The \texttt{scrindex} package

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2016/05/16 v1.2

Abstract

This package redefines environment ‘theindex’ of package \texttt{index}, if a class from KOMA-Script is loaded. Also option \texttt{idxtotoc} is supported. Index preambles can be given either by means of package \texttt{index} or via the interface provided by KOMA-Script.

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1 Documentation

Package \texttt{index}, written by David M. Jones, detects the standard classes \texttt{article}, \texttt{report}, and \texttt{book}. It redefines environment ‘theindex’ for its needs. However, it does not know other classes such as KOMA-Script. This package closes the compatibility gap between KOMA-Script’s classes and package \texttt{index}.

Environment \texttt{theindex} is redefined to support both package \texttt{index} and KOMA-Script’s classes. Thus both the prologue of package \texttt{index} and the preamble of KOMA-Script’s classes are available. Also class option \texttt{idxtotoc} of KOMA-Script is supported.

\textsuperscript{*}Please report any issues at \url{https://github.com/ho-tex/oberdiek/issues}
1.1 Usage

The package `scrinindex` is loaded without options:

\usepackage{scrinindex}

It loads package `index` and requests version 2004/01/20 or later. \LaTeX{}'s package interface allows multiple calls of the same package. The package is loaded at its first package loading command. At later times \LaTeX{} only checks options and a requested version date. Therefore it does not harm to add `\usepackage{index}` before or after `\usepackage{scrinindex}`.

Also the class does not matter. Environment `theindex` is only redifined for a supported class:

- `scratcl`
- `scrreprt`
- `scrbook`

1.2 Preambles

Both the prologue of package `index` and the preamble of KOMA-Script’s classes are supported. The position depends on the class.

1.2.1 Class `scratcl`

\begin{verbatim}
\documentclass{scratcl}
\usepackage{scrinindex}
\setindexpreamble{Preamble of \texttt{scratcl}\dotfill EOL}
\makeindex
\begin{document}
\section{First Section}
\index{first}
\index{section}
\printindex[default]
\[Prologue of package \texttt{index}\dotfill EOL\]
\end{document}
\end{verbatim}

The prologue of package `index` is first set straight after the section title spanning both columns. Then the preamble of KOMA-Script follows in the first left column.

```
<table>
<thead>
<tr>
<th>Index</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Prologue of package index ......................... EOL</td>
<td></td>
</tr>
<tr>
<td>Preamble of <code>scratcl</code>\ldots EOL</td>
<td>first, 1</td>
</tr>
<tr>
<td>section, 1</td>
<td></td>
</tr>
</tbody>
</table>
```

1.2.2 Classes `scrreprt` and `scrbook`

\begin{verbatim}
\documentclass[openany]{scrbook}% or scrreprt
\usepackage{scrinindex}
\setindexpreamble{Preamble of class \texttt{scrbook}\dotfill EOL}
\makeindex
\begin{document}
\chapter{First Chapter}
\index{first}
\index{chapter}
\printindex[default]
\end{document}
\end{verbatim}

```
<table>
<thead>
<tr>
<th>\begin{verbatim}</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>\documentclass[openany]{scrbook}% or scrreprt</td>
<td></td>
</tr>
<tr>
<td>\usepackage{scrinindex}</td>
<td></td>
</tr>
<tr>
<td>\setindexpreamble{Preamble of class \texttt{scrbook}\dotfill EOL}</td>
<td></td>
</tr>
<tr>
<td>\makeindex</td>
<td></td>
</tr>
<tr>
<td>\begin{document}</td>
<td></td>
</tr>
<tr>
<td>\chapter{First Chapter}</td>
<td></td>
</tr>
<tr>
<td>\index{first}</td>
<td></td>
</tr>
<tr>
<td>\index{chapter}</td>
<td></td>
</tr>
<tr>
<td>\printindex[default]</td>
<td></td>
</tr>
</tbody>
</table>
```
The order of the two preambles are different for the classes `scrreprt` and `scrbook`. First KOMA-Script's chapter preamble is set, then the prologue of package `index` follows. Both are set spanning both columns.

