



Ivan Valbusa

The
fontsize
package

v0.4 – 2021/01/25

Legalese

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Feedback

If you have any questions, feedback or requests please email me at `ivan dot valbusa at gmail dot com`. If you need specific features not already implemented, remember to attach the example files.

User's guide to fontsize

A small package to change the font size

v0.4 – 2021/01/25

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Abstract

The `fontsize` package allows you to set arbitrary sizes for the main font of the document and to adjust the line spacing accordingly. You can also generate your own `.clo` file for better tuning.

Contents

1	Usage	3	2	An example of font settings	5
1.1	Options	4	3	The Code	7
1.2	Commands	4	References		18

Credits

The code is an excerpt of the `scrextend` and `scrfontsizes` packages (Neukam et al. 2020), with few minor changes to make it completely independent of the KOMA-script bundle and with a couple of new features. The package is updated to version 3390 2019-11-18 17:09:35Z of the `scrkernel-fonts.dtx` file.

Caveat

Although effective with any value for the `\fontsize` (as long as the font is scalable), the package is meant for small font size changes. For truly optimal results you should (re)define your own `.clo` file. Indeed note that the file generated with `\generateclofile`, as well as the macros redefined via `\changefontsize`, are a subset of the standard `.clo` files.

1 Usage

The package can be loaded, as usual, with:

```
\usepackage[<options>]{fontsize}
```

1.1 Options

fontsize = $\langle\text{fontsize}\rangle$ default: 10pt

Sets the normal size to $\langle\text{fontsize}\rangle$ and the normal line spacing to $1.2\langle\text{fontsize}\rangle$. The other sizes (`\tiny`, `\scriptsize`, `\small`, ecc.) and line spacings are set proportionally. You can use any unit recognized by T_EX and you can omit the unit as well (in which case it defaults to pt). If a file named $\langle\text{name}\rangle\langle\text{fontsize}\rangle$.clo exists it is used to setup the font sizes. This file can be generated through the `\generateclofile` command (see below).

cloname = $\langle\text{name}\rangle$ default: custom

Sets to $\langle\text{name}\rangle$ the name prefix of the .clo file generated by the `\generateclofile` command (see below).

1.2 Commands

\changefontsize[$\langle\text{baselineskip}\rangle$]{ $\langle\text{fontsize}\rangle$ } iff $\langle\text{baselineskip}\rangle \geq \langle\text{fontsize}\rangle$

Sets the normal size to $\langle\text{fontsize}\rangle$ and the normal line spacing to $\langle\text{baselineskip}\rangle$. The other sizes (`\tiny`, `\scriptsize`, `\small`, ecc.) and line spacings are set proportionally. If the first optional argument is omitted the command has the same effect of the `fontsize` option. You can use any unit recognized by T_EX and you can omit the unit as well (in which case it defaults to pt). For example: `\changefontsize[13.5pt]{11.5pt}`.

\generateclofile{ $\langle\text{name}\rangle$ }[$\langle\text{baselineskip}\rangle$]{ $\langle\text{fontsize}\rangle$ } iff $\langle\text{baselineskip}\rangle \geq \langle\text{fontsize}\rangle$

Generates a file named $\langle\text{name}\rangle\langle\text{fontsize}\rangle$.clo in which the normal size is $\langle\text{fontsize}\rangle$ and the normal line spacing is $\langle\text{baselineskip}\rangle$. The other sizes (`\tiny`, `\scriptsize`, `\small`, ecc.) and line spacings are set proportionally. You can use any unit recognized by T_EX and you can omit the unit as well (in which case it defaults to pt). If `cloname= $\langle\text{name}\rangle$` and `fontsize= $\langle\text{fontsize}\rangle$` the generated file will be automatically used to setup the main font sizes.



In fact the .clo file is only needed if you intend to modify it. In this case remember to comment the command, otherwise the edited file will be overwritten

```
\usepackage[fontsize=11.5pt]{fontsize} % loads custom11.5pt.clo
\generateclofile{custom}[13.5pt]{11.5pt} % generates custom11.5pt.clo

\usepackage[fontsize=11.5pt,cloname=fs]{fontsize} % loads fs11.5pt.clo
\generateclofile{fs}[13.5pt]{11.5pt} % generates fs11.5pt.clo
```

\printfontsize[$\langle\text{baselineskip}\rangle$]{ $\langle\text{fontsize}\rangle$ } iff $\langle\text{baselineskip}\rangle \geq \langle\text{fontsize}\rangle$

A command thought to test the `fontsize` settings. It prints a text sample for every sizing commands, showing the value of the normal size and line spacing. The section 2 below is generated by this command.

2 An example of font settings

This section shows the values of the standard font sizing commands corresponding to `\changeontsize[13]{11}`, which sets the normal size and line spacing, respectively, to 11 pt and 13 pt. The other sizes are scaled proportionally.

\tiny: 5.5pt on 6.48996pt As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The paralogisms of practical reason are what first give rise to the architectonic of practical reason. As will be shown, reason would thereby be made to contradict.

\scriptsize: 7.33339pt on 8.65334pt As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The paralogisms of practical reason are what first give rise to the architectonic of practical reason. As will be shown, reason would thereby be made to contradict.

\footnotesize: 9.16678pt on 10.81673pt As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The paralogisms of practical reason are what first give rise to the architectonic of practical reason. As will be shown, reason would thereby be made to contradict.

\small: 10.03757pt on 11.84425pt As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The paralogisms of practical reason are what first give rise to the architectonic of practical reason. As will be shown, reason would thereby be made to contradict.

\normalsize: 11pt on 13.0pt As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The paralogisms of practical reason are what first give rise to the architectonic of practical reason. As will be shown, reason would thereby be made to contradict.

\large: 13.19997pt on 15.57585pt As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The paralogisms of practical reason are what first give rise to the architectonic of practical reason. As will be shown, reason would thereby be made to contradict.

\Large: 15.84003pt on 18.6911pt As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The paralogisms of practical reason are what first give rise to the architectonic of practical reason. As will be shown, reason would thereby be made to contradict.

\LARGE: 19.00797pt on 22.42924pt As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The par-

alogisms of practical reason are what first give rise to the architectonic of practical reason. As will be shown, reason would thereby be made to contradict.

