

The litetable Package — Colorful Timetable^{*}

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1 Introduction

The litetable package provides a colorful design of timetable, developed by expl3 based on TikZ. It supports various compilation methods, such as pdf_{La}TeX, Xe_{La}TeX, Ap_{La}TeX, Lua_{La}TeX, etc. Click to jump to the manual's [\[Chinese Version\]](#) [\[Cantonese Version\]](#).

2 Usage

To load this package, write the line

```
\usepackage{litetable}
```

`litetable (env.)` The litetable environment can create a blank timetable frame, and it should be executed after commands `\timelist` and `\weeklist`.

```
\begin{litetable} [<keys>] {<title>} [<keys>] ... \end{litetable}
```

The mandatory argument can set the title of the timetable, and the optional argument accepts the following keys

scale = *<float>* can set the scale of the timetable (Default: 1.0).

color = *<string>* can set the background color (Default: gray), this key's name could be omitted.

sem = *<string>* can set the semester information at the northeast corner of the page.

hline = *<string>* can set style of the horizontal lines (Default: solid).

```
\weeklist \weeklist [<keys>] {<list>} [<keys>]
```

The mandatory argument accepts an array to set a list of working days and the width of each column at the top of the timetable. The optional argument accepts the following keys

format = *<format commands>* can set the font for the list of working days (Default: `\bfseries`).

sep = *<dim>* can set the separator of the list of working days.

```
\weeklist [ format = \bfseries \scshape, sep = \textbar ]  
{ Mon -> 1.05, Tue -> 1.05, Wed -> 1.1, Thu -> 1.1, Fri -> .9 }
```

^{*}<https://github.com/myhsia/litetable>, <https://ctan.org/pkg/litetable>

[†]Lijun Guo developed an interface to parse *<left>* -> *<right>* data structures.

`\timelist` `\timelist` [*<keys>*] {*<list>*} [*<keys>*]

The mandatory argument accepts an array to set the time list on the left side of the timetable. The optional argument accepts the following keys

numformat = *<format commands>* can set the font for the sequence number of the time list (Default: `\ttfamily \bfseries`).

timeformat = *<format commands>* can set the font for the time of the time list. (Default: `\ttfamily`).

hidetime = *<true|false>* hide the time in the time list and only retain the sequence number. The initial value is false.

```
\timelist [ numformat = \bfseries, timeformat = \ttfamily ]
          { 08:30 -> 10:00, 10:30 -> 12:00, 13:00 -> 14:30, 15:00 -> 16:30 }
```

`\course` `\course` [*<keys>*] {*<start>*} [*<keys>*] {*<end>*} [*<keys>*]

It's used to add course boxes on the current workday, and needs to be executed within the `litetable` environment. The two mandatory arguments can set the start and ends of the course respectively, the optional argument accepts the following keys

color = *<string>* can set the color of the course box (Default: teal), this key's name could be omitted.

subject = *<string>* can set the name of the course.

location = *<string>* can set the location of the course.

lecture = *<string>* can set the lecture of the course.

comment = *<string>* can add footnote to the course.

T_EXhackers note:

- If *<start>* = *<end>* (the height of the course box is 1 unit), then **location** and **lecture** will be outputted in the same line and **comment** will be hidden.
- The template will correct automatically if *<start>* and *<end>* were misplaced.
- If neither **location** nor **lecture** is assigned value, then **subject** will be outputted in the vertical center of the course box.
- Course boxes that exceed the range of the timetable won't display and it will return a warning. The input example refers to Appendix 3.

`\newday` `\newday` [*<integral value>*]

It can move the next course boxes right *<integral value>* working days. The default value of the optional argument is 1.

`\more` `\more` {*<comment>*}

It can add a comment at the southwest corner of the timetable.

