

Chapter 1

Sample

1. This is a sample block of text designed to test `\index`, the layout of the `index` (`theindex` environment) and any indexing application, such as `makeindex` or `xindy`. This text is just filler (produced using `\testidx` provided by the `testidx` package) to pad out the document with instances of `\index` interspersed throughout. You can use it, for example, to test an indexing package, such as `makeidx` or `imakeidx`, or to test a `makeindex` style file or `xindy` module. You can find out more information from the `testidx` user manual, which can be accessed using the `texdoc` application. This block starts a range that is closed in block 16. ^{padding, see also filler}

2. The `testidx` package doesn't make any modifications to `\index` or `theindex`. All visual effects in this dummy text are produced using markup commands provided solely for this purpose that internally use `\index` or, more specifically, internally use `\tstindex`, which is defined to use `\index` (so you can redefine `\tstindex` if you have multiple indexes). This package doesn't attempt to parse or otherwise interpret the argument of `\index`, nor does it attempt to produce a well-designed index. Its purpose is to help you test your chosen design, which is easier to do with a relatively small test document, than with a large book. The dummy text is intended to produce an index that is at least three pages long to allow you to test the page headers and footers in a two-sided document. You can hide the visual effects with the `hidemarks` package option.

3. The actual place where the `\index` command occurs in this dummy text is marked with the symbol `\tstidxmarker` if there is no range or cross-reference. The word or phrase adjacent to this marker is the text being indexed.¹ A sub-entry is indicated with the symbol `\tstidxsubmarker` and a sub-sub-entry is indicated with the symbol `\tstidxsubsubmarker`. If an `encap` value is provided, both the `text` and the `marker` are typeset in the argument of the corresponding command. (The text occurring in the document is also typeset within the argument of `\tstidxtext`. The default value is to use a dark grey, but since the default values for the predefined `encaps` used in this text all change the colour, the dark grey will only apply where the `encap` hasn't been set.) There are three `encap` values used throughout this dummy text (unless you've used the `notestencaps` package option): `tstidxencapi`, `tstidxencapii` and `tstidxencapiii`. (The default values use `\textcolor`, so you might want to use the `hidelinks` option if you want

¹The `\index` command may occur before or after the word or phrase being indexed in this dummy text, but there's no space between the marker and the term being indexed. Always remember not to surround your `\index` usage with spaces. Keep it flush against the term being indexed and only have a space on one side. Incidentally, this footnote text was produced using the command `\tstidxfootnote`, which you can redefine as required. (It defaults to just `\footnote`.)

to use the `hyperref` package.) A cross-referenced entry (using `see` or `seealso`) is identified using the marker `^` (`\tstidxseemark`) and the cross-referenced information is displayed as a marginal note by default, with the term being indexed followed by the cross-reference. For example, `lyuk^` has the marker `·` to show that the word “lyuk” was indexed followed by the marker `^` to show that a cross-reference to `digraph` has also been indexed (with the details shown in the margin). A sub-level cross-reference is identified with the marker `^` (`\tstidxsubseemark`) and the marginal note displays the main term followed by the sub-term (separated by the symbol `▷`). The marker used for the start of a range is `⌈` (`\tstidxopenmarker`) and the marker used for the end of a range is `⌋` (`\tstidxclosemarker`); unless the entry is a sub-level, in which case the marker for the start of the range is `⌈` (`\tstidxopensubmarker`) and the marker used for the end of a range is `⌋` (`\tstidxclosesubmarker`); or for a sub-sub-level `⌈` (`\tstidxopensubsubmarker`) and `⌋` (`\tstidxclosesubsubmarker`). There are no tests for any further sub-levels. Although `xindy` allows more than three levels (`makeindex` doesn’t), it’s somewhat excessive to go below a sub-sub-level. You’ll have to add your own tests for anything deeper. Watch out for lonely sub-items.