\huge: 22.81406pt on 26.92041pt As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The paralogisms of practical reason are what first give rise to the architectonic of practical reason. As will be shown, reason would thereby be made to contradict.

\Huge: 27.36807pt on 32.29411pt As any dedicated reader can clearly see, the Ideal of practical reason is a representation of, as far as I know, the things in themselves; as I have shown elsewhere, the phenomena should only be used as a canon for our understanding. The paralogisms of practical reason are what first give rise to the architectonic of practical reason. As will be shown, reason would thereby be made to contradict.

3 The Code

The parts added to the basic structure of `scrxextend` and `scrfontsizes` are highlighted in blue. All the options of the package are defined via `xkeyval`, while `etoolbox` is required to execute `\AtEndOfPackage`. It is probably not necessary but for the moment I prefer to take advantage of it.

```
1 \ifpackageloaded{xkeyval}{\RequirePackage{xkeyval}}
2 \ifpackageloaded{etoolbox}{\RequirePackage{etoolbox}}
```

Here we define the only new package option `cloname`:

```
3 \DeclareOptionX{cloname}[custom]{\def\@fontsizefilebase{#1}}
```

Excerpt from `scrxextend.sty` Here the `scrxextend` code begins. Only a few names have been changed. The value of `\@fontsizefilebase` is set to `custom` instead of `scrsize`.

```
4 \DeclareOptionX{fontsize}[10]{%
5   \expandafter\@defaultunits\expandafter\@tempdima#1 pt\relax\@nnil
6   \edef\@tempa{#1}%
7   \setlength{\@tempdimb}{\@tempdima}%
8   \edef\@tempb{\strip@pt\@tempdimb}%
9   \addtolength{\@tempdimb}{-10\p}%
10  \edef\@ptsize{\strip@pt\@tempdimb}%
11  \edef\@tempa{%
12    \noexpand\makeatletter
13    \noexpand\InputIfFileExists{\@fontsizefilebase\@tempa.clo}{%
14      \noexpand\PackageInfo{fontsize}{%
15        File '@@fontsizefilebase\@tempa.clo' used to setup font sizes}%
16      }{%
17        \noexpand\InputIfFileExists{\@fontsizefilebase\@tempb pt.clo}{%
18          \noexpand\PackageInfo{fontsize}{%
19            File '@@fontsizefilebase\@tempb pt.clo' used instead of%
20            \noexpand\MessageBreak
21            file '@@fontsizefilebase\@tempa.clo' to setup font sizes}%
22          }{%
23            \noexpand\changefontsize{#1}%
24          }%
25        }%
26      }%
27    \expandafter\AtEndOfPackage\expandafter{\@tempa}%
28  }
```

Now we can execute and process the new options defined above. As `cloname` is responsible for defining `\@fontsizefilebase` it must precede `fontsize` which uses this command. The `\ctm@setlength` and `\changefontsize` commands are simply new names, respectively, for `\scr@setlength` and `\changefontsizes` used in `scrxextend.sty`.

```
29 \ExecuteOptionsX{cloname,fontsize}
30 \ProcessOptionsX*\relax

31 \newcommand*\ctm@setlength[4]{%
32   \ifdim #2<\ifdim #2=\z@ \z@ \else \p@\fi
33   \ifdim #3<\ifdim #3=\z@ \z@ \else \p@\fi
34   \ifdim #4<\ifdim #4=\z@ \z@ \else \p@\fi
35   \setlength{#1}{\p@ \@plus\p@ \@minus\p@}%
```

```

36 \else
37 \setlength{#1}{\p@ \@plus\p@ \@minus#4}%
38 \fi
39 \else
40 \ifdim #4<\ifdim #4=\z@ \z@ \else \p@\fi
41 \setlength{#1}{\p@ \@plus#3 \@minus\p@}%
42 \else
43 \setlength{#1}{\p@ \@plus#3 \@minus#4}%
44 \fi
45 \fi
46 \else
47 \ifdim #3<\ifdim #3=\z@ \z@ \else \p@\fi
48 \ifdim #4<\ifdim #4=\z@ \z@ \else \p@\fi
49 \setlength{#1}{#2 \@plus\p@ \@minus\p@}%
50 \else
51 \setlength{#1}{#2 \@plus\p@ \@minus#4}%
52 \fi
53 \else
54 \ifdim #4<\ifdim #4=\z@ \z@ \else \p@\fi
55 \setlength{#1}{#2 \@plus#3 \@minus\p@}%
56 \else
57 \setlength{#1}{#2 \@plus#3 \@minus#4}%
58 \fi
59 \fi
60 \fi
61 }
62 \providecommand*\changefontsize[2][1.2\@tempdima]{%
63 \@defaultunits\@tempdima#2pt\relax\@nnil
64 \setlength{\@tempdimc}{\@tempdima}%
65 \addtolength{\@tempdimc}{-10\p@}%
66 \edef\@ptsize{\strip@pt\@tempdimc}%
67 \@defaultunits\@tempdimb#1pt\relax\@nnil
68 \setlength{\@tempdimc}{\dimexpr (100\@tempdimb / \@tempdima * \p@)}%
69 \edef\@tempb{\the\@tempdimc}%
70 \setlength{\@tempdimc}{\@tempdima}%
71 \def\@tempa##1##2##3##4##5\@nnil{\def##1{##2.##3##4}}%
72 \expandafter\@tempa\expandafter\@tempb\@tempb\@nnil%
73 \ctm@setlength{\abovedisplayskip}%
74 {.8333\@tempdimb}{.1667\@tempdimb}{.5\@tempdimb}%
75 \ctm@setlength{\abovedisplayskip}{\z@}{.25\@tempdimb}{\z@}%
76 \ctm@setlength{\belowdisplayskip}%
77 {.5\@tempdimb}{.25\@tempdimb}{.25\@tempdimb}%
78 \setlength{\belowdisplayskip}{\abovedisplayskip}%
79 \edef\normalsize{%
80 \noexpand\setfontsize\noexpand\normalsize
81 {\the\@tempdima}{\the\@tempdimb}%
82 \abovedisplayskip \the\abovedisplayskip
83 \abovedisplayskip \the\abovedisplayskip
84 \belowdisplayskip \the\belowdisplayskip
85 \belowdisplayskip \the\belowdisplayskip
86 \let\noexpand\@listi\noexpand\@listI
87 }%
88 \setlength{\@tempdima}{0.9125\@tempdimc}%
89 \setlength{\@tempdimb}{\@tempb\@tempdima}%
90 \ctm@setlength{\abovedisplayskip}%
91 {.8333\@tempdimb}{.1667\@tempdimb}{.5\@tempdimb}%

