

# The pdfcolparallel package

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## Abstract

Since version 1.40 pdfTeX supports several color stacks. This package uses them to fix color problems in package `parallel`.

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## 1 Usage

```
\usepackage{pdfcolparallel}
```

The package `pdfcolparallel` loads package `parallel` [1]. If color stacks are available then the macros of `parallel` are patched to add support for color stacks.

### 1.1 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 [2007/09/09 v1.0 Color stacks support for parallel (H0)]%
```

### 2.2 Load packages

#### 2.2.1 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]
```

#### 2.2.2 Package pdfcol

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

#### 2.2.3 Package infwarerr

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

### 2.3 Color stack macros

```
19 \pdfcolInitStack{pcp@Left}
20 \pdfcolInitStack{pcp@Right}
```

\pcp@SwitchStack

```
21 \def\pcp@SwitchStack#1{%
22   \pdfcolSwitchStack{pcp@#1}%
23 }
```

\pcp@SetCurrent

```
24 \def\pcp@SetCurrent#1{%
25   \ifx\\#1\\%
26     \pdfcolSetCurrent{}%
27   \else
28     \pdfcolSetCurrent{pcp@#1}%
29   \fi
30 }
```

### 2.4 Redefinitions

\pcp@CmdCheckRedef

```
31 \def\pcp@CmdCheckRedef#1{%
32   \begingroup
33     \def\pcp@cmd{#1}%
34     \afterassignment\pcp@CmdDo
35     \long\def\reserved@a
36 }
```

```

37 \def\pcp@CmdDo{%
38   \expandafter\ifx\pcp@cmd\reserved@a
39   \else
40     \edef\x*{\expandafter\string\pcp@cmd}%
41     \@PackageWarningNoLine{pdfcolparallel}{%
42       Command \x* has changed.\MessageBreak
43       Supported versions of package 'parallel':\MessageBreak
44       \space\space 2003/04/13\MessageBreak
45       The redefinition of \x* may\MessageBreak
46       not behave correctly depending on the changes%
47     }%
48   \fi
49   \expandafter\endgroup
50   \expandafter\def\pcp@cmd
51 }

```

\ParallelLText

```

52 \pcp@CmdCheckRedef\ParallelLText{%
53   \everypar{}%
54   \@restorepar
55   \begingroup
56     \hbadness=3000 %
57     \let\footnote=\ParallelFootnote
58     \ParallelWhichBox=0 %
59     \global\setbox\ParallelLBox=\vbox\bgroup
60       \hsize=\ParallelLWidth
61       \aftergroup\ParallelAfterText
62       \begingroup
63         \afterassignment\ParallelCheckOpenBrace
64         \let\x=%
65   }{%
66     \everypar{}%
67     \@restorepar
68     \begingroup
69       \hbadness=3000 %
70       \let\footnote=\ParallelFootnote
71       \ParallelWhichBox=0 %
72       \global\setbox\ParallelLBox=\vbox\bgroup
73         \hsize=\ParallelLWidth
74         \pcp@SwitchStack{Left}%
75         \aftergroup\ParallelAfterText
76         \begingroup
77           \afterassignment\ParallelCheckOpenBrace
78           \let\x=%
79 }

```

\ParallelRText

```

80 \pcp@CmdCheckRedef\ParallelRText{%
81   \everypar{}%
82   \@restorepar
83   \begingroup
84     \hbadness=3000 %
85     \ifnum\ParallelFNMode=\@ne
86       \let\footnote=\ParallelRFootnote
87     \else
88       \let\footnote=\ParallelFootnote
89     \fi
90     \ParallelWhichBox=\@ne
91     \global\setbox\ParallelRBox=\vbox\bgroup
92       \hsize=\ParallelRWidth
93       \aftergroup\ParallelAfterText
94     \begingroup

```

```

95      \afterassignment\ParallelCheckOpenBrace
96      \let\x=%
97 }{ %
98   \everypar{} %
99   \@restorepar
100  \begingroup
101    \hbadness=3000 %
102    \ifnum\ParallelFNMode=\@ne
103      \let\footnote=\ParallelRFootnote
104    \else
105      \let\footnote=\ParallelLFootnote
106    \fi
107    \ParallelWhichBox=\@ne
108    \global\setbox\ParallelRBox=\vbox\bgroup
109      \hsize=\ParallelRWidth
110      \pcp@SwitchStack{Right} %
111      \aftergroup\ParallelAfterText
112      \begingroup
113        \afterassignment\ParallelCheckOpenBrace
114        \let\x=%
115  }

