The **scrindex** package

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2008/08/11 v1.1

Abstract

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

Contents

1 Documentation

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

Environment `theindex` is redefined to support both package index and KOMA-Script's classes. Thus both the prologe of package index and the preamble of KOMA-Script's classes are available. Also class option `idxtotoc` of KOMA-Script is supported.

1.1 Usage

The package scrindex is loaded without options:

```
\usepackage{scrindex}
```

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{scrindex}`.

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

- scrartcl

- 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 scrartcl

```
 1 ⟨*example1⟩
 2 \documentclass{scrartcl}
 3 \usepackage{scrindex}
 4 \setindexpreamble{Preamble of \texttt{scrartcl}\dotfill EOL}
 5 \makeindex
 6 \begin{document}
 7 \section{First Section}
 8 \index{first}
 9 \index{section}
10 \printindex[default]%
11    [Prologue of package \texttt{index}\dotfill EOL]%
12 \end{document}
13 ⟨/example1⟩
```

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.

Index	
Prologue of package `index` . . . . EOL	
Preamble of `scrartcl` . . EOL first, 1 section, 1	

1.2.2 Classes scrreprt and scrbook

```
14 ⟨*example2⟩
15 \documentclass[openany]{scrbook}% or scrreprt
16 \usepackage{scrindex}
17 \setindexpreamble{Preamble of class \texttt{scrbook}\dotfill EOL}
18 \makeindex
19 \begin{document}
20 \chapter{First Chapter}
21 \index{first}
22 \index{chapter}
23 \printindex[default]%
```

```
24    [Prologue of package \texttt{index}\dotfill EOL]%
25 \end{document}
26 ⟨/example2⟩
```

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.

Index	
Preamble of class scrbook . . . . EOL	
Prologue of package index . . . . EOL	
chapter, 1 first, 1	