```



```

92 \ctm@setlength{\abovedisplayshortskip}{\z@}{.25\@tempdimb}{\z@}%
93 \ctm@setlength{\belowdisplayshortskip}%
94 {.5\@tempdimb}{.25\@tempdimb}{.25\@tempdimb}%
95 \setlength{\belowdisplayskip}{\abovedisplayskip}%
96 \edef\small{%
97   \noexpand\@setfontsize\noexpand\small
98   {\the\@tempdima}{\the\@tempdimb}%
99   \abovedisplayskip \the\abovedisplayskip
100  \abovedisplayshortskip \the\abovedisplayshortskip
101  \belowdisplayskip \the\belowdisplayskip
102  \belowdisplayshortskip \the\belowdisplayshortskip
103  \let\noexpand\@listi\noexpand\@listi@small
104 }%
105 \setlength{\@tempdima}{.83334\@tempdimc}%
106 \setlength{\@tempdimb}{\@tempb\@tempdima}%
107 \ctm@setlength{\abovedisplayskip}%
108 {.8333\@tempdimb}{.1667\@tempdimb}{.5\@tempdimb}%
109 \ctm@setlength{\abovedisplayshortskip}{\z@}{.25\@tempdimb}{\z@}%
110 \ctm@setlength{\belowdisplayshortskip}%
111 {.5\@tempdimb}{.25\@tempdimb}{.25\@tempdimb}%
112 \setlength{\belowdisplayskip}{\abovedisplayskip}%
113 \edef\footnotesize{%
114   \noexpand\@setfontsize\noexpand\footnotesize
115   {\the\@tempdima}{\the\@tempdimb}%
116   \abovedisplayskip \the\abovedisplayskip
117   \abovedisplayshortskip \the\abovedisplayshortskip
118   \belowdisplayskip \the\belowdisplayskip
119   \belowdisplayshortskip \the\belowdisplayshortskip
120   \let\noexpand\@listi\noexpand\@listi@footnotesize
121 }%
122 \setlength{\@tempdima}{.66667\@tempdimc}%
123 \setlength{\@tempdimb}{\@tempb\@tempdima}%
124 \edef\scriptsize{%
125   \noexpand\@setfontsize\noexpand\scriptsize
126   {\the\@tempdima}{\the\@tempdimb}%
127 }%
128 \setlength{\@tempdima}{.5\@tempdimc}%
129 \setlength{\@tempdimb}{\@tempb\@tempdima}%
130 \edef\tiny{%
131   \noexpand\@setfontsize\noexpand\tiny
132   {\the\@tempdima}{\the\@tempdimb}%
133 }%
134 \setlength{\@tempdima}{1.2\@tempdimc}%
135 \setlength{\@tempdimb}{\@tempb\@tempdima}%
136 \edef\large{%
137   \noexpand\@setfontsize\noexpand\large
138   {\the\@tempdima}{\the\@tempdimb}%
139 }%
140 \setlength{\@tempdima}{1.44\@tempdimc}%
141 \setlength{\@tempdimb}{\@tempb\@tempdima}%
142 \edef\Large{%
143   \noexpand\@setfontsize\noexpand\Large
144   {\the\@tempdima}{\the\@tempdimb}%
145 }%
146 \setlength{\@tempdima}{1.728\@tempdimc}%
147 \setlength{\@tempdimb}{\@tempb\@tempdima}%

```

```

148 \edef\LARGE{%
149   \noexpand\setfontsize\noexpand\LARGE
150   {\the\@tempdima}{\the\@tempdimb}%
151 }%
152 \setlength{\@tempdima}{2.074\@tempdimc}%
153 \setlength{\@tempdimb}{\@tempb\@tempdima}%
154 \edef\huge{%
155   \noexpand\setfontsize\noexpand\huge
156   {\the\@tempdima}{\the\@tempdimb}%
157 }%
158 \setlength{\@tempdima}{2.488\@tempdimc}%
159 \setlength{\@tempdimb}{\@tempb\@tempdima}%
160 \edef\Huge{%
161   \noexpand\setfontsize\noexpand\Huge
162   {\the\@tempdima}{\the\@tempdimb}%
163 }%
164 \normalsize%

```

The KOMA files do not define `\parindent` and other lengths related to the page dimensions (`\textheight`, `\headheight`, `\headsep`, etc.) Anyway I think that some of these lengths are strictly linked to the font rather than to the page and text dimensions. Particularly `\headheight`, whose value may cause a well known warning if `fancyhdr` is loaded. So we define the following new lengths:

```

165 \setlength\parindent{\f@size pt}%
166 \setlength\headheight{\dimexpr(\f@size pt+2pt)}%

```

For these other lengths, all values are calculated proportionally to the main font. I took the `bk11.clo` file as a reference point. Note that the differences of these lengths in the files `bk10.clo` `bk11.clo` and `bk12.clo` only affect `\headsep`, `\topskip` and `\footskip`, which are not redefined here.

```

167 \setlength\smallskipamount{\dimexpr((\f@size pt+1pt)/4) \@plus 1\p@ \@minus 1\p@}%
168 \setlength\medskipamount{\dimexpr((\f@size pt+1pt)/2) \@plus 2\p@ \@minus 2\p@}%
169 \setlength\bigskipamount{\dimexpr(\f@size pt+1pt) \@plus 4\p@ \@minus 4\p@}%

```

The following table shows the values of some specific lengths defined by the package, relative to some significant settings of the main font and line spacing. The values are expressed in pt and rounded to the second decimal place.

