## The pdfcolparcolumns package

# Heiko Oberdiek\* <heiko.oberdiek at googlemail.com>

## 2016/05/16 v1.4

#### Abstract

Since version 1.40 pdfTeX supports several color stacks. This package uses them to fix color problems in package  $\sf parcolumns$ .

## Contents

1	Usa	$\mathbf{ge}$																							<b>2</b>
	1.1	Option	ı ruleb	etwe	enco	lor																			2
	1.2	Future																							2
2	Imp	lement	tation	a																					2
	2.1	Identif	icatio	n .																					2
	2.2	Load p	oackag	ges																					2
		2.2.1	Pack	age p	arco	olun	nns																		2
		2.2.2	Pack	age p	dfcc	ol																			3
		2.2.3	Pack	age i	nfwa	rer	r.																		3
	2.3	Color s	stack	macr	os .																				3
	2.4	Patche	s																						3
		2.4.1	Init s	stack	s																				3
		2.4.2	Swite	ch sta	ack																				3
		2.4.3	Set c	urrei	nt st	ack	cc	olor																	4
3	Test	t																							6
4	Inst	allatio	n																						7
•	4.1	Downle																							7
	4.2	Bundle																							7
	4.3	Packag																							7
	4.4	Refresi	-																						7
	4.5	Some of																							8
5	Cat	alogue																							8
6	Refe	erences	5																						9
7	Hist																								9
'		•	:1 0]	I																					9
		$\frac{7}{07}/26$																							9
	-	7/09/09 9/09/11	-	•																					
		8/08/11		•																					9
		0/01/11 $6/05/16$																							9
8	Inde		, v1.4j			•			•	•	 •	•	•	 •	•	•	•	•	•	•	•	•	•	•	9

 $<sup>{\</sup>rm ^*Please\ report\ any\ issues\ at\ https://github.com/ho-tex/oberdiek/issues}$ 

## 1 Usage

```
\usepackage{pdfcolparcolumns}
```

The package pdfcolparcolumns loads package parcolums [1]. If color stacks are available then the macros of parcolumns are patched to add support for color stacks.

## 1.1 Option rulebetweencolor

Package pdfcolparcolumns also fixes the color for the rule between columns (if rulebetween is set). Default color is \normalcolor. But this can be changed by using option rulebetweencolor. It takes a color specification as value. If the value is empty, then the default (\normalcolor) is used. Examples:

```
rulebetweencolor=blue,
rulebetweencolor={red},
rulebetweencolor={}, % \normalcolor is used
rulebetweencolor=[rgb]{1,0,.5} % see below
```

If used inside the optional argument of environment parcolumns and the value contains an optional argument, then whole value must be put in curly braces:

```
\begin{parcolumns}[
  rulebetween,
  rulebetweencolor={[rgb]{1,0,.5}},
]{2}
  ...
\end{parcolumns}
```

This option rulebetweencolor can also be set using \setkeys:

\setkeys{parcolumns}{rulebetweencolor=green}

#### 1.2 Future

Currently package parcolumns does not seem to be maintained. Nevertheless if there will be a new version that adds support for color stacks, then this package may become obsolete.

## 2 Implementation

#### 2.1 Identification

```
1 (*package)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pdfcolparcolumns}%
4 [2016/05/16 v1.4 Color stacks for parcolumns (HO)]%
```

#### 2.2 Load packages

#### 2.2.1 Package parcolumns

Currently package parcolumns does not define options. Thus it is just a precaution that the options of package pdfcolparcolumns are passed to package parcolumns.

```
5 \DeclareOption*{%
6 \PassoptionsToPackage{\CurrentOption}{parcolumns}%
7 }
8 \ProcessOptions\relax
9 \RequirePackage{parcolumns}[2004/11/25]
```

#### 2.2.2 Package pdfcol

```
10 \RequirePackage{pdfcol}[2007/09/09]
11 \ifpdfcolAvailable
12 \else
   \PackageInfo{pdfcolparcolumns}{%
13
     Loading aborted, because color stacks are not available%
14
15
16
   \expandafter\endinput
17 \fi
```

#### 2.2.3 Package infwarerr

18 \RequirePackage{infwarerr}[2007/09/09]

#### Color stack macros

\pcpc@MaxStack Macro \pcpc@MaxStack holds the highest number of allocated stacks.

