

The `scrindex` package

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Abstract

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

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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 compatibility 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 prologue of package `index` and the preamble of KOMA-Script’s classes are available. Also class option `idxotoc` of KOMA-Script is supported.

*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

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 <code>scrartcl</code> 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 <code>scrbook</code>	EOL
Prologue of package <code>index</code>	EOL
chapter, 1	
first, 1	

2 Implementation

```

27 \*package
28 \NeedsTeXFormat{LaTeX2e}
29 \ProvidesPackage{scrindex}
30 [2016/05/16 v1.2 Package index with KOMA-Script 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}{idx@toc}{%
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 }{%

```

```

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{scrreprt}{%
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{scrreprt}{idx@toc}{%
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

```

```

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 \end{package}

```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

[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 T_EX 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 T_EX:

```
tex scrindex.dtx
```

¹<http://ctan.org/pkg/scrindex>

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 `mktextlsr`.

3.5 Some details for the interested

Unpacking with L^AT_EX. The `.dtx` chooses its action depending on the format:

plain T_EX: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), 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 [T_EX 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`.

```
209 (*catalogue)
210 <?xml version='1.0' encoding='us-ascii'?>
211 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
212 <entry datestamp='$Date$' modifier='$Author$' id='scrindex'>
213   <name>scrindex</name>
214   <caption>Make index package work with Koma-script classes.</caption>
215   <authorref id='auth:oberdiek'/>
216   <copyright owner='Heiko Oberdiek' year='2008'/>
217   <license type='lppl1.3'/>
```

```

218 <version number='1.2'/>
219 <description>
220   This package redefines environment `theindex' of package `index',
221   if a class from <xref refid='koma-script'>KOMA-Script</xref> is loaded.
222   Also option `idxtotoc' is supported. Index preambles can be given
223   either by means of package `index' or via the interface provided
224   by <xref refid='koma-script'>KOMA-Script</xref>.
225   <p/>
226   The package is part of the <xref refid='oberdiek'>oberdiek</xref>
227   bundle.
228 </description>
229 <documentation details='Package documentation'
230   href='ctan:/macros/latex/contrib/oberdiek/scrindex.pdf'/>
231 <ctan file='true' path='/macros/latex/contrib/oberdiek/scrindex.dtx'/>
232 <miktex location='oberdiek'/>
233 <texlive location='oberdiek'/>
234 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
235 </entry>
236 </catalogue>

```

5 History

[2008/07/07 v1.0]

- First version, also published in newsgroup [de.comp.text.tex](#):
“[Re: Zähler bei \index](#)”²

[2008/08/11 v1.1]

- Code is not changed.
- URLs updated.

[2016/05/16 v1.2]

- Documentation updates.

6 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.

Symbols		B	
<code>\@empty</code>	62, 74, 119, 136, 181, 198	<code>\begin</code>	6, 19
<code>\@idxitem</code>	50, 102, 164	<code>\bigskip</code>	65, 77, 122, 139, 184, 201
<code>\@ifclassloaded</code>	32, 84, 146	C	
<code>\@ifclasswith</code>	58, 110, 172	<code>\chapter</code>	20, 135, 197
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A		<code>\dotfill</code>	4, 11, 17, 24
<code>\addchap</code>	118, 180	E	
<code>\addsec</code>	61	<code>\end</code>	12, 25

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

I			
<code>\idx@heading</code>	42, 59, 71, 95, 111, 128, 157, 173, 190	<code>\par</code>	46
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<code>\if@restonecol</code>	52, 104, 166	<code>\parindent</code>	47, 99, 161
<code>\if@twocolumn</code>	37, 89, 151	<code>\parskip</code>	48, 100, 162
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N		<code>\setindexpreamble</code>	4, 17
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<code>\nobreak</code>	46	<code>\texttt</code>	4, 11, 17, 24
O		<code>\the</code>	35, 87, 149
<code>\onecolumn</code>	53, 105, 167	<code>\thispagestyle</code>	43, 96, 158
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