



Ivan Valbusa

The
fontsize
package

v0.3 – 2020/12/19

Legalese

Copyright © 2020-2020 Ivan Valbusa

This package is author-maintained. Permission is granted to copy, distribute and/or modify this software under the terms of the L^AT_EX Project Public License, version 1.3 or later (<http://latex-project.org/lppl>). This software is provided “as is”, without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

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

v0.3 – 2020/12/19

Ivan Valbusa

ivan dot valbusa at gmail dot com

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	8
1.2	Commands	4	References		21

Credits

The code is an excerpt of the `scrxextend` and `scrfontsizes` packages (Neukam et al. 2020), with few minor changes to make it completely independent of the Koma 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 | 10

The $\langle\text{fontsize}\rangle$ can be given in any unit recognized by TeX (for example: 6mm, 1ex, 11.5pt). If the unit is not declared it defaults to pt. If a file named $\text{custom}\langle\text{fontsize}\rangle.\text{clo}$ exists it is used to setup the font sizes. To generate this file see the `\generateclofile` command below.

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

Sets to $\langle\text{name}\rangle$ the name prefix of the `.clo` file to be used to setup the font sizes. In this way, if a file named $\langle\text{name}\rangle\langle\text{fontsize}\rangle.\text{clo}$ exists it is used to setup the font sizes. To generate this file see the `\generateclofile` command below.

1.2 Commands

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

Changes the font size and the line spacing of the normal size and of the other sizes consistently. If the first optional argument is omitted the command has the same effect of the `fontsize` option. You can use any unit recognized by TeX and you can omit the unit as well. For example:

```
\changefontsize[13.5pt]{11.5pt}  
\changefontsize[13]{11}
```

\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 section with the value of the font size and line spacing for all the font size changing commands. The section 2 below is generated by this command.

\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 $\langle\text{name}\rangle\langle\text{fontsize}\rangle.\text{clo}$ in which the normal line spacing is $\langle\text{baselineskip}\rangle$ and the other sizes and line spacings are adjusted consistently. 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 (it requires two runs). You can use any unit recognized by TeX and you can omit the unit as well.

In fact this 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.

(a) Using the the default custom name:

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

(b) Using the `cloname` option:

```
1 \usepackage[fontsize=11.5,cloname=fs]{fontsize} % loads fs11.5.clo
2 \generate{file{fs}[13.5]{11.5}} % generates fs11.5.clo

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

2 An example of font settings

The following framed example is generated by `\printfontsize[13]{11}`.

Settings with `\changefontsize[13]{11}`

The `\tiny` size is: **5.5 pt**.
The `\baselineskip` is 6.48996pt

The `\scriptsize` size is: **7.33339 pt**.
The `\baselineskip` is 8.65334pt

The `\footnotesize` size is: **9.16678 pt**.
The `\baselineskip` is 10.81673pt

The `\small` size is: **10.03757 pt**.
The `\baselineskip` is 11.84425pt

The `\normalsize` size is: **11 pt**.
The `\baselineskip` is 13.0pt

The `\large` size is: **13.19997 pt**.
The `\baselineskip` is 15.57585pt

The `\Large` size is: **15.84003 pt**.
The `\baselineskip` is 18.6911pt

The `\LARGE` size is: **19.00797 pt**.
The `\baselineskip` is 22.42924pt

The `\huge` size is: **22.81406 pt**.
The `\baselineskip` is 26.92041pt

The \Huge size is: 27.36807 pt.

The \baselineskip is 32.29411pt

\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.

\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.

\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.

\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.

\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.

\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.

\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.

\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 paralogisms of practical reason are what first give rise to the architectonic of practical reason.

\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.

\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.

3 The Code

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}}
```

[addition begins...]

New options

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

...addition ends]

Excerpt from `scrextend.sty`

Here the `scrextend` code begins. Only a few names have been changed. The value of `\@fontsizefilebase` is set to `custom` instead of `scrsz`.

```
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 }

```

[*addition begins...*

Execute and process options

Now we can execute and process the options. As `cloname` is responsible for defining `\@fontsizefilebase` it must precede `fontsize` which uses this command.

```

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

```

...addition ends]

The command `\ctm@setlength` is simply a new name for `\scr@setlength` of `scrextend`.

```

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 }

```

The command `\changefontsize` is simply a new name for `\changefontsizes` of `scrextend`.

```

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{\@tempdima}{\@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{\abovedisplayshortskip}{\z@}{.25\@tempdimb}{\z@}%
76   \ctm@setlength{\belowdisplayshortskip}%
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     \abovedisplayshortskip \the\abovedisplayshortskip
84     \belowdisplayskip \the\belowdisplayskip
85     \belowdisplayshortskip \the\belowdisplayshortskip
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{\abovedisplayskip}{\z@}{.25\@tempdimb}{\z@}%
110  \ctm@setlength{\belowdisplayskip}%
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    \abovedisplayskip \the\abovedisplayskip
118    \belowdisplayskip \the\belowdisplayskip
119    \belowdisplayskip \the\belowdisplayskip
120    \let\noexpand\@listi\noexpand\@listi@footnotesize
121  }%
122  \setlength{\@tempdima}{.6667\@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%

```

[*addition begins...*

New lengths

The Koma code does 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.

```

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

```

In the following 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.