<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preamble of class <code>scrbook</code>.......................... EOL</td>
</tr>
<tr>
<td>Prologue of package <code>index</code>.......................... EOL</td>
</tr>
</tbody>
</table>

2 Implementation

\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{scrindex} [2016/05/16 v1.2 Package index with KOMA-Script classes (HO)]
\RequirePackage{index} [2004/01/20]
\@ifclassloaded{scrartcl}{% 
\renewenvironment{theindex}{% 
\edef\indexname{% 
\the\@nameuse{idxtitle@\@indextype}% }% 
}% 
\if@twocolumn
\@restonecolfalse
\else
\@restonecoltrue
\else
\@restonecoltrue
\fi
\@ifclasswith{scrartcl}{idxtotoc}{% 
\renewcommand*{\idx@heading}{% 
\twocolumn[{% 
\addsec{\indexname} %
\ifx\index@prologue\@empty
\else
\index@prologue
\bigskip
\fi
\]}%
\@mkboth{\indexname}{\indexname} %
}%
}\else
%} %
\if@restoneneol
\onecolumn
\else
\clearpage
\fi
\else
%} %
\@ifclasswith{scrartcl}{idxtotoc}{% 
\renewcommand*{\idx@headingtoc}{% 
\twocolumn[% 
\addsec{\indexname}\% 
\ifx\index@prologue\@empty
\else
\index@prologue
\bigskip
\fi
%} %
\@mkboth{\indexname}{\indexname} %
}%
}\else
%}
3 Installation

3.1 Download

Package. This package is available on CTAN:\footnote{\url{CTAN:pkg/scrindex}}:

\url{CTAN:macros/latex/contrib/oberdiek/scrindex.dtx} The source file.
\url{CTAN:macros/latex/contrib/oberdiek/scrindex.pdf} Documentation.

Bundle. All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

\url{CTAN:install/macros/latex/contrib/oberdiek.tds.zip}

TDS refers to the standard “A Directory Structure for \TeX\ Files” (\url{CTAN:pkg/tds}). Directories with \texttt{texmf} in their name are usually organized this way.

3.2 Bundle installation

Unpacking. Unpack the \texttt{oberdiek.tds.zip} in the TDS tree (also known as \texttt{texmf} tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

3.3 Package installation

Unpacking. The \texttt{.dtx} file is a self-extracting \texttt{docstrip} archive. The files are extracted by running the \texttt{.dtx} through plain \TeX:\footnote{\url{CTAN:pkg/scrindex}}.

```
tex scrindex.dtx
```

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as \texttt{texmf} tree):

- \texttt{scrindex.sty} → \texttt{tex/latex/oberdiek/scrindex.sty}
- \texttt{scrindex.pdf} → \texttt{doc/latex/oberdiek/scrindex.pdf}
- \texttt{scrindex-example1.tex} → \texttt{doc/latex/oberdiek/scrindex-example1.tex}
- \texttt{scrindex-example2.tex} → \texttt{doc/latex/oberdiek/scrindex-example2.tex}
- \texttt{scrindex.dtx} → \texttt{source/latex/oberdiek/scrindex.dtx}

If you have a \texttt{docstrip.cfg} that configures and enables \texttt{docstrip}'s TDS installing feature, then some files can already be in the right place, see the documentation of \texttt{docstrip}.

\url{CTAN:pkg/scrindex}
3.4 Refresh file name databases

If your TeX distribution (TeX Live, MiKTeX, ...) relies on file name databases, you must refresh these. For example, TeX Live users run `texhash` or `mktexlsr`.

3.5 Some details for the interested

Unpacking with \LaTeX. The `.dtx` chooses its action depending on the format:

- **plain TeX:** Run `docstrip` and extract the files.
- **\LaTeX:** Generate the documentation.

If you insist on using \LaTeX for `docstrip` (really, `docstrip` does not need \LaTeX), then inform the autodetect routine about your intention:

```
l A TEX \let\install=y\input{scrindex.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with `pdf\LaTeX`:

```
pdflatex scrindex.dtx
makeindex -s gind.ist scrindex.idx
pdflatex scrindex.dtx
makeindex -s gind.ist scrindex.idx
pdflatex scrindex.dtx
```

4 History

[2008/07/07 v1.0]
- First version, also published in newsgroup `de.comp.text.tex`:
  “Re: Zähler bei \index”

[2008/08/11 v1.1]
- Code is not changed.
- URLs updated.

[2016/05/16 v1.2]
- Documentation updates.

5 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

<table>
<thead>
<tr>
<th>Symbols</th>
<th>@idxitem</th>
</tr>
</thead>
<tbody>
<tr>
<td>@empty</td>
<td>62, 74, 119, 136, 181, 198</td>
</tr>
</tbody>
</table>

\[2\text{Url: https://groups.google.com/group/de.comp.text.tex/msg/39575b5e2f29be1e}\]