3 Working Example

```
\documentclass[svgnames, a4paper]{article}

\usepackage{litetable, twemojis}
\usepackage[osf, mono = false]{libertine}
\usepackage[T1]{fontenc}

\begin{document}

\weeklist [ format = \bfseries \scshape, sep = \textbar ]
{
  \texttwemoji{1f312} Mon -> 1.05, \texttwemoji{1f525} Tue -> 1.05,
  \texttwemoji{1f30a} Wed -> 1.1, \texttwemoji{1f332} Thu -> .9,
  \texttwemoji{1fa99} Fri -> .9
}

\timelist [ numformat = \ttfamily \bfseries, timeformat = \ttfamily ]
{
  08:05 -> 08:50, 08:55 -> 09:40, 10:00 -> 10:45, 10:50 -> 11:35,
  11:40 -> 12:25, 13:30 -> 14:15, 14:20 -> 15:05, 15:15 -> 16:00,
  16:05 -> 16:50, 18:30 -> 19:15, 19:20 -> 20:05, 20:10 -> 20:55
}

\begin{litetable} [ DarkBlue, sem = SEM 7, hline = dashed ]
{Course Schedule}
\course [ subject = interface3, comment = \TeX-Live 2025,
          lecture = The \LaTeX\ Project, DarkBlue ] {4} {5}
\newday
\course [ subject = expl3, lecture = The \LaTeX\ Project ] {8} {8}
\newday
\course [ subject = Keep on \TeX ing, lecture = Donald E. Knuth,
          location = Stanford University, Purple ] {10} {11}
\newday
\course [ subject = Ti\textit{k}/Z, lecture = \textsc{pgf},
          Crimson, comment = Version 3.1.10 ] {3} {5}
\more {Programme Duration: 09 / 2021 -- 07 / 2025}
\end{litetable}

\end{document}
```

Course Schedule

SEM 7

● MON

🔥 TUE

🌊 WED

🌲 THU

🌞 FRI

1

08:05
08:50

2

08:55
09:40

3

10:00
10:45

4

10:50
11:35

5

11:40
12:25

6

13:30
14:15

7

14:20
15:05

8

15:15
16:00

9

16:05
16:50

10

18:30
19:15

11

19:20
20:05

12

20:10
20:55

interface3

The \LaTeX Project

\TeX Live 2025

TikZ

PGF

Version 3.1.10

expl3

The \LaTeX Project

Keep on \TeX ing

Stanford University
Donald E. Knuth

A The Source Code

```

1 < *package>
2 < @@=ltbl>
3 \ProvidesExplPackage {litetable} {2025-11-12} {v3.8B}
4   {A Colorful Timetable Design}
5 \RequirePackage{tikz}

Warning Broadcast
6 \cs_new_protected:Npn \__ltbl_msg_new:nn #1#2
7   { \msg_new:nnn { litetable } {#1} {#2} }
8 \cs_new_protected:Npn \__ltbl_msg_warning:n #1
9   { \msg_warning:nn { litetable } {#1} }
10 \__ltbl_msg_new:nn { course }
11   { \exp_not:N \course ~ box(s) ~ exceed ~ workdays ~ were ~ ignored }

\__ltbl_get_left:nN
\__ltbl_get_left:eN
\__ltbl_get_right:nN
\__ltbl_get_right:eN
Handle <left> -> <right> data structures (by Lijun Guo)
12 \cs_new_protected_nopar:Npn \__ltbl_get_left:nN #1#2
13   {
14     \group_begin: \seq_set_split:Nnn \l__ltbl_tmpa_seq { -> } {#1}
15     \exp_args:NNNe \group_end:
16     \tl_set:Nn #2 { \seq_item:Nn \l__ltbl_tmpa_seq { 1 } }
17   }
18 \cs_new_protected_nopar:Npn \__ltbl_get_right:nN #1#2
19   {
20     \group_begin: \seq_set_split:Nnn \l__ltbl_tmpa_seq { -> } {#1}
21     \exp_args:NNNe \group_end:
22     \tl_set:Nn #2 { \seq_item:Nn \l__ltbl_tmpa_seq { 2 } }
23   }
24 \cs_generate_variant:Nn \__ltbl_get_left:nN { eN }
25 \cs_generate_variant:Nn \__ltbl_get_right:nN { eN }

(End of definition for \__ltbl_get_left:nN and \__ltbl_get_right:nN.)

```

A.1 User's Interface

\weeklist Set a list of working days and the width of each column at the top of the timetable.

```

26 \NewDocumentCommand \weeklist { O{} m O{} }
27   {
28     \keys_set:nn { litetable / weeklist } { #1, #3 }
29     \__ltbl_weeklist:n {#2}
30   }

```

Key-value definitions for the \weeklist command.

```

\l__ltbl_weeklist_format_tl
\l__ltbl_weeklist_sep_tl
31 \keys_define:nn { litetable / weeklist }
32   {
33     format .tl_set:N = \l__ltbl_weeklist_format_tl,
34     format .initial:n = \bfseries,
35     sep .tl_set:N = \l__ltbl_weeklist_sep_tl
36   }

```

(End of definition for \weeklist, \l__ltbl_weeklist_format_tl, and \l__ltbl_weeklist_sep_tl. This function is documented on page 1.)

