NAME

xindy − create sorted and tagged index from raw index

SYNOPSIS

```
xindy [-V?h] [-qv] [-d magic] [-o outfile.ind] [-t log] \
      [-L lang] [-C codepage] [-M module] [-I input] \
      [--interactive] [--mem-file=xindy.mem] \
      [idx0 idx1 ...]
```

GNU-Style Long Options for Short Options:

```
-V / --version
-? / -h / --help
-q / --quiet
-v / --verbose
-d / --debug          (multiple times)
-o / --out-file
-t / --log-file
-L / --language
-C / --codepage
-M / --module         (multiple times)
-I / --input-markup   (supported: latex, omega, xindy)
```

DESCRIPTION

xindy is the formatter-indepedent 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 style files.

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

xindy is completely described in its manual that you will find on its Web Site, http://www.xindy.org/. A good introductionary description appears in the indexing chapter of the LaTeX Companion (2nd ed.)

If you want to produce an index for LaTeX documents, the command *texindy* (1) is probably more of interest for you. It is a wrapper for **xindy** that turns on many LaTeX conventions by default.

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* / **-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 codepage, this option is then 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`, `omega`, and `xindy`.

  `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.

  `xindy` input markup is specified in the xindy manual.

`--interactive`
: Start xindy in interactive mode. You will be in a xindy read-eval-loop where xindy language expressions are read and evaluated interactively.

`--mem-file` *xindy.mem*
: This option is only usable for developers or in very rare situations. The compiled xindy kernel is stored in a so-called *memory file*, canonically named *xindy.mem*, and located in the xindy library directory. This option allows to use another xindy kernel.

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 >
```

ENVIRONMENT

`XINDY_SEARCHPATH`

A list of directories where the xindy modules are searched in. No subtree searching is done (as in TDS-conformant TeX).

If this environment variable is not set, the default is used: `.:`*modules_dir*`:`*modules_dir*`/base`. *modules_dir* is determined at run time, relative to the **xindy** command location: Either it's *../modules*, that's the case for *opt*-installations. Or it's *../lib/xindy/modules*, that's the case for *usr*-installations.

`XINDY_LIBDIR`

Library directory where *xindy.mem* is located.

The modules directory may be a subdirectory, too.

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.

KNOWN ISSUES

Option **−q** also prevents output of error messages. Error messages should be output on stderr, progress messages on stdout.

There should be a way to output the final index to stdout. This would imply **−q**, of course.

LaTeX raw index parsing should be configurable.

Codepage `utf8` should be supported for all languages, and should be used as internal codepage for LaTeX inputenc re-encoding.

SEE ALSO

texindy (1), *tex2xindy* (1)

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LEGALESE

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