19 \global\chardef\pcpc@MaxStack=\z@

\pcpc@InitStacks Macro \pcpc@InitStacks takes the number of columns as argument and ensures that there are enough color stacks for all columns.

```
20 \def\pcpc@InitStacks#1{%
21
   \ifnum#1>\pcpc@MaxStack
22
    \begingroup
      \count@\pcpc@MaxStack
23
      \loop
24
        \advance\count@\@ne
25
        \pdfcolInitStack{pcpc@\the\count@}%
26
27
      \ifnum#1>\count@
28
      \repeat
29
      \global\chardef\pcpc@MaxStack=\count@
30
     \endgroup
31
   \fi
32 }
```

\pcpc@SwitchStack

```
33 \def\pcpc@SwitchStack#1{%
   \pdfcolSwitchStack{pcpc@\number#1}%
35 }
36 \def\pcpc@SetCurrent#1{%
```

\pcpc@SetCurrent

```
38 }
```

\pdfcolSetCurrent{pcpc@\number#1}%

#### Patches 2.4

Now the color stack macros are patched into the macros of package parcolumns.

## 2.4.1 Init stacks

\pcpc@InitStacks should go into the definition of environment parcolumns. \pc@alloccolumns is executed there and nowhere else, thus we hook into it.

```
39 \g@addto@macro\pc@alloccolumns{%
40
   \pcpc@InitStacks\pc@columncount
41 }
```

#### 2.4.2 Switch stack

\pcpc@SwitchStack should be called by marco \colchunk@. However it is easier to patch \pc@setcolumnwidth that is executed in \colchunk@ only.

42 \g@addto@macro\pc@setcolumnwidth{%

#### 2.4.3 Set current stack color

\pc@SetCurrent is set at the begin of each line. It must be inserted into \pc@placeboxes. Unhappily there is no easy way. Therefore we check and redefine \pc@placeboxes.

```
45 \begingroup
46
   \left( x_{x}\right)
47
     \global\let\@tempa\relax
     \count@\z@
48
     \hb@xt@\linewidth{%
49
      \vfuzz30ex %
50
      \vbadness\@M
51
52
      \splittopskip\z@skip
53
      \loop
      \ifnum\count@<\pc@columncount
54
       \advance\count@\@ne
55
       \expandafter\ifvoid\csname pc@column@\number\count@\endcsname
56
         \hskip\csname pc@column@width@\number\count@\endcsname
57
58
         \expandafter\setbox\expandafter\@tempboxa\expandafter
59
60
         \vsplit\csname pc@column@\number\count@\endcsname
61
           to \dp\strutbox
62
         \vbox{%
63
          \unvbox\@tempboxa
         }%
64
       \fi
65
       \expandafter\ifvoid\csname pc@column@\number\count@\endcsname
66
       \else
67
         \global\let\@tempa\pc@placeboxes
68
69
70
       \ifnum\count@<\pc@columncount
71
         \strut
72
         \hfill
73
         \ifpc@rulebetween
74
          \vrule
          \hfill
75
76
         \fi
       \fi
77
      \repeat
78
79
    }%
     \@tempa
80
   }%
81
   \ifx\x\pc@placeboxes
82
83
84
     \@PackageWarningNoLine{pdfcolparcolumns}{%
      85
      Supported versions of package `parcolumns':\MessageBreak
86
      \space\space 2004/08/05.\MessageBreak
87
      The redefinition of \sqrt{pc@placeboxes} may not%
88
      \MessageBreak
89
90
      behave correctly depending on the changes%
91
    }%
   \fi
92
93 \endgroup
94 \renewcommand*{\pc@placeboxes}{%
```

```
94 \renewcommand*{\pc@placeboxes}{%
95 \global\let\@tempa\relax
96 \count@\z@
```

```
\hb@xt@\linewidth{%
  97
               \vfuzz30ex %
  98
               \vbadness\@M
  99
               \splittopskip\z@skip
100
101
102
               \ifnum\count@<\pc@columncount
103
                  \advance\count@\@ne
104
                  \expandafter\ifvoid\csname pc@column@\number\count@\endcsname
                      \hskip\csname pc@column@width@\number\count@\endcsname
105
                  \else
106
                      \expandafter\setbox\expandafter\@tempboxa\expandafter
107
                     \vsplit\csname pc@column@\number\count@\endcsname
108
                            to \dp\strutbox
109
                      \vbox{%
110
                         \pcpc@SetCurrent\count@
111
                         \unvbox\@tempboxa
112
113
                     }%
114
                  \fi
                  \expandafter\ifvoid\csname pc@column@\number\count@\endcsname
115
116
                      \global\let\@tempa\pc@placeboxes
117
                  \fi
118
                  \ifnum\count@<\pc@columncount
119
120
                      \strut
                      \hfill
121
122
                      \ifpc@rulebetween
123
                         \begingroup
                            \pcpc@RuleBetweenColor
124
125
                            \vrule
126
                         \endgroup
                         \hfill
127
                     \fi
128
129
                  \fi
130
               \repeat
           }%
131
132
           \@tempa
133 }
134 \def\pcpc@RuleBetweenColorDefault{%
135 \normalcolor
136 }
138 \define@key{parcolumns}{rulebetweencolor}{%
139
           \ensuremath{\mbox{ }}\ensuremath{\mbox{ }}\ensure
140
           \ifx\pcpc@temp\@empty
              141
           \else
142
               \edef\pcpc@temp{%
143
                  \noexpand\@ifnextchar[{%
144
                      \def\noexpand\pcpc@RuleBetweenColor{%
145
146
                         \noexpand\color\pcpc@temp
147
148
                      \noexpand\pcpc@GobbleNil
149
150
                      \def\noexpand\pcpc@RuleBetweenColor{%
                         \verb|\noexpand\color{\pcpc@temp}| %
151
                     }%
152
                      \noexpand\pcpc@GobbleNil
153
                  }%
154
```

