NAME

texindy − create sorted and tagged index from raw LaTeX index

SYNOPSIS

```
texindy [-V?h] [-qv] [-iglr] [-d magic] [-o outfile.ind] [-t log] \
        [-L lang] [-C codepage] [-M module] [idx0 idx1 ...]
```

GNU-Style Long Options for Short Options:

```
-V / --version
-? / -h / --help
-q / --quiet
-v / --verbose
-i / --stdin
-g / --german
-l / --letter-ordering
-r / --no-ranges
-d / --debug          (multiple times)
-o / --out-file
-t / --log-file
-L / --language
-C / --codepage
-M / --module         (multiple times)
-I / --input-markup   (supported: latex, omega)
```

DESCRIPTION

texindy is the LaTeX-specific command of xindy, the flexible indexing system. It takes a raw index as input, and produces a merged, sorted and tagged index. Merging, sorting, and tagging is controlled by xindy modules, with a convenient set already preloaded.

Files with the raw index are passed as arguments. If no arguments are passed, the raw index will be read from standard input.

A good introductionary description of **texindy** appears in the indexing chapter of the LaTeX Companion (2nd ed.)

If you want to produce an index for LaTeX documents with special index markup, the command *xindy* (1) is probably more of interest for you.

texindy is an approach to merge support for the *make-rules* framework, own xindy modules (e.g., for special LaTeX commands in the index), and a reasonable level of MakeIndex compatibility. There are other older approaches, eventually they will get a description on the xindy Web Site, http://www.xindy.org/.

OPTIONS

`--version` / **-V**
: output version numbers of all relevant components and exit.

`--help` / **-h** / **-?**
: output usage message with options explanation.

`--quiet` / **-q**
: Don't output progress messages. Output only error messages.

`--verbose` / **-v**
: Output verbose progress messages.

`--debug` *magic* / **-d** *magic*
: Output debug messages, this option may be specified multiple times. *magic* determines what is output:

```
magic          remark
---------------------------------------------------------------
script         internal progress messages of driver scripts
keep_tmpfiles  don't discard temporary files
markup         output markup trace, as explained in xindy manual
level=n        log level, n is 0 (default), 1, 2, or 3
```

`--out-file` *outfile.ind* / **-o** *outfile.ind*
: Output index to file *outfile.ind*. If this option is not passed, the name of the output file is the base name of the first argument and the file extension *ind*. If the raw index is read from standard input, this option is mandatory.

`--log-file` *log.ilg* / **-t** *log.ilg*
: Output log messages to file *log.ilg*. These log messages are independent from the progress messages that you can influence with `--debug` or `--verbose`.

`--language` *lang* / **-L** *lang*
: The index is sorted according to the rules of language *lang*. These rules are encoded in a xindy module created by *make-rules*.

  If no input encoding is specified via `--codepage`, a xindy module for that language is searched with a latin, a cp, an iso, or ascii encoding, in that order.

`--codepage` *enc* / B <-C> *enc*
: The raw input is in input encoding *enc*. This information is used to select the correct xindy sort module and also the *inputenc* target encoding for `latex` input markup.

  When `omega` input markup is used, `utf8` is always used as the sort codepage and no inputenc module is loaded. Then this option is ignored.

`--module` *module* / **-M** *module*
: Load the xindy module *module.xdy*. This option may be specified multiple times. The modules are searched in the xindy search path that can be changed with the environment variable `XINDY_SEARCHPATH`.

`--input-markup` *input* / **-I** *input*
: Specifies the input markup of the raw index. Supported values for *input* are `latex` and `omega`.

  `latex` input markup is the one that is emitted by default from the LaTeX kernel, or by the `index` macro package of David Jones. ^^-notation of single byte characters is supported. Usage of LaTeX's *inputenc* package is assumed as well.

  `omega` input markup is like `latex` input markup, but with Omega's ^^-notation as encoding for non-ASCII characters. LaTeX *inputenc* encoding is not used then, and `utf8` is enforced to be the codepage for sorting.

SUPPORTED LANGUAGES / CODEPAGES

The following languages are supported:

Latin scripts

albanian	gypsy	portuguese
croatian	hausa	romanian
czech	hungarian	russian−iso
danish	icelandic	slovak−small
english	italian	slovak−large
esperanto	kurdish−bedirxan	slovenian
estonian	kurdish−turkish	spanish−modern
finnish	latin	spanish−traditional
french	latvian	swedish
general	lithuanian	turkish
german−din	lower−sorbian	upper−sorbian
german−duden	norwegian	vietnamese
greek−iso	polish	

German recognizes two different sorting schemes to handle umlauts: normally, ä is sorted like `ae`, but in phone books or dictionaries, it is sorted like `a`. The first scheme is known as *DIN order*, the second as *Duden order*.

