

# 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 /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.

<b>Index</b>	
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}{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{\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}{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{\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<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:pkg/tds](#)). 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
```

### 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
```

**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`.

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<sup>1</sup>[CTAN:pkg/scrindex](#)

### 3.4 Refresh file name databases

If your  $\text{T}_{\text{E}}\text{X}$  distribution ( $\text{T}_{\text{E}}\text{X}$  Live,  $\text{M}\text{i}\text{K}\text{T}_{\text{E}}\text{X}$ , ...) relies on file name databases, you must refresh these. For example,  $\text{T}_{\text{E}}\text{X}$  Live users run `texhash` or `mktextlsr`.

### 3.5 Some details for the interested

**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  $\text{pdfL}^{\text{A}}\text{T}_{\text{E}}\text{X}$ :

```
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>

[2008/08/11 v1.1]

- Code is not changed.
- URLs updated.

[2016/05/16 v1.2]

- Documentation updates.

## 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; plain numbers refer to the code lines where the entry is used.

<b>Symbols</b>	<code>\@idxitem</code> . . . . .	50, 102, 164
<code>\@empty</code> . . . . .	62, 74, 119, 136, 181, 198	

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

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