```

\ParallelParOnePage

```

116 \pcp@CmdCheckRedef\ParallelParOnePage{%
117   \ifnum\ParallelBoolVar=\@ne
118     \par
119     \begingroup
120       \leftmargin=\z@
121       \rightmargin=\z@
122       \parskip=\z@skip
123       \parindent=\z@
124       \vbadness=10000 %
125       \vfuzz=3ex %
126       \splittopskip=\z@skip
127       \loop
128         \ifnum\ParallelBoolVar=\@ne
129           \noindent
130           \hbox to\textwidth{%
131             \hskip\ParallelLeftMargin
132             \hbox to\ParallelTextWidth{%
133               \ifvoid\ParallelLBox
134                 \hskip\ParallelLWidth
135               \else
136                 \ParallelWhichBox=\z@
137                 \vbox{%
138                   \setbox\ParallelBoxVar
139                     =\vsplit\ParallelLBox to\dp\strutbox
140                   \unvbox\ParallelBoxVar
141                 } %
142               \fi
143               \strut
144               \ifnum\ParallelBoolMid=\@ne
145                 \hskip\ParallelMainMidSkip
146                 \vrule
147               \else
148                 \hss
149               \fi
150               \hss
151               \ifvoid\ParallelRBox
152                 \hskip\ParallelRWidth
153               \else
154                 \ParallelWhichBox=\@ne
155                 \vbox{%

```

```

156             \setbox\ParallelBoxVar
157             =\vsplit\ParallelRBox to\dp\strutbox
158             \unvbox\ParallelBoxVar
159         }%
160     \fi
161 }%
162 }%
163 \ifvoid\ParallelLBox
164     \ifvoid\ParallelRBox
165         \global\ParallelBoolVar=\z@
166     \fi
167 \fi%
168 \fi%
169 \ifnum\ParallelBoolVar=\@ne
170     \penalty\interlinepenalty
171 \repeat
172 \par
173 \endgroup
174 \fi
175 }{%
176     \ifnum\ParallelBoolVar=\@ne
177     \par
178     \begingroup
179         \leftmargin=\z@
180         \rightmargin=\z@
181         \parskip=\z@skip
182         \parindent=\z@
183         \vbadness=10000 %
184         \vfuzz=3ex %
185         \splittopskip=\z@skip
186     \loop
187         \ifnum\ParallelBoolVar=\@ne
188             \noindent
189             \hbox to\textwidth{%
190                 \hskip\ParallelLeftMargin
191                 \hbox to\ParallelTextWidth{%
192                     \ifvoid\ParallelLBox
193                         \hskip\ParallelLWidth
194                     \else
195                         \pcp@SetCurrent{Left}%
196                         \ParallelWhichBox=\z@
197                         \vbox{%
198                             \setbox\ParallelBoxVar
199                             =\vsplit\ParallelLBox to\dp\strutbox
200                             \unvbox\ParallelBoxVar
201                         }%
202                     \fi
203                     \strut
204                     \ifnum\ParallelBoolMid=\@ne
205                         \hskip\ParallelMainMidSkip
206                         \vrule
207                     \else
208                         \hss
209                     \fi
210                     \hss
211                     \ifvoid\ParallelRBox
212                         \hskip\ParallelRWidth
213                     \else
214                         \pcp@SetCurrent{Right}%
215                         \ParallelWhichBox=\@ne
216                         \vbox{%
217                             \setbox\ParallelBoxVar

```

```

218             =\vsplit\ParallelRBox to\dp\strutbox
219             \unvbox\ParallelBoxVar
220         }%
221     \fi
222 }%
223 }%
224 \ifvoid\ParallelLBox
225     \ifvoid\ParallelRBox
226         \global\ParallelBoolVar=\z@
227     \fi
228 \fi%
229 \fi%
230 \ifnum\ParallelBoolVar=\@ne
231     \penalty\interlinepenalty
232 \repeat
233 \par
234 \endgroup
235 \pcp@SetCurrent{}%
236 \fi
237 }

```

\ParallelParTwoPages

```

238 \pcp@CmdCheckRedef\ParallelParTwoPages{%
239     \ifnum\ParallelBoolVar=\@ne
240     \par
241     \beginingroup
242         \global\ParallelWhichBox=\@ne
243         \newpage
244         \vbadness=10000 %
245         \vfuzz=3ex %
246         \splittopskip=\z@skip
247         \loop%
248             \ifnum\ParallelBoolVar=\@ne%
249                 \ifnum\ParallelWhichBox=\@ne
250                     \ifvoid\ParallelLBox
251                         \mbox{} %
252                     \newpage
253                 \else
254                     \global\ParallelWhichBox=\z@
255                 \fi
256             \else
257                 \ifvoid\ParallelRBox
258                     \mbox{} %
259                 \newpage
260             \else
261                 \global\ParallelWhichBox=\@ne
262             \fi
263         \fi
264         \ifnum\ParallelWhichBox=\z@
265             \ifodd\thepage
266                 \mbox{} %
267             \newpage
268         \fi
269         \hbox to\textwidth{%
270             \vbox{\vsplit\ParallelLBox to.98\textheight}%
271         }%
272     \else
273         \ifodd\thepage\relax
274     \else
275         \mbox{} %
276     \newpage
277 \fi
278 \hbox to\textwidth{%

