

# The pdfcolparallel package

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2010/01/11 v1.3

## Abstract

This packages fixes bugs in `parallel` and improves color support by using several color stacks that are provided by pdfTeX since version 1.40.

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## 1 Usage

```
\usepackage{pdfcolparallel}
```

The package `pdfcolparallel` loads package `parallel` [1] and redefines some macros to fix bugs.

If color stacks are available then package `parallel` is further patched to support them.

## 1.1 Option rulebetweencolor

Package pdfcolparallel also fixes the color for the rule between columns. Default color is `\normalcolor`. But this can be changed by using option `rulebetweencolor` for `\setkeys{parallel}` (see package `keyval`). The option takes a color specification as value. If the value is empty, then the default (`\normalcolor`) is used. Examples:

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

## 1.2 Future

If there will be a new version of package `parallel` that adds support for color stacks, then this package may become obsolete.

# 2 Implementation

## 2.1 Identification

```
1 (*package)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pdfcolparallel}%
4 [2010/01/11 v1.3 Fixed parallel with color stacks support (HO)]%
```

## 2.2 Load and fix package parallel

Package `parallel` is loaded. Before options of package `pdfcolparallel` are passed to package `parallel`.

```
5 \DeclareOption*{%
6   \PassOptionsToPackage{\CurrentOption}{parallel}%
7 }
8 \ProcessOptions\relax
9 \RequirePackage{parallel}[2003/04/13]
10 \RequirePackage{infwarerr}[2007/09/09]
```

`\pcp@ColorPatch`

```
11 \begingroup\expandafter\expandafter\expandafter\endgroup
12 \expandafter\ifx\csname currentgrouplevel\endcsname\relax
13   \def\pcp@ColorPatch{%
14 \else
15   \def\pcp@ColorPatch{%
16     \@ifundefined{set@color}{%
17       \gdef\pcp@ColorPatch{%
18         }{%
19           \gdef\pcp@ColorPatch{%
20             \gdef\pcp@ColorResets{%
21               \bgroup
22                 \aftergroup\pcp@ColorResets
23                 \aftergroup\egroup
24                 \let\pcp@OrgSetColor\set@color
25                 \let\set@color\pcp@SetColor
26                 \edef\pcp@GroupLevel{\the\currentgrouplevel}%
27               }%
28             }%
29             \pcp@ColorPatch
30           }%
```

\pcp@SetColor

```

31 \def\pcp@SetColor{%
32   \ifnum\pcp@GroupLevel=\currentgrouplevel
33     \let\pcp@OrgAfterGroup\aftergroup
34     \def\aftergroup{%
35       \g@addto@macro\pcp@ColorResets
36     }%
37     \pcp@OrgSetColor
38     \let\aftergroup\pcp@OrgAfterGroup
39   \else
40     \pcp@OrgSetColor
41   \fi
42 }%
43 \fi

```

\pcp@CmdCheckRedef

```

44 \def\pcp@CmdCheckRedef#1{%
45   \begingroup
46   \def\pcp@cmd{#1}%
47   \afterassignment\pcp@CmdDo
48   \long\def\reserved@a
49 }
50 \def\pcp@CmdDo{%
51   \expandafter\ifx\pcp@cmd\reserved@a
52   \else
53     \edef\x*{\expandafter\string\pcp@cmd}%
54     \@PackageWarningNoLine{pdfcolparallel}{%
55       Command \x* has changed.\MessageBreak
56       Supported versions of package 'parallel':\MessageBreak
57       \space\space 2003/04/13\MessageBreak
58       The redefinition of \x* may\MessageBreak
59       not behave correctly depending on the changes%
60     }%
61   \fi
62   \expandafter\endgroup
63   \expandafter\def\pcp@cmd
64 }

65 \def\pcp@SwitchStack#1#2{}
66 \def\pcp@SetCurrent#1{}

```

\ParallelLText

```

67 \pcp@CmdCheckRedef\ParallelLText{%
68   \everypar{}%
69   \@restorepar
70   \begingroup
71   \hbadness=3000 %
72   \let\footnote=\ParallelFootnote
73   \ParallelWhichBox=0 %
74   \global\setbox\ParallelLBox=\vbox\bgroup
75   \hsize=\ParallelLWidth
76   \aftergroup\ParallelAfterText
77   \begingroup
78   \afterassignment\ParallelCheckOpenBrace
79   \let\x=%
80 }{%
81   \everypar{}%
82   \@restorepar
83   \@nobreakfalse
84   \begingroup
85   \hbadness=3000 %
86   \let\footnote=\ParallelFootnote