\pcpc@RuleBetweenColorDefault

\pcpc@RuleBetweenColor

```
155 \pcpc@temp\noexpand\@nil
156 }%
157 \pcpc@temp
158 \fi
159 }

\pcpc@GobbleNil
160 \long\def\pcpc@GobbleNil#1\@nil{}
161 \/package\
```

## 3 Test

The test file is a modified version of the file that Donald Goodman has posted in comp.text.tex: "Re: xcolor glitches" 1

```
162 (*test1)
163 \NeedsTeXFormat{LaTeX2e}
164 \AtEndDocument{%
165 \typeout{}%
    \typeout{*********************************
    \typeout{*** \space Check the PDF file manually! \space ***}%
169 \typeout{}%
170 }
171 \documentclass{article}
172 \usepackage{xcolor}
173 \usepackage{pdfcolparcolumns}
174
175 \newcommand{\instruct}[1]{%
176
    \noindent
177
    \footnotesize
    \text{textcolor}\{\text{red}\}\{\#1\}\%
178
179 }
180
181 \begin{document}
    \begin{parcolumns}[colwidths={1=2.3in,2=2.3in},sloppy]{2}%
182
      \colchunk[1]{%
183
       \instruct{Et non dicitur versus} %
184
       Fidelium anim\ae\ %
185
186
       \instruct{%
        sed immediate subiungitur antiphona finalis \%
187
188
        beat\ae\ Mari\ae\ Virginis%
       } %
189
       100.%
190
     }%
191
      \colchunk[2]{%
192
       \instruct{%
193
        And the verse %
194
195
        \textcolor{black}{May the souls of the faithful} %
196
        is not said, but the final antiphon of the \%
197
        Blessed Virgin Mary, %
        \textcolor{black}{100,} \%
198
        is immediately joined.%
199
       }%
200
     }%
201
202 \end{parcolumns}%
203 \end{document}
204 (/test1)
```

 $<sup>^1\</sup>mathrm{Url:\ http://groups.google.com/group/comp.text.tex/msg/8eda74ed292012bb}$ 

## 4 Installation

#### 4.1 Download

Package. This package is available on CTAN<sup>2</sup>:

CTAN:macros/latex/contrib/oberdiek/pdfcolparcolumns.dtx The source file.

CTAN:macros/latex/contrib/oberdiek/pdfcolparcolumns.pdf Documentation.