Normal size	10	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11
Line spacing	12	12.12	12.24	12.36	12.48	12.6	12.72	12.84	12.96	13.08	13.2
<code>\headheight</code>	12	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13
<code>\parindent</code>	10	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11
<code>\bigskipamount</code> ± 4 pt	11	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12
<code>\medskipamount</code> ± 2 pt	5.5	5.55	5.6	5.65	5.7	5.75	5.8	5.85	5.9	5.95	6
<code>\smallskipamount</code> ± 1 pt	2.75	2.78	2.8	2.82	2.85	2.88	2.9	2.93	2.95	2.98	3

```

170 \setlength{\@tempdimb}{\f@baselineskip}%
171 \ctm@setlength{\parsep}%
172 {.3333\@tempdimb}{.1667\@tempdimb}{.0833\@tempdimb}%
173 \ctm@setlength{\topsep}%
174 {.6667\@tempdimb}{.1667\@tempdimb}{.3333\@tempdimb}%
175 \@tempwafalse
176 \begingroup
177 \def\@list@extra{\aftergroup\@tempwatrue}%

```

```

178 \csname @listi\endcsname
179 \endgroup
180 \edef\@listi{\leftmargin\leftmargini
181   \topsep \the\topsep
182   \parsep \the\parsep
183   \itemsep \parsep
184   \if@tempswa\noexpand\@list@extra\fi
185 }%
186 \let\@listI\@listi
187 \ctm@setlength{\parsep}%
188 {.1667\@tempdimb}{.0833\@tempdimb}{.0833\@tempdimb}%
189 \ctm@setlength{\topsep}%
190 {.3333\@tempdimb}{.1667\@tempdimb}{.1667\@tempdimb}%
191 \@tempswafalse
192 \begingroup
193 \def\@list@extra{\aftergroup\@tempwattrue}%
194 \csname @listi\endcsname
195 \endgroup
196 \edef\@listi@small{\leftmargin\leftmargini
197   \topsep \the\topsep
198   \parsep \the\parsep
199   \itemsep \parsep
200   \if@tempswa\noexpand\@list@extra\fi
201 }%
202 \ctm@setlength{\parsep}%
203 {.125\@tempdimb}{.0625\@tempdimb}{.0625\@tempdimb}%
204 \ctm@setlength{\topsep}%
205 {.25\@tempdimb}{.125\@tempdimb}{.125\@tempdimb}%
206 \@tempswafalse
207 \begingroup
208 \def\@list@extra{\aftergroup\@tempwattrue}%
209 \csname @listi\endcsname
210 \endgroup
211 \edef\@listi@footnotesize{\leftmargin\leftmargini
212   \topsep \the\topsep
213   \parsep \the\parsep
214   \itemsep \parsep
215   \if@tempswa\noexpand\@list@extra\fi
216 }%
217 \ctm@setlength{\parsep}%
218 {.1667\@tempdimb}{.0833\@tempdimb}{.0833\@tempdimb}%
219 \ctm@setlength{\topsep}%
220 {.3333\@tempdimb}{.1667\@tempdimb}{.0833\@tempdimb}%
221 \@tempswafalse
222 \begingroup
223 \def\@list@extra{\aftergroup\@tempwattrue}%
224 \csname @listii\endcsname
225 \endgroup
226 \edef\@listii{\leftmargin\leftmarginii
227   \labelwidth=\dimexpr \leftmargin-\labelsep
228   \topsep \the\topsep
229   \parsep \the\parsep
230   \itemsep \parsep
231   \if@tempswa\noexpand\@list@extra\fi
232 }%
233 \ctm@setlength{\topsep}%

```

```

234 {.1667\@tempdimb}{.0833\@tempdimb}{.0833\@tempdimb}%
235 \setlength{\partopsep}{\z@ \@plus\z@ \@minus\p@}%
236 \@tempswafalse
237 \begingroup
238 \def\@list@extra{\aftergroup\@tempwattrue}%
239 \csname @listiii\endcsname
240 \endgroup
241 \edef\@listiii{\leftmargin\leftmarginiii
242   \labelwidth=\dimexpr \leftmargin-\labelsep
243   \topsep \the\topsep
244   \parsep \z@
245   \partopsep \the\partopsep
246   \itemsep \topsep
247   \if@tempwa\noexpand\@list@extra\fi
248 }%
249 \@tempswafalse
250 \begingroup
251 \def\@list@extra{\aftergroup\@tempwattrue}%
252 \csname @listiv\endcsname
253 \endgroup
254 \edef\@listiv{\leftmargin\leftmarginiv
255   \labelwidth=\dimexpr \leftmargin-\labelsep\relax
256   \if@tempwa\noexpand\@list@extra\fi
257 }%
258 \@tempswafalse
259 \begingroup
260 \def\@list@extra{\aftergroup\@tempwattrue}%
261 \csname @listv\endcsname
262 \endgroup
263 \edef\@listv{\leftmargin\leftmarginv
264   \labelwidth=\dimexpr \leftmargin-\labelsep\relax
265   \if@tempwa\noexpand\@list@extra\fi
266 }%
267 \@tempswafalse
268 \begingroup
269 \def\@list@extra{\aftergroup\@tempwattrue}%
270 \csname @listvi\endcsname
271 \endgroup
272 \edef\@listvi{\leftmargin\leftmarginvi
273   \labelwidth=\dimexpr \leftmargin-\labelsep\relax
274   \if@tempwa\noexpand\@list@extra\fi
275 }%
276 \@listi
277 \setlength{\@tempdimb}{\f@baselineskip}%
278 \setlength{\footnotesep}{.555\@tempdimb}%
279 \ctm@setlength{\skip\footins}%
280 {.75\@tempdimb}{.3333\@tempdimb}{.1667\@tempdimb}%
281 \ctm@setlength{\floatsep}%
282 {\@tempdimb}{.1667\@tempdimb}{.1667\@tempdimb}%
283 \ctm@setlength{\textfloatsep}%
284 {1.6667\@tempdimb}{.1667\@tempdimb}{.3333\@tempdimb}%
285 \setlength{\intextsep}{\floatsep}%
286 \setlength{\dblfloatsep}{\floatsep}%
287 \setlength{\dbltextfloatsep}{\textfloatsep}%
288 \setlength{\@fptop}{\z@ \@plus 1fil}%
289 \setlength{\@fpsep}{.6667\@tempdimb \@plus 2fil}%

```

```

290 \setlength{\@fptop}{\@fptop}%
291 \setlength{\@dblftop}{\@fptop}%
292 \setlength{\@dblfpsep}{\@fpsep}%
293 \setlength{\@dblfpbot}{\@fptop}%
294 \ctm@setlength{\partopsep}{.2\@tempdimb}{.1\@tempdimb}{.1\@tempdimb}%
295 }