```

```

87   \ParallelWhichBox=0 %
88   \global\setbox\ParallelLBox=\vbox\bgroup
89     \hsize=\ParallelLWidth
90     \linewidth=\ParallelLWidth
91     \pcp@SwitchStack{Left}\ParallelLBox
92     \aftergroup\ParallelAfterText
93     \pcp@ColorPatch
94     \begingroup
95       \afterassignment\ParallelCheckOpenBrace
96       \let\x=%
97 }

```

\ParallelRText

```

98 \pcp@CmdCheckRedef\ParallelRText{%
99   \everypar{%
100     \@restorepar
101     \begingroup
102       \hbadness=3000 %
103       \ifnum\ParallelFNMode=\@ne
104         \let\footnote=\ParallelRFootnote
105       \else
106         \let\footnote=\ParallelLFootnote
107       \fi
108       \ParallelWhichBox=\@ne
109       \global\setbox\ParallelRBox=\vbox\bgroup
110         \hsize=\ParallelRWidth
111         \aftergroup\ParallelAfterText
112         \begingroup
113           \afterassignment\ParallelCheckOpenBrace
114           \let\x=%
115     }{%
116       \everypar{%
117         \@restorepar
118         \@nobreakfalse
119         \begingroup
120           \hbadness=3000 %
121           \ifnum\ParallelFNMode=\@ne
122             \let\footnote=\ParallelRFootnote
123           \else
124             \let\footnote=\ParallelLFootnote
125           \fi
126           \ParallelWhichBox=\@ne
127           \global\setbox\ParallelRBox=\vbox\bgroup
128             \hsize=\ParallelRWidth
129             \linewidth=\ParallelRWidth
130             \pcp@SwitchStack{Right}\ParallelRBox
131             \aftergroup\ParallelAfterText
132             \pcp@ColorPatch
133             \begingroup
134               \afterassignment\ParallelCheckOpenBrace
135               \let\x=%
136     }

```

\ParallelParTwoPages

```

137 \pcp@CmdCheckRedef\ParallelParTwoPages{%
138   \ifnum\ParallelBoolVar=\@ne
139     \par
140     \begingroup
141       \global\ParallelWhichBox=\@ne
142       \newpage
143       \vbadness=10000 %
144       \vfuzz=3ex %

```

```

145     \splittopskip=\z@skip
146     \loop%
147         \ifnum\ParallelBoolVar=\@ne%
148             \ifnum\ParallelWhichBox=\@ne
149                 \ifvoid\ParallellLBox
150                     \mbox{} %
151                     \newpage
152                 \else
153                     \global\ParallelWhichBox=\z@
154                 \fi
155             \else
156                 \ifvoid\ParallellRBox
157                     \mbox{} %
158                     \newpage
159                 \else
160                     \global\ParallelWhichBox=\@ne
161                 \fi
162             \fi
163         \ifnum\ParallelWhichBox=\z@
164             \ifodd\thepage
165                 \mbox{} %
166                 \newpage
167             \fi
168             \hbox to\textwidth{%
169                 \vbox{\vsplit\ParallellLBox to.98\textheight}%
170             }%
171         \else
172             \ifodd\thepage\relax
173             \else
174                 \mbox{} %
175                 \newpage
176             \fi
177             \hbox to\textwidth{%
178                 \vbox{\vsplit\ParallellRBox to.98\textheight}%
179             }%
180         \fi
181         \vspace*{\fill}%
182         \newpage
183     \fi
184     \ifvoid\ParallellLBox
185         \ifvoid\ParallellRBox
186             \global\ParallelBoolVar=\z@
187         \fi
188     \fi
189     \ifnum\ParallelBoolVar=\@ne
190         \repeat
191         \par
192     \endgroup
193 \fi
194 }{%

```

Additional fixes:

- Unnecessary white space removed.
- \ifodd\thepage changed to \ifodd\value{page}.

```

195 \ifnum\ParallelBoolVar=\@ne
196     \par
197     \begingroup
198         \global\ParallelWhichBox=\@ne
199         \newpage
200         \vbadness=10000 %
201         \vfuzz=3ex %