\timelist Set the time list on the left side of the timetable.

```

37 \NewDocumentCommand \timelist { 0{} m 0{} }
38 {
39   \keys_set:nn { litetable / timetable } { #1, #3 }
40   \__ltbl_timelist:n {#2}
41 }

```

Key-value definitions for the \timelist command.

```

\l__ltbl_timelist_numformat_tl
\l__ltbl_timelist_timeformat_tl
\l__ltbl_timelist_hidetime_bool
42 \keys_define:nn { litetable / timetable }
43 {
44   numformat .tl_set:N = \l__ltbl_timelist_numformat_tl,
45   numformat .initial:n = \ttfamily \bfseries,
46   timeformat .tl_set:N = \l__ltbl_timelist_timeformat_tl,
47   timeformat .initial:n = \ttfamily,
48   hidetime .bool_set:N = \l__ltbl_timelist_hidetime_bool,
49   hidetime .initial:n = false,
50   hidetime .default:n = true
51 }

```

(End of definition for \timelist and others. This function is documented on page 2.)

\l__ltbl_textwidth_dim **\l__ltbl_textheight_dim** Dimensions for the physical width and height of the timetable, controlled by \l__@@_scale_fp.

```

52 \dim_new:N \l__ltbl_textwidth_dim
53 \dim_new:N \l__ltbl_textheight_dim

```

(End of definition for \l__ltbl_textwidth_dim and \l__ltbl_textheight_dim)

litetable (env.) Create a blank timetable frame.

```

54 \NewDocumentEnvironment { litetable } { 0{} m 0{} }
55 {
56   \clearpage \thispagestyle{empty}
57   \group_begin:
58   \dim_gset:Nn \l__ltbl_textwidth_dim
59     { \fp_eval:n { \l__ltbl_scale_fp } \paperwidth }
60   \dim_gset:Nn \l__ltbl_textheight_dim
61     { \fp_eval:n { \l__ltbl_scale_fp } \paperheight }
62   \keys_set:nn { litetable / frame } { #1, #3 }
63   \tikzpicture [ remember=picture, overlay ]
64     \__ltbl_maketable:n {#2}
65 } { \endtikzpicture \group_end: \clearpage }

```

Key-value definitions for the litetable command.

```

\l__ltbl_scale_fp
\l__ltbl_bg_color_tl
\l__ltbl_hline_type_tl
\l__ltbl_bg_sem_tl
66 \keys_define:nn { litetable / frame }
67 {
68   scale .fp_set:N = \l__ltbl_scale_fp,
69   scale .initial:n = 1.0,
70   color .tl_set:N = \l__ltbl_bg_color_tl,
71   color .initial:n = gray,
72   hline .tl_set:N = \l__ltbl_hline_type_tl,
73   hline .initial:n = solid,
74   sem .tl_set:N = \l__ltbl_bg_sem_tl,
75   unknown .code:n = \tl_if_novalue:nF {#1}
76     { \tl_set_eq:NN \l__ltbl_bg_color_tl \l_keys_key_tl }
77 }

```

(End of definition for \l__ltbl_scale_fp and others.)

\course Add course boxes on the current workday

```

78 \NewDocumentCommand \course { 0{} m 0{} m 0{} }
79 {
80   \group_begin:
81   \bool_lazy_any:nTF
82     {
83       {
84         \int_compare_p:nNn { \l__ltbl_weekday_int } >
85         { \clist_count:N \l__ltbl_week_clist }
86       }
87       { \int_compare_p:nNn {#2} > { \clist_count:N \l__ltbl_time_clist } }
88       { \int_compare_p:nNn {#4} > { \clist_count:N \l__ltbl_time_clist } }
89     } { \__ltbl_msg_warning:n { course } }
90     {
91       \keys_set:nn { litetable / course } { #1, #3, #5 }
92       \int_compare:nNnTF {#2} < {#4}
93         { \__ltbl_course_box_aux:nn {#2} {#4} }
94         { \__ltbl_course_box_aux:nn {#4} {#2} }
95     }
96   \group_end:
97 }