```

Excerpt from scrfontsizes.sty Here is a portion of the scrfontsizes package. It simply provides the `\generateclofile` command, without the KOMA-related definitions. There are no reserved names for the .clo files. The command name is a new name for the KOMA `\generatefontfile`. In fact, what the command generates, is a .clo file.

```

296 \newcommand*\generateclofile[1]{%
297 \kernel@ifnextchar [{\@generatefontfile{#1}}{\@@generatefontfile{#1}}}%
298 }
299 \newcommand*\@generatefontfile{}
300 \def\@generatefontfile#1[#2]#3{%
301 \begingroup

```

At least starting with version 3.31 of the scrfontsizes package the code of the `\@generatefontfile` and `\@@generatefontfile` commands sets the `\parskip` value to 0pt. We also use `[#2]` in place of `[{#2}]` for the optional argument of `\changefontsize` used immediately below.

```

302 \setlength{\parskip}{0pt}%
303 \changefontsize[#2]{#3}%
304 \generate@fontfile{#1}{#3}%
305 \endgroup
306 }
307 \newcommand\@@generatefontfile[2]{%
308 \begingroup
309 \setlength{\parskip}{0pt}%
310 \changefontsize{#2}%
311 \generate@fontfile{#1}{#2}%
312 \endgroup
313 }
314 \newcommand*\@@@generatefontfile[2][{}]{
315 \newcommand*\@fontfile{}
316 \let\@fontfile\@mainaux
317 \newcommand*\generate@fontfile[2]{%
318 \def\@ind{\space\space}%
319 \immediate\openout\@fontfile #1#2.clo
320 \immediate\write\@fontfile{\@percentchar^^J%
321 \@percentchar\space This is file ‘#1#2.clo’, generated with^^J%

```

In the next three lines we only replace ‘scrfontsizes’ with ‘fontsize’ and ‘Markus Kohm’ with ‘Ivan Valbusa’, in order to get the correct informations in the .log file.

```

322 \@percentchar\space fontsize
323 \csname ver@fontsize.\@pkgextension\endcsname,^^J%
324 \@percentchar\space Copyright (c) Ivan Valbusa.^^J%
325 \@percentchar^^J%
326 \string\ProvidesFile{#1#2.clo}[%
327 \the\year/\ifnum\month<10 0\fi\the\month/\ifnum\day<10 0\fi\the\day%
328 \space generated font size class option (#2)]}%
329 \immediate\write\@fontfile{%
330 \string\def\string\normalsize{\@percentchar^^J%

```

```

331 \@ind\string\@setfontsize\string\normalsize{\f@size}{\f@baselineskip}%
332 \@percentchar^^J%
333 \@ind\string\abovedisplayskip\space \the\abovedisplayskip^^J%
334 \@ind\string\abovedisplayshortskip\space \the\abovedisplayshortskip^^J%
335 \@ind\string\belowdisplayskip\space \the\belowdisplayskip^^J%
336 \@ind\string\belowdisplayshortskip\space \the\belowdisplayshortskip^^J%
337 \@ind\string\let\string\@listi\string\@listI^^J%
338 }\@percentchar%
339 }%
340 \beginngroup\small\@listi
341 \immediate\write\@fontfile{%
342 \string\def\string\small{\@percentchar^^J%
343 \@ind\string\@setfontsize\string\small{\f@size}{\f@baselineskip}%
344 \@percentchar^^J%
345 \@ind\string\abovedisplayskip\space \the\abovedisplayskip^^J%
346 \@ind\string\abovedisplayshortskip\space \the\abovedisplayshortskip^^J%
347 \@ind\string\belowdisplayskip\space \the\belowdisplayskip^^J%
348 \@ind\string\belowdisplayshortskip\space \the\belowdisplayshortskip^^J%
349 \@ind\string\def\string\@listi{\@percentchar^^J%
350 \@ind\@ind\string\leftmargin\string\leftmarginI^^J%
351 \@ind\@ind\string\topsep \the\topsep^^J%
352 \@ind\@ind\string\parsep \the\parsep^^J%
353 \@ind\@ind\string\itemsep \string\parsep^^J%
354 \@ind}\@percentchar^^J%
355 }\@percentchar%
356 }%
357 \endgroup
358 \beginngroup\footnotesize\@listi
359 \immediate\write\@fontfile{%
360 \string\def\string\footnotesize{\@percentchar^^J%
361 \@ind\string\@setfontsize\string\footnotesize{\f@size}{\f@baselineskip}%
362 \@percentchar^^J%
363 \@ind\string\abovedisplayskip\space \the\abovedisplayskip^^J%
364 \@ind\string\abovedisplayshortskip\space \the\abovedisplayshortskip^^J%
365 \@ind\string\belowdisplayskip\space \the\belowdisplayskip^^J%
366 \@ind\string\belowdisplayshortskip\space \the\belowdisplayshortskip^^J%
367 \@ind\string\def\string\@listi{\@percentchar^^J%
368 \@ind\@ind\string\leftmargin\string\leftmarginI^^J%
369 \@ind\@ind\string\topsep \the\topsep^^J%
370 \@ind\@ind\string\parsep \the\parsep^^J%
371 \@ind\@ind\string\itemsep \string\parsep^^J%
372 \@ind}\@percentchar^^J%
373 }\@percentchar%
374 }%
375 \endgroup
376 \beginngroup\scriptsize
377 \immediate\write\@fontfile{%
378 \string\def\string\scriptsize{%
379 \string\@setfontsize\string\scriptsize{\f@size}{\f@baselineskip}%
380 }\@percentchar%
381 }%
382 \endgroup
383 \beginngroup\tiny
384 \immediate\write\@fontfile{%
385 \string\def\string\tiny{%
386 \string\@setfontsize\string\tiny{\f@size}{\f@baselineskip}%