4. Here’s an example of the start of a range⁴ but remember that a range must also have an end, so make sure that block 9 has been included in this `dummy text`, which closes this example. If you want more detail, you can use the `verbose` package option which will show the argument being passed to `\tstindex` but be warned that it will cause overfull lines.

5. Now that the preliminaries have been dispensed with in the previous paragraph’s, we can get on to some serious `waffle` to act as `filler` text because this really needs some padding in order to get a decent sized index with lots of locations. I did consider using just plain old `lorem ipsum` (like the `lipsum` package), but it gets a bit boring after a while, and it’s easier to check the indexing has been performed successfully if you can understand the text. Of course, this doesn’t help those who don’t know any English, but at least they’re no worse off than they would have been with random gibberish⁵, at least, I hope not. In other words, if I could just clarify what I’m trying to say here, in a confidential and not too roundabout fashion — between you, me and the gatepost — is please don’t consider this to be an illustration⁶ of my stunning wit, eloquence and way with words because I’m shamelessly contravening the creative writing adage (or possibly motto) of cut to the chase, remove excessive verbiage and get to the point. I shall take care to hide this drivel from my `creative writing` tutor and fellow writers, so `keep mum`⁷ and don’t grass on me because that just won’t be fair, and it might distress them to a certain extent. I shall not be assailed by indecision and will aspire to find the `mot juste`. Where was I? Oh, yes, padding. I’m trying to make this paragraph quite long, not because I have any pretensions of being the next James Joyce and competing with `Ulysses`, but because one of the things we need to check for is what happens with paragraphs that span a page break. (If you’re feeling particularly daring, try out the starred version of `\testidx`, although some of the blocks, such as block 6, have some sneaky paragraph breaks that won’t be suppressed.) T_EX’s asynchronous `output routine` can cause things to go a bit `out of whack`, so lengthy paragraphs in this `example` document increase the chances of testing for these occurrences. Whether or not this particular paragraph actually spans a page break does, of course, depend on various things including your document properties, such as the page dimensions, font family and font size. If it turns out that this `paragraph` has spanned a page break, you might want to check the terms indexed here to make sure they have the correct page numbers listed. Something else that you might want to check, while you’re at it, is what’s happened to the `location list`⁸ for the word “`paragraph`”, as I’ve used different `encap` values for it in various places in this example: `paragraph`. If you are using `makeindex`, you might notice some

⁴lyuk, see also digraph

⁵gobbledegook, see gibberish

⁶illustration, see also example

⁷keep mum, see also confidential

⁸location list, see also cross-reference

warnings about multiple encaps, and the page number may be duplicated in the location list. If you are using `xindy`, then it will discard duplicate page numbers and give preference to the first defined attribute in whatever `xindy` module you're using. However, be careful if a `range` overlaps a different encaps. Remember that there's a difference between an index and a concordance. If you just index pertinent places, there's less likelihood of conflicting encaps. This is the end of a paragraph that was written to deliberately upset `makeindex`. Mean, aren't I?

6. On the subject of `xindy`, if you want to use it with this example document, you'll need to add the encaps values used in this dummy text as allowed attributes. For example, you may want to create a file called, say, `sample-idx-letter.xdy` that contains the following:

```
; list of allowed attributes
(define-attributes (( "tstidxencapi" "tstidxencapii" "tstidxencapiii" )))
; define format to use for locations
(markup-locref :open "\tstidxencapi{" :close "}" :attr "tstidxencapi")
(markup-locref :open "\tstidxencapii{" :close "}" :attr "tstidxencapii")
(markup-locref :open "\tstidxencapiiii{" :close "}" :attr "tstidxencapiiii")
```

This sets up allowed encaps values and how they should be formatted. The ordering of the allowed attributes here gives the `tstidxencapi` encaps precedence in the event of a multiple encaps clash, since it's the first one in the list. You can then run `xindy` using:

```
xindy -L english -C utf8 -M sample-idx-letter.xdy -M texindy -t
sample-idx-letter.ilg sample-idx-letter.idx
```

You might also want to set the location list page separator and the range separator in your `.xdy` file. For example:

```
(markup-locref-list :sep ", ")
(markup-range :sep "--")
```

Check out the difference between using `xindy` and `makeindex` on this document. On the subject of location lists, the word *passim* (meaning “here and there”) is sometimes used to tidy up ragged lists. For example, the locations “1, 3, 4, 6, 7” may look neater as “1-7 *passim*”, which indicates references are scattered (here and there) throughout that range.