**Bundle.** All the packages of the bundle 'oberdiek' are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

TDS refers to the standard "A Directory Structure for TEX Files" (CTAN:tds/tds.pdf). Directories with texmf in their name are usually organized this way.

#### 4.2 Bundle installation

**Unpacking.** Unpack the oberdiek.tds.zip in the TDS tree (also known as texmf tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory TDS:scripts/oberdiek/ for scripts that need further installation steps. Package attachfile2 comes with the Perl script pdfatfi.pl that should be installed in such a way that it can be called as pdfatfi. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

#### 4.3 Package installation

Unpacking. The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain TFX:

```
tex pdfcolparcolumns.dtx
```

**TDS.** Now the different files must be moved into the different directories in your installation TDS tree (also known as texmf tree):

```
 \begin{array}{lll} pdfcolparcolumns.sty & \rightarrow tex/latex/oberdiek/pdfcolparcolumns.sty \\ pdfcolparcolumns.pdf & \rightarrow doc/latex/oberdiek/pdfcolparcolumns.pdf \\ test/pdfcolparcolumns-test1.tex & \rightarrow doc/latex/oberdiek/test/pdfcolparcolumns-test1.tex \\ pdfcolparcolumns.dtx & \rightarrow source/latex/oberdiek/pdfcolparcolumns.dtx \end{array}
```

If you have a docstrip.cfg that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

#### 4.4 Refresh file name databases

If your TEX distribution (teTEX, mikTEX, ...) relies on file name databases, you must refresh these. For example, teTEX users run texhash or mktexlsr.

<sup>&</sup>lt;sup>2</sup>http://ctan.org/pkg/pdfcolparcolumns

#### 4.5 Some details for the interested

Unpacking with IATEX. The .dtx chooses its action depending on the format:

plain T<sub>E</sub>X: Run docstrip and extract the files.

LATEX: Generate the documentation.

If you insist on using LATEX for docstrip (really, docstrip does not need LATEX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{pdfcolparcolumns.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the .dtx or the .drv to generate the documentation. The process can be configured by the configuration file ltxdoc.cfg. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfLaTeX:

```
pdflatex pdfcolparcolumns.dtx
makeindex -s gind.ist pdfcolparcolumns.idx
pdflatex pdfcolparcolumns.dtx
makeindex -s gind.ist pdfcolparcolumns.idx
pdflatex pdfcolparcolumns.dtx
```

## 5 Catalogue

The following XML file can be used as source for the TEX Catalogue. The elements caption and description are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is pdfcolparcolumns.xml.

```
205 (*catalogue)
206 <?xml version='1.0' encoding='us-ascii'?>
207 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
208 <entry datestamp='$Date$' modifier='$Author$' id='pdfcolparcolumns'>
209 <name>pdfcolparcolumns</name>
210 <caption>Fix colour problems in package 'parcolumns'.</caption>
211 <authorref id='auth:oberdiek'/>
212 <copyright owner='Heiko Oberdiek' year='2007,2008,2010'/>
213 clicense type='lppl1.3'/>
214 <version number='1.4'/>
215 <description>
    Since version 1.40 pdfTeX supports colour stacks.
216
217
      This package uses them to fix colour problems in
      package refid='parcolumns'>parcolumns
218
219
220
      The package is part of the <xref refid='oberdiek'>oberdiek</xref>
221
      bundle.
222 </description>
223 <documentation details='Package documentation'
       href='ctan:/macros/latex/contrib/oberdiek/pdfcolparcolumns.pdf'/>
224
225 <ctan file='true' path='/macros/latex/contrib/oberdiek/pdfcolparcolumns.dtx'/>
226 <miktex location='oberdiek'/>
    <texlive location='oberdiek'/>
228 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
229 </entry>
230 (/catalogue)
```

## 6 References

- [1] Jonathan Sauer: *The parcolumns package*; 2004/11/25; CTAN:macros/latex/contrib/sauerj/parcolumns.pdf.
- [2] Heiko Oberdiek: The pdfcol package; 2007/09/09;CTAN:macros/latex/contrib/oberdiek/pdfcol.pdf.

