
15384, 15426, 15481	20960, 20966,	12230, 12354,
<code>\SOUL@apo</code>	20973, 21142,	12355, 12360,
22277	21519, 21694,	12361, 12365,
<code>\SOUL@comma</code>	21701, 21723,	12366, 12370,
22276	21729, 21736,	12371, 12501,
<code>\SOUL@do</code>	21897, 22442,	12502, 12507,
22279	22444, 22501,	12508, 12512,
<code>\SOUL@eventuallyexhyphen</code>	23410, 23412,	12513, 12517,
.....	24047, 24738, 24981	12518, 12648,
22266		12649, 12654,
<code>\SOUL@grave</code>	<code>\spacefactor</code> . 8194,	12655, 12659,
22278	8199, 8205, 8208	12660, 12664,
<code>\SOUL@ignorespacesfalse</code>	<code>\spaceskip</code> 22310, 22315	12665, 12795,
.....	<code>\special</code> . 4307, 4396,	12796, 12801,
22270	4407, 4420, 4433,	12802, 12806,
<code>\SOUL@lasttoken</code> .	4523, 4565, 4613,	12807, 12811,
22273	18754, 18792,	12812, 12942,
<code>\SOUL@lowerthan</code> .	18794, 18797,	12943, 12948,
22263	18799, 18803,	12949, 12953,
<code>\SOUL@minus</code>	18805, 22498,	12954, 12958,
22275	22499, 22503,	12959, 13089,
<code>\SOUL@postamble</code> .	22504, 22506, 24456	13090, 13095,
22280	<code>\spinemargin</code> 11159,	13096, 13100,
<code>\SOUL@preamble</code> ..	11161, 11165, 11169	13101, 13105,
22272	<code>\split@prev</code>	13106, 13236,
<code>\SOUL@soeventuallyskip</code>	14454, 14462, 14467	13237, 13242,
.....	<code>\splitbotmark</code> ... 14818	13243, 13247,
22267	<code>\splitfirstmark</code> ...	13248, 13252,
<code>\SOUL@spaceskip</code> .	. 10229, 10292,	13253, 13383,
22268	14036, 14072,	13384, 13389,
<code>\SOUL@start</code>	14817, 14939,	13390, 13394,
22261	14988, 17803,	13395, 13399,
<code>\SOUL@ulcolor</code> 22292,	17903, 24780, 24827	13400, 14508,
22298, 22304, 22312	<code>\SplitFootnoteRule</code>	14525, 14541,
<code>\SOUL@uldp</code> .....	..... 4142, 14453	14812, 14813, 18553
22304	<code>\splitfootnoterule</code>	<code>\stepcounter</code> . 2414,
<code>\SOUL@uleveryspace</code>	..... 14457, 14465	2440, 2466, 5279,
.....	<code>\splitmaxdepth</code> .. 41,	6425, 6431, 6439,
22306	55, 71, 255,	6445, 8092, 8111,
<code>\SOUL@ulht</code>	269, 284, 10223,	8130, 8162, 8282,
22304	10286, 11981,	8311, 8340,
<code>\SOUL@ulleaders</code> ...	14031, 14067,	9092, 14234,
.....	14509, 14526,	14335, 14404,
22292, 22298, 22314	14542, 14933,	14475, 14484,
<code>\SOUL@uloverlap</code> .	14982, 17797,	16248, 16776,
22285		
<code>\SOUL@ulunderline</code> 22282		
<code>\SOUL@word</code>		
22274		
<code>\soulomit</code>		
22265		
<code>\space</code>		
4063,		
4220, 4259, 4262,		
4265, 4462, 4539,		
4555, 4558, 4561,		
6117, 6255, 6369,		
6383, 6397, 6407,		
7637, 7642, 7643,		
7776, 7777, 9638,		
9836, 10411,		
10413, 10435,		
10437, 11661,		
13848, 14781,		
14789, 14790,		
14814, 14822,		
16605, 16838,		



18368,	18372,	20431,	20432,	12302,	12440,
18389,	18393,	20440,	20441,	12443,	12446,
19854,	19897,	20504,	20505,	12587,	12590,
20422,	20423,	20508,	20509,	12593,	12734,
21173,	21174,	20756,	20931,	12737,	12740,
21928,	21929, 25104	20932,	20938,	12881,	12884,
<code>\stopbreaks</code>	.... 11722	20939,	20960,	12887,	13028,
<code>\str</code>	.... 6915, 6916,	20966,	20967,	13031,	13034,
	17084, 17135,	20973,	20974,	13175,	13178,
	17207, 17225,	21142,	21144,	13181,	13322,
	17287, 17311,	21150,	21182,	13325,	13328,
	17316, 17390,	21183,	21191,	13588,	13592,
	17421, 17434,	21192,	21255,	13596,	17013,
	17456, 17510, 17542	21256,	21259,	20491,	20520,
<code>\stretch</code>	..... 1524,	21260,	21519,	20532,	20543,
	1527, 9999, 10002	21694,	21695,	20552,	21242,
<code>\string</code>	371, 604, 607,	21701,	21702,	21271,	21283,
	611, 614, 1434,	21723,	21729,	21294,	21303,
	4165, 4169, 5279,	21730,	21736,	21997,	22026,
	5281, 5319, 5372,	21737,	21897,	22038,	22049,
	5378, 5450, 5452,	21899,	21905,	22058,	22578, 22583
	5464, 5465, 5468,	21937,	21938,	<code>\strutbox</code>	..... 41,
	5469, 5479, 5480,	21946,	21947,		55, 71, 255, 269,
	5483, 5484, 5487,	22010,	22011,		284, 404, 408,
	5488, 5491, 5492,	22014,	22015,		2308, 2325, 2342,