7. Computer algorithms can sometimes have difficulties with localisation. They can be tripped up by input encoding issues and digraphs (such as the Welsh *ll* digraph in *llan*, the Dutch *ij* digraph in *lijnbus* and *ijsvrij*, and the *dz* digraph in the Hungarian *dzéta* and Polish *dzwon*) or trigraphs (such as the Hungarian *dzs* trigraph in *dzsóker* and *dzsungel*), so this paragraph is designed to provide some examples for testing various Latin alphabets. If you enable both UTF-8 (either with `inputenc` or using XeLaTeX/LuaLaTeX) and the `digraphs` option, then the examples above will use the “ll”, “ij” and “dz” glyphs (*if supported*) for the digraphs (but not for “dzs”, which is a trigraph). Remember that you'll also need a font that supports those glyphs. Other digraphs include the Welsh *dd*, *ff*, and *ng*; the Hungarian *ly* (in *lyuk* mentioned earlier) and the Polish *cz*, but these don't use glyphs in the sort value. Now for some more nonsense text to pad the index. We, the élite who discovered the aesthetic delights of T_EX, must not become blasé about being the protégé of the great Donald Knuth. It may stagger the clientèle of the commercial world to discover our résumé (after foraging for it in our natty attaché case) while we

^range separator,
see location list

^dzsungel, see also
trigraph

sample a vol-au-vent or two at the soirée in the pied-à-terre with the delightful phoenix-themed décor, daft oak dado rail and faerie façade that has stunned many an æthereal débutante sporting a bergère hat, but it would be naïve to fall for such a foetid cliché. This paragraph is in a state of déshabillé. Like a sculpture of Venus in a négligée, it's transparently obvious that this paragraph is provided for the sole purpose of ogling extended Latin characters and testing how `xindy` and `makeindex` compare. Time for a quick trip to the café for an anæmic cup of tea (to recover from our travels) with Anders Jonas Ångström (but don't let it scald your œsophagus) and then off to find a zoo in Östergötland, so we can get to the end of the alphabet. (We may even see an adventurous aardvark or a lucky llama or a rhinoceros eating rhubarb.) Perhaps then we should go over to Ängelholm and head off across the Øresund bridge and resume our search for some more examples. We'll go on a whistle-stop tour around Tårnby, Rødovre, Næstved and Ølstykke-Stenløse. Afterwards, we'll fly to Poland (possibly in an aeroplane — if passengers would like to look out of their window, they'll see we're passing over ABlar and Bad Gottleuba-Berggießhübel) and then we'll say “cześć” to Łódź, and visit [a place with an ogonek has been omitted because this document is using the default OT1 font encoding — try loading the `fontenc` package with the `T1` option], Żory, Żelechów, Łobez, Głogów (not to be confused with Glasgow), Ćmielów, Ścinawa and Świdnica. Then let's sail to Iceland (possibly in a ship) and visit the lakes of Iceland, such as Ölvesvatn, Úlfsvatn, Ánavatn, Másvatn, [a couple of lakes with a thorn and an eth have been omitted because this document is using the default OT1 font encoding — try loading `fontenc` with the `T1` option], Grænavatn, Árneslón and Íshólsvatn. If you are using this with `xindy` and UTF-8, try this out with a different language option, for example `-L swedish` or `-L danish` or `-L german-duden` or `-L german-din5007` or `-L polish` or `-L icelandic`. If you want to use `makeindex` instead of `xindy`, then the package option `german` or `ngerman` will allow you to use `makeindex`'s `-g` option. You currently have the `sanitize` option on. This means that the words containing UTF-8 characters will first be sanitized before being passed to `\tstindex`, which will allow you to test how well the indexing application sorts UTF-8 characters. If you'd rather test how `\index` writes these characters to the file read by the indexing application, use the `nosanitize` option instead. This may cause the UTF-8 characters to be written in terms of `\IeC`.