## 7 History

## [2007/07/26 v1.0]

• First version, published in the newsgroup comp.text.tex with the name parcolumns-colorstacks: "Re: xcolor glitches"

## [2007/09/09 v1.1]

- CTAN version, package name renamed to pdfcolparcolumns.
- Uses package pdfcol.
- Documentation added.
- Test file added.

## [2008/08/11 v1.2]

- Code is not changed.
- URLs updated.

## [2010/01/11 v1.3]

- Fix for rule color.
- New option rulebetweencolor for environment parcolumns.

## [2016/05/16 v1.4]

• Documentation updates.

#### 8 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

${f Symbols}$	$\mathbf{A}$
\@M 51, 99	\advance 25, 55, 103
\@PackageWarningNoLine 84	\ae 185, 188
\@empty 140	\AtEndDocument 164
\@ifnextchar 144	
\@ne 25, 55, 103	В
\@nil 155, 160	\begin 181, 182
\@tempa 47, 68, 80, 95, 117, 132	
\@tempboxa 59, 63, 107, 112	$\mathbf{C}$
	\chardef 19, 29
	\colchunk 183, 192
\□	\color 146, 151

 $<sup>^3\</sup>mathrm{Url}$ : http://groups.google.com/group/comp.text.tex/msg/56bd897b11bca414