```

Key-value definitions for the \course command.

```

\l__ltbl_course_color_tl
\l__ltbl_course_subject_tl
\l__ltbl_course_lecture_tl
\l__ltbl_course_location_tl
\l__ltbl_course_comment_tl
98 \keys_define:nn { litetable / course }
99 {
100   color      .tl_set:N = \l__ltbl_course_color_tl,
101   color      .initial:n = black,
102   subject    .tl_set:N = \l__ltbl_course_subject_tl,
103   lecture    .tl_set:N = \l__ltbl_course_lecture_tl,
104   location   .tl_set:N = \l__ltbl_course_location_tl,
105   comment    .tl_set:N = \l__ltbl_course_comment_tl,
106   unknown    .code:n = \tl_if_novalue:nF {#1}
107   { \tl_set_eq:NN \l__ltbl_course_color_tl \l_keys_key_tl }
108 }

```

(End of definition for \course and others. This function is documented on page 2.)

\more Add a comment at the southwest corner of the timetable.

```

109 \NewDocumentCommand \more { m }
110 {
111   \node [ yshift = .5\l__ltbl_time_vunit_dim, left = 1ex,
112         darkgray, font = \small \bfseries
113         ] at (current~page.south-east) {#1};
114 }

```

(End of definition for \more. This function is documented on page 2.)

\newday Move the next course boxes right $\langle integral \ value \rangle$ working days.

```

115 \NewDocumentCommand \newday { 0{1} } { \int_add:Nn \l__ltbl_weekday_int {#1} }
116 \int_new:N \l__ltbl_weekday_int
117 \int_set:Nn \l__ltbl_weekday_int { 1 }

```

(End of definition for \newday. This function is documented on page 2.)

A.2 Internal Auxiliary

`\l__ltbl_week_ratio_clist` The ratios of every working days, the accumulation of the ratios of every working days, the sequence number of every working days, the horizontal width unit of the timetable.

```
\l__ltbl_week_accum_clist
  \l__ltbl_week_num_fp
  \l__ltbl_week_hunit_dim
118 \clist_new:N \l__ltbl_week_ratio_clist
119 \clist_new:N \l__ltbl_week_accum_clist
120 \fp_new:N \l__ltbl_week_num_fp
121 \dim_new:N \l__ltbl_week_hunit_dim
```

(End of definition for `\l__ltbl_week_ratio_clist` and others.)

`__ltbl_weeklist:n` Define the auxiliary command of `\weeklist`.

```
122 \cs_new_protected_nopar:Npn \__ltbl_weeklist:n #1
123 {
124   \clist_set:Nn \l__ltbl_week_clist {#1}
125   \exp_args:NNf \clist_map_inline:Nn \l__ltbl_week_clist
126   {
127     \__ltbl_get_right:eN {##1} \l__ltbl_tmpb_tl
128     \clist_put_right:Ne \l__ltbl_week_ratio_clist { \l__ltbl_tmpb_tl }
129   }
130   \int_step_inline:nn { \clist_count:N \l__ltbl_week_clist }
131   {
132     \clist_clear:N \l__ltbl_week_accutmp_clist
133     \int_step_inline:nn {##1}
134     {
135       \clist_put_right:Ne \l__ltbl_week_accutmp_clist
136       { \clist_item:Nn \l__ltbl_week_ratio_clist {####1} }
137     }
138     \clist_put_right:Ne \l__ltbl_week_accum_clist
139     { \fp_eval:n { \clist_use:Nn \l__ltbl_week_accutmp_clist { + } } }
140   }
141   \fp_set:Nn \l__ltbl_week_num_fp
142   {
143     \clist_item:Nn \l__ltbl_week_accum_clist
144     { \clist_count:N \l__ltbl_week_clist }
145   }
146   \dim_set:Nn \l__ltbl_week_hunit_dim
147   { \fp_eval:n { 14/\l__ltbl_week_num_fp/15 } \paperwidth }
148 }
```

(End of definition for `__ltbl_weeklist:n`.)

`\l__ltbl_time_num_int` The sequence number of the time list, and the vertical gap between the start and end time.

```
\l__ltbl_time_vunit_dim
149 \int_new:N \l__ltbl_time_num_int
150 \dim_new:N \l__ltbl_time_vunit_dim
```

(End of definition for `\l__ltbl_time_num_int` and `\l__ltbl_time_vunit_dim`.)