	5710, 5730, 5758,	22468,	22535,		2358, 2374, 2390,
	5784, 5812, 5838,	24046,	24303,		10492, 11795,
	5841, 5875, 5878,	24350, 24738, 24758			11801, 11807,
	5962, 5963, 5969,	<code>\strip@prefix</code>	6160, 6173		11981, 12213,
	6117, 6139, 6160,	<code>\strip@pt</code>	2544, 5586,		12219, 12224,
	6163, 6190, 6192,		5935, 11095,		12229, 12354,
	6255, 6328, 6375,		11098, 11103,		12360, 12365,
	6376, 6389, 6390,		11106, 13474, 13526		12370, 12501,
	6401, 6402, 6413,	<code>\stripsep</code>	.....		12507, 12512,
	6414, 6445, 6459,		. 10274, 10333,		12517, 12648,
	6460, 6461, 6462,		10349, 10356,		12654, 12659,
	6466, 7776, 7777,		10576, 10588,		12664, 12795,
	10035, 10038,		10602, 17831,		12801, 12806,
	10056, 10059,		17833, 17840,		12811, 12942,
	11402, 11405,		17931, 17933,		12948, 12953,
	11409, 11412,		17940, 18002,		12958, 13089,
	14785, 14786,		18005, 18007, 18014		13095, 13100,
	14787, 14788,	<code>\strut</code>	47, 61, 77, 261,		13105, 13236,
	14789, 14911,		275, 290, 3113,		13242, 13247,
	15245, 15246,		3438, 3442, 3448,		13252, 13383,
	18777, 18789,		3451, 3460, 3462,		13389, 13394,
	18807, 18905,		3467, 3468, 3470,		13399, 13481,
	18906, 20027,		3471, 3613, 3615,		13533, 14509,
	20201, 20202,		3760, 3762, 3856,		14516, 14526,
	20208, 20209,		3858, 3860, 3951,		14533, 14542,
	20230, 20236,		3953, 3955, 4725,		14549, 14577,
	20237, 20243,		11730, 12152,		14592, 14607,
	20244, 20391,		12155, 12158,		14600, 16816,
	20393, 20399,		12296, 12299,		16875, 17015,



20472, 20474,	\tabularnewline 430,	\textsf 4332
20568, 20570,	16795, 22340, 24683	\textsl 7660, 7661, 7662
21223, 21225,	\tabularx 22428	\textsuperscript . .
21319, 21321,	\tabularxcolumn . 22390	.. 8207, 11955,
21978, 21980,	\tag 438, 440,	11956, 11957,
22074, 22076,	444, 448, 451, 453	20063, 20793, 21556
22332, 22333,	\tagform@ 348	\texttt . . 4748, 4812,
22368, 24675, 24676	\tamark 17651	4814, 4815, 6448
\subfigoldlabel ..	\tbl 410, 413,	\textwidth . . . 1867,
..... 7507, 7509	419, 437, 441,	1893, 1988, 2045,
\subfigure .. 7506, 7513	16779, 16821,	2046, 2061, 2062,
\subitem 109,	16823, 16830,	2135, 2158, 2165,
239, 8654, 16510	16842, 16845, 16848	2207, 2208, 2209,
\subjclass 336	\tcb@icolorbox . 22526	2258, 2262, 2266,
\subject	\tcb@vbox 22513	2298, 2315, 2332,
20327, 21057, 21820	\tcd 18550, 18557, 18558	3041, 3048, 3065,
\subparagraph	\tcdsav 18550	3071, 3077, 3224,
.. 8456, 8457, 8460	\tcl 18574, 18575, 18581	3227, 3229, 3350,
\subsection	\tcn 18558,	3367, 3369, 3373,
.. 5175, 8427, 8443	18559, 18581,	3377, 3382, 3385,
\subsectioncolour .	18582, 18583, 18584	3390, 3393, 3752,
.. 5101, 10681,	\Telefon 5090	4294, 4300, 4597,
10689, 10696,	\tencolumnfootnotes	5049, 5140, 5149,
10703, 10710,	..... 13254	5150, 5162, 5164,
10780, 10786,	\TeX .. 16414, 18736,	7415, 7419, 7518,
10792, 10798, 10804	18737, 18758,	7819, 7820, 8960,
\subsectionfont 5109,	24447, 24448, 24461	10241, 10249,
5117, 10719, 10812	\text 15408	10304, 10497,
\subsectionstyle ..	\textbf 5203,	10537, 10547,
..... 5117, 5176	8600, 14758,	10727, 10742,
\subsubitem ... 110,	14760, 14762, 14764	10814, 10823,
240, 8655, 16511	\textbullet	10937, 11158,
\subsection . . . . .	... 3305, 5087,	11168, 11174,
.. 8447, 8448, 8451	10673, 10737, 10771	11204, 14046,
\subtable 7513	\textcolor	14052, 14084,
\supereject 4578	. 11344, 11359,	14175, 14180,
\switchlinenumbers	11363, 11366, 14748	14619, 14953,
..... 16649,	\textdef@ 357	15002, 15010,
16651, 16656, 16658	\textdir 17550	15291, 15294,
\symbol 4738, 4748	\textendash 791, 1044,	15299, 15305,
\sys 4078, 17305	1107, 1295, 9407,	16987, 17861,
	9585, 19071, 19210	17869, 17961,
	\textheight	17992, 18152,
	... 4598, 5051,	18187, 18188,
	10257, 10316,	18191, 18192,
	14921, 15585,	18195, 18196,
	19862, 19907,	18201, 18204,
	20108, 20113,	20106, 20116,
	20114, 20115,	20149, 20189,
	20838, 20843,	20193, 20836,
	20844, 20845,	20846, 20879,
	21601, 21606,	20919, 20923,
	21607, 21608, 25103	21599, 21609,
\tabular 22437	\textit 23029	21642, 21682,