\count@ 23, 25, 26, 27, 29, 48, 54,	\pc@columncount . 40, 54, 70, 102, 119
55, 56, 57, 60, 66, 70, 96, 102,	\pc@columnctr 43
103, 104, 105, 108, 111, 115, 119	\pc@placeboxes $68, 82, 85, 88, 94$
\csname 56, 57, 60, 66, 104, 105, 108, 115	\pc@setcolumnwidth 42
\CurrentOption 6	\pcpc@GobbleNil 148, 153, 160
-	\pcpc@InitStacks 20, 40
D	\pcpc@MaxStack <u>19, 21, 23, 29</u>
\DeclareOption 5	\pcpc@RuleBetweenColor
\define@key 138	
\documentclass	\pcpc@RuleBetweenColorDefault
\dp 61, 109	
(dp 01, 100	
${f E}$	\pcpc@SetCurrent
\end 202, 203	\pcpc@SwitchStack 33, 43
\endcsname	\pcpc@temp
	. 139, 140, 143, 146, 151, 155, 157
. 56, 57, 60, 66, 104, 105, 108, 115	\pdfcolInitStack 26
\endinput 16	\pdfcolSetCurrent 37
F	\pdfcolSwitchStack 34
<del>-</del>	\ProcessOptions 8
\footnotesize 177	\ProvidesPackage
C	9
G	$\mathbf{R}$
\g@addto@macro 39, 42	\renewcommand 94
TT	\repeat 28, 78, 130
H	\RequirePackage 9, 10, 18
\hb@xt@ 49, 97	(Tronquiror dollago v, 10, 10
\hfill 72, 75, 121, 127	${f S}$
\hskip 57, 105	
1	\aa+bar 50 107
-	\setbox
I	\space 85, 87, 88, 167
-	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122	\space
I \ifnum 21, 27, 54, 70, 102, 119	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable 11 \ifvoid 56, 66, 104, 115 \ifx 82, 140	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable 11 \ifvoid 56, 66, 104, 115 \ifx 82, 140	\space
I         \ifnum       21, 27, 54, 70, 102, 119         \ifpc@rulebetween       73, 122         \ifpdfcolAvailable       11         \ifvoid       56, 66, 104, 115         \ifx       82, 140         \instruct       175, 184, 186, 193	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable 11 \ifvoid 56, 66, 104, 115 \ifx 82, 140 \instruct 175, 184, 186, 193  L	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable 11 \ifvoid 56, 66, 104, 115 \ifx 82, 140 \instruct 175, 184, 186, 193  L \linewidth 49, 97	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable 11 \ifvoid 56, 66, 104, 115 \ifx 82, 140 \instruct 175, 184, 186, 193  L \linewidth 49, 97	\space
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\space
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\space
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable 11 \ifvoid 56, 66, 104, 115 \ifx 82, 140 \instruct 175, 184, 186, 193  L \linewidth 49, 97 \loop 24, 53, 101  M \MessageBreak 85, 86, 87, 89	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable 11 \ifvoid 56, 66, 104, 115 \ifx 82, 140 \instruct 175, 184, 186, 193  L \linewidth 49, 97 \loop 24, 53, 101  M \MessageBreak 85, 86, 87, 89  N	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable 11 \ifvoid 56, 66, 104, 115 \ifx 82, 140 \instruct 175, 184, 186, 193  L \linewidth 49, 97 \loop 24, 53, 101  M \MessageBreak 85, 86, 87, 89  N \NeedsTeXFormat 2, 163	\space
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable 11 \ifvoid 56, 66, 104, 115 \ifx 82, 140 \instruct 175, 184, 186, 193  L \linewidth 49, 97 \loop 24, 53, 101  M \MessageBreak 85, 86, 87, 89  N \NeedsTeXFormat 2, 163 \newcommand 175 \noindent 176	\space \ 85, 87, 88, 167 \splittopskip \ 52, 100 \strut \ 71, 120 \strutbox \ 61, 109  T \textcolor \ 178, 195, 198 \the \ 26 \typeout \ 165, 166, 167, 168, 169  U \unvbox \ 63, 112 \usepackage \ 172, 173  V \vbadness \ 51, 99 \vbox \ 62, 110 \vfuzz \ 50, 98 \vrule \ 74, 125
I \\ifnum 21, 27, 54, 70, 102, 119 \\ifpc@rulebetween 73, 122 \\ifpdfcolAvailable 11 \\ifvoid 56, 66, 104, 115 \\ifx 82, 140 \\instruct 175, 184, 186, 193  L \\linewidth 49, 97 \\loop 24, 53, 101  M \\MessageBreak 85, 86, 87, 89  N \\NeedsTeXFormat 2, 163 \\newcommand 175 \\noindent 176 \\noindent 176 \\normalcolor 135	\space
