

Manual of robustindex package

Wilberd van der Kallen

April 2018

Introduction

Amazingly often a third party changes the page numbers without rerunning `makeindex`. We therefore want to have an index in which the page numbers automatically synchronise with the document.

The package `robustindex` achieves this by invoking the `\pageref` mechanism on automatically generated labels of the form `ind.2`, `ind.4`, `...`

Only after adding/deleting/modifying an `\index{entry}` command, or after changing the order of `\index{entry}` commands, does one have to rerun `makeindex`. (How would you change the order? By moving a block of text that contains an `\index` command.)

Make sure to run `makeindex` at least once after the last change to the `\index` commands. Keep an eye on the `TEX` log file. It often contains a warning that you need to rerun `LATEX` or `makeindex`.

Standard usage

Put

```
\usepackage{robustindex}

\makeindex
```

in your preamble. If you use the `hyperref` package, go against their advice and put

```
\usepackage{robustindex}
```

after the `hyperref` declaration, *or* turn off `hyperindex` as in

```
\usepackage[plainpages=false,hyperindex=false]{hyperref}.
```

That should be all. (You may have to trash old auxiliary files, the `filename.ind` file included.)

You can now use

```
\index{alpha}

\index{alpha!see beta}
```

```
\index{gamma|textbf}  
\index{ampersand@&|textbf}
```

in the usual manner.

See <https://en.wikibooks.org/wiki/LaTeX/Indexing>.

The symbol | has a special meaning inside an `\index` command and cannot be escaped. To get | as output use the L^AT_EX command `\vert`.

We also have a command `\gobblepageref`, a variant of `\see`, used as in

```
\index{alpha!see also gamma\gobblepageref}
```

Page ranges

Some features of `makeindex` had to be repurposed. In particular, *implicit* page ranges are no longer supported.

If you want a page range in the index you have to use the *explicit* page range mechanism of `makeindex` as in

```
\index{discussion|{}
```

on the first page of the range, followed by

```
\index{discussion|)}
```

on the last page of the range.

Table of contents

If there is a table of contents and you want the index listed in it, put the command

```
\indexincontents
```

somewhere before the `\printindex`.

Before discussing the `multind` option we now use `\printindex` to get an index (on a new page).

Index

< comes before alphabet, [4](#)

alpha, [1](#)
 see also gamma
 see beta, [2](#)

&, [2](#)

discussion, [1–2](#)

gamma, [1](#)

Wilberd, [1](#)

The multind option

The `multind` option provides support for many indexes. Suppose the preamble contains

```
\usepackage[multind]{robustindex}[2018/04/15].  
\makeindex.
```

Let us say we want to use four indexes. First we choose tags to identify them. Say we use the tags `main`, `bis`, `a1`, `b1`. The tag `main` is always known and the index with tag `main` becomes active at the `\begin{document}`.

With the `\setindex` command we activate an index. Thus `\setindex{bis}` tells L^AT_EX that the active index is now the index identified by the tag `bis`, until the next `\setindex` command. The other indexes are inactivated. If a tag has not been encountered before, then a new index with that tag is created. The `\index` command and the `\printindex` commands write to/from the active index. All indexes are hidden in one big index file (with extension `ind`) and L^AT_EX knows how to find the active index in there.

If you wish you may use `\sindex[bis]{entry}` as shorthand for

```
\setindex{bis}\index{entry}
```

and `\sindex{entry}` as shorthand for

```
\setindex{main}\index{entry}.
```

Option `multind` works with the original compilation sequence. That is the main point of all our hacking. For instance, the file `multisample.tex` produces multiple indexes and may be processed in this old fashioned way:

```
latex multisample.tex  
makeindex multisample  
latex multisample.tex  
latex multisample.tex
```

Older versions of `robustindex.sty` may give different results. Use version 2018/04/15 or later. We recommend to bundle `robustindex.sty` with your `filename.tex` and `filename.ind` when moving files to another computer.

If you have an entry that should go before the letter a, then you may start the argument of `\index` with `<`, as in `\index{<@$<$ comes before alphabet}`.

Embellishment

One may embellish an index with letter headings, like this.

```
\setindex{main}  
\renewcommand{\indexname}{Embellished Index}  
\renewcommand{\indexcapstyle}[1]{\indexspace\textsc{#1}\par}  
\printindex
```

This gives

Embellished Index

< comes before alphabet, 4

A

alpha, 1

see also gamma

see beta, 2

&, 2

D

discussion, 1–2

G

gamma, 1

W

Wilberd, 1