`*−iso` language names assume that the raw index entries are in ISO 8859−9 encoding.

`gypsy` is a northern Russian dialect.

Cyrillic scripts

belarusian	mongolian	serbian
bulgarian	russian	ukrainian
macedonian		

Other scripts

greek	klingon

Available Codepages

This is not yet written. You can look them up in your xindy distribution, in the *modules/lang/language/* directory (where *language* is your language). They are named *variant−codepage−lang.xdy*, where *variant−* is most often empty (for german, it's `din5007` and `duden`; for spanish, it's `modern` and `traditional`, etc.)

```
< Describe available codepages for each language >

< Describe relevance of codepages (as internal representation) for
  LaTeX inputenc >
```

TEXINDY STANDARD MODULES

There is a set of **texindy** standard modules that help to process LaTeX index files. Some of them are automatically loaded. Some of them are loaded by default, this can be turned off with a **texindy** option. Others may be specified as `−−module` argument to achieve a specific effect.

```
xindy Module    Category  Description
```

Sorting

word-order	Default	A space comes before any letter in the alphabet: ``index style'' is listed before ``indexing''. Turn it off with option -l.
letter-order	Add-on	Spaces are ignored: ``index style'' is sorted after ``indexing''.
keep-blanks	Add-on	Leading and trailing white space (blanks and tabs) are not ignored; intermediate white space is not changed.
ignore-hyphen	Add-on	Hyphens are ignored: ``ad-hoc'' is sorted as ``adhoc''.
ignore-punctuation	Add-on	All kinds of punctuation characters are ignored: hyphens, periods, commas, slashes, parentheses, and so on.
numeric-sort	Auto	Numbers are sorted numerically, not like characters: ``V64'' appears before ``V128''.

Page Numbers

page-ranges	Default	Appearances on more than two consecutive pages are listed as a range: ``1--4''. Turn it off with option -r.
ff-ranges	Add-on	Uses implicit ``ff'' notation for ranges of three pages, and explicit ranges thereafter: 2f, 2ff, 2--6.
ff-ranges-only	Add-on	Uses only implicit ranges: 2f, 2ff.
book-order	Add-on	Sorts page numbers with common book numbering scheme correctly -- Roman numerals first, then Arabic numbers, then others: i, 1, A.

Markup and Layout

tex	Auto	Handles basic TeX conventions.
latex-loc-fmts	Auto	Provides LaTeX formatting commands for page number encapsulation.
latex	Auto	Handles LaTeX conventions, both in raw index entries and output markup; implies tex.
makeindex	Auto	Emulates the default MakeIndex input syntax and quoting behavior.
latin-lettergroups	Auto	Layout contains a single Latin letter above each group of words starting with the same letter.
german-sty	Add-on	Handles umlaut markup of babel's german and ngerman options.

COMPATIBILITY TO MAKEINDEX

xindy does not claim to be completely compatible with MakeIndex, that would prevent some of its enhancements. That said, we strive to deliver as much compatibility as possible. The most important incompatibilities are

- For raw index entries in LaTeX syntax, `\index{aaa|bbb}` is interpreted differently. For MakeIndex `bbb` is markup that is output as a LaTeX tag for this page number. For **xindy**, this is a location attribute, an abstract identifier that will be later associated with markup that should be output for that attribute.

  For straight-forward usage, when `bbb` is `textbf` or similar, we supply location attribute definitions that mimic MakeIndex's behaviour.

For more complex usage, when `bbb` is not an identifier, no such compatibility definitions exist and may also not been created with current **xindy**. In particular, this means that by default the LaTeX package `hyperref` will create raw index files that cannot be processed with **xindy**. This is not a bug, this is the unfortunate result of an intented incompatibility. It is currently not possible to get both hyperref's index links and use **xindy**.

A similar situation is reported to exist for the `memoir` LaTeX class.

Programmers who know Common Lisp and Lex and want to work on a remedy should please contact the author.

- The MakeIndex compatibility definitions support only the default raw index syntax and markup definition. It is not possible to configure raw index parsing or use a MakeIndex style file to describe output markup.

ENVIRONMENT

`TEXINDY_AUTO_MODULE`
: This is the name of the xindy module that loads all auto-loaded modules. The default is `texindy`.

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LEGALESE

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