

# 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 `idxdotoc` 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 `idxdotoc` 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. 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 </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.

<b>Index</b>	
Prologue of package <code>index</code> ..... 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 \end{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 [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   }%

```

```

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{idx@title@\@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}{idx@toc}{%
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](#) 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<sub>E</sub>X 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<sub>E</sub>X:

```
tex scrindex.dtx
```

---

<sup>1</sup><http://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  $\text{T}_{\text{E}}\text{X}$  distribution (`te $\text{T}_{\text{E}}\text{X}$` , `mik $\text{T}_{\text{E}}\text{X}$` , ...) relies on file name databases, you must refresh these. For example, `te $\text{T}_{\text{E}}\text{X}$`  users run `texhash` or `mktextlsr`.

### 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  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ .** The `.dtx` chooses its action depending on the format:

**plain- $\text{T}_{\text{E}}\text{X}$ :** Run `docstrip` and extract the files.

**$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ :** Generate the documentation.

If you insist on using  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$  for `docstrip` (really, `docstrip` does not need  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ ), 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 `pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$` :

```
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`”<sup>2</sup>

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<sup>2</sup>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.

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