```

```

202 \splittopskip=\z@skip
203 \loop%
204 \ifnum\ParallelBoolVar=\@ne%
205 \ifnum\ParallelWhichBox=\@ne
206 \ifvoid\ParallelLBox
207 \mbox{}%
208 \newpage
209 \else
210 \global\ParallelWhichBox=\z@
211 \fi
212 \else
213 \ifvoid\ParallelRBox
214 \null
215 \newpage
216 \else
217 \global\ParallelWhichBox=\@ne
218 \fi
219 \fi
220 \ifnum\ParallelWhichBox=\z@
221 \ifodd\value{page}%
222 \null
223 \newpage
224 \fi
225 \hbox to\textwidth{%
226 \pcp@SetCurrent{Left}%
227 \setbox\z@=\vsplit\ParallelLBox to.98\textheight
228 \vbox to.98\textheight{%
229 \@texttop
230 \unvbox\z@
231 \@textbottom
232 }%
233 }%
234 \else
235 \ifodd\value{page}%
236 \else
237 \mbox{}%
238 \newpage
239 \fi
240 \hbox to\textwidth{%
241 \pcp@SetCurrent{Right}%
242 \setbox\z@=\vsplit\ParallelRBox to.98\textheight
243 \vbox to.98\textheight{%
244 \@texttop
245 \unvbox\z@
246 \@textbottom
247 }%
248 }%
249 \fi
250 \vspace*{\fill}%
251 \newpage
252 \fi
253 \ifvoid\ParallelLBox
254 \ifvoid\ParallelRBox
255 \global\ParallelBoolVar=\z@
256 \fi
257 \fi
258 \ifnum\ParallelBoolVar=\@ne
259 \repeat
260 \par
261 \endgroup
262 \pcp@SetCurrent{}%
263 \fi

```

```
264 }
```

## 2.3 Color stack support

```
265 \RequirePackage{pdfcol}[2007/12/12]
266 \ifpdfcolAvailable
267 \else
268   \PackageInfo{pdfcolparallel}{%
269     Loading aborted, because color stacks are not available%
270   }%
271   \expandafter\endinput
272 \fi

273 \pdfcolInitStack{pcp@Left}
274 \pdfcolInitStack{pcp@Right}
```

\pcp@Box

```
275 \newbox\pcp@Box
```

\pcp@SwitchStack

```
276 \def\pcp@SwitchStack#1#2{%
277   \pdfcolSwitchStack{pcp@#1}%
278   \global\setbox\pcp@Box=\vbox to 0pt{%
279     \pdfcolSetCurrentColor
280   }%
281   \aftergroup\pcp@FixBox
282   \aftergroup#2%
283 }
```

\pcp@FixBox

```
284 \def\pcp@FixBox#1{%
285   \global\setbox#1=\vbox{%
286     \unvbox\pcp@Box
287     \unvbox#1%
288   }%
289 }
```

\pcp@SetCurrent

```
290 \def\pcp@SetCurrent#1{%
291   \ifx\#1\%
292     \pdfcolSetCurrent{}%
293   \else
294     \pdfcolSetCurrent{pcp@#1}%
295   \fi
296 }
```

## 2.4 Redefinitions

\ParallelParOnePage

```
297 \pcp@CmdCheckRedef\ParallelParOnePage{%
298   \ifnum\ParallelBoolVar=\@ne
299     \par
300     \begingroup
301       \leftmargin=\z@
302       \rightmargin=\z@
303       \parskip=\z@skip
304       \parindent=\z@
305       \vbadness=10000 %
306       \vfuzz=3ex %
307       \splittopskip=\z@skip
308       \loop
309         \ifnum\ParallelBoolVar=\@ne
```

```

310         \noindent
311         \hbox to\textwidth{%
312             \hskip\ParallelLeftMargin
313             \hbox to\ParallelTextWidth{%
314                 \ifvoid\ParallelLBox
315                     \hskip\ParallelLWidth
316                 \else
317                     \ParallelWhichBox=\z@
318                     \vbox{%
319                         \setbox\ParallelBoxVar
320                             =\vsplit\ParallelLBox to\dp\strutbox
321                         \unvbox\ParallelBoxVar
322                     }%
323                 \fi
324                 \strut
325                 \ifnum\ParallelBoolMid=\@ne
326                     \hskip\ParallelMainMidSkip
327                     \vrule
328                 \else
329                     \hss
330                 \fi
331                 \hss
332                 \ifvoid\ParallelRBox
333                     \hskip\ParallelRWidth
334                 \else
335                     \ParallelWhichBox=\@ne
336                     \vbox{%
337                         \setbox\ParallelBoxVar
338                             =\vsplit\ParallelRBox to\dp\strutbox
339                         \unvbox\ParallelBoxVar
340                     }%
341                 \fi
342             }%
343         }%
344         \ifvoid\ParallelLBox
345             \ifvoid\ParallelRBox
346                 \global\ParallelBoolVar=\z@
347             \fi
348         \fi%
349     \fi%
350     \ifnum\ParallelBoolVar=\@ne
351         \penalty\interlinepenalty
352     \repeat
353     \par
354 \endgroup
355 \fi
356 }{%
357 \ifnum\ParallelBoolVar=\@ne
358     \par
359     \beginingroup
360         \leftmargin=\z@
361         \rightmargin=\z@
362         \parskip=\z@skip
363         \parindent=\z@
364         \vbadness=10000 %
365         \vfuzz=3ex %
366         \splittopskip=\z@skip
367     \loop
368         \ifnum\ParallelBoolVar=\@ne
369             \noindent
370             \hbox to\textwidth{%
371                 \hskip\ParallelLeftMargin

