The \texttt{scindex} package

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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.
1.1 Usage

The package \texttt{scrintex} is loaded without options:

\begin{verbatim}
\usepackage{scrintex}
\end{verbatim}

It loads package \texttt{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 \texttt{\usepackage[index]{index}} before or after \texttt{\usepackage[scrintex].}

Also the class does not matter. Environment \texttt{theindex} is only redefined for a supported class:

- \texttt{scrartcl}
- \texttt{scrreprt}
- \texttt{scrbook}

1.2 Preambles

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

1.2.1 Class \texttt{scrartcl}

\begin{verbatim}
\documentclass{scrartcl}
\usepackage{scrintex}
\setindexpreamble{Preamble of \texttt{scrartcl}\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 \texttt{index} is first set straight after the section title spanning both columns. Then the preamble of KOMA-Script follows in the first left column.

\begin{verbatim}
\[example1\]
\documentclass{scrartcl}
\usepackage{scrintex}
\setindexpreamble{Preamble of \texttt{scrartcl}\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}

1.2.2 Classes \texttt{scrreprt} and \texttt{scrbook}

\begin{verbatim}
\documentclass[openany]{scrbook}% or scrreprt
\usepackage{scrintex}
\setindexpreamble{Preamble of class \texttt{scrbook}\dotfill EOL}
\makeindex
\begin{document}
\chapter{First Chapter}
\index{first}
\index{chapter}
\printindex[default]\% 
[Prologue of package \texttt{index}\dotfill EOL]\
\end{document}
\end{verbatim}
The order of the two preambles are different for the classes \texttt{scrreprt} and \texttt{scrbook}. First KOMA-Script’s chapter preamble is set, then the prologue of package \texttt{index} follows. Both are set spanning both columns.

2 Implementation

2 Implementation
3 Installation

3.1 Download

Package. This package is available on CTAN:\footnote{ftp://ftp.ctan.org/tex-archive/}


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.

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

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

3.2 Bundle installation

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

\begin{verbatim}
unzip oberdiek.tds.zip -d ~/texmf
\end{verbatim}

Script installation. Check the directory TDS:scripts/oberdiek/ for scripts that need further installation steps. Package attachfile2 comes with the Perl script \texttt{pdfatfi.pl} that should be installed in such a way that it can be called as \texttt{pdfatfi}. Example (linux):

\begin{verbatim}
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
\end{verbatim}

3.3 Package installation

Unpacking. The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain TeX:

\begin{verbatim}
tex scrindex.dtx
\end{verbatim}
TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

- `scrindex.sty` → `tex/latex/oberdiek/scrindex.sty`
- `scrindex.pdf` → `doc/latex/oberdiek/scrindex.pdf`
- `scrindex-example1.tex` → `doc/latex/oberdiek/scrindex-example1.tex`
- `scrindex-example2.tex` → `doc/latex/oberdiek/scrindex-example2.tex`
- `scrindex.dtx` → `source/latex/oberdiek/scrindex.dtx`

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

3.4 Refresh file name databases

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

3.5 Some details for the interested

**Attached source.** The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk scrindex.pdf unpack_files output .
```

**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:

```
latex \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 `pdflatex`:

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

4 Catalogue

The following XML file can be used as source for the `TeX Catalogue`. The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `scrindex.xml`.

```
<?xml version='1.0' encoding='us-ascii'?>
```
This package redefines environment `theindex' of package `index',
if a class from \texttt{koma-script}\footnote{URL: http://groups.google.com/group/de.comp.text.tex/msg/39575b5e2f29be1e} is loaded.
Also option `idxtotoc' is supported. Index preambles can be given
either by means of package `index' or via the interface provided
by \texttt{koma-script}\footnote{URL: http://groups.google.com/group/de.comp.text.tex/msg/39575b5e2f29be1e}.

The package is part of the \texttt{oberdiek} bundle.

\section*{5 History}

\textbf{[2008/07/07 v1.0]}
\begin{itemize}
\item First version, also published in newsgroup \texttt{de.comp.text.tex}: \texttt{“Re: Zähler bei \index”} \footnote{Url: http://groups.google.com/group/de.comp.text.tex/msg/39575b5e2f29be1e}
\end{itemize}

\textbf{[2008/08/11 v1.1]}
\begin{itemize}
\item Code is not changed.
\item URLs updated.
\end{itemize}

\section*{6 Index}

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

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<thead>
<tr>
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<th>B</th>
<th>C</th>
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</thead>
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<td>\chapter</td>
</tr>
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