T

\t@cb@bchapsec .. 22640
\tabcaption 15634, 15652
\tabcolsep 394, 1406,
16811, 19327, 24480
\tablinesep 22365
\tabskip 421,
9102, 16827,
16828, 16831,
22338, 22376, 24681
\tabular 22437



21686, 22549,	11498, 11515,	8059, 8194, 8205,
24792, 24800,	11540, 11560,	9011, 9018, 9142,
24839, 25078, 25094	11595, 11614,	9145, 9148, 9152,
<code>\textwidth@footnoterule</code>	13897, 13915,	9155, 9158, 9263,
..... 466,	13948, 13965,	9885, 9890, 9934,
788, 1041, 1292,	17638, 19069,	9995, 10228,
9404, 9582, 9687,	19081, 19107,	10230, 10291,
11446, 11539,	19118, 19119,	10293, 10373,
13896, 14424,	19128, 19151,	10393, 10399,
14435, 18203,	19168, 19206,	10403, 10410,
19068, 19205,	19220, 19246,	10411, 10412,
19466, 19664,	19259, 19260,	10413, 10414,
20125, 20855, 21618	19269, 19292,	10415, 10435,
<code>\textwidthfootnoterule</code>	19312, 19467,	10437, 10446,
..... 4143,	19497, 19537,	10450, 10473,
10865, 11783,	19555, 19665,	10474, 10475,
14433, 15148, 25131	19685, 19720,	10477, 10478,
<code>\TeXeTOff</code> 18669, 24361	19739, 20126,	10479, 10480,
<code>\TeXeTOn</code> ... 18668,	20305, 20856,	10513, 10577,
18670, 24360, 24362	21035, 21619, 21798	10589, 10601,
<code>\TeXeTstate</code> 18668,	<code>\thankses</code> 335	11994, 12012,
18669, 24360, 24361	<code>\the</code> .. 125, 126, 453,	13485, 13537,
<code>\TF@conlab</code>	1422, 1516, 1517,	13674, 14035,
14741, 14743, 14750	1519, 1520, 2082,	14037, 14071,
<code>\TF@savecolor</code>	2084, 2090, 2092,	14073, 14333,
.... 14747, 14752	2486, 2977, 2983,	14347, 14348,
<code>\TF@Title</code>	2985, 2986, 2987,	14351, 14352,
14750	2989, 2990, 2991,	14355, 14408,
<code>\thanklessauthor</code> ..	2999, 3001, 3002,	14412, 14467,
..... 8708,	3003, 3005, 3006,	14643, 14657,
8741, 8744, 8781	3007, 3333, 3434,	14774, 14781,
<code>\thanklesspublisher</code>	3436, 3437, 3438,	14785, 14786,
..... 8709,	3440, 3441, 3442,	14787, 14788,
8768, 8771, 8785	3447, 3448, 3450,	14789, 14790,
<code>\thanklesstitle</code> 8707,	3451, 3457, 3458,	14798, 14804,
8724, 8727, 8783	3460, 3462, 3467,	14811, 14812,
<code>\thanks</code> 335,	3468, 3470, 3471,	14814, 14819,
467, 487, 522,	4232, 4318, 4474,	14821, 14822,
541, 789, 801,	4534, 4589, 4591,	14836, 14862,
827, 838, 839,	4594, 4596, 4881,	14892, 14893,
848, 871, 888,	4883, 4886, 4889,	14894, 14899,
1042, 1054, 1080,	4894, 4897, 4900,	14900, 14901,
1091, 1092, 1101,	5005, 5385, 5387,	14911, 14938,
1124, 1141, 1293,	5388, 5409, 5411,	14940, 14987,
1305, 1331, 1342,	5412, 6132, 6461,	14989, 15215,
1343, 1352, 1375,	6556, 6611, 6639,	15260, 16035,
1393, 4625, 8707,	6641, 6648, 6650,	16043, 16044,
8708, 8709, 8710,	6652, 6654, 6655,	16050, 16052,
8713, 8720, 8721,	6656, 6667, 6674,	16081, 16082,
8737, 8738, 8753,	6676, 6681, 6685,	16088, 16090,
8754, 8765, 9405,	6686, 6691, 6696,	16121, 16123,
9417, 9443, 9583,	6704, 6707, 6711,	16152, 16154,
9595, 9621, 9688,	6717, 6801, 6802,	16183, 16185,
9708, 9743, 9762,	6803, 6828, 8049,	16563, 16564,
11447, 11465,		



16838,	16839,	.....	14001, 14002	21134, 21889, 22654
16840,	16896,	<code>\thealgocf</code>	..... 169	<code>\theequation</code>
16899,	17500,	<code>\theAlgoLine</code>	..... 199	9571, 9819,
17802,	17804,	<code>\theBackrefHyperFootnoteCounter</code>	..... 14677, 14683	11644, 13984,
17815,	17832,	<code>\thechapter</code>	... 320,	14268, 14281,
17839,	17845,	8416, 9388, 9394,		16573, 17686,
17902,	17904,	9396, 9398, 9566,		19055, 19424,
17915,	17932,	9572, 9574, 9576,		19611, 19796,
17939,	17945,	9638, 9820, 9822,		21090, 21849, 25124
18015,	18078,	9824, 9825, 9826,		<code>\thefigure</code>
18080,	18081,	9836, 11645,		9395, 9573,
18082,	18083,	11647, 11649,		9821, 11646,
18084,	18299,	11650, 11651,		13986, 14270,
18477,	18501,	11661, 13848,		14283, 17688,
18508,	18515,	13979, 13985,		19057, 19420,
18675,	18676,	13987, 13989,		19613, 19798,
19870,	19880,	14269, 14271,		21085, 21844, 22348
19889,	19916,	14273, 14274,		<code>\thefootdir@Label</code>
19928,	19938,	14275, 14282,		.....
