The ragged2e-package*

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 $\verb|https://gitlab.com/TeXhackse/ragged2e|^\dagger|$

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Abstract

This package provides new commands and environments for setting ragged text which are easy to configure to allow hyphenation. An earlier attempt to do this was the style raggedright [9] by the same author.

Contents

1	The	problem	2
2	2.1	"solutions" IATEX	2 2 2
3	Our	solution	3
	3.1	The macros	3
	3.2	The parameters	3
	3.3	The environments	5
4	Opt	ions	5
5	Req	uired packages	6
6	The	implementation	6
	6.1	Initial Code	6
	6.2	Declaration of options	7
		6.2.1 original commands option	7
		6.2.2 originalparameters option	7
		6.2.3 raggedrightboxes option	7
		6.2.4 footnotes option	8
		6.2.5 document option	8
		6.2.6 Other options	9
	6.3	Executing options	9
	6.4	Loading packages	9
	6.5	Allocations	10

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7	Ack	nowledgements	15
	6.10	Overloading the LATEX-commands	15
		The environments	
	6.8	The commands	12
	6.7	Distinguishing between monospaced and proportional fonts .	11
	6.6	Initializations	10

1 The problem

IATEX has three commands (\centering, \raggedleft, and \raggedright) and three environments (center, flushleft, and flushright) to typeset ragged text. The environments are based upon the commands (center uses \centering, flushleft \raggedright, and flushright \raggedleft).

These commands have, however, one serious flaw: they render hyphenation almost impossible, and thus the text looks *too* ragged, as the following example shows:

\raggedright: "The \LaTeX document preparation system is a special version of Donald Knuth's TeX program. T_FX is a sophisticated program designed to produce high-quality typesetting, especially for mathematical text." [5, p. xiii]

\RaggedRight:
"The LATEX document preparation system is a special version of Donald Knuth's TEX program. TEX is a sophisticated program designed to produce high-quality type-setting, especially for mathematical text." [5, p. xiii]

2 Old "solutions"

2.1 LATEX

LATEX defines e.g. \raggedright as follows:

 $1 \langle *latex \rangle$

- 3 \raggedright{%
- 4 \let\\\@centercr
- 5 \@rightskip\@flushglue
- 6 \rightskip\@rightskip
- $7 \neq 7$
- 8 \leftskip\z@skip
- 9 \parindent\z0}

Initially, \Oflushglue is defined as

10 \Offushglue = Opt plus 1fil

11 (/latex)

Thus the \rightskip is set to Opt plus 1fil. Knuth, however warns [4, p. 101]:

"For example, a person can set \rightskip=0pt plus 1fil, and every line will be filled with space to the right. But this isn't a particularly good way to make ragged-right margins, because the infinte stretchability will assign zero badness to lines that are very short. To do a decent job of ragged-right setting, the trick is to set \rightskip so that it will stretch enough to make line breaks possible, yet not too much, because short lines should be considered bad. Furthermore the spaces between words should be fixed so that they do not stretch or shrink."

2.2 plain

plain TEX defines an special version of \raggedright, which

operates the way Knuth describes 16 \xspaceskip.5em\relax} it; but which can not be used whith plain provides also a version of LATEX, because LATEX redefines \raggedright for typewriter fonts \raggedright. 12 (*plain) 17 \def\ttraggedright{% 13 \def\raggedright{% \rightskip\z@ plus2em \rightskip\z@ plus2em\relax} 19 \spaceskip.3333em 20 (/plain)

Our solution 3

Since the plain solution can not be used with LATEX, we have to redefine it and make it possible to configure it for personal preferences.

3.1 The macros

\Centering \Centering, \RaggedLeft, and \RaggedRight can be used in the same \RaggedLeft way as \centering, \raggedleft, and \raggedright: Just type the \RaggedRight command, and after that the whole text will be set centered, ragged-left or ragged-right.

> For example, we switched on \RaggedRight on the top of this text, and consequently this text was set ragged-right.*

\justifying \justifying switches back to justified text after ragged text has been switched on.

> The new commands \Centering, \RaggedLeft, and \RaggedRight are fully compatible with their counterparts in LATEX, but implement the plain solution and can be easily configured using the following parameters:

3.2 The parameters

Command	Uses
\Centering	\CenteringLeftskip, \CenteringRightskip,
	\CenteringParfillskip, \CenteringParindent
\RaggedLeft	\RaggedLeftLeftskip, \RaggedLeftRightskip,
	\RaggedLeftParfillskip, \RaggedLeftParindent
\RaggedRight	\RaggedRightLeftskip, \RaggedRightRightskip,
	\RaggedRightParfillskip, \RaggedRightParindent
\justifying	\JustifyingParfillskip, \JustifyingParindent

All Parameters can be set with \setlength, e.g.

\setlength{\RaggedRightRightskip}{Opt plus 1em}

New feature 2003/01/04

^{*}For this documentation we also set \RaggedRightRightskip higher than usual (Opt plus 4em instead of Opt plus 2em) because of all the long command names which make linebreaking difficult.

3 OUR SOLUTION

4

sets \RaggedRightRightskip to Opt plus 1em.

\RaggedLeftLeftskip \RaggedRight.

\CenteringLeftskip These are the \leftskips inserted by \Centering, \RaggedLeft, and

\RaggedRightLeftskip

"\leftskip (glue at left of justified lines)" [4, p. 274]

\leftskip must be set to a finite value, to make hyphenation possible. Setting it to infinite values like Opt plus 1fil makes hyphenation almost impossible.