s. Don't forget there's also a number group, so let's have some numbers. *The Hitchhiker's Guide to the Galaxy* has of course propelled the number 42 to stardom, as the answer to life, the universe and everything. We usually deal in base 10, but sometimes base 16 is useful to programmers, and computers prefer base 2 (and 2 is the only even prime number). A century in cricket means 100 runs, and in the calendar 100 years. If you're using `xindy`, you can provide a numbers group by adding the following to your `.xdy` module:

```
(define-letter-group "Numbers"
:prefixes ("0" "1" "2" "3" "4" "5" "6" "7" "8" "9")
:before "A")
```

Whilst we're on the subject of numbers, let's try out some equations.

$$E = mc^2 \tag{1.1}$$

gawping, see ogling

fontenc package, see also inputenc

This document doesn't load the `amsmath` package, so let's try out the `eqnarray` environment:

$$f(\vec{x}) = \alpha \sum_i^n x_i + \beta \sum_i^n x_i^2 + \gamma \quad (1.2)$$

$$\frac{\partial f}{\partial x_j} = \alpha + 2\beta x_j \quad (1.3)$$

(Note how the subscripts and superscripts can be affected by material inserted between the symbol and the sub- and superscripts.) If you load the `amsmath` package, we'll test the `align` environment instead. Incidentally, that's just a regular partial derivative symbol ∂ . Not to be confused with the spin-weighted partial derivative [you need the `amssymb` package for that symbol]. Now I've been a bit fancy here and inserted `>` in front of the sort key so I can get `xindy` to create a special group for the maths symbols. Here's the code you can add to your `.xdy` file to implement it:

```
(define-letter-group "Maths" :prefixes (">") :before "Numbers")
```

I've done something similar with the marker `s` where I've used `<` as the prefix.

9. Let's re-cover old ground and talk about ranges again. This is the end of the range example from block 4. There's not much else to say about this block really. It's quite boring, isn't it? However, you'll need it if you've included block 4. Unless you're testing for a mis-matched range, of course. That might be quite interesting, possibly, but I'm not going to hold my breath.

10. Now this is going to be hard to believe—in fact I'm totally gobsmacked and utterly astounded—but I've discovered that we're still missing some letter groups, and I've run out of anything quaint to say, so I'm going to have to yatter for a while longer, which will probably make you yawn and fall asleep. What shall we talk about? My quirky badinage is about to expire. How about a story? Here's one I made up for my friend Paulo Cereda in `TeX.SE` chat because he likes ducks and is the creator of `arara`. So, are you sitting comfortably? Then let's begin. By the way, before I forget, it's called *Sir Quackalot and the Golden Arara* and is the first story in *The Adventures of Sir Quackalot*. It's a tale of adventure and derring-do. The hero of the story is Sir Quackalot, in case you can't tell from the title. Once upon a time, a long time ago in a far away land, there lived a knight. He was handsome, he was bold, he was brave. He was—a duck. His name was Sir Quackalot. One day the Fairy Goose appeared. “Brave knight,” she said. “A terrible plight has fallen on the land. The evil OgRe has stolen the Golden Arara. Only you can save it.” (That's a reference to `TeX`'s output routine, if you missed it.) “It will be a perilous quest, but find the Mighty Helm of Knuth and the Legendary Sword-xor to aid you.” (Ask David Carlisle about the `xor` reference.)