20096,	20097,	14284, 14286,		..... 14333, 14336,
20098,	20376,	14287, 14288,		14364, 14369,
20826,	20827,	16763, 17676,		14387, 14390, 14410
20828,	21127,	17685, 17687,		<code>\thefootnote</code>
21589,	21590,	17688, 17689,		503, 793,
21591,	21882,	18340, 18818,		852, 1046, 1105,
22361,	22362,	19050, 19056,		1297, 1356, 4616,
22392,	22411,	19058, 19060,		9409, 9587, 9724,
22413,	22437,	19415, 19421,		11479, 11576,
22442,	22444,	19423, 19425,		13929, 15935,
22445,	22448,	19612, 19614,		19073, 19132,
22449,	22452,	19616, 19617,		19212, 19273,
22455,	22456,	19797, 19799,		19470, 19513,
22459,	22596,	19801, 19802,		19701, 20129,
23338,	23408,	19803, 19812,		20250, 20859,
23411,	23413,	21070, 21072,		20980, 21622, 21743
23499,	23829,	21085, 21088,		<code>\thefootnotemark</code>
23832,	23833,	21092, 21094,		.....
23835,	23837,	21832, 21844,		..... 18348, 18350
23841,	23846,	21847, 21850, 22683		<code>\theindex</code>
23850,	23861,	<code>\thecontentspage</code>	..	99, 229, 16500
23862,	23865,	..... 8474, 8481,		<code>\thelstlisting</code>
23871,	23875,	8488, 8495, 8502		16734,
23883,	23884,	<code>\thedata</code>	8703, 8711, 8757	16739, 16762, 16765
23921,	23937,	<code>\theenumiv</code>	..... 87,	<code>\thempfn</code>
23941,	24040,	90, 301, 304,		..... 2404,
24203,	24215,	628, 763, 1028,		2430, 2456, 4906,
24220,	24241,	1279, 2677, 5248,		4914, 4922, 8283,
24242,	24244,	9370, 9560, 9873,		8289, 8312, 8318,
24366,	24367,	11426, 11698,		8341, 8347, 9163,
24521,	24578,	13885, 16487,		9170, 9177,
24744,	24746,	16490, 19044,		14476, 14481,
24758,	24779,	19438, 19634,		14485, 14490,
24781, 24826, 24828		19841, 20383,		14621, 14647,
<code>\the@cornersize</code>	...			14652, 14662,
				14667, 15902,
				15913, 15924,
				16054, 16092,



16125, 16156,	19050, 19051,	19418, 19619,
16187, 16249, 17045	19415, 19416,	19620, 19805,
\thempfootnote	19617, 19618,	19806, 20340,
. . . . 14621, 17045	19803, 19804,	20343, 21077,
\theorem@indent . . .	20339, 21068,	21080, 21836, 21839
. 18382,	21076, 21831, 21835	\thetable 9397, 9575,
18383, 18402, 18403	\thesubparagraph . .	9823, 11648,
\theorem@prework 18376	. . . . . 22, 228,	13988, 14272,
\theorem@postskipamount	600, 750, 1005,	14285, 17689,
. . . . 18377, 18397	1266, 9392, 9570,	19059, 19422,
\theorem@preskipamount	9830, 11532,	19615, 19800,
. . . . 18380, 18400	11655, 13983,	21088, 21847, 22349
\thepage 4587,	14279, 14292,	\TheTokenList 6665
4592, 5225, 7548,	16548, 17683,	\thinlines . . 10087,
7660, 7661, 7662,	19054, 19419,	10097, 10110,
7671, 7672, 8887,	19621, 19807,	10120, 10133,
8888, 8899, 8900,	20344, 21081, 21840	10143, 10156, 10166
8901, 10614,	\thesubsection . . 19,	\thispagestyle . 102,
10632, 24247, 24981	20, 225, 226,	114, 232, 519,
\theparagraph . . . 21,	597, 598, 747,	648, 663, 868,
22, 227, 228,	748, 1002, 1003,	913, 1121, 1166,
599, 600, 749,	1263, 1264, 8430,	1372, 8788, 8810,
750, 1004, 1005,	9389, 9390, 9567,	8831, 9287, 9465,
1265, 1266, 8437,	9568, 9827,	9677, 9740,
9391, 9392, 9569,	9828, 11529,	11495, 11592,
9570, 9829,	11530, 11652,	11709, 11712,
9830, 11531,	11653, 13980,	13945, 16503,
11532, 11654,	13981, 14276,	16552, 16576,
11655, 13982,	14277, 14289,	16579, 17666,
13983, 14278,	14290, 16545,	18937, 19148,
14279, 14291,	16546, 17677,	19193, 19289,
14292, 16547,	17680, 19051,	19534, 19655,
16548, 17681,	19052, 19416,	19717, 20299,
17684, 19053,	19417, 19618,	21029, 21792, 22715
19054, 19418,	19619, 19804,	\thm@topsepadd 18377,
19419, 19620,	19805, 20339,	18378, 18381,
19621, 19806,	20341, 21076,	18397, 18398, 18401
19807, 20343,	21078, 21835, 21837	\thmbox 22535
20345, 21080,	\thesubsubsection .	\thmbox@box 22542
21082, 21839, 21841	. . . . . 20, 21,	\thmbox@dim . 22539,
\ther@tfl@t . 19855,	226, 227, 598,	22540, 22541, 22546
19856, 19898, 19899	599, 748, 749,	\thmbox@head . . . 22538
\thesection 19,	1003, 1004, 1264,	\thmbox@leftmargin
225, 597, 747,	1265, 9390, 9391,	. . . . . 22547
1002, 1263, 8423,	9568, 9569, 9828,	\thmbox@rightmargin
9388, 9389, 9566,	9829, 11530,	. . . . . 22548
9567, 9826, 9827,	11531, 11653,	\thmbox@start . . . 22555
11529, 11651,	11654, 13981,	\thmbox@style 22533,
11652, 13979,	13982, 14277,	22534, 22536, 22556