\RaggedLeftRightskip \RaggedRight. \RaggedRightRightskip

\CenteringRightskip These are the \rightskips inserted by \Centering, \RaggedLeft, and

"\rightskip (glue at right of justified lines)" [4, p. 274]

\rightskip must be set to a finite value, to make hyphenation possible. Setting it to infinite values like Opt plus 1fil makes hyphenation almost impossible.

\RaggedRightParfillskip \JustifyingParfillskip

\CenteringParfillskip These are the \parfillskips inserted by \Centering, \RaggedLeft, \RaggedLeftParfillskip \RaggedRight, and \justifying.

> "\parfillskip (additional \rightskip at end of paragraphs)" [4, p. 274]

The normal setting for \parfillskip is Opt plus 1fil; the parameters are provided for testing combinations of \{left|right}skip and \parfillskip.

\RaggedRightParindent \JustifyingParindent

\CenteringParindent These are the \parindents used by \Centering, \RaggedLeft, \RaggedLeftParindent \RaggedRight, and \justifying.

"\parindent (width of \indent)" [4, p. 274]

\parindent is the indent of the first line of a paragraph and should be set to Opt, since indented lines in ragged text do not look good.

The parameters have the following initial setting:

4 OPTIONS 5

Parameter	LATEX setting	ragged2e $\operatorname{setting}^\dagger$
\CenteringLeftskip	Opt plus 1fil	Opt plus 2em
\RaggedLeftLeftskip	Opt plus 1fil	Opt plus 2em
\RaggedRightLeftskip	Opt plus Opt	Opt plus Opt
	minus Opt	minus Opt
$\$ CenteringRightskip	Opt plus 1fil	Opt plus 2em
\RaggedLeftRightskip	Opt plus Opt	Opt plus Opt
	minus Opt	minus Opt
\RaggedRightRightskip	Opt plus 1fil	Opt plus 2em
\CenteringParfillskip	Opt plus Opt	Opt plus Opt
	minus Opt	minus Opt
\RaggedLeftParfillskip	Opt plus Opt	Opt plus Opt
	minus Opt	minus Opt
\RaggedRightParfillskip	Opt plus 1fil	Opt plus 1fil
\CenteringParindent	0pt	0pt
\RaggedLeftParindent	0pt	0pt
\RaggedRightParindent	0pt	0pt
\J ustifying P arfillskip		Opt plus 1fil
\JustifyingParindent		\parindent

3.3 The environments

 ${\tt Center} \ ({\it env.}) \ {\tt Center} \ is \ {\tt fully} \ compatible \ with \ {\tt center}, \ but \ uses \ {\tt Ventering} \ instead \ of \ {\tt ventering}.$

justify (env .) justify is like the other environments but uses \justifying .

New feature 2003/01/04

E.g. FlushLeft can be used in the same way as flushleft:

 $\begin{FlushLeft} $$ \langle text, \ which \ is \ set \ ragged-right \rangle $$ \end{FlushLeft}$

4 Options

This package has the following options:

original commands The LATEX-commands \centering, \raggedleft, and \raggedright and the LATEX-environments center, flushleft, and flushright remain unchanged.

It is the default.

 $^{^\}dagger For$ proportional and monospaced fonts.

newcommands The LATEX-commands \centering, \raggedleft, and \raggedright and the LATEX-environments center, flushleft, and flushright are set equal to their counterparts defined by ragged2e. Thus \raggedright invokes \RaggedRight. The original commands can be accessed unter the Names \LaTeX\langle original name \rangle, e.g. \LaTeX\raggedright.

original parameters. The parameters used by the commands implemented by ragged 2e are initialized with the default settings used by L^AT_EX.

newparameters The parameters used by the commands implemented by ragged2e are initialized with the default settings defined by ragged2e. It is the default.

raggedrightboxes All \parboxes, minipages, \marginpars and p-columns of tabulars and arrays are automatically set using \RaggedRight.

footnotes This options sets all footnotes ragged-right by loading the footmisc [2] package with the ragged option.

document This options sets the complete document ragged-right by executing a \RaggedRight at \begin\{document\} and the raggedright-boxes and the footnotes options.

All other options are passed to the footmisc package if the footnotes option is selected.

5 Required packages

This package requires the following packages:

everysel [8] (only if format older than 2021/01/05) It has been used to distinguish between monospaced and proportional fonts as long as the LaTeX kernel did not provide the functionality with lthooks [6]. Formats newer than 2021/01/05 do no longer depend on everysel.

footmisc [2] It is used by the footnotes and the document options; at least version 5.00 (2002/08/28) is needed.

6 The implementation

 $21 \langle *package \rangle$

6.1 Initial Code

\if@raggedtwoe@originalcommands \if@raggedtwoe@originalcommands is used to flag the use of the original-commands or newcommands option.

22 \newif\if@raggedtwoe@originalcommands

New feature 2003/01/18

New feature 2003/01/18

New feature 2003/01/18

\if@raggedtwoe@originalparameters \if@raggedtwoe@originalparameters is used to flag the use of the original parameters or newparameters option.

23 \newif\if@raggedtwoe@originalparameters

\if@raggedtwoe@footmisc \if@raggedtwoe@footmisc is used to flag the use of the footnotes option.

