

# 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 `idxtotoc` 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 `idxtotoc` of KOMA-Script is supported.

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\*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. L<sup>A</sup>T<sub>E</sub>X's package interface allows multiple calls of the same package. The package is loaded at its first package loading command. At later times L<sup>A</sup>T<sub>E</sub>X 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 
```

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 <code>index</code>	..... EOL
Preamble of <code>scrartcl</code>	..... EOL

### 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{idxttitle@\@indextype}%
36     }%
37     \if@twocolumn
38       \restonewcolfalse
39     \else
40       \restonewcoltrue
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@restonewcol
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 }%

```

```

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{\indexpreamble}%
95   \idx@heading%
96   \thispagestyle{\indexpagestyle}%
97   \columnseprule\z@%
98   \columnsep 35\p@%
99   \parindent\z@%
100  \parskip\z@ \relax%
101  \parfillskip\z@ \relax%
102  \let\item\@idxitem%
103 }{%
104   \if@restonecol%
105     \onecolumn%
106   \else%
107     \clearpage%
108   \fi%
109 }%
110 \@ifclasswith{scrreprt}{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%

```

```

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{\indexpreamble}%
157 \idx@heading
158 \thispagestyle{\indexpagestyle}%
159 \columnseprule\z@
160 \columnsep 35\p@
161 \parindent\z@
162 \parskip\z@ \cplus .3\p@\relax
163 \parfillskip\z@ \cplus 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<sup>1</sup>:

[CTAN:macros/latex/contrib/oberdiek/scrindex.dtx](http://ctan.org/pkg/scrindex) The source file.

[CTAN:macros/latex/contrib/oberdiek/scrindex.pdf](http://ctan.org/pkg/scrindex) 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](http://ctan.org/install/macros/latex/contrib/oberdiek.tds.zip)

TDS refers to the standard “A Directory Structure for TeX Files” ([CTAN:tds/tds.pdf](http://ctan.org/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 `TDSScripts/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
```

---

<sup>1</sup><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 `mktexlsr`.

### 3.5 Some details for the interested

**Unpacking with L<sup>A</sup>T<sub>E</sub>X.** The `.dtx` chooses its action depending on the format:

**plain TeX:** Run `docstrip` and extract the files.

**L<sup>A</sup>T<sub>E</sub>X:** Generate the documentation.

If you insist on using L<sup>A</sup>T<sub>E</sub>X for `docstrip` (really, `docstrip` does not need L<sup>A</sup>T<sub>E</sub>X), 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 pdfL<sup>A</sup>T<sub>E</sub>X:

```
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`.

```
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”<sup>2</sup>

[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.

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

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