13980, 14275,	14278, 14290,	\thmbox@tail . . . 22556
14276, 14288,	14291, 16546,	\thmbox@vskip
14289, 16545,	16547, 17679,	. . . . 22551, 22553
17676, 17678,	17682, 19052,	\thr@@ 368, 384, 1431,
18348, 18350,	19053, 19417,	1449, 1473, 1482,



12355, 12361,	20249, 20824,	17335, 17338,
12366, 12371,	20830, 20850,	17339, 17352,
22268, 22465, 22485	20952, 20979,	17354, 17355,
<code>\threecolumnfootnotes</code>	21587, 21593,	17356, 17357,
..... 12231	21613, 21715, 21742	17358, 17359,
<code>\time</code> 4322,	<code>\titlepagestyle</code> ...	17360, 17369,
4326, 4543, 4547	20299, 21029, 21792	17372, 17376,
<code>\tiny</code> .. 4664, 8185, 8557	<code>\titlespacing</code>	17377, 17378,
<code>\title</code> . 332, 495, 531,	.. 8441, 8442, 8443	17381, 17395,
833, 878, 1086,	<code>\titlestyle</code> 5113, 10838	17401, 17414,
1131, 1337, 1382,	<code>\tl</code> 7016,	17419, 17423,
4632, 5127, 5166,	7018, 7022, 7025,	17444, 17452,
8702, 8717, 9449,	15340, 15383,	17453, 17478,
9627, 9716, 9752,	15408, 15410,	17482, 17483,
11471, 11505,	15416, 15421,	17484, 17497,
11568, 11604,	15427, 16771,	17569, 17570,
13921, 13955,	16773, 16777,	17578, 17579,
19113, 19158,	17067, 17075,	17580, 17581,
19254, 19301,	17080, 17082,	17591, 17592,
19505, 19546,	17083, 17084,	17593, 17598,
19693, 19729,	17085, 17087,	17603, 17605,
20324, 21054, 21817	17088, 17090,	17608, 17609,
<code>\TitleBarFrame</code>	17093, 17097,	17614, 17615,
. 14739, 14758,	17106, 17110,	17620, 17632, 17633
14760, 14762, 14764	17113, 17118,	<code>\tmpcount</code> ... 6855, 6881
<code>\titlecolour</code> 5096, 10774	17123, 17131,	<code>\toaddress</code> 11718, 16585
<code>\titlecontents</code>	17133, 17134,	<code>\toc@headstar</code>
... 8469, 8476,	17135, 17136,	..... 22705, 22710
8483, 8490, 8497	17138, 17140,	<code>\tocbasic@DependOnPenaltyAndTOCLevel</code>
<code>\TitleFont</code> 782, 798,	17142, 17143,	..... 23309
889, 891, 897,	17145, 17151,	<code>\tocbasic@SetPenaltyByTOCLevel</code>
1035, 1051, 1142,	17155, 17158,	..... 23437
1144, 1150, 1286,	17159, 17162,	<code>\TOCEntryStyleStartInitCode</code>
1302, 1394, 1396,	17169, 17174,	. 20609, 20622,
1402, 1405, 1406,	17182, 17185,	20640, 21361,
1411, 9414, 9592,	17186, 17187,	21374, 21393,
19062, 19078,	17188, 17189,	22116, 22129, 22148
19169, 19171,	17192, 17198,	<code>\toclevel@subfigure</code>
19177, 19199,	17199, 17200,	..... 22919
19217, 19315,	17205, 17207,	<code>\toclevel@subtable</code>
19317, 19323,	17214, 17218,	..... 22939
19326, 19327, 19332	17223, 17225,	<code>\TOCLineLeaderFill</code>
<code>\titlefont</code>	17227, 17229,	..... 20626,
. 5105, 5113, 10807	17248, 17254,	20642, 21378,
<code>\titleformat</code> . 8413,	17255, 17256,	21395, 22133,
8420, 8427, 8434	17257, 17258,	22150, 23459, 23750
<code>\titlehead</code>	17270, 17273,	<code>\tocstyle@numberline</code>
20326, 21056, 21819	17276, 17278,	..... 23928,
<code>\titlepage</code> 674,	17302, 17303,	23930, 23948,
982, 1235, 9353,	17305, 17314,	23950, 23953, 23955
9543, 18948, 19399	17317, 17318,	<code>\tocstyle@activate@all@1</code>
<code>\titlepage@restore</code>	17319, 17320,	..... 24041
. 20094, 20100,	17321, 17322,	<code>\tocstyle@activate@features</code>
20120, 20222,	17324, 17330,	..... 23818



<code>\tocstyle@dottedtocline</code>	23874, 23879, 23880, 23883, 23884, 23933, 23935, 23936, 23940	18645, 18646, 18650, 18651, 18655
<code>\tocstyle@feature@dothook</code>	23904	<code>\topins</code> 18738
<code>\tocstyle@feature@entryhook</code>	today 4332, 23900 4536, 4551, 8711	<code>\topmargin</code> . . . 4602, 5050, 11200, 14219, 20103, 20833, 21596, 25070
<code>\tocstyle@feature@entryvskip</code>	oks 123, 23819, 23822 125, 1516, 1517,	<code>\topmark</code> 10227, 10236, 10290, 10299, 14034, 14043, 14070, 14079, 14937, 14946, 14986, 14995, 17801, 17810, 17901, 17910, 24778, 24787, 24825, 24834
<code>\tocstyle@feature@leaders</code>	1519, 1520, 8042, 23902, 23907 8043, 8049, 9995,	<code>\topsep</code> 2674, 4790, 4799, 5240, 7341, 8551, 8593, 17698, 17700
<code>\tocstyle@feature@pagenumberbox</code>	14817, 14818, 23910, 23913 14819, 16561, 16563	<code>\topskip</code> 313, 4610, 10391, 14823, 14825, 14830, 17704, 17995, 22681, 22687, 22692, 22699, 22704, 22709