`__ltbl_timelist:n` Define the auxiliary command of `\timelist`.

```
151 \cs_new_protected_nopar:Npn \__ltbl_timelist:n #1
152 {
153   \clist_set:Nn \l__ltbl_time_clist {#1}
154   \int_set:Nn \l__ltbl_time_num_int { \clist_count:N \l__ltbl_time_clist }
155   \dim_set:Nn \l__ltbl_time_vunit_dim
156   { \fp_eval:n { 1/(2\l__ltbl_time_num_int + 3.5) } \paperheight }
157 }
```


(End of definition for _ltbl_timelist:n.)

\l__ltbl_timelist_shift_dim Store the vertical shift of the sequence number of the time list.

158 \dim_new:N \l__ltbl_timelist_shift_dim

(End of definition for \l__ltbl_timelist_shift_dim.)

_ltbl_maketable:n Define the auxiliary command of the litetable environment.

159 \cs_new_protected_nopar:Npn _ltbl_maketable:n #1

160 {

161 \fill [\l__ltbl_bg_color_tl!5]

162 (current~page.north~west) rectangle +

163 (\paperwidth, -1.5\l__ltbl_time_vunit_dim)

164 node [midway, black, font = \huge \bfseries] {#1};

165 \tl_if_empty:NF \l__ltbl_bg_sem_tl

166 {

167 \node [shift = {(-.02\paperwidth, -.75\l__ltbl_time_vunit_dim)},

168 left, rectangle, fill = DarkBlue!10, text = DarkBlue!60,

169 inner~sep = 2ex, rounded~corners = 8pt, font = \large

170] at (current~page.north~east) { \l__ltbl_bg_sem_tl };

171 }

172 \int_step_inline:nnnn { 0 } { 2 } { \l__ltbl_time_num_int }

173 {

174 \filldraw [fill = \l__ltbl_bg_color_tl!5, thick,

175 draw = gray, \l__ltbl_hline_type_tl]

176 ([shift =

177 {(-.4pt, \fp_eval:n { -2 * ##1 - 2.5 } \l__ltbl_time_vunit_dim)}]

178 [current~page.north~west

179) rectangle + (\paperwidth + .8pt, -2\l__ltbl_time_vunit_dim);

180 }

181 \bool_if:NTF \l__ltbl_timelist_hidetime_bool

182 {

183 \dim_set:Nn \l__ltbl_timelist_shift_dim

184 { -1.5\l__ltbl_time_vunit_dim }

185 }

186 {

187 \dim_set:Nn \l__ltbl_timelist_shift_dim

188 { -\l__ltbl_time_vunit_dim }

189 }

190 \int_step_inline:nn { \l__ltbl_time_num_int }

191 {

192 \node [darkgray!80, shift =

193 {(

194 \paperwidth/30,

195 -2 * ##1 \l__ltbl_time_vunit_dim +

196 \l__ltbl_timelist_shift_dim

197)}, font = \large \l__ltbl_timelist_numformat_tl

198] at (current~page.north~west) {##1};

199 }

200 \bool_if:NF \l__ltbl_timelist_hidetime_bool

201 {

202 \int_step_inline:nn { \clist_count:N \l__ltbl_time_clist }

203 {

204 _ltbl_get_left:eN { \clist_item:Nn \l__ltbl_time_clist {##1} }

```

205         \l__ltbl_tmpa_tl
206         \__ltbl_get_right:eN { \clist_item:Nn \l__ltbl_time_clist {##1} }
207         \l__ltbl_tmpb_tl
208         \node [ gray, align = center, shift =
209             {(
210                 \paperwidth/30,
211                 \fp_eval:n { -1.85 - 2 * ##1 } \l__ltbl_time_vunit_dim
212             )}, font = \l__ltbl_timelist_timeformat_tl
213             ] at (current~page.north~west)
214             { \l__ltbl_tmpa_tl\ \l__ltbl_tmpb_tl };
215     }
216 }
217 \int_step_inline:nn { \clist_count:N \l__ltbl_week_clist }
218 {
219     \int_compare:nNnF {##1} = { \clist_count:N \l__ltbl_week_clist }
220     {
221         \node [ shift =
222             {(\fp_eval:n
223                 {
224                     14 * \clist_item:Nn \l__ltbl_week_accum_clist {##1}/
225                     \l__ltbl_week_num_fp/15 + 1/15
226                 } \paperwidth, -2\l__ltbl_time_vunit_dim
227             )}, darkgray, font = \ttfamily
228             ] at (current~page.north~west) { \l__ltbl_weeklist_sep_tl };
229     }
230     \__ltbl_get_left:eN { \clist_item:Nn \l__ltbl_week_clist {##1} }
231     \l__ltbl_tmpa_tl
232     \node [ shift =
233         {(\fp_eval:n
234             {
235                 14(
236                     \clist_item:Nn \l__ltbl_week_accum_clist {##1} -
237                     \clist_item:Nn \l__ltbl_week_ratio_clist {##1}/2
238                 )/\l__ltbl_week_num_fp/15 + 1/15
239             } \paperwidth, -2\l__ltbl_time_vunit_dim
240             )}, font = \large \l__ltbl_weeklist_format_tl
241         ] at (current~page.north~west) { \l__ltbl_tmpa_tl };
242     }
243 }