```

```

279         \vbox{\vsplit\ParallelRBox to.98\textheight}%
280     }%
281     \fi
282     \vspace*{\fill}%
283     \newpage
284     \fi
285     \ifvoid\ParallelLBox
286     \ifvoid\ParallelRBox
287         \global\ParallelBoolVar=\z@
288     \fi
289     \fi
290     \ifnum\ParallelBoolVar=\@ne
291     \repeat
292     \par
293     \endgroup
294 \fi
295 }{%
```

Additional fixes:

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

```

296 \ifnum\ParallelBoolVar=\@ne
297 \par
298 \begingroup
299 \global\ParallelWhichBox=\@ne
300 \newpage
301 \vbadness=10000 %
302 \vfuzz=3ex %
303 \splittopskip=\z@skip
304 \loop%
305 \ifnum\ParallelBoolVar=\@ne%
306 \ifnum\ParallelWhichBox=\@ne
307 \ifvoid\ParallelLBox
308 \mbox{}%
309 \newpage
310 \else
311 \global\ParallelWhichBox=\z@
312 \fi
313 \else
314 \ifvoid\ParallelRBox
315 \mbox{}%
316 \newpage
317 \else
318 \global\ParallelWhichBox=\@ne
319 \fi
320 \fi
321 \ifnum\ParallelWhichBox=\z@
322 \ifodd\value{page}%
323 \mbox{}%
324 \newpage
325 \fi
326 \hbox to\textwidth{%
327 \pcp@SetCurrent{Left}%
328 \vbox{\vsplit\ParallelLBox to.98\textheight}%
329 }%
330 \else
331 \ifodd\value{page}%
332 \else
333 \mbox{}%
334 \newpage
335 \fi
```

```

336         \hbox to\textwidth{%
337             \pcp@SetCurrent{Right}%
338             \vbox{\vsplit\ParallelRBox to.98\textheight}%
339         }%
340     \fi
341     \vspace*{\fill}%
342     \newpage
343 \fi
344 \ifvoid\ParallelLBox
345     \ifvoid\ParallelRBox
346         \global\ParallelBoolVar=\z@
347     \fi
348 \fi
349 \ifnum\ParallelBoolVar=\@ne
350     \repeat
351     \par
352 \endgroup
353 \pcp@SetCurrent{%
354 \fi
355 }
356 \end{package}

```

### 3 Test

The test file is a modified version of the file that Alexander Hirsch has posted in `de.comp.text.tex`.

```

357 \begin{document}
358 \AtEndDocument{%
359     \typeout{%
360         \typeout{*****}%
361         \typeout{*** \space Check the PDF file manually! \space ***}%
362         \typeout{*****}%
363     }
364 }
365 \documentclass{article}
366 \usepackage{xcolor}
367 \usepackage[pdftoolbar]{2007/09/09}
368
369 \begin{document}
370     \color{green}%
371     Green%
372     \begin{Parallel}{0.47\textwidth}{0.47\textwidth}%
373         \ParallelLText{%
374             \textcolor{red}{%
375                 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
376                 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
377             }%
378         }%
379         \ParallelRText{%
380             \textcolor{blue}{%
381                 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
382                 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll.%
383             }%
384         }%
385     \end{Parallel}%
386     Green%
387     \begin{Parallel}[p]{\textwidth}{\textwidth}%
388         \ParallelLText{%
389             \textcolor{red}{%
390                 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
391                 Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %

```



```

392      Foo bar bla bla bla.%
393    }%
394  }%
395  \ParallelRText{%
396    \textcolor{blue}{%
397      Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
398      Ein Absatz, der sich ueber zwei Zeilen erstrecken soll. %
399      Foo bar bla bla bla.%
400    }%
401  }%
402  \end{Parallel}%
403  Green%
404  \end{document}
405 </test1>

```

## 4 Installation

### 4.1 Download

**Package.** This package is available on CTAN<sup>1</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:macros/latex/contrib/oberdiek/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- $\TeX$ :

```
tex pdfcolparallel.dtx
```

---

<sup>1</sup><http://ftp.ctan.org/tex-archive/>

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

```
pdfcolparallel.sty      → tex/latex/oberdiek/pdfcolparallel.sty
pdfcolparallel.pdf      → doc/latex/oberdiek/pdfcolparallel.pdf
pdfcolparallel-test1.tex → doc/latex/oberdiek/pdfcolparallel-test1.tex
pdfcolparallel.dtx      → source/latex/oberdiek/pdfcolparallel.dtx
```

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

## 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.

## 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; numbers in roman refer to the code lines where the entry is used.

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