Main font size	10	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11
Line spacing	12	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	11
<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	12
<code>\medskipamount</code>	± 2 pt	5.5	5.55	5.6	5.65	5.7	5.75	5.8	5.85	5.9	6
<code>\smallskipamount</code>	± 1 pt	2.75	2.78	2.8	2.82	2.85	2.88	2.9	2.93	2.95	3

...*addition ends*]

```

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\@listextra{\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\@tempswatrue}%
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\@tempswatrue}%
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\@tempswatrue}%
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@tempswa\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@tempswa\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@tempswa\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@tempswa\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{\@fpbot}{\@fptop}%
291 \setlength{\@dblftop}{\@fptop}%
292 \setlength{\@dblpsep}{\@fpsep}%
293 \setlength{\@dblpbot}{\@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 `\changefontsize[#2]{#3}` in place of `\changefontsize[{#2}]{#3}` of the scrfontsizes code.

```

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 \begingroup\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 \begingroup\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 \begingroup\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 \begingroup\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}%

```

[*addition begins...*

New lengths in the .clo file.

The new lengths previously defined are recalled here and written in the .clo file.

```

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

```

...addition ends]

```

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\@dblftop}{\the\@dblftop}\@percentchar
467 }%
468 \immediate\write\@fontfile{%
469   \string\setlength{\string\@dblpsep}{\the\@dblpsep}\@percentchar
470 }%
471 \immediate\write\@fontfile{%
472   \string\setlength{\string\@dblpbot}{\the\@dblpbot}\@percentchar
473 }%
474 \immediate\write\@fontfile{%
475   \string\setlength{\string\partopsep}{\the\partopsep}\@percentchar
476 }%
477 \begingroup
478 \@listi
479 \immediate\write\@fontfile{%
480   \string\def\string\@listi{\@percentchar^^J%
481     \@ind\string\leftmargin\string\leftmarginii^^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@updaterelative\string\fi^^J%
552     \@ind\string\l@addto@macro{\string\@listi}{\string\@list@extra}%
553     \@percentchar^^J%
554     \@ind\string\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\generatecfile

```

[*addition begins...*

New commands

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