24 \newif\if@raggedtwoe@footmisc

Declaration of options 6.2

original commands option

The original commands and newcommands options control the meaning of the LATEX-commands for ragged text: If newcommands is used the LATEX-commands are set equal to the commands defined by ragged2e.

- 26 \DeclareOption{originalcommands}{\@raggedtwoe@originalcommandstrue}
- 27 \DeclareOption{NewCommands}{\@raggedtwoe@originalcommandsfalse}
- $28 \label{lem:commands} $$ \end{commands} {\end{commandsfalse}} $$$

6.2.2original parameters option

The original parameters and newparameters options control the defaults for the parameters used by the commands implemented by ragged2e: If newparameters is used the parameters are set to the values defined by ragged2e.

- 29 \DeclareOption{OriginalParameters}{\@raggedtwoe@originalparameterstrue}
- 30 \DeclareOption{originalparameters}{\OraggedtwoeOoriginalparameterstrue}
- 32 \DeclareOption{newparameters}{\OraggedtwoeOoriginalparametersfalse}

6.2.3raggedrightboxes option

The option raggedrightboxes sets all \parboxes, minipages, \marginpars and p-columns of tabulars and arrays using \RaggedRight. This is done by redefining \@arrayparboxrestore.

\@raggedtwoe@raggedrightboxes@opt \@raggedtwoe@raggedrightboxes@opt is the code executed via \DeclareOption.

33 \newcommand*{\@raggedtwoe@raggedrightboxes@opt}{

First we check if \@arrayparboxrestore is unchanged.

- \CheckCommand*{\@arrayparboxrestore}{%
- 35 \let\if@nobreak\iffalse
- \let\if@noskipsec\iffalse 36
- \let\par\@@par 37
- \let\-\@dischyph 38
- \let\'\@acci\let\'\@accii\let\=\@acciii 39

```
\parindent\z@ \parskip\z@skip
40
      \everypar{}%
41
      \linewidth\hsize
42
      \@totalleftmargin\z@
43
      \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip
44
      \parfillskip\@flushglue
45
      \lineskip\normallineskip
46
      \lineskiplimit\normallineskiplimit
47
48
      \baselineskip\normalbaselineskip
49
      \sloppy}%
```

Then we redefine it by removing the setting of \leftskip, \rightskip, \Qrightskip and \parfillskip and instead calling \RaggedRight.

```
\renewcommand{\@arrayparboxrestore}{%
50
51
      \let\if@nobreak\iffalse
       \let\if@noskipsec\iffalse
52
      \let\par\@@par
53
      \let\-\@dischyph
54
      \let\',\@acci\let\',\@accii\let\=\@acciii
55
56
      \parskip\z@skip
      \everypar{}%
57
      \linewidth\hsize
58
      \@totalleftmargin\z@
59
      \RaggedRight
60
61
      \lineskip\normallineskip
      \baselineskip\normalbaselineskip
62
      \lineskiplimit\normallineskiplimit
63
      \sloppy}%
64
```

Now we self-destroy so the command can be called more than once without causing harm (and it also frees up some space).

```
65 \let\@raggedtwoe@raggedrightboxes@opt\relax
66 }
```

Finally the declaration of the option.

67 \DeclareOption{raggedrightboxes}{\OraggedtwoeOraggedrightboxesOopt}

6.2.4 footnotes option

The option footnotes just sets a flag (\ightarrow (\ightarrow) to load the footmisc package and passes the option ragged to it.

```
68 \DeclareOption{footnotes}{%
69      \@raggedtwoe@footmisctrue
70      \PassOptionsToPackage{ragged}{footmisc}%
71  }
```

6.2.5 document option

The option document sets the complete document ragged-right by executing \RaggedRight via \AtBeginDocument and also executing the raggedrightboxes option.

\@raggedtwoe@abdhook \@raggedtwoe@abdhook is the code executed via \AtBeginDocument: Give a message on the terminal, execute \RaggedRight and self-destroy. We also make \@tocrmarg flexible; otherwise long lines in the table of contents (and similar tables) would not be broken because the spaceskip is rigid.

```
72 \newcommand{\@raggedtwoe@abdhook}{%
    \PackageInfo{ragged2e}{ABD: executing \string\RaggedRight}%
    \RaggedRight
74
    \@ifundefined{@tocrmarg}{}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
75
76
   \let\@raggedtwoe@abdhook\relax
```

\CraggedtwoeCdocumentCopt \CraggedtwoeCdocumentCopt is the code executed via \DeclareOption: Insert the code into \AtBeginDocument, execute the raggedrightboxes and footnotes options and self-destroy.

```
78 \newcommand{\@raggedtwoe@document@opt}{%
    \AtBeginDocument{\@raggedtwoe@abdhook}%
79
80
    \@raggedtwoe@raggedrightboxes@opt
    \@raggedtwoe@footmisctrue
81
    \let\@raggedtwoe@document@opt\relax
82
83
```

Finally the declaration of the option.

