

The pdfcolparallel package

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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.

*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

1.1 Option rulebetweenecolor

Package pdfcolparallel also fixes the color for the rule between columns. Default color is `\normalcolor`. But this can be changed by using option `rulebetweenecolor` 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}{rulebetweenecolor=blue},
\setkeys{parallel}{rulebetweenecolor={red}},
\setkeys{parallel}{rulebetweenecolor={}}, % \normalcolor is used
\setkeys{parallel}{rulebetweenecolor=[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 [2016/05/16 v1.4 Color stacks support for parallel (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\curname currentgrouplevel\endcurname\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           }%
31         }
```

`\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{}

```

\ParallelText

```

67 \pcp@CmdCheckRedef\ParallelText{%
68 \everypar{}%
69 \@restorepar
70 \begingroup
71 \hbadness=3000 %
72 \let\footnote=\ParallelFootnote
73 \ParallelWhichBox=0 %
74 \global\setbox\ParallelBox=\vbox\bgroup
75 \hsize=\ParallelWidth
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\ParallelBox=\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 \@nobeakfalse
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\ParallelLBox
150     \mbox{} %
151     \newpage
152     \else
153     \global\ParallelWhichBox=\z@
154     \fi
155     \else
156     \ifvoid\ParallelRBox
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\ParallelLBox 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\ParallelRBox to.98\textheight}%
179     }%
180     \fi
181     \vspace*{\fill}%
182     \newpage
183     \fi
184     \ifvoid\ParallelLBox
185     \ifvoid\ParallelRBox
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 \begingroup
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”¹

```

451 \documentclass{article}
452 \usepackage{xcolor}
453 \usepackage{pdfcolparallel}[2016/05/16]
454 \begin{document}
455 \color{green}%
456 Green%
457 \begin{Parallel}{0.47\textwidth}{0.47\textwidth}%
458 \ParallelLText{%
459 \textcolor{red}{%
460 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
461 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
462 }%
463 }%
464 \ParallelRText{%
465 \textcolor{blue}{%
466 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
467 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
468 }%
469 }%
470 \ParallelPar
471 \ParallelLText{%
472 Default %
473 \color{red}%
474 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
475 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
476 }%
477 }%
478 \end{Parallel}
479 \end{document}

```

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

```

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 </test1>

```

4 Installation

4.1 Download

Package. This package is available on CTAN²:

²<http://ctan.org/pkg/pdfcolparallel>

[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 T_EX 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 T_EX:

```
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>	→ <code>tex/latex/oberdiek/pdfcolparallel.sty</code>
<code>pdfcolparallel.pdf</code>	→ <code>doc/latex/oberdiek/pdfcolparallel.pdf</code>
<code>test/pdfcolparallel-test1.tex</code>	→ <code>doc/latex/oberdiek/test/pdfcolparallel-test1.tex</code>
<code>pdfcolparallel.dtx</code>	→ <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 T_EX distribution (teT_EX, mikT_EX, ...) relies on file name databases, you must refresh these. For example, teT_EX users run `texhash` or `mktextlsr`.

4.5 Some details for the interested

Unpacking with L^AT_EX. The `.dtx` chooses its action depending on the format:

plain T_EX: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), 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 pdfL^AT_EX:

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

5 Catalogue

The following XML file can be used as source for the [T_EX 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 `pdfcolparallel.xml`.

```
539 (*catalogue)
540 <?xml version='1.0' encoding='us-ascii'?>
541 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
542 <entry datestamp='$Date$' modifier='$Author$' id='pdfcolparallel'>
543   <name>pdfcolparallel</name>
544   <caption>Fix colour problems in package 'parallel'.</caption>
545   <authorref id='auth:oberdiek'>/>
546   <copyright owner='Heiko Oberdiek' year='2007,2008,2010'>/>
547   <license type='lppl1.3'>/>
548   <version number='1.4'>/>
549   <description>
550     Since version 1.40 pdfTeX supports colour stacks.
551     This package uses them to fix colour problems in
552     package <xref refid='parallel'>parallel</xref>.
553   </p>
554   The package is part of the <xref refid='oberdiek'>oberdiek</xref>
555   bundle.
556 </description>
557 <documentation details='Package documentation'
558   href='ctan:/macros/latex/contrib/oberdiek/pdfcolparallel.pdf'>/>
559 <ctan file='true' path='/macros/latex/contrib/oberdiek/pdfcolparallel.dtx'>/>
560 <miktex location='oberdiek'>/>
561 <texlive location='oberdiek'>/>
562 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'>/>
563 </entry>
564 </catalogue>
```

6 References

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

7 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.

[2016/05/16 v1.4]

- Documentation updates.

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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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