```



```

372         \hbox to\ParallelTextWidth{%
373         \ifvoid\ParallelLBox
374         \hskip\ParallelLWidth
375         \else
376         \pcp@SetCurrent{Left}%
377         \ParallelWhichBox=\z@
378         \vbox{%
379         \setbox\ParallelBoxVar
380         =\vsplit\ParallelLBox to\dp\strutbox
381         \unvbox\ParallelBoxVar
382         }%
383         \fi
384         \strut
385         \ifnum\ParallelBoolMid=\@ne
386         \hskip\ParallelMainMidSkip
387         \begingroup
388         \pcp@RuleBetweenColor
389         \vrule
390         \endgroup
391         \else
392         \hss
393         \fi
394         \hss
395         \ifvoid\ParallelRBox
396         \hskip\ParallelRWidth
397         \else
398         \pcp@SetCurrent{Right}%
399         \ParallelWhichBox=\@ne
400         \vbox{%
401         \setbox\ParallelBoxVar
402         =\vsplit\ParallelRBox to\dp\strutbox
403         \unvbox\ParallelBoxVar
404         }%
405         \fi
406         }%
407     }%
408     \ifvoid\ParallelLBox
409     \ifvoid\ParallelRBox
410     \global\ParallelBoolVar=\z@
411     \fi
412     \fi%
413     \fi%
414     \ifnum\ParallelBoolVar=\@ne
415     \penalty\interlinepenalty
416     \repeat
417     \par
418     \endgroup
419     \pcp@SetCurrent{}%
420 \fi
421 }

```

\pcp@RuleBetweenColorDefault

```

422 \def\pcp@RuleBetweenColorDefault{%
423     \normalcolor
424 }

```

\pcp@RuleBetweenColor

```

425 \let\pcp@RuleBetweenColor\pcp@RuleBetweenColorDefault

426 \RequirePackage{keyval}
427 \define@key{parallel}{rulebetweencolor}{%
428     \edef\pcp@temp{#1}%

```

```

429 \ifx\pcp@temp\@empty
430 \let\pcp@RuleBetweenColor\pcp@RuleBetweenColorDefault
431 \else
432 \edef\pcp@temp{%
433 \noexpand\@ifnextchar[{%
434 \def\noexpand\pcp@RuleBetweenColor{%
435 \noexpand\color\pcp@temp
436 }%
437 \noexpand\pcp@GobbleNil
438 }{%
439 \def\noexpand\pcp@RuleBetweenColor{%
440 \noexpand\color{\pcp@temp}%
441 }%
442 \noexpand\pcp@GobbleNil
443 }%
444 \pcp@temp\noexpand\@nil
445 }%
446 \pcp@temp
447 \fi
448 }

```

\pcp@GobbleNil

```

449 \long\def\pcp@GobbleNil#1\@nil{}
450 \end{package}

```

### 3 Test

The test file is a modified version of the file that Alexander Hirsch has posted in [de.comp.text.tex](http://groups.google.com/group/de.comp.text.tex/msg/6a759cf33bb071a5): “parallel.sty und farbiger Text”<sup>1</sup>

```

451 \documentclass{article}
452 \AtEndDocument{%
453 \typeout{%
454 \typeout{*****}%
455 \typeout{*** \space Check the PDF file manually! \space ***}%
456 \typeout{*****}%
457 \typeout{}}%
458 }
459 \documentclass{article}
460 \usepackage{xcolor}
461 \usepackage{pdfcolparallel}[2010/01/11]
462
463 \begin{document}
464 \color{green}%
465 Green%
466 \begin{Parallel}{0.47\textwidth}{0.47\textwidth}%
467 \ParallelLText{%
468 \textcolor{red}{%
469 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
470 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
471 }%
472 }%
473 \ParallelRText{%
474 \textcolor{blue}{%
475 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
476 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
477 }%
478 }%
479 \ParallelPar
480 \ParallelLText{%