84 \DeclareOption{document}{\@raggedtwoe@document@opt}

6.2.6Other options

All unused options are passed to the footmisc package if the footnotes option is selected; otherwise the usual error is raised.

```
85 \DeclareOption*{%
    \if@raggedtwoe@footmisc
86
      \PassOptionsToPackage{\CurrentOption}{footmisc}%
87
    \else
88
      \OptionNotUsed
89
90
    \fi
91
    }
```

6.3 Executing options

The default options are original commands and newparameters.

```
92 \ExecuteOptions{originalcommands, newparameters}
93 \ProcessOptions\relax
```

6.4 Loading packages

We need the everysel package for older kernels.

```
94 \providecommand\IfFormatAtLeastTF{\@ifl@t@r\fmtversion}
95 \IfFormatAtLeastTF{2021/01/05}{}{\RequirePackage{everysel}}
```

If the option footnotes is selected, we load the footmisc package after we are finished (footmisc detects our presence by looking for the definition of \RaggedRight, so we can not load it just now).

```
96 \if@raggedtwoe@footmisc
97 \RequirePackage{footmisc}[2002/08/28]
98 \fi
```

6.5 Allocations

6.6 Initializations

Depending on $\footnote{\footnote{LAT}_EX}$ uses for its own commands or with our new parameters.

```
113 \if@raggedtwoe@originalparameters
      \CenteringLeftskip\@flushglue
114
115
      \RaggedLeftLeftskip\@flushglue
116
      \RaggedRightLeftskip\z@skip
      \CenteringRightskip\@flushglue
117
      \verb|\RaggedLeftRightskip|| z@skip|
118
      \RaggedRightRightskip\@flushglue
119
      \CenteringParfillskip\z@skip
120
121
      \RaggedLeftParfillskip\z@skip
      \RaggedRightParfillskip\@flushglue
122
      \CenteringParindent\z@
123
124
      \RaggedLeftParindent\z@
125
      \RaggedRightParindent\z@
126 \else
      \CenteringLeftskip\z@\@plus\tw@ em
127
      \RaggedLeftLeftskip\z@\@plus\tw@ em
128
129
      \RaggedRightLeftskip\z@skip
      \CenteringRightskip\z@\@plus\tw@ em
130
131
      \RaggedLeftRightskip\z@skip
132
      \RaggedRightRightskip\z@\@plus\tw@ em
```

```
\CenteringParfillskip\z@skip
133
      \verb|\RaggedLeftParfillskip| z@skip|
134
      \RaggedRightParfillskip\@flushglue
135
      \CenteringParindent\z@
136
      \RaggedLeftParindent\z@
137
138
      \RaggedRightParindent\z@
139 \fi
140 \JustifyingParfillskip\@flushglue
141 \JustifyingParindent\parindent
```

6.7 Distinguishing between monospaced and proportional fonts

To set ragged text with proportional fonts and monospaced fonts correctly, we must distinguish between these two kinds of fonts everytime a font is loaded. Otherwise the settings for e.g. a proportional fonts would be in effect if you start \RaggedRight in \rmfamily and then switch to \ttfamily.

The goal is to have a rigid interword space in all fonts. TEX's interword space is \fontdimen2 plus \fontdimen3 minus \fontdimen4. This can be overwritten by setting \spaceskip (space between words, if nonzero) and \xspaceskip (space at the end of sentences, if nonzero).

We do the setting with the help of everysel [8], which allows us to define code which is (hopefully) executed after every fontchange in a LATEX document.

\if@raggedtwoe@spaceskip \if@raggedtwoe@spaceskip signals the use of commands defined by ragged2e to the command inserted into \selectfont. It is set to true by these commands and restored to false by TEX when the scope of them

142 \newif\if@raggedtwoe@spaceskip

\@raggedtwoe@everyselectfont \@raggedtwoe@everyselectfont is our code inserted into \selectfont.

```
143 \newcommand{\@raggedtwoe@everyselectfont}{%
```

\if@raggedtwoe@spaceskip

If no command defined by ragged2e is in use, we do nothing. But if it is, we look at \fontdimen3 to see if the current font is monospaced or not.

\ifdim\fontdimen\thr@@\font=\z@\relax

If it is, we set \spaceskip to Opt so the interword space will be the one specified by the font designer – which is rigid anyway for monospaced fonts.

```
146
          \spaceskip\z@
147
```

[‡]It is executed after every \selectfont, so if you stay within NFSS and don't declare your fonts with commands like \newfont and then switch to them, it will work.

For proportional fonts we make the interword space rigid by setting \spaceskip to \fontdimen2.

```
148
         \spaceskip\fontdimen\tw@\font
149
```

We have to reset the interword space if we are not active.

```
\else
150
        \spaceskip\z@
151
     \fi
152
153
     }
```

If our kernel is new enough we use the kernel hook directly instead of the everysel macro.

```
154 \IfFormatAtLeastTF{2021/01/05}
155 {\AddToHook{selectfont}{\@raggedtwoe@everyselectfont}}
156 {\EverySelectfont{\@raggedtwoe@everyselectfont}}
```

6.8 The commands

\@raggedtwoe@savedcr We save the definition of \\textbackslash in \@raggedtwoe@savedcr.

157 \let\@raggedtwoe@savedcr\\

\@raggedtwoe@saved@gnewline We save the definition of \@gnewline in \@raggedtwoe@saved@gnewline.