<code>\tocstyle@feature@pagenumberdot</code>	. . . . . 122, 126, 23911, 23913 4305, 4318, 4521,	<code>\TOTALHEIGHT</code> 22497, 22501
<code>\tocstyle@feature@parfillskip</code>	4534, 10227, 23890, 23891 10228, 10229,	<code>\totalheight</code> . . . 15242
<code>\tocstyle@feature@raggedhook</code>	10230, 10290, 23826 10291, 10292,	<code>\tovalue</code> 6739, 6826, 6834, 6865, 6878, 6884, 6885
<code>\tocstyle@feature@spaceafternumber</code>	10293, 14034, 23927, 14035, 14036, 23931, 23952, 23956 14037, 14070,	<code>\tracingmacros</code> . . . 6854
<code>\tocstyle@indentstyle</code>	14071, 14072, 23877, 23947 14073, 14937,	<code>\traditionalconnverses</code> . . . 8949, 8972, 8988
<code>\tocstyle@l@define</code>	14938, 14939, 23964, 23967, 14940, 14986, 23972, 23976, 14987, 14988, 23980, 23984, 14989, 15212, 23988, 23992, 15215, 15249, 23996, 24000, 24032 15251, 15255,	<code>\traditionalhalfverses</code> 8938, 8942, 8949, 8982
<code>\tocstyle@macrochangewarning</code>	15257, 15260, 24020, 24027 16032, 16035,	<code>\traditionalpoem</code> . . 9184
<code>\tocstyle@numberline</code>	16560, 16564, 23806, 23925 17801, 17802,	<code>\traditionalpoem@cr</code> . . . 9062, 9111, 9112
<code>\tocstyle@samed@dottedtocline</code>	17803, 17804, 24022 17901, 17902,	<code>\traditionalpoem@obeylines</code> 8992, 9184
<code>\tocstyle@samed@numberline</code>	17903, 17904, 24030 22411, 22431,	<code>\traditionalpoem@par</code> . . . 8992, 8993, 9111
<code>\tocstyle@depth</code>	23817, 22437, 24778, 23829, 23841, 24779, 24780, 23861, 23862, 24781, 24825, 23865, 23883, 24826, 24827, 24828	<code>\trim</code> 8044, 8051
<code>\tocstyle@TDC</code>	23884, 23933, 23935, 23937, 23941	<code>\trimc</code> 8053
	<code>\tolerance</code> 12148, 12292, 12436, 12583, 12730, 12877, 13024, 13171, 13318	<code>\trivlist</code> 14125, 18379, 18399
	<code>\toname</code> . . . 11718, 16585	<code>\ttdefault</code> 10713, 10805
	<code>\topheight</code> 18562, 18564, 18565, 18566, 18568, 18574, 18576, 18578, 18579, 18580, 18643, 18644,	<code>\ttfamily</code> 4650, 4735, 4736, 4738,



1345, 19120, 19121, 19261, 19262	\unitindent ... 684, 695, 696, 698, 772, 779, 923, 924, 926, 992, 993, 995, 996, 1008, 1014, 1108, 1180, 1181, 1183, 1245, 1254, 1261, 9301, 9302, 9304, 9379, 9386, 9479, 9480, 9482, 9533, 9540, 18958, 18969, 18970, 18972, 19023, 19030, 19342, 19343, 19345, 19409, 19447, 19454	17014, 17017, 17799, 17899, 19947, 19957, 19975, 20493, 21244, 21999, 24776, 24823, 25013
\uc@nothanks .. 801, 838, 839, 848, 1054, 1091, 1092, 1101, 1305, 1342, 1343, 1352, 9417, 9595, 19081, 19118, 19119, 19128, 19220, 19259, 19260, 19269	\unitlength 10087, 10097, 10110, 10120, 10133, 10143, 10156, 10166, 18413	\untilcondition 6740, 6754, 6838, 6881
\uc@tx 838, 846, 1091, 1099, 1342, 1350, 19118, 19126, 19259, 19267	\unkernel 5328, 8206, 10361, 10371	\unvbox .. 2300, 2317, 2334, 2348, 2364, 2380, 2514, 2570, 2583, 2590, 9931, 9932, 10188, 10191, 10208, 10212, 10225, 10275, 10288, 10334, 10359, 10374, 10397, 10401, 10491, 10520, 10574, 10585, 10598, 10648, 10879, 10882, 10883, 10900, 10903, 10904, 10929, 10936, 10941, 10946, 10986, 10991, 10995, 11000, 11853, 11865, 11877, 11969, 12000, 12018, 12042, 12047, 12083, 12167, 12185, 12198, 12311, 12328, 12340, 12455, 12473, 12486, 12602, 12620, 12633, 12749, 12767, 12780, 12896, 12914, 12927, 13043, 13061, 13074, 13190, 13208, 13221, 13337, 13355, 13368, 13402, 13605, 13624, 13638, 13652, 13663, 13679, 13688, 13713, 13721, 13728, 13735, 13741, 13779, 14567,
\uc@ty 847, 848, 1100, 1101, 1351, 1352, 19127, 19128, 19268, 19269	\unpenalty ... 9920, 10361, 10371, 13407, 13422, 14847	
\uncover 2307, 2324, 2341, 2357, 2373, 2389	\unrestored@protected@xdef ... 2421, 2447, 2473, 4906, 4914, 4922, 8289, 8318, 8347, 9163, 9170, 9177, 14481, 14490, 14652, 14667, 15902, 15913, 15924, 15935	
\undeclare@file@substitution .. 7132, 7137, 7143	\unsetfootnoteRL 14496, 14497	
\undefined ... 9136, 9190, 9193, 9195	\unsetLTR . 18723, 24434	
\underline 24653, 24661	\unsetRL .. 18761, 24475	
\undertext 24661	\unsetRTL . 18722, 24433	