```

```

387 } \@percentchar%
388 }%
389 \endgroup
390 \begingroup\large
391 \immediate\write\@fontfile{%
392   \string\def\string\large{%
393     \string\setfontsize\string\large{\f@size}{\f@baselineskip}%
394   } \@percentchar%
395 }%
396 \endgroup
397 \begingroup\Large
398 \immediate\write\@fontfile{%
399   \string\def\string\Large{%
400     \string\setfontsize\string\Large{\f@size}{\f@baselineskip}%
401   } \@percentchar%
402 }%
403 \endgroup
404 \begingroup\LARGE
405 \immediate\write\@fontfile{%
406   \string\def\string\LARGE{%
407     \string\setfontsize\string\LARGE{\f@size}{\f@baselineskip}%
408   } \@percentchar%
409 }%
410 \endgroup
411 \begingroup\huge
412 \immediate\write\@fontfile{%
413   \string\def\string\huge{%
414     \string\setfontsize\string\huge{\f@size}{\f@baselineskip}%
415   } \@percentchar%
416 }%
417 \endgroup
418 \begingroup\Huge
419 \immediate\write\@fontfile{%
420   \string\def\string\Huge{%
421     \string\setfontsize\string\Huge{\f@size}{\f@baselineskip}%
422   } \@percentchar%
423 }%
424 \endgroup
425 \immediate\write\@fontfile{\string\normalsize}%

```

The new lengths previously defined are recalled here and written in the .clo file if the \generatetoclofile command is used.

```

426 \begingroup
427 \immediate\write\@fontfile{%
428   \string\setlength{\string\parindent}{\the\parindent}^^J%
429   \string\setlength{\string\headheight}{\the\headheight}^^J%
430   \string\setlength{\string\smallskipamount}{\the\smallskipamount}^^J%
431   \string\setlength{\string\medskipamount}{\the\medskipamount}^^J%
432   \string\setlength{\string\bigskipamount}{\the\bigskipamount}^^J%
433 }%
434 \endgroup

435 \immediate\write\@fontfile{%
436   \string\setlength{\string\footnotesep}{\the\footnotesep}\@percentchar
437 }%
438 \immediate\write\@fontfile{%

```

```

439 \string\setlength{\string\skip\string\footins}{\the\skip\footins}\@percentchar
440 }%
441 \immediate\write\@fontfile{%
442 \string\setlength{\string\floatsep}{\the\floatsep}\@percentchar
443 }%
444 \immediate\write\@fontfile{%
445 \string\setlength{\string\textfloatsep}{\the\textfloatsep}\@percentchar
446 }%
447 \immediate\write\@fontfile{%
448 \string\setlength{\string\intextsep}{\the\intextsep}\@percentchar
449 }%
450 \immediate\write\@fontfile{%
451 \string\setlength{\string\dblfloatsep}{\the\dblfloatsep}\@percentchar
452 }%
453 \immediate\write\@fontfile{%
454 \string\setlength{\string\dbltextfloatsep}{\the\dbltextfloatsep}\@percentchar
455 }%
456 \immediate\write\@fontfile{%
457 \string\setlength{\string\@fptop}{\the\@fptop}\@percentchar
458 }%
459 \immediate\write\@fontfile{%
460 \string\setlength{\string\@fpsep}{\the\@fpsep}\@percentchar
461 }%
462 \immediate\write\@fontfile{%
463 \string\setlength{\string\@fpbot}{\the\@fpbot}\@percentchar
464 }%
465 \immediate\write\@fontfile{%
466 \string\setlength{\string\@dblfpbot}{\the\@dblfpbot}\@percentchar
467 }%
468 \immediate\write\@fontfile{%
469 \string\setlength{\string\@dblfpsep}{\the\@dblfpsep}\@percentchar
470 }%
471 \immediate\write\@fontfile{%
472 \string\setlength{\string\@dblfpbot}{\the\@dblfpbot}\@percentchar
473 }%
474 \immediate\write\@fontfile{%
475 \string\setlength{\string\parttopsep}{\the\parttopsep}\@percentchar
476 }%
477 \begingroup
478 \@listi
479 \immediate\write\@fontfile{%
480 \string\def\string\@listi{\@percentchar^^J%
481 \@ind\string\leftmargin\string\leftmarginI^^J%
482 \@ind\string\topsep \the\topsep^^J%
483 \@ind\string\parsep \the\parsep^^J%
484 \@ind\string\itemsep \string\parsep^^J%
485 }\@percentchar
486 }%
487 \endgroup
488 \immediate\write\@fontfile{%
489 \string\let\string\@listI\string\@listi
490 }%
491 \begingroup
492 \@listii
493 \immediate\write\@fontfile{%
494 \string\def\string\@listii{\@percentchar^^J%

```



```

495 \@ind\string\leftmargin\string\leftmarginii^^J%
496 \@ind\string\labelwidth\string\leftmarginii^^J%
497 \@ind\string\advance\string\labelwidth-\string\labelsep^^J%
498 \@ind\string\topsep \the\topsep^^J%
499 \@ind\string\parsep \the\parsep^^J%
500 \@ind\string\itemsep \string\parsep^^J%
501 }\@percentchar
502 }%
503 \endgroup
504 \begingroup
505 \@listiii
506 \immediate\write\@fontfile{%
507 \string\def\string\@listiii{\@percentchar^^J%
508 \@ind\string\leftmargin\string\leftmarginiii^^J%
509 \@ind\string\labelwidth\string\leftmarginiii^^J%
510 \@ind\string\advance\string\labelwidth-\string\labelsep^^J%
511 \@ind\string\topsep \the\topsep^^J%
512 \@ind\string\parsep \the\parsep^^J%
513 \@ind\string\partopsep \the\partopsep^^J%
514 \@ind\string\itemsep \string\topsep^^J%
515 }\@percentchar
516 }%
517 \endgroup
518 \begingroup
519 \@listiv
520 \immediate\write\@fontfile{%
521 \string\def\string\@listiv{\@percentchar^^J%
522 \@ind\string\leftmargin\string\leftmarginiv^^J%
523 \@ind\string\labelwidth\string\leftmarginiv^^J%
524 \@ind\string\advance\string\labelwidth-\string\labelsep^^J%
525 }\@percentchar
526 }%
527 \endgroup
528 \begingroup
529 \@listv
530 \immediate\write\@fontfile{%
531 \string\def\string\@listv{\@percentchar^^J%
532 \@ind\string\leftmargin\string\leftmarginv^^J%
533 \@ind\string\labelwidth\string\leftmarginv^^J%
534 \@ind\string\advance\string\labelwidth-\string\labelsep^^J%
535 }\@percentchar
536 }%
537 \endgroup
538 \begingroup
539 \@listvi
540 \immediate\write\@fontfile{%
541 \string\def\string\@listvi{\@percentchar^^J%
542 \@ind\string\leftmargin\string\leftmarginvi^^J%
543 \@ind\string\labelwidth\string\leftmarginvi^^J%
544 \@ind\string\advance\string\labelwidth-\string\labelsep^^J%
545 }\@percentchar
546 }%
547 \endgroup
548 \immediate\write\@fontfile{%
549 \string\@ifundefined{@list@extra}{\@percentchar^^J%
550 \string\expandafter\string\ifnum\string\scr@v@is@ge{3.17}%