158 \let\@raggedtwoe@saved@gnewline\@gnewline

\@raggedtwoe@centercrNoindent With the bugfix in version 3.2 we also take care of the indent which might be set when ragged2e's newline definition or \@centercr are triggered. This can be easily archieved using the ltpara hooks. This is not a final solution for this because on the long run one has to replace the paragraph break within \@centercr to match the content structure for tagging.

```
159 \def\@raggedtwoe@centercrNoindent{%
160 \AddToHookNext{para/begin}{\OmitIndent}%
161 \@centercr%
162 }
```

\@raggedtwoe@gnewline The following definition of a \@gnewline used by the ragged commands was suggested by Markus Kohm:

```
163 \newcommand*{\@raggedtwoe@gnewline}[1]{%
164
     \ifvmode
165
       \@nolnerr
166
     \else
        \unskip
167
       \ifmmode
```

In formulas we adjusted the original code of \g@newline to a negative fill to match the alignment of text. Outside those we use \@centercr to remove the added parskip.

\reserved@e {\reserved@f #1}\nobreak \hskip\z@ \break 169

```
170 \else
171 \reserved@e {\reserved@f #1}%
172 \@raggedtwoe@centercrNoindent
173 \fi
174 \fi
175 }
```

\Centering \Centering first lets \\textbackslash = \@centercr, but only if \\ has its original meaning, otherwise \Center would not work inside environments like tabular etc., in which \\textbackslash has a different meaning. It also sets \@gnewline to \@raggedtwoe@gnewline. Then, the IATEX and TEX-parameters are set.

"Every environment, like the list environments, that set \rightskip to its 'normal' value set it to \@rightskip" [1]

Finally we signal the code inserted into \selectfont that we are active and call that code directly.

```
176 \DeclareRobustCommand{\Centering}{%
      \ifx\\\@raggedtwoe@savedcr
178
         \let\\\@raggedtwoe@centercrNoindent
179
      \fi
180
      \let\@gnewline\@raggedtwoe@gnewline
181
      \leftskip\CenteringLeftskip
182
      \@rightskip\CenteringRightskip
      \rightskip\@rightskip
183
      \parfillskip\CenteringParfillskip
184
185
      \parindent\CenteringParindent
186
      \@raggedtwoe@spaceskiptrue
187
      \@raggedtwoe@everyselectfont
```

\RaggedLeft is like \Centering; it only uses other parameters.

```
189 \DeclareRobustCommand{\RaggedLeft}{%
      \ifx\\\@raggedtwoe@savedcr
190
         \let\\\@raggedtwoe@centercrNoindent
191
192
      \let\@gnewline\@raggedtwoe@gnewline
193
      \leftskip\RaggedLeftLeftskip
194
      \@rightskip\RaggedLeftRightskip
195
      \rightskip\@rightskip
196
      \parfillskip\RaggedLeftParfillskip
197
198
      \parindent\RaggedLeftParindent
199
      \@raggedtwoe@spaceskiptrue
      \@raggedtwoe@everyselectfont
200
201
```

\RaggedRight \RaggedRight is like \Centering; it only uses other parameters.

```
202 \DeclareRobustCommand{\RaggedRight}{% 203 \ifx\\\@raggedtwoe@savedcr
```

```
\let\\\@raggedtwoe@centercrNoindent
 204
                                              \fi
 205
                                              \let\@gnewline\@raggedtwoe@gnewline
 206
                                              \verb|\label{leftskip|} $$ \end{tikzp} $$ \end{tikzp}
 207
                                              \@rightskip\RaggedRightRightskip
 208
                                              \rightskip\@rightskip
 209
                                              \parfillskip\RaggedRightParfillskip
 210
                                                 \parindent\RaggedRightParindent
 211
 212
                                              \@raggedtwoe@spaceskiptrue
 213
                                              \@raggedtwoe@everyselectfont
214
```

\justifying \justifying switches back to the defaults used by IATEX for typesetting justyfied text.

```
215 \DeclareRobustCommand{\justifying}{%
       \let\\\@raggedtwoe@savedcr
       \verb|\label{lem:constraint}| \textbf{Qraggedtwoe@saved@gnewline}|
217
       \leftskip\z@
218
219
       \@rightskip\z@
       \rightskip\@rightskip
220
       \parfillskip\JustifyingParfillskip
221
222
       \parindent\JustifyingParindent
223
       \@raggedtwoe@spaceskipfalse
224
       \@raggedtwoe@everyselectfont
225
```

6.9 The environments

Center (env.) The environments Center, FlushLeft, and \FlushRight are implemented FlushLeft (env.) like their counterparts in \LaTeX : Start a trivlist and switch on the right FlushRight (env.) command.

```
226 \newenvironment{Center}{%
      \trivlist
227
      \Centering\item\relax
228
      }{%
229
230
      \endtrivlist
231
232 \newenvironment{FlushLeft}{%
233
      \trivlist
      \RaggedRight\item\relax
234
235
236
      \endtrivlist
237
238 \newenvironment{FlushRight}{%
      \trivlist
239
      \RaggedLeft\item\relax
240
      ጉና%
241
242
      \endtrivlist
```

justify (env.) justify is similar to the other environments: Start a trivlist and use

```
\justifying.

244 \newenvironment{justify}{%}

245 \trivlist

246 \justifying\item\relax

247 }{%}

248 \endtrivlist

249 }
```