```

572 \def\fs@exttext{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 paralogisms
576 of practical reason are what first give rise to the architectonic of
577 practical reason.}
578 \chardef\fsbslash='\
579 \newcommand{\mysize}[1]{%
580   \bgroup\noindent\csname#1\endcsname
581   The \texttt{\fsbslash #1} size is: \textbf{\csname#1\endcsname\fontsize\,pt}.\
582   The \texttt{\fsbslash baselineskip} is \the\baselineskip\par\vskip2mm\egroup}
583 \newcommand{\mysizeex}[1]{%
584   \paragraph*{\csname #1\endcsname \texttt{\fsbslash #1}
585     \textmd{\fontsize pt on \the\baselineskip}}\
586     \noindent\bgroup\raggedright\csname #1\endcsname\fs@exttext\par\egroup}
587 \newcommand{\printfontsize}[2][]{%
588   \section*{Settings with \texttt{\fsbslash changefontsize[#1]\{#2\}}}%
589   \changefontsize[#1]{#2}
590   \mysize{tiny}\mysize{scriptsize}\mysize{footnotesize}\mysize{small}
591   \mysize{normalsize}\mysize{large}\mysize{Large}\mysize{LARGE}
592   \mysize{huge}\mysize{Huge}
593   \mysizeex{tiny}\mysizeex{scriptsize}\mysizeex{footnotesize}
594   \mysizeex{small}\mysizeex{normalsize}\mysizeex{large}\mysizeex{Large}
595   \mysizeex{LARGE}\mysizeex{huge}\mysizeex{Huge}
596 }

```

...*addition ends*]

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		v0.3
General: First public release	1	General: Added definitions of some lengths omitted from Koma files: \smallskiamount, \medskiamount, \bigskiamount. Redefined \parindent and \headheight.
v0.2		1
General: Updated documentation and code comments.	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		
\,	581	534, 542–544, 552, 554, 555, 557, 559, 561
\@@generatefontfile	314	\@list@extra 177, 184, 193, 200, 208, 215, 223, 231, 238, 247, 251, 256, 260, 265, 269, 274, 552, 555, 557
\@generatefontfile	297, 307	\@listI 86, 186, 337, 489, 554
\@dblfpbot	293, 472	\@listi 86, 103, 120, 180, 186, 276, 337, 340, 349, 358, 367, 478, 480, 489, 552, 554, 564
\@dblfpsep	292, 469	\@listi@footnotesize 120, 211
\@dblftop	291, 466	\@listi@small . 103, 196
\@defaultunits . 5, 63, 67		\@listii 226, 492, 494, 555
\@fontfile . 315, 316, 319, 320, 329, 341, 359, 377, 384, 391, 398, 405, 412, 419, 425, 427, 435, 438, 441, 444, 447, 450, 453, 456, 459, 462, 465, 468, 471, 474, 479, 488, 493, 506, 520, 530, 540, 548, 569		\@listiii 241, 505, 507, 557
\@fontsizefilebase . 3, 13, 15, 17, 19, 21		\@listiv . . . 254, 519, 521
\@fpbot	290, 463	\@listv . . . 263, 529, 531
\@fpsep	289, 292, 460	\@listvi . . . 272, 539, 541
\@fptop	288, 290, 291, 293, 457	\@mainaux 316
\@generatefontfile	297, 299, 300	\@minus 35, 37, 41, 43, 49, 51, 55, 57, 167–169, 235
\@ifpackageloaded . 1, 2		\@nnil . . 5, 63, 67, 71, 72
\@ifundefined	549	\@onlypreamble 571
\@ind . . 318, 331, 333–337, 343, 345–354, 361, 363–372, 481–484, 495–500, 508–514, 522–524, 532–		\@percentchar 320–322, 324, 325, 330, 332, 338, 342, 344, 349, 354, 355, 360, 362, 367, 372, 373, 380, 387, 394, 401, 408,
		415, 422, 436, 439, 442, 445, 448, 451, 454, 457, 460, 463, 466, 469, 472, 475, 480, 485, 494, 501, 507, 515, 521, 525, 531, 535, 541, 545, 549, 553, 556, 558, 560, 562, 563, 566, 567
		\@pkgextension 323
		\@plus 35, 37, 41, 43, 49, 51, 55, 57, 167–169, 235, 288, 289
		\@ptsize 10, 66
		\@setfontsize 80, 97, 114, 125, 131, 137, 143, 149, 155, 161, 331, 343, 361, 379, 386, 393, 400, 407, 414, 421
		\@tempa 6, 11, 13, 15, 21, 27, 71, 72
		\@tempb 8, 17, 19, 69, 72, 89, 106, 123, 129, 135, 141, 147, 153, 159
		\@tempdima 5, 7, 62–64, 68, 70, 81, 88, 89, 98, 105, 106, 115, 122, 123, 126, 128, 129, 132, 134, 135, 138, 140, 141, 144, 146, 147, 150, 152, 153, 156, 158, 159, 162
		\@tempdimb 7–10, 67, 68, 74, 75, 77,

81, 89, 91, 92, 94,
98, 106, 108, 109,
111, 115, 123, 126,
129, 132, 135, 138,
141, 144, 147, 150,
153, 156, 159, 162,
170, 172, 174, 188,
190, 203, 205, 218,
220, 234, 277, 278,
280, 282, 284, 289, 294
\@tempdimc
.. 64–66, 68–70,
88, 105, 122, 128,
134, 140, 146, 152, 158
\@tempswafalse
... 175, 191, 206,
221, 236, 249, 258, 267
\@tempwatrue
... 177, 193, 208,
223, 238, 251, 260, 269
\{ 588
\} 588

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 . 582, 585
\belowdisplayshortskip
.. 76, 85, 93, 102,
110, 119, 336, 348, 366
\belowdisplayskip .
.. 78, 84, 95, 101,
112, 118, 335, 347, 365
\bgroup 580, 586
\bigskipamount . 169, 432

C

\changefontsize ...
23, 62, 303, 310, 589
\chardef 578

\csname
178, 194, 209, 224,
239, 252, 261, 270,
323, 580, 581, 584, 586
\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

E

\egroup 582, 586
\endcsname
178, 194, 209, 224,
239, 252, 261, 270,
323, 580, 581, 584, 586
\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, 581, 585
\floatsep 281, 285, 286, 442
\footins 279, 439
\footnotesep .. 278, 436
\footnotesize . 113,
114, 358, 360, 361, 559
\fs@exttext 572, 586
\fsbslash
578, 581, 582, 584, 588

G

\generate@fontfile
..... 304, 311, 317
\generate@clofile 296, 571

H

\headheight ... 166, 429
\Huge 160, 161, 418, 420, 421

I

\if@tempswa
... 184, 200, 215,
231, 247, 256, 265, 274
\ifdim 32–34, 40, 47, 48, 54
\InputIfFileExists
..... 13, 17
\intertextsep 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
\mysize ... 579, 590–592
\mysizeex .. 583, 593–595

N
\noindent 580, 586

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
\paragraph 584
\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 . . . 587
\ProcessOptionsX . . . 30
\protect 559, 561

\providecommand 62
\ProvidesFile 326

R
\raggedright 586

S
\scr@v@is@ge 550
\scriptsize
124, 125, 376, 378, 379
\section 588
\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
\skip 279, 439
\small 96,
97, 340, 342, 343, 561
\smallskipamount 167, 430
\strip@pt 8, 10, 66

T
\textbf 581
\textfloatsep
. 283, 287, 445
\textmd 585
\texttt 581, 582, 584, 588
\tiny 130, 131, 383, 385, 386
\topsep
173, 181, 189, 197,
204, 212, 219, 228,
233, 243, 246, 351,
369, 482, 498, 511, 514

Y
\year 327