I \\ifnum 21, 27, 54, 70, 102, 119 \\ifpc@rulebetween 73, 122 \\ifpdfcolAvailable 11 \\ifvoid 56, 66, 104, 115 \\ifx 82, 140 \\instruct 175, 184, 186, 193  L \\linewidth 49, 97 \\loop 24, 53, 101  M \\MessageBreak 85, 86, 87, 89  N \\NeedsTexFormat 2, 163 \\newcommand 175 \\noindent 176 \\noindent 176 \\normalcolor 135 \\number 34,	\space \ 85, 87, 88, 167 \splittopskip \ 52, 100 \strut \ 71, 120 \strutbox \ 61, 109  T \textcolor \ 178, 195, 198 \the \ 26 \typeout \ 165, 166, 167, 168, 169  U \unvbox \ 63, 112 \usepackage \ 172, 173  V \vbadness \ 51, 99 \vbox \ 62, 110 \vfuzz \ 50, 98 \vrule \ 74, 125
I \\ifnum 21, 27, 54, 70, 102, 119 \\ifpc@rulebetween 73, 122 \\ifpdfcolAvailable 11 \\ifvoid 56, 66, 104, 115 \\ifx 82, 140 \\instruct 175, 184, 186, 193  L \\linewidth 49, 97 \\loop 24, 53, 101  M \\MessageBreak 85, 86, 87, 89  N \\NeedsTeXFormat 2, 163 \\newcommand 175 \\noindent 176 \\noindent 176 \\normalcolor 135	\space \qquad 85, 87, 88, 167 \splittopskip \qquad 52, 100 \strut \qquad 71, 120 \strutbox \qquad 61, 109  \tag{T} \textcolor \qquad 178, 195, 198 \the \qquad 26 \typeout \qquad 165, 166, 167, 168, 169  \textcolor \qquad V \unvbox \qquad 63, 112 \usepackage \qquad 172, 173  \textcolor \qquad V \unvbox \qquad 63, 112 \usepackage \qquad 172, 173  \textcolor \qquad V \unvbox \qquad 63, 112 \usepackage \qquad 172, 173  \textcolor \qquad V \unvbox \qquad 62, 110 \unvbox \qquad 62, 110 \unvbox \qquad 125 \unvertextcolor \qquad 74, 125 \unvertextcolor \qquad 60, 108  \textcolor \qquad X
I \\ifnum 21, 27, 54, 70, 102, 119 \\ifpc@rulebetween 73, 122 \\ifpdfcolAvailable 11 \\ifvoid 56, 66, 104, 115 \\ifx 82, 140 \\instruct 175, 184, 186, 193 \\L \\linewidth 49, 97 \\loop 24, 53, 101 \\M \\MessageBreak 85, 86, 87, 89 \\N \\NeedsTexFormat 2, 163 \\newcommand 175 \\noindent 176 \\normalcolor 135 \\number 34, 37, 56, 57, 60, 66, 104, 105, 108, 115	\space \qquad 85, 87, 88, 167 \splittopskip \qquad 52, 100 \strut \qquad 71, 120 \strutbox \qquad 61, 109  \tag{T} \textcolor \qquad 178, 195, 198 \the \qquad 26 \typeout \qquad 165, 166, 167, 168, 169  \tag{U} \unvbox \qquad 63, 112 \usepackage \qquad 172, 173  \tag{V} \vbadness \qquad 51, 99 \vbox \qquad 62, 110 \vfuzz \qquad 50, 98 \vrule \qquad 74, 125 \vsplit \qquad 60, 108
I \\ifnum \ 21, 27, 54, 70, 102, 119 \\ifpc@rulebetween \ 73, 122 \\ifpdfcolAvailable \ 11 \\ifvoid \ 56, 66, 104, 115 \\ifx \ 82, 140 \\instruct \ 175, 184, 186, 193 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\space \qquad 85, 87, 88, 167 \splittopskip \qquad 52, 100 \strut \qquad 71, 120 \strutbox \qquad 61, 109  \tag{T} \textcolor \qquad 178, 195, 198 \the \qquad 26 \typeout \qquad 165, 166, 167, 168, 169  \tag{U} \unvbox \qquad 63, 112 \usepackage \qquad 172, 173  \tag{V} \vbadness \qquad 51, 99 \vbox \qquad 62, 110 \vfuzz \qquad 50, 98 \vrule \qquad 74, 125 \vsplit \qquad 60, 108  \tag{X} \qquad \qquad \qquad 46, 82
I \ifnum 21, 27, 54, 70, 102, 119 \ifpc@rulebetween 73, 122 \ifpdfcolAvailable 11 \ifvoid 56, 66, 104, 115 \ifx 82, 140 \instruct 175, 184, 186, 193  L \linewidth 49, 97 \loop 24, 53, 101  M \MessageBreak 85, 86, 87, 89  N \NeedsTeXFormat 2, 163 \newcommand 175 \noindent 176 \normalcolor 135 \number 34, 37, 56, 57, 60, 66, 104, 105, 108, 115  P \PackageInfo 13	\space \ 85, 87, 88, 167 \splittopskip \ 52, 100 \strut \ 71, 120 \strutbox \ 61, 109  T \textcolor \ 178, 195, 198 \the \ 26 \typeout \ 165, 166, 167, 168, 169  U \unvbox \ 63, 112 \usepackage \ 172, 173  V \vbadness \ 51, 99 \vbox \ 62, 110 \vfuzz \ 50, 98 \vrule \ 74, 125 \vsplit \ 60, 108  X \x \ 46, 82
I \\ifnum \ 21, 27, 54, 70, 102, 119 \\ifpc@rulebetween \ 73, 122 \\ifpdfcolAvailable \ 11 \\ifvoid \ 56, 66, 104, 115 \\ifx \ 82, 140 \\instruct \ 175, 184, 186, 193 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\space \qquad 85, 87, 88, 167 \splittopskip \qquad 52, 100 \strut \qquad 71, 120 \strutbox \qquad 61, 109  \tag{T} \textcolor \qquad 178, 195, 198 \the \qquad 26 \typeout \qquad 165, 166, 167, 168, 169  \tag{U} \unvbox \qquad 63, 112 \usepackage \qquad 172, 173  \tag{V} \vbadness \qquad 51, 99 \vbox \qquad 62, 110 \vfuzz \qquad 50, 98 \vrule \qquad 74, 125 \vsplit \qquad 60, 108  \tag{X} \qquad \qquad \qquad 46, 82