6.10 Overloading the LaTeX-commands

If the option newcommands is used, we save the original LATEX-commands and environments for ragged text and overload them.

```
250 \if@raggedtwoe@originalcommands
251 \else
252
      \let\LaTeXcentering\centering
253
      \let\LaTeXraggedleft\raggedleft
254
      \let\LaTeXraggedright\raggedright
      \let\centering\Centering
255
      \let\raggedleft\RaggedLeft
256
257
      \let\raggedright\RaggedRight
258
      \let\LaTeXcenter\center
259
      \let\endLaTeXcenter\endcenter
260
      \let\LaTeXflushleft\flushleft
      \let\endLaTeXflushleft\endflushleft
261
262
      \let\LaTeXflushright\flushright
263
      \let\endLaTeXflushright\endflushright
264
      \let\center\Center
      \let\endcenter\endCenter
265
      \let\flushleft\FlushLeft
266
267
      \let\endflushleft\endFlushLeft
      \let\flushright\FlushRight
268
269
      \let\endflushright\endFlushRight
270 \fi
271 (/package)
```

7 Acknowledgements

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REFERENCES 16

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Index 17

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	\@totalleftmargin 43, 59
\'	\\
\	177, 178, 190, 191, 203, 204, 216
\=	\' 39, 55
\@0par 37, 53	
\@acci 39, 55	A
\Qaccii	\AddToHook
\@acciii 39, 55 \@arrayparboxrestore 34, 50	\AtBeginDocument 79
\@centercr 4, 161	(Acbeginbocument
\@dischyph	В
\@flushglue 5, 10, 45,	\baselineskip 48, 62
114, 115, 117, 119, 122, 135, 140	\break 169
\Ognewline 158, 180, 193, 206, 217	
\@ifl@t@r 94	C
\@ifundefined	\Center
\@nolnerr 165	Center (env.)
\@plus 127, 128, 130, 132	\center
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\tentering
\@raggedtwoe@centercrNoindent <u>159</u> , 172, 178, 191, 204	\Centering Leftskip 99, 114, 127, 181
\@raggedtwoe@document@opt 78, 84	\CenteringParfillskip
\@raggedtwoe@everyselectfont .	99, 120, 133, 184
143, 187, 200, 213, 224	\CenteringParindent
\@raggedtwoe@footmisctrue 69,81	$$ $\underline{99}$, 123, 136, 185
\@raggedtwoe@gnewline	\CenteringRightskip
163, 180, 193, 206	$ \underbrace{99, 117, 130, 182}_{} $
\@raggedtwoe@originalcommandsfalse	\CheckCommand
27, 28	\CurrentOption 87
\@raggedtwoe@originalcommandstrue	D
\@raggedtwoe@originalparametersfalse	
	28, 29, 30, 31, 32, 67, 68, 84, 85
\@raggedtwoe@originalparameterstrue	\DeclareRobustCommand
	$\dots 2, 176, 189, 202, 215$
$\verb \@raggedtwoe@raggedrightboxes@opt $	\def 13, 17, 159
	T2
\@raggedtwoe@saved@gnewline	E \edef 75
	\edef
<u>157,</u> 177, 190, 203, 216	\endCenter 265
\@raggedtwoe@spaceskipfalse 223	\endcenter 259, 265
\@raggedtwoe@spaceskiptrue	\endFlushLeft 267
	\endflushleft 261, 267
$\verb \Qrightskip \dots \dots 5, 6, 44, 182,$	\endFlushRight 269
183, 195, 196, 208, 209, 219, 220	\endflushright 263, 269
\@tocrmarg 75	\endLaTeXcenter 259