11. So Sir Quackalot set out on his quest. (This is the continuation from the previous block, for any newcomers who have just turned up.) He soon arrived at the Bog of Eternal Glossaries (that's a reference to my `glossaries` package, and it's also a nod to the Bog of Eternal Stench in *Labyrinth*), in the centre (or center for those of you across the pond) of which was suspended the Mighty Helm of Knuth, but Sir Quackalot was learned in the lore of installing `Perl` and was able to leap upon the magical raft `makeglossaries` and steer his way through the external-indexing applications and their many arguments. (That's supposed to be a pun, but it's bad form to explain the joke, and it wasn't even particularly witty. Incidentally, Joseph Wright makes a cameo at this point with the exclamation “fetchez la vache!” but you'll have to ask Paulo Cereda what that's all about. It wouldn't surprise me if it had something to do with Monty Python.)

12. Anyway, where were we? Oh, yes. He (that’s Sir Quackalot, we’re talking about, if you’ve only just joined us) snatched up the Mighty Helm of Knuth and escaped from the perilous bog. Soon he came to the Dread Vale of the Editors, guarded at either end by the ever-quarrelling leviathans Emacs and Vi. As he approached the vale, Emacs uttered the magic incantation that sent forth the butterflies of chaos. (I know “doom” is more appropriate but, as is common knowledge, chaos is a butterfly motif.)

13. But Sir Quackalot was protected by the Mighty Helm of Knuth and raced past into the vale, where he found the Legendary Sword xor in the centre of the great longtable. (Ooh, I’ve started a sentence with a conjunction. How naughty is that?) With a great leap and a bound, Sir Quackalot plucked out the sword and headed for the far end of the vale. Up pounced Vi and belched forth a myriad of clones that bore down on Sir Quackalot. But, brandishing the sword xor, Sir Quackalot sliced them down. (There’s some repetition there, but hopefully no one’s noticed. There’s even more coming up in the next block.)

14. Sir Quackalot escaped from the Dread Vale of the Editors and set off up the path that led to the evil Ogre’s lair. As Sir Quackalot approached, there was a fearful roar, and the Ogre pounced on Sir Quackalot. The brave knight raised his powerful sword xor and brought it down on the Ogre, destroying him. Sir Quackalot rescued the Golden Arara and the land was once more restored to peace and harmony and paragraphs were able to span page breaks without fear. The End. Don’t miss the next thrilling adventure *Sir Quackalot and the Hyper Lake of Doom* where our seaborne intrepid hero meets a quixotic seal with a zither (a zealous fan of *The Third Man*), a youthful sea lion with a magic yo-yo, and a wily wombat warrior with a laser-guided sealant gun. Can they defeat the villainous, zany zoologist sailing a xebec across the sea bearing canisters of xenon, xylem and xylene? Oh, zounds! He’s ashore wearing a zoot suit and smoking a zucchini whilst playing a xylophone. As one anonymous reviewer said, it’s as exhilarating as watching a yuppie eating a yule log soaked in yoghurt. Hmm, yummy — or yuck, depending on your tastes. Don’t forget to check you have some chalk so we can write ddisgyndig and ddyrchafedig in Nghaerdydd (over in Nghymru) because I want a few more words with digraphs, and then we can take a ffotograff of Ffestiniog.

15. Oh, did I tell you about the vice-president who was a Viking in a vignette? No? Well, I can’t quite remember the story myself, but it had something to do with a vice admiral with a Victoria plum and a viceroy with a Victoria sponge, or was it vice versa? The vice chancellor preferred vichyssoise. For letter ordering use the `-l` option with `makeindex` or the `ord/letorder` module with `xindy` (`-M ord/letorder`). If you omit this, the default word ordering is used. The ordering in the *Compact Oxford English Dictionary* (third edition, revised) for these words are: vice admiral, vice chancellor, vice-president, viceregal, viceroy, vice versa. Quick quiz. Can you get `makeindex` or `xindy` to reproduce that order?

16. This is the final block of dummy text provided by the `testidx` package. This block contains the close of a range that was started in block 1. Fun, wasn’t it?

↻hero▷intrepid,
see intrepid hero

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