```

```

551 \string\par@update\relative\string\fi^^J%
552 \@ind\string\l@addto@macro{\string\@listi}{\string\@list@extra}%
553 \@percentchar^^J%
554 \@ind\string\l@let\string\@listI=\string\@listi^^J%
555 \@ind\string\l@addto@macro{\string\@listii}{\string\@list@extra}%
556 \@percentchar^^J%
557 \@ind\string\l@addto@macro{\string\@listiii}{\string\@list@extra}%
558 \@percentchar^^J%
559 \@ind\string\l@addto@macro{\string\footnotesize}{\string\protect
560 \string\add@extra@listi{ftns}}\@percentchar^^J%
561 \@ind\string\l@addto@macro{\string\small}{\string\protect
562 \string\add@extra@listi{sml}}\@percentchar^^J%
563 }\@percentchar^^J%
564 \string\@listi^^J%
565 \string\endinput^^J%
566 \@percentchar^^J%
567 \@percentchar\space End of file ‘#1#2.clo’.
568 }
569 \immediate\closeout\@fontfile
570 }
571 \@onlypreamble\generateclfile

```

We will now define some internal commands to test the package functions.

```

572 \def\fontsize@lipsum{As any dedicated reader can clearly see, the Ideal of
573 practical reason is a representation of, as far as I know, the
574 things in themselves; as I have shown elsewhere, the phenomena
575 should only be used as a canon for our understanding. The parallogisms
576 of practical reason are what first give rise to the architectonic of
577 practical reason. As will be shown, reason would
578 thereby be made to contradict.}
579 \chardef\fsbslash='\\
580 % Thanks to @Werner (https://tex.stackexchange.com/a/87423/231952)
581 \newcommand{\sizesamples}[1]{%
582 \def\nextitem{\par}% Separator
583 \renewcommand*\do{[1]{\nextitem\bgroup\csname##1\endcsname
584 \noindent\textbf{\csname ##1\endcsname \texttt{\fsbslash ##1}:
585 \f@size pt on \the\baselineskip} \fontsize@lipsum\par\egroup
586 }% How to process each item
587 \docsvlist{#1}% Process list
588 }
589 \newcommand{\printfontsize}[2][1]{%
590 \changefontsize[#1]{#2}
591 \sizesamples{tiny,scriptsize,footnotesize,small,
592 normalsize,large,Large,LARGE,huge,Huge}}

```

References

- Adriaens, Hendri (2014), *The xkeyval package. Extension of the keyval package*, version 2.7a, <http://www.ctan.org/pkg/xkeyval> (visited on 07/05/2020).
- Lehman, Philipp and Joseph Wright (2019), *The etoolbox Package. An e-TeX Toolbox for Class and Package Authors*, version 2.5h, <http://www.ctan.org/pkg/etoolbox> (visited on 07/05/2020).
- Neukam, Frank, Markus Kohm, and Axel Kielhorn (2020), *KOMA – Script. A versatile L^AT_EX 2_ε bundle*, version 3.30, <http://www.ctan.org/pkg/koma-script> (visited on 07/05/2020).

Change History

v0.1		omitted from KOMA-script files:
General: First public release	1	\smallskiamount, \medskiamount,
v0.2		\bigskiamount. Redefined
General: Updated documentation and code		\parindent and \headheight.
comments.	1	v0.4
v0.3		General: Maintenance release. Updated
General: Added definitions of some lengths		documentation.
		1

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.

Symbols		
\@@@generatefontfile 314	251, 256, 260, 265,	\@ptsize 10, 66
\@generatefontfile	269, 274, 552, 555, 557	\@setfontsize
. 297, 307	\@listI 86, 186, 337, 489, 554 80, 97, 114,
\@dblpfbot 293, 472	\@listi 86, 103, 120, 180,	125, 131, 137, 143,
\@dblpfsep 292, 469	186, 276, 337, 340,	149, 155, 161, 331,
\@dblpftop 291, 466	349, 358, 367, 478,	343, 361, 379, 386,
\@defaultunits . . 5, 63, 67	480, 489, 552, 554, 564	393, 400, 407, 414, 421
\@fontfile . . 315, 316,	\@listi@footnotesize	\@tempa 6,
319, 320, 329, 341, 120, 211	11, 13, 15, 21, 27, 71, 72
359, 377, 384, 391,	\@listi@small . . 103, 196	\@tempb . . 8, 17, 19, 69,
398, 405, 412, 419,	\@listii . 226, 492, 494, 555	72, 89, 106, 123, 129,
425, 427, 435, 438,	\@listiii 241, 505, 507, 557	135, 141, 147, 153, 159
441, 444, 447, 450,	\@listiv 254, 519, 521	\@tempdima 5, 7,
453, 456, 459, 462,	\@listv 263, 529, 531	62–64, 68, 70, 81, 88,
465, 468, 471, 474,	\@listvi 272, 539, 541	89, 98, 105, 106, 115,
479, 488, 493, 506,	\@mainaux 316	122, 123, 126, 128,
520, 530, 540, 548, 569	\@minus 35, 37, 41, 43, 49,	129, 132, 134, 135,
\@fontsizefilebase .	51, 55, 57, 167–169, 235	138, 140, 141, 144,
. . 3, 13, 15, 17, 19, 21	\@nnil 5, 63, 67, 71, 72	146, 147, 150, 152,
\@fpbot 290, 463	\@onlypreamble 571	153, 156, 158, 159, 162
\@fpsep 289, 292, 460	\@percentchar 320–322,	\@tempdimb
\@fptop	324, 325, 330, 332,	. . 7–10, 67, 68, 74,
288, 290, 291, 293, 457	338, 342, 340, 349,	75, 77, 81, 89, 91, 92,
\@generatefontfile .	354, 355, 360, 362,	94, 98, 106, 108, 109,
. 297, 299, 300	367, 372, 373, 380,	111, 115, 123, 126,
\@ifpackageloaded . . 1, 2	387, 394, 401, 408,	129, 132, 135, 138,
\@ifundefined 549	415, 422, 436, 439,	141, 144, 147, 150,
\@ind . . . 318, 331, 333–	442, 445, 448, 451,	153, 156, 159, 162,
337, 343, 345–354,	454, 457, 460, 463,	170, 172, 174, 188,
361, 363–372, 481–	466, 469, 472, 475,	190, 203, 205, 218,
484, 495–500, 508–	480, 485, 494, 501,	220, 234, 277, 278,
514, 522–524, 532–	507, 515, 521, 525,	280, 282, 284, 289, 294
534, 542–544, 552,	531, 535, 541, 545,	\@tempdimc . 64–66, 68–
554, 555, 557, 559, 561	549, 553, 556, 558,	70, 88, 105, 122, 128,
\@list@extra 177, 184,	560, 562, 563, 566, 567	134, 140, 146, 152, 158
193, 200, 208, 215,	\@pkgextension 323	\@tempswafalse
223, 231, 238, 247,	\@plus 35, 37,	. . . 175, 191, 206,
	41, 43, 49, 51, 55, 57,	221, 236, 249, 258, 267
	167–169, 235, 288, 289	\@tempswatrue