Index 18

$\verb \endLaTeXflushleft \dots \dots 261$	${f L}$
\endLaTeXflushright 263	\LaTeXcenter 258
\endtrivlist 230, 236, 242, 248	$\LaTeXcentering \dots 252$
environments:	\LaTeXflushleft 260
Center <u>226</u>	\LaTeXflushright 262
FlushLeft <u>226</u>	\LaTeXraggedleft 253
FlushRight $\underline{226}$	\LaTeXraggedright 254
justify <u>244</u>	\leftskip . 8, 44, 181, 194, 207, 218
\everypar 41, 57	\let $\dots \dots 4, 35,$
\EverySelectfont 156	36, 37, 38, 39, 51, 52, 53, 54,
\ExecuteOptions 92	55, 65, 76, 82, 157, 158, 178,
	180, 191, 193, 204, 206, 216,
${f F}$	217, 252, 253, 254, 255, 256,
\fi 90, 98, 139, 149,	257, 258, 259, 260, 261, 262,
152, 173, 174, 179, 192, 205, 270	263, 264, 265, 266, 267, 268, 269
\finalhyphendemerits 7	\lineskip
\FlushLeft	\lineskiplimit 47, 63
FlushLeft (env.) $\underline{226}$	\linewidth 42, 58
\flushleft 260, 266	N
\FlushRight 268	
FlushRight (env.) $\underline{226}$	\newcommand 33, 72, 78, 143, 163
\flushright 262, 268	\newenvironment . 226, 232, 238, 244 \newif 22, 23, 24, 142
\fmtversion 94	\newlength 99,
\font 145, 148	100, 101, 102, 103, 104, 105,
\fontdimen 145, 148	106, 107, 108, 109, 110, 111, 112
	\nobreak 169
Н	\nobreak
$\verb \hsize \dots \dots$	$\verb \normalbaselineskip \dots \dots 48,62$
	$\label{lineskip} $$\operatorname{normalbaselineskip} \ \dots \ 48, 62 $$ \operatorname{normallineskip} \ \dots \ 46, 61 $$$
\hsize	$\verb \normalbaselineskip \dots \dots 48,62$
\hsize	$\label{lineskip} $$\operatorname{normalbaselineskip} \ \dots \ 48, 62 $$ \operatorname{normallineskip} \ \dots \ 46, 61 $$$
\hsize	\normalbaselineskip
\hsize	$\begin{tabular}{ll} $$ (100) & (100)$
\hsize	\normalbaselineskip
\hsize	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\normalbaselineskip
\hsize	\normalbaselineskip
\hsize	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 73 \par 37, 53 \parfillskip 45, 184, 197, 210, 221
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 73 \par 37, 53 \parfillskip 45, 184, 197, 210, 221 \parindent
\hsize	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 73 \par 37, 53 \parfillskip 45, 184, 197, 210, 221 \parindent 9, 40, 141, 185, 198, 211, 222
\hsize	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 37, 53 \parfillskip 45, 184, 197, 210, 221 \parindent 9, 40, 141, 185, 198, 211, 222 \parskip 40, 56
\hsize	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 73 \parfillskip 45, 184, 197, 210, 221 \parindent 9, 40, 141, 185, 198, 211, 222 \parskip 40, 56 \PassOptionsToPackage 70, 87
\hsize	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 37, 53 \parfillskip 45, 184, 197, 210, 221 \parindent 9, 40, 141, 185, 198, 211, 222 \parskip 40, 56 \PassOptionsToPackage 70, 87 \ProcessOptions 93
\hsize	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 73 \parfillskip 45, 184, 197, 210, 221 \parindent 9, 40, 141, 185, 198, 211, 222 \parskip 40, 56 \PassOptionsToPackage 70, 87
\hsize	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 37, 53 \parfillskip 45, 184, 197, 210, 221 \parindent 9, 40, 141, 185, 198, 211, 222 \parskip 40, 56 \PassOptionsToPackage 70, 87 \ProcessOptions 93
\hsize	\normalbaselineskip
\hsize	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 73 \par 37, 53 \parfillskip 45, 184, 197, 210, 221 \parindent 40, 56 \PassOptionsToPackage 70, 87 \ProcessOptions 93 \providecommand 94 R \RaggedLeft 189, 240, 256
\hsize	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 73 \par 37, 53 \parfillskip 45, 184, 197, 210, 221 \parindent 40, 56 \PassOptionsToPackage 70, 87 \ProcessOptions 93 \providecommand 94 R \RaggedLeft 189, 240, 256 \raggedleft 253, 256
\hsize	\normalbaselineskip
\hsize	\normalbaselineskip 48, 62 \normallineskip 46, 61 \normallineskiplimit 47, 63 O \OmitIndent 160 \OptionNotUsed 89 P \PackageInfo 73 \par 37, 53 \parfillskip 45, 184, 197, 210, 221 \parindent 40, 56 \PassOptionsToPackage 70, 87 \ProcessOptions 93 \providecommand 94 R \RaggedLeft 189, 240, 256 \raggedleft 253, 256

Change History 19

\RaggedLeftParindent	\spaceskip 15, 146, 148, 151
$$ $\underline{99}$, 124, 137, 198	\string 73
\RaggedLeftRightskip	
$99, 118, 131, 195$	${f T}$
\RaggedRight 60, 73, 74, <u>202</u> , 234, 257	\thr@@ 145
\raggedright 3, 13, 254, 257	
\RaggedRightLeftskip	\trivlist 227, 233, 239, 245
99, 116, 129, 207	\tt 18
\RaggedRightParfillskip	\ttraggedright 17
0.00000000000000000000000000000000000	\tw@ 127, 128, 130, 132, 148
\RaggedRightParindent	
	\mathbf{U}
\RaggedRightRightskip	\unskip 167
	\unskip
99, 119, 132, 208	
\relax 16, 19, 65, 76,	\mathbf{X}
82, 93, 145, 228, 234, 240, 246	\xspaceskip 16
\renewcommand 50	
RequirePackage 95, 97	${f z}$
\reserved@e 169, 171	\z@
\reserved@f 169, 171	19, 40, 43, 59, 123, 124, 125,
\rightskip	127, 128, 130, 132, 136, 137,
6, 14, 19, 44, 183, 196, 209, 220	138, 145, 146, 151, 169, 218, 219
ç	
S 40 64	\z@skip 8, 40, 44, 56, 116,
\sloppy 49, 64	118, 120, 121, 129, 131, 133, 134
\stoppy 49, 04	118, 120, 121, 129, 131, 133, 134
\stoppy 49, 04	118, 120, 121, 129, 131, 133, 134
\SIOPPY 49, 04	118, 120, 121, 129, 131, 133, 134
	118, 120, 121, 129, 131, 133, 134
Change History	118, 120, 121, 129, 131, 133, 134
Change History	
Change History	118, 120, 121, 129, 131, 133, 134
Change History	
Change History v1.00 General: New from raggedright V 1.21 v1.01	
Change History v1.00 General: New from raggedright V 1.21 v1.01	1
Change History v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02	1
Change History v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02	
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL	1
v1.00 General: New from raggedright V 1.23 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL	1
v1.00 General: New from raggedright V 1.23 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL v2.00 General: Allow all-lowercase versions Allow all-lowercase versions of opti mixed-case versions Incorporated raggedr Load the footmisc package New command \justifying	1
v1.00 General: New from raggedright V 1.23 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL v2.00 General: Allow all-lowercase versions Allow all-lowercase versions of opti mixed-case versions Incorporated raggedr Load the footmisc package New command \justifying New environment justify	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL v2.00 General: Allow all-lowercase versions Allow all-lowercase versions of opti mixed-case versions Incorporated raggedr Load the footmisc package New command \justifying New environment justify	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL v2.00 General: Allow all-lowercase versions Allow all-lowercase versions of opti mixed-case versions Incorporated raggedr Load the footmisc package New command \justifying New environment justify New option document	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL v2.00 General: Allow all-lowercase versions Allow all-lowercase versions of opti mixed-case versions Incorporated raggedr Load the footmisc package New command \justifying New environment justify New option footnotes New option raggedrightboxes	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL v2.00 General: Allow all-lowercase versions Allow all-lowercase versions of optimized-case versions. Incorporated raggedr Load the footmisc package New command \justifying New environment justify New option document New option raggedrightboxes Pass all other options to footmisc in	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL v2.00 General: Allow all-lowercase versions Allow all-lowercase versions of optimized-case versions. Incorporated raggedr Load the footmisc package New command \justifying New environment justify New option document New option footnotes New option raggedrightboxes Pass all other options to footmisc in Removed \RaggedSpaceskip and \	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL v2.00 General: Allow all-lowercase versions Allow all-lowercase versions of optimixed-case versions. Incorporated raggedr Load the footmisc package New command \justifying New environment justify New option document New option footnotes New option raggedrightboxes Pass all other options to footmisc in Removed \RaggedSpaceskip and \Removed spaces and unneeded bra	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL v2.00 General: Allow all-lowercase versions Allow all-lowercase versions of optimixed-case versions. Incorporated raggedr Load the footmisc package New command \justifying New environment justify New option document New option footnotes New option raggedrightboxes Pass all other options to footmisc in Removed \RaggedSpaceskip and \Removed spaces and unneeded bra	1
v1.00 General: New from raggedright V 1.21 v1.01 General: Documentation improved . v1.02 General: Moved to LPPL v2.00 General: Allow all-lowercase versions Allow all-lowercase versions of opti mixed-case versions Incorporated raggedr Load the footmisc package New command \justifying New environment justify New option document New option footnotes New option raggedrightboxes Pass all other options to footmisc i Removed \RaggedSpaceskip and \Removed spaces and unneeded bra with \@plus	1