```

<sup>1</sup>Url: <http://groups.google.com/group/de.comp.text.tex/msg/6a759cf33bb071a5>

```

481     Default %
482     \color{red}%
483     Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
484     Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
485 }%
486 \ParallelRText{%
487     Default %
488     \color{blue}%
489     Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
490     Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
491 }%
492 \ParallelPar
493 \ParallelLText{%
494     \begin{enumerate}%
495         \item left text, left text, left text, left text, %
496             left text, left text, left text, left text,%
497         \item left text, left text, left text, left text, %
498             left text, left text, left text, left text.%
499     \end{enumerate}%
500 }%
501 \ParallelRText{%
502     \begin{enumerate}%
503         \item right text, right text, right text, right text, %
504             right text, right text, right text, right text.%
505         \item right text, right text, right text, right text, %
506             right text, right text, right text, right text.%
507     \end{enumerate}%
508 }%
509 \end{Parallel}%
510 \begin{Parallel}[p]{\textwidth}{\textwidth}%
511     \ParallelLText{%
512         \textcolor{red}{%
513             Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
514             Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
515             Foo bar bla bla bla.%
516         }%
517         \par
518         Und noch ein Absatz.%
519     }%
520     \ParallelRText{%
521         \textcolor{blue}{%
522             Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
523             Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
524             Foo bar bla bla bla.%
525         }%
526     }%
527 \end{Parallel}%
528 \begin{Parallel}[p]{\textwidth}{\textwidth}%
529     \ParallelLText{%
530         \rule{1pt}{.98\textheight}\Huge g%
531     }%
532     \ParallelRText{%
533         \rule{1pt}{.98\textheight}y%
534     }%
535 \end{Parallel}%
536 Green%
537 \end{document}
538 \end{test1}

```

## 4 Installation

### 4.1 Download

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

[CTAN:macros/latex/contrib/oberdiek/pdfcolparallel.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/pdfcolparallel.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  $\text{\TeX}$  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  $\text{\TeX}$ :

```
tex pdfcolparallel.dtx
```

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

<code>pdfcolparallel.sty</code>	$\rightarrow$ <code>tex/latex/oberdiek/pdfcolparallel.sty</code>
<code>pdfcolparallel.pdf</code>	$\rightarrow$ <code>doc/latex/oberdiek/pdfcolparallel.pdf</code>
<code>test/pdfcolparallel-test1.tex</code>	$\rightarrow$ <code>doc/latex/oberdiek/test/pdfcolparallel-test1.tex</code>
<code>pdfcolparallel.dtx</code>	$\rightarrow$ <code>source/latex/oberdiek/pdfcolparallel.dtx</code>

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  $\text{\TeX}$  distribution (`te $\text{\TeX}$` , `mik $\text{\TeX}$` , ...) relies on file name databases, you must refresh these. For example, `te $\text{\TeX}$`  users run `texhash` or `mktextlsr`.

---

<sup>2</sup><http://ftp.ctan.org/tex-archive/>

## 4.5 Some details for the interested

**Attached source.** The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk pdfcolparallel.pdf unpack_files output .
```

**Unpacking with  $\LaTeX$ .** The `.dtx` chooses its action depending on the format:

**plain  $\TeX$ :** 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{pdfcolparallel.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 `pdf $\LaTeX$` :

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

## 5 References

- [1] Matthias Eckermann: *The `parallel` package*; 2003/04/13;  
[CTAN:macros/latex/contrib/parallel/](http://CTAN:macros/latex/contrib/parallel/).
- [2] Heiko Oberdiek: *The `pdfcol` package*; 2007/09/09;  
[CTAN:macros/latex/contrib/oberdiek/pdfcol.pdf](http://CTAN:macros/latex/contrib/oberdiek/pdfcol.pdf).

## 6 History

[2007/09/09 v1.0]

- First version.

[2007/12/12 v1.1]

- Adds patch for setting `\linewidth` to fix bug in package `parallel`.
- Package `parallel` is also fixed if color stacks are not available.
- Bug fix, switched stacks now initialized with current color.
- Fix for package `parallel`: `\raggedbottom` is respected.

[2008/08/11 v1.2]

- Code is not changed.
- URLs updated.

[2010/01/11 v1.3]

- Option ‘rulebetweencolor’ added.

## 7 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.

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