2 Implementation

```
27 ⟨∗package⟩
28 \NeedsTeXFormat{LaTeX2e}
29 \ProvidesPackage{scrindex}
30    [2008/08/11 v1.1 Package index with scr* classes (HO)]%
31 \RequirePackage{index}[2004/01/20]%
32 \@ifclassloaded{scrartcl}{%
33   \renewenvironment{theindex}{%
34     \edef\indexname{%
35       \the\@nameuse{idxtitle@\@indextype}%
36     }%
37     \if@twocolumn
38       \@restonecolfalse
39     \else
40       \@restonecoltrue
41     \fi
42     \idx@heading
43     \thispagestyle{\indexpagestyle}%
44     \columnseprule\z@
45     \columnsep 35\p@
46     \index@preamble\par\nobreak
47     \parindent\z@
48     \parskip\z@ \@plus .3\p@\relax
49     \parfillskip\z@ \@plus 1fil\relax
50     \let\item\@idxitem
51   }{%
52     \if@restonecol
53       \onecolumn
54     \else
55       \clearpage
56     \fi
57   }%
58   \@ifclasswith{scrartcl}{idxtotoc}{%
59     \renewcommand*{\idx@heading}{%
60       \twocolumn[%
61         \addsec{\indexname}%
62         \ifx\index@prologue\@empty
63         \else
64           \index@prologue
65           \bigskip
66         \fi
67       ]%
68       \@mkboth{\indexname}{\indexname}%
69     }%
70   }{%
```

```latex
71    \renewcommand*{\idx@heading}{%
72      \twocolumn[%
73        \section*{\indexname}%
74        \ifx\index@prologue\@empty
75        \else
76          \index@prologue
77          \bigskip
78        \fi
79      ]%
80      \@mkboth{\indexname}{\indexname}%
81    }%
82  }%
83 }{}

84 \@ifclassloaded{screprt}{%
85   \renewenvironment{theindex}{%
86     \edef\indexname{%
87       \the\@nameuse{idxtitle@\@indextype}%
88     }%
89     \if@twocolumn
90       \@restonecolfalse
91     \else
92       \@restonecoltrue
93     \fi
94     \setchapterpreamble{\index@preamble}%
95     \idx@heading
96     \thispagestyle{\indexpagestyle}%
97     \columnseprule\z@
98     \columnsep 35\p@
99     \parindent\z@
100    \parskip\z@ \@plus .3\p@\relax
101    \parfillskip\z@ \@plus 1fil\relax
102    \let\item\@idxitem
103  }{%
104    \if@restonecol
105      \onecolumn
106    \else
107      \clearpage
108    \fi
109  }%
110  \@ifclasswith{screprt}{idxtotoc}{%
111    \renewcommand*{\idx@heading}{%
112      \if@openright
113        \cleardoublepage
114      \else
115        \clearpage
116      \fi
117      \twocolumn[%
118        \addchap{\indexname}%
119        \ifx\index@prologue\@empty
120        \else
121          \index@prologue
122          \bigskip
123        \fi
124      ]%
125      \@mkboth{\indexname}{\indexname}%
126    }%
127  }{%
128    \renewcommand*{\idx@heading}{%
129      \if@openright
130        \cleardoublepage
131      \else
132        \clearpage
```

```latex
133        \fi
134        \twocolumn[%
135          \chapter*{\indexname}%
136          \ifx\index@prologue\@empty
137          \else
138            \index@prologue
139            \bigskip
140          \fi
141        ]%
142        \@mkboth{\indexname}{\indexname}%
143      }%
144    }%
145 }{}
146 \@ifclassloaded{scrbook}{%
147    \renewenvironment{theindex}{%
148      \edef\indexname{%
149        \the\@nameuse{idxtitle@\@indextype}%
150      }%
151      \if@twocolumn
152        \@restonecolfalse
153      \else
154        \@restonecoltrue
155      \fi
156      \setchapterpreamble{\index@preamble}%
157      \idx@heading
158      \thispagestyle{\indexpagestyle}%
159      \columnseprule\z@
160      \columnsep 35\p@
161      \parindent\z@
162      \parskip\z@ \@plus .3\p@\relax
163      \parfillskip\z@ \@plus 1fil\relax
164      \let\item\@idxitem
165    }{%
166      \if@restonecol
167        \onecolumn
168      \else
169        \clearpage
170      \fi
171    }%
172    \@ifclasswith{scrbook}{idxtotoc}{%
173      \renewcommand*{\idx@heading}{%
174        \if@openright
175          \cleardoublepage
176        \else
177          \clearpage
178        \fi
179        \twocolumn[%
180          \addchap{\indexname}%
181          \ifx\index@prologue\@empty
182          \else
183            \index@prologue
184            \bigskip
185          \fi
186        ]%
187        \@mkboth{\indexname}{\indexname}%
188      }%
189    }{%
190      \renewcommand*{\idx@heading}{%
191        \if@openright
192          \cleardoublepage
193        \else
194          \clearpage
```

```
195      \fi
196      \twocolumn[%
197        \chapter*{\indexname}%
198        \ifx\index@prologue\@empty
199        \else
200          \index@prologue
201          \bigskip
202        \fi
203      ]%
204      \@mkboth{\indexname}{\indexname}%
205    }%
206  }%
207 }{}

208 ⟨/package⟩
```

3 Installation

3.1 Download

Package.   This package is available on CTAN[1]:

CTAN:macros/latex/contrib/oberdiek/scrindex.dtx The source file.

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.

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 `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 `texmf` tree) of your choice. Example (linux):

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

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

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

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:

```
tex scrindex.dtx
```

---

[1]ftp://ftp.ctan.org/tex-archive/

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 History

[2008/07/07 v1.0]

- First version, also published in newsgroup de.comp.text.tex: "Re: Zähler bei \index"[2]

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[2]Url: http://groups.google.com/group/de.comp.text.tex/msg/39575b5e2f29be1e

[2008/08/11 v1.1]

- Code is not changed.

- URLs updated.

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; numbers in roman refer to the code lines where the entry is used.