\@raggedtwoe@everyselectfont: Completely redesigned and removed	
\RaggedSpaceskip and \RaggedXSpaceskip	11
	12
\@raggedtwoe@raggedrightboxes@opt: New macro	
	12
\Centering: Call \CraggedtwoeQeveryselectfont and switch	14
	13
\if@raggedtwoe@footmisc: New macro	
	15
	14
, ,	10
. , ,	10
\RaggedLeft: Call \@raggedtwoe@everyselectfont and switch	10
	13
$\verb \RaggedRight: Call \verb \QraggedtwoeQeveryselectfont and switch$	
\@gnewline	13
v2.01	
\@raggedtwoe@everyselectfont: Removed the setting of \xspaceskip .	11
v2.02	
General: Bugfix: $\$ if @raggedtwoe@footmisctrue \rightarrow	
\@raggedtwoe@footmisctrue	8
Removed \setlength	
Use \@flushglue	
$\label{eq:condition} $$ \operatorname{QeraggedtwoeQgnewline: Bugfix: \Qnolerr} \to \operatorname{Qnolnerr}$	
FlushRight: Use \trivlist \endtrivlist instead of	12
\begin\{trivlist\} \end\{trivlist\}	14
justify: Use \trivlist \endtrivlist instead of	17
\begin\{trivlist\} \end\{trivlist\}	15
_	19
v2.03	0
General: Bugfix: footnotes was actually raggedrightboxes	8
v2.04	10
1	10
0 \	10
	15
\@raggedtwoe@abdhook: Set \@tocrmarg and use \PackageInfo	9
\@raggedtwoe@everyselectfont: Reset \spaceskip when we are not	
active	12
\@raggedtwoe@raggedrightboxes@opt: The setting of \parindent is	
superfluous	8
v2.1	
General: bugfix: \Flushleft instead of \FlushLeft (found by Berend	
Hasselman)	15
bugfix: Load footmisc directly and not via \AtEndOfPackage (bug found	
by Axel Sommerfeldt)	10
document that document needs footmisc	
\@raggedtwoe@abdhook: bugfix: Use \@tocrmarg only if it's defined	
\@raggedtwoe@gnewline: Bugfix: handle math	12
v2.2	
General: Change maintenance status of package	
Move to git/gitlab, use svninfo2	
Require a new version of $\LaTeX(2017/03/29)$	1
\@raggedtwoe@raggedrightboxes@opt: Definition of	
\@arrayparboxrestore has changed	7

v3.0		
General: Change ma	intenance status	2
document everyse	l is obsolete	6
v3.00		
General: Remove the	e everysel package if kernel hooks are available	9
\@raggedtwoe@every	yselectfont: Use kernel hook if available	12
v3.1		
General: Use the up	dated definition of \raggedright	2
\Centering: Robust	ify the user macros (Thanks to Markus Kohm for the	
hint)		13
\justifying: Robus	stify the user macros (Thanks to Markus Kohm for	
the hint)		14
	stify the user macros	
\RaggedRight: Robu	stify the user macros (Thanks to Markus Kohm for	
the hint)		13
v3.2		
\@raggedtwoe@cente	ercrNoindent: New macro	12
\@raggedtwoe@gnewl	line: Fix bug adding parskip with newline	12