... 177, 193, 208,
223, 238, 251, 260, 269

A

\abovedisplayshortskip
... 75, 83, 92, 100,
109, 117, 334, 346, 364

\abovedisplayskip ..
..... 73, 78,
82, 90, 95, 99, 107,
112, 116, 333, 345, 363

\add@extra@listi 560, 562

\addtolength 9, 65

\aftergroup
... 177, 193, 208,
223, 238, 251, 260, 269

\AtEndOfPackage 27

B

\baselineskip 585

\belowdisplayshortskip
... 76, 85, 93, 102,
110, 119, 336, 348, 366

\belowdisplayskip ..
... 78, 84, 95, 101,
112, 118, 335, 347, 365

\bgroup 583

\bigskipamount .. 169, 432

C

\changefontsize
. 23, 62, 303, 310, 590

\chardef 579

\csname 178, 194,
209, 224, 239, 252,
261, 270, 323, 583, 584

\ctm@setlength
. 31, 73, 75, 76, 90,
92, 93, 107, 109, 110,
171, 173, 187, 189,
202, 204, 217, 219,
233, 279, 281, 283, 294

D

\day 327

\dblfloatsep ... 286, 451

\dbltextfloatsep 287, 454

\DeclareOptionX 3, 4

\do 583

\docsvlist 587

E

\egroup 585

\endcsname .. 178, 194,
209, 224, 239, 252,
261, 270, 323, 583, 584

\ExecuteOptionsX 29

F

\f@baselineskip
... 170, 277, 331,
343, 361, 379, 386,
393, 400, 407, 414, 421

\f@size 165–169, 331, 343,
361, 379, 386, 393,
400, 407, 414, 421, 585

\floatsep 281, 285, 286, 442

\fontsize@lipsum 572, 585

\footins 279, 439

\footnotesep ... 278, 436

\footnotesize ... 113,
114, 358, 360, 361, 559

\fsbslash 579, 584

G

\generate@fontfile .
..... 304, 311, 317

\generatecfile 296, 571

H

\headheight 166, 429

\Huge 160, 161, 418, 420, 421

I

\if@tempwa
... 184, 200, 215,
231, 247, 256, 265, 274

\ifdim 32–34, 40, 47, 48, 54

\InputIfFileExists 13, 17

\intextsep 285, 448

\itemsep 183,
199, 214, 230, 246,
353, 371, 484, 500, 514

K

\kernel@ifnextchar . 297

L

\l@addto@macro
552, 555, 557, 559, 561

\labelsep 227,
242, 255, 264, 273,
497, 510, 524, 534, 544

\labelwidth . 227, 242,
255, 264, 273, 496,
497, 509, 510, 523,
524, 533, 534, 543, 544

\LARGE 148, 149, 404, 406, 407

\Large 142, 143, 397, 399, 400

\leftmargin
180, 196, 211, 226,
227, 241, 242, 254,
255, 263, 264, 272,
273, 350, 368, 481,
495, 508, 522, 532, 542

\leftmargini 180,
196, 211, 350, 368, 481

\leftmarginii 226, 495, 496

\leftmarginiii 241, 508, 509

\leftmarginiv 254, 522, 523

\leftmarginv 263, 532, 533

\leftmarginvi 272, 542, 543

M

\makeatletter 12

\medskipamount .. 168, 431

\month 327

N

\nextitem 582, 583

\noindent 584

P

\p@ 9, 32–35, 37, 40,
41, 43, 47–49, 51, 54,
55, 65, 68, 167–169, 235

\PackageInfo 14, 18

\par@updaterelative 551

\parsep 171,
182, 183, 187, 198,
199, 202, 213, 214,
217, 229, 230, 244,
352, 353, 370, 371,
483, 484, 499, 500, 512

\parskip 302, 309

\partopsep
235, 245, 294, 475, 513

\printfontsize 589

\ProcessOptionsX 30

\protect 559, 561

\providecommand 62

\ProvidesFile 326

S

\scr@v@is@ge 550

\scriptsize
124, 125, 376, 378, 379

\setlength
7, 35, 37, 41, 43, 49,
51, 55, 57, 64, 68, 70,
78, 88, 89, 95, 105,
106, 112, 122, 123,
128, 129, 134, 135,
140, 141, 146, 147,
152, 153, 158, 159,
165–170, 235, 277,
278, 285–293, 302,
309, 428–432, 436,
439, 442, 445, 448,
451, 454, 457, 460,
463, 466, 469, 472, 475

\sizesamples ... 581, 591

<code>\skip</code>	279, 439		
<code>\small</code>	96,	T	204, 212, 219, 228,
	97, 340, 342, 343, 561	<code>\textbf</code>	233, 243, 246, 351,
<code>\smallskipamount</code>	167, 430	<code>\textfloatsep</code>	369, 482, 498, 511, 514
<code>\strip@pt</code>	8, 10, 66	<code>\texttt</code>	Y
		<code>\tiny</code> 130, 131, 383, 385, 386	<code>\year</code>
		<code>\topsep</code> 173, 181, 189, 197,	327