\unexpanded .. 5990, 5999, 6000, 6007, 6008, 6021, 6022, 6029, 6030, 6131, 6247, 20430, 20436, 20439, 20445, 21181, 21187, 21190, 21196, 21936, 21942, 21945, 21951	\unskip 47, 61, 77, 261, 275, 290, 348, 1498, 1499, 1500, 2259, 2665, 2686, 7598, 7601, 7604, 7607, 8297, 8326, 8355, 9044, 9055, 9917, 10225, 10288, 10361, 10371, 12035, 13405, 13406, 14630, 14935, 14984, 16972,	
\unhbox 1546, 9017, 9275, 10021, 13404, 13425, 13428, 13655, 13660, 13666, 13671, 13682, 13685, 13691, 13694, 16426, 16431, 16459, 16464, 16476, 16481, 24585, 24704, 24705, 24706, 24707		
\unhcopy 16442, 16447, 22288, 22300, 22376		
\unhskip 6658		



14582,	14597,	1792, 1855, 1871,	... 1858, 2116,
14635,	14640,	1882, 1896, 1901,	2120, 2131, 2140,
14810,	14820,	1911, 1972, 2004,	2149, 2162, 2169,
14847,	14935,	2007, 2052, 2139,	2178, 2211, 2220,
14984,	15056,	2168, 2608, 2617,	2224, 2232, 2287,
15058,	15102,	2630, 2639, 2653,	2292, 2609, 2613,
15107,	15113,	2730, 2737, 2742,	2631, 2634, 2654,
15117,	15124,	2897, 2995, 3034,	2732, 2734, 2739,
15140,	16906,	3044, 3050, 3113,	2744, 2900, 3210,
16912,	16920,	3118, 3119, 3125,	3502, 3700, 3723
16927,	17020,	3131, 3137, 3146,	<code>\usebox</code> 4775,
17038,	17799,	3148, 3158, 3160,	4785, 7439, 7571,
17828,	17830,	3170, 3172, 3207,	7573, 7578, 7580,
17838,	17856,	3213, 3290, 3296,	7589, 7590, 7593,
17858,	17899,	3302, 3339, 3353,	7594, 7801,
17928,	17930,	3360, 3500, 3601,	11290, 11293,
17938,	17956,	3613, 3615, 3636,	11301, 11308,
17958,	18013,	3683, 3690, 3699,	11316, 11323,
18600,	18604,	3723, 3760, 3762,	11366, 15592,
18609,	18613,	3777, 3860, 3955	15596, 15679,
18625,	18636,	<code>\usebeamerfont</code> 1584,	15681, 15685,
18656,	18659,	1594, 1595, 1607,	15687, 15692,
18664,	18738,	1622, 1623, 1643,	15694, 15698,
18739,	18743,	1664, 1665, 1673,	15700, 15704,
18748,	24585,	1696, 1717, 1738,	15706, 15710,
24776, 24823, 24872		1773, 1774, 1791,	15712, 15718,
<code>\unvcopy</code> 10360, 10398,		1809, 1810, 1825,	15719, 15722,
10402, 10430,		1827, 1834, 1836,	15723, 15727,
10436, 10440,		1843, 1845, 1856,	15728, 15731,
10448, 10923, 10980		1872, 1881, 2606,	15732, 15735,
<code>\uppercase</code> 320, 818,		2616, 2628, 2638,	15736, 15739,
838, 1071, 1091,		2651, 2727, 2846,	15740, 15754,
1322, 1342, 9434,		2847, 2863, 2864,	15755, 15757,
9612, 19098,		2865, 2898, 2915,	15758, 15770,
19118, 19237, 19259		2921, 2930, 2936,	15771, 15773,
<code>\uppercasenonmath</code> .		2945, 2951, 2959,	15774, 15780,
. 115, 16553		3043, 3049, 3066,	15781, 15784,
<code>\uppermargin</code> . . . 11172		3072, 3078, 3118,	15785, 15789,
<code>\uppertitleback</code> . . .		3119, 3125, 3131,	15790, 15793,
. 20201, 20236,		3137, 3146, 3158,	15794, 15797,
20329, 20931,		3170, 3208, 3214,	15798, 15801,
20966, 21059,		3268, 3282, 3339,	15802, 15809,
21694, 21729, 21822		3353, 3360, 3430,	15811, 15815,
<code>\upshape</code> . 8474, 8481,		3489, 3492, 3496,	15817, 15822,
8488, 8495, 8502,		3501, 3519, 3526,	15824, 15828,
10714, 10718,		3578, 3613, 3615,	15830, 15834,
10719, 10806,		3679, 3691, 3716,	15836, 15840,
10811, 10812, 18813		3723, 3760, 3762,	15842, 15855,
<code>\urlstyle</code> 5069		3835, 3844, 3856,	15857, 18409,
<code>\use</code> 17198		3860, 3862, 3911,	18410, 18412,
<code>\usebeamercolor</code> . . .		3920, 3930, 3940,	18419, 18437,
. . . 1608, 1644,		3951, 3955, 3957,	18671, 18672, 24363
1660, 1667, 1674,		3993, 4002, 4021	<code>\usecounter</code> 92,
1697, 1718, 1739,		<code>\usebeamertemplate</code>	306, 626, 761,



1026, 1277, 2614,	22056, 22062,	10008, 10188,
2675, 5246, 8589,	22063, 22067,	10191, 10208,
9368, 9558, 9871,	22120, 22123,	10212, 10225,
11424, 11696,	22133, 22139, 22142	10240, 10257,
13883, 16492,	\UseTaggingSocket .	10273, 10288,
19042, 19436,	..... 391, 399,	10303, 10316,
19632, 19839,	418, 432, 16770,	10332, 10357,
20375, 20380,	16780, 16829,	10358, 10397,
21126, 21131,	16844, 16921, 16930	10398, 10401,
21881, 21886, 22652	\usetocbasicnumberline	10402, 10430,
\usefontofkomafont	..... 23389	10436, 10439,
..... 20461,	V	10447, 10486,
20498, 21212,	\vadjust 9020, 9021, 9028	10516, 10536,
21249, 21967, 22004	\valign ... 12074, 12077	10544, 10549,
\usekomafont	\value ... 3428, 3429,	10556, 10563,
. 20068, 20076,	8087, 8106, 8125,	10573, 10584,
20150, 20156,	8157, 14333,	10597, 10647,