```

(End of definition for __ltbl_maketable:n.)

\l__ltbl_course_shift_dim Store the vertical shift of the course subject in course box.

```

244 \dim_new:N \l__ltbl_course_shift_dim

```

(End of definition for \l__ltbl_course_shift_dim.)

__ltbl_course_box_aux:nn Define the auxiliary command of \course.

```

245 \cs_new_protected_nopar:Npn \__ltbl_course_box_aux:nn #1#2
246 {
247     \begin{scope}
248     \clip [ preaction = { draw, ultra~thick, \l__ltbl_course_color_tl!60 },
249             preaction = { fill, \l__ltbl_course_color_tl!10 },
250             rounded~corners = 8pt ]
251     ([shift =

```

```

252 {(
253   \fp_eval:n
254   {
255     \clist_item:Nn \l__ltbl_week_accum_clist
256     { \l__ltbl_weekday_int } -
257     \clist_item:Nn \l__ltbl_week_ratio_clist
258     { \l__ltbl_weekday_int }
259     } \l__ltbl_week_hunit_dim + \paperwidth/15 + 1.2pt,
260     \fp_eval:n { -.5 - 2 * #1 } \l__ltbl_time_vunit_dim - 1.2pt
261   )][current~page.north~west) rectangle +
262   (
263     \clist_item:Nn \l__ltbl_week_ratio_clist
264     { \l__ltbl_weekday_int } \l__ltbl_week_hunit_dim - 2.4pt,
265     \fp_eval:n { 2(#1 - #2 - 1) } \l__ltbl_time_vunit_dim + 2.4pt
266   );
267 \fill [ \l__ltbl_course_color_tl!60 ]
268 ([shift =
269   {(
270     \fp_eval:n
271     {
272       \clist_item:Nn \l__ltbl_week_accum_clist
273       { \l__ltbl_weekday_int } -
274       \clist_item:Nn \l__ltbl_week_ratio_clist
275       { \l__ltbl_weekday_int }
276       } \l__ltbl_week_hunit_dim + \paperwidth/15,
277       \fp_eval:n { -.5 - 2 * #1 } \l__ltbl_time_vunit_dim
278     )][current~page.north~west) rectangle +
279     (
280       \clist_item:Nn \l__ltbl_week_ratio_clist
281       { \l__ltbl_weekday_int } \l__ltbl_week_hunit_dim,
282       -\l__ltbl_time_vunit_dim/2
283     );
284 \end{scope}
285 \int_compare:nNnTF {#1} = {#2}
286 {
287   \bool_lazy_and:nnTF
288   { \tl_if_empty_p:N \l__ltbl_course_location_tl }
289   { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
290   { \tl_set:Nn \l__ltbl_course_anchor_tl { } }
291   { \tl_set:Nn \l__ltbl_course_anchor_tl { above } }
292 \node
293 [ \l__ltbl_course_anchor_tl, \l__ltbl_course_color_tl!60, shift =
294   {(
295     \fp_eval:n
296     {
297       \clist_item:Nn \l__ltbl_week_accum_clist
298       { \l__ltbl_weekday_int } -
299       \clist_item:Nn \l__ltbl_week_ratio_clist
300       { \l__ltbl_weekday_int }/2
301       } \l__ltbl_week_hunit_dim + \paperwidth/15,
302       \fp_eval:n { -1.75 - #1 - #2 } \l__ltbl_time_vunit_dim
303     )}, align = center, font = \bfseries
304   ] at (current~page.north~west) { \l__ltbl_course_subject_tl };
305 \bool_lazy_or:nnTF

```

```

306 { \tl_if_empty_p:N \l__ltbl_course_location_tl }
307 { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
308 { \tl_set:Nn \l__ltbl_s@course_sep_tl { } }
309 { \tl_set:Nn \l__ltbl_s@course_sep_tl { ,~ } }
310 \node
311 [ shift =
312   {(
313     \fp_eval:n
314     {
315       \clist_item:Nn \l__ltbl_week_accum_clist
316       { \l__ltbl_weekday_int } -
317       \clist_item:Nn \l__ltbl_week_ratio_clist
318       { \l__ltbl_weekday_int }/2
319       } \l__ltbl_week_hunit_dim + \paperwidth/15,
320     \fp_eval:n { -1.75 - #1 - #2 } \l__ltbl_time_vunit_dim
321   )}, below, \l__ltbl_course_color_tl!60, align = center
322 ] at (current~page.north~west)
323 {
324   \l__ltbl_course_location_tl
325   \l__ltbl_s@course_sep_tl
326   \l__ltbl_course_lecture_tl
327 };
328 }
329 {
330   \bool_lazy_and:nnTF
331   { \tl_if_empty_p:N \l__ltbl_course_location_tl }
332   { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
333   {
334     \tl_set:Nn \l__ltbl_course_anchor_tl { }
335     \dim_set:Nn \l__ltbl_course_shift_dim { 0pt }
336   }
337   {
338     \tl_set:Nn \l__ltbl_course_anchor_tl { above }
339     \dim_set:Nn \l__ltbl_course_shift_dim { \l__ltbl_time_vunit_dim/8 }
340   }
341 \node
342 [ \l__ltbl_course_color_tl!60, align = center, shift =
343   {(
344     \fp_eval:n
345     {
346       \clist_item:Nn \l__ltbl_week_accum_clist
347       { \l__ltbl_weekday_int } -
348       \clist_item:Nn \l__ltbl_week_ratio_clist
349       { \l__ltbl_weekday_int }/2
350       } \l__ltbl_week_hunit_dim + \paperwidth/15,
351     \fp_eval:n { -1.5 - #1 - #2 } \l__ltbl_time_vunit_dim +
352     \l__ltbl_course_shift_dim
353   )}, font = \large \bfseries, \l__ltbl_course_anchor_tl
354 ] at (current~page.north~west) { \l__ltbl_course_subject_tl };
355 \bool_lazy_or:nnTF
356 { \tl_if_empty_p:N \l__ltbl_course_location_tl }
357 { \tl_if_empty_p:N \l__ltbl_course_lecture_tl }
358 { \tl_set:Nn \l__ltbl_course_sep_tl { } }
359 { \tl_set:Nn \l__ltbl_course_sep_tl { \ } }

```

```

360 \node
361 [ shift =
362 {(
363 \fp_eval:n
364 {
365 \clist_item:Nn \l__ltbl_week_accum_clist
366 { \l__ltbl_weekday_int } -
367 \clist_item:Nn \l__ltbl_week_ratio_clist
368 { \l__ltbl_weekday_int }/2
369 } \l__ltbl_week_hunit_dim + \paperwidth/15,
370 \fp_eval:n { -1.625 - #1 - #2 } \l__ltbl_time_vunit_dim
371 )}, below, \l__ltbl_course_color_tl!60, align = center
372 ] at (current~page.north~west)
373 {
374 \l__ltbl_course_location_tl
375 \l__ltbl_course_sep_tl
376 \l__ltbl_course_lecture_tl
377 };
378 \node
379 [ shift =
380 {(
381 \clist_item:Nn \l__ltbl_week_accum_clist
382 { \l__ltbl_weekday_int } \l__ltbl_week_hunit_dim +
383 \paperwidth/15,
384 \fp_eval:n { -2.5 - 2 * #2 } \l__ltbl_time_vunit_dim
385 )}, above~left, \l__ltbl_course_color_tl!60, outer~sep = .5ex
386 ] at (current~page.north~west) { \l__ltbl_course_comment_tl };
387 }
388 }

(End of definition for \__ltbl_course_box_aux:nn.)

389 \file_input_stop:
390 </package>

```

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