20159, 20161,	14347, 14348,	10653, 10871,
20164, 20172,	14351, 14352,	10879, 10880,
20174, 20217,	14355, 20422,	10888, 10892,
20491, 20492,	21173, 21928, 22392	10900, 10901,
20523, 20524,	\var@@leftcolumn@badness	10909, 10923,
20529, 20534,	10399, 10411, 10417	10928, 10932,
20535, 20538,	\var@@rightcolumn@badness	10935, 10939,
20545, 20546,	10403, 10413, 10418	10940, 10957,
20550, 20556,	\var@@thecol@num ..	10964, 10980,
20557, 20561,	..... 10343,	10985, 10989,
20613, 20616,	10345, 10614, 10632	10990, 10993,
20626, 20632,	\vbadness ... 10224,	10994, 11009,
20634, 20798,	10287, 12073,	11016, 11852,
20806, 20880,	12076, 14032,	11864, 11876,
20886, 20889,	14068, 14174,	11997, 11999,
20891, 20894,	14934, 14983,	12015, 12017,
20902, 20904,	17798, 17898,	12166, 12184,
20947, 21242,	18552, 24775, 24822	12197, 12310,
21243, 21274,	\vbox .. 318, 424, 431,	12327, 12339,
21275, 21280,	1466, 1533, 1892,	12454, 12472,
21285, 21286,	2010, 2124, 2130,	12485, 12601,
21289, 21296,	2138, 2148, 2161,	12619, 12632,
21297, 21301,	2167, 2177, 2191,	12748, 12766,
21307, 21308,	2206, 2228, 2295,	12779, 12895,
21312, 21365,	2312, 2329, 2347,	12913, 12926,
21368, 21378,	2363, 2379, 2490,	13042, 13060,
21384, 21387,	2492, 2510, 2514,	13073, 13189,
21561, 21569,	2553, 2558, 2570,	13207, 13220,
21643, 21649,	2583, 2588, 2589,	13336, 13354,
21652, 21654,	2923, 2938, 2953,	13367, 13402,
21657, 21665,	2968, 3056, 3345,	13556, 13568,
21667, 21710,	3365, 3607, 3617,	13580, 13604,
21997, 21998,	3642, 3662, 3664,	13617, 13623,
22029, 22030,	3757, 3765, 4986,	13631, 13637,
22035, 22040,	7828, 7829, 7831,	13645, 13710,
22041, 22044,	9004, 9925, 9930,	13718, 13733,
22051, 22052,		14046, 14083,



14175,	14180,	24582, 24583, 24672	<code>\vrule</code>	406, 1545, 1647,
14205,	14220,	<code>\veqno</code>		1653, 1661, 1668,
14245,	14566,			1677, 1686, 1700,
14581,	14596,	<code>\verb</code>		1709, 1721, 1730,
14616,	14807,			1742, 1751, 2070,
14820,	14844,	<code>\VerbBox</code> . .		3375, 3376, 3383,
14935,	14952,			3384, 3391, 3392,
14984,	15001,	<code>\verse@i</code> . .		3603, 3639, 3646,
15100,	15111,			3650, 4006, 4025,
15136,	16825,	9071, 9079, 9120		7830, 7831, 9003,
16906,	16912,	<code>\verse@ii</code>		9005, 10020,
16916,	16919,			10244, 10309,
16925,	16926,	9066, 9072, 9074,		10541, 10560,
16982,	17020,	9080, 9082, 9120		14048, 14089,
17554,	17704,	<code>\versewidth</code>		14958, 15005,
17799,	17822,			16814, 16892,
17827,	17829,	. . . . .		17282, 17544,
17837,	17855,	. . . . .		17625, 17832,
17860,	17899,	. . . . .		17839, 17864,
17922,	17927,	. . . . .		17932, 17939,
17929,	17937,	<code>\vfil</code> . .		17966, 17995,
17955,	17960,			18108, 18119,
17991,	18458,	470, 484, 675,		22304, 22332,
18586,	18587,	678, 795, 824,		22373, 24675,
18600,	18604,	983, 986, 1048,		24795, 24844, 25005
18609,	18613,	1077, 1236, 1239,		<code>\vsize</code>
18625,	18636,	1299, 1328, 2132,		10622,
18651,	18653,	2150, 2163, 2179,		14195, 14772,
18655,	18658,	2494, 2554, 3395,		14823, 16915,
18663,	18700,	3608, 3619, 9004,		16933, 20098,
18707,	18708,	9354, 9357, 9411,		20115, 20828,
18715,	18824,	9440, 9544, 9547,		20845, 21591, 21608
20501,	21252,	9589, 9618, 9691,		<code>\vskip</code>
22007,	22344,	9705, 10879,		321, 324,
22378,	22383,	10900, 11448,		471, 474, 480,
22542,	23963,	11462, 11543,		539, 545, 551,
23966,	23971,	11557, 13898,		555, 693, 796,
23975,	23979,	13912, 18744,		805, 815, 886,
23983,	23987,	18949, 18952,		890, 896, 900,
23991,	23995,	19075, 19104,		921, 1049, 1058,
23999,	24391,	19214, 19243,		1068, 1139, 1143,
24399,	24400,	19400, 19403,		1149, 1153, 1178,
24408,	24575,	19480, 19494,		1300, 1309, 1319,
24580,	24672,	19668, 19682, 25075		1390, 1395, 1401,
24689,	24776,	<code>\vfill</code>		1405, 1411, 1414,
24791,	24823,			1823, 1832, 1841,
24838,	24991,	3121,		1908, 1954, 1967,
25032, 25071, 25074		3696, 4578,		1971, 2020, 2022,
<code>\vboxL</code>	18708,	8784, 12074,		2024, 2026, 2028,
	19862, 19907, 24400	12077, 13769,		2029, 2913, 2920,
<code>\vboxR</code>	18700, 24391	18651, 18656,		2923, 2928, 2935,
<code>\vcenter</code>	424,	18657, 19872,		2938, 2943, 2950,
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