

The pdfcolmk package

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Abstract

This package tries a solution for the missing color stack of pdfTeX.

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

1 Documentation

1.1 Introduction

This package uses a mark register in order to solve the problem of a missing color stack of pdfTeX prior 1.40.0. Since this version of pdfTeX a color stack is available and supported by pdfTeX.def 2007/01/01 v0.04a. In this case this package is obsolete and the package stops its loading.

1.2 Background

After the Dante meeting (Clausthal 2000) I have started to experiment with the eTeX method of a *colour* mark. One of the major problems is the understanding of the output routine and the need to rewrite it because of missing hooks. Currently I have made some tests in onecolumn and twocolumn mode, but the state is experimental.

1.3 Limitations

- Mark limitations: page breaks in math.
- L^AT_EX's output routine is redefined.
 - Changes in the output routine of newer versions of LaTeX are not detected.
 - Packages that change the output routine are not supported.
- It does not support several independent text streams like footnotes.
- Limitations in float and marginpar support.

1.4 Recommendation

ϵ -T_EX (for additional mark register) Without ϵ -T_EX L^AT_EX's mark commands are redefined to store an additional color value.

1.5 Usage

Load after package color:

```
\usepackage[pdftex]{color}  
\usepackage{pdfcolmk}
```

1.6 Compatibility

- Load the following packages after pdfcolmk:

```
mparhack.sty
```

- Load the following packages before pdfcolmk:

```
marn.sty  
newmarn.sty
```

- Supported \@addmarginpar patch:

```
latex/base/latex.ltx  
memoir.cls  
poemscol/marn.sty, poemscol/newmarn.sty  
mparhack.sty
```

- Unsupported \@addmarginpar patch:

lineno.sty
sttools/marginal.sty
revtex4.cls

2 Implementation

```

1 (*package)
Package identification.
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pdfcolmk}%
4 [2016/05/16 v1.3 Color support for pdfTeX via marks (HO)]
5 \ifundefined{ver@pdftex.def}{%
6   \PackageWarningNoLine{pdfcolmk}{%
7     Nothing to fix, because \string`pdftex.def\string' not loaded%
8   }%
9   \endinput
10 }{}
11 \ifpackageloaded{color}{%}%
12   \PackageWarningNoLine{pdfcolmk}{%
13     Nothing to fix, because \string`color.sty\string' not loaded%
14   }%
15   \endinput
16 }
17 \begingroup\expandafter\expandafter\expandafter\endgroup
18 \expandafter\ifx\csname main@pdfcolorstack\endcsname\relax
19 \else
20   % pdftex.def >= 2007/01/01 0.04a and pdfTeX >= 1.40.0
21   \begingroup
22     \let\on@line\@empty
23     \PackageInfo{pdfcolmk}{%
24       The color stack of pdfTeX \string>\string= 1.40 is used. %
25       Therefore\MessageBreak
26       this package is not necessary and not loaded%
27     }%
28   \endgroup
29   \expandafter\endinput
30 \fi
31
32 \PackageInfo{pdfcolmk}{%
33   This package tries to simulate dvips's color stack\MessageBreak
34   for pdfTeX based on a mark register of e-TeX.\MessageBreak
35   It redefines LaTeX's output routine. Therefore\MessageBreak
36   use with care, no warranties%
37 }
38
39 \ifx\marks\@undefined
40
41   \let\pec@mark\mark
42   \let\pec@value\empty
43   \long\def\mark#1{%
44     \protected@xdef\pec@value{#1}%
45     \pec@setmark
46   }%
47   \def\pec@setmark{%
48     \begingroup
49       \@temptokena\expandafter{\pec@value}%
50       \pec@mark{{\current@color}\the\@temptokena}%
51     \endgroup
52   }%
53   \def\pec@getmark{%
54     \xdef\pec@botcolor{%

```

```

55     \expandafter\@firstofthree\botmark\@empty\@empty\@empty
56   }%
57 }%
58 \long\def\@firstofthree#1#2#3{#1}%
59 \CheckCommand{\@leftmark}[2]{#1}%
60 \CheckCommand{\@rightmark}[2]{#2}%
61 \CheckCommand*{\leftmark}{%
62   \expandafter\@leftmark\botmark\@empty\@empty
63 }%
64 \CheckCommand*{\rightmark}{%
65   \expandafter\@rightmark\firstmark\@empty\@empty
66 }%
67 \long\def\@leftmark#1#2#3{#2}%
68 \long\def\@rightmark#1#2#3{#3}%
69 \g@addto@macro\leftmark\@empty
70 \g@addto@macro\rightmark\@empty
71
72 \else
73
74   \RequirePackage{etex}[1998/03/26]%
75   \newmarks\pec@marks
76   \def\pec@setmark{\marks\pec@marks{\current@color}}%
77   \def\pec@getmark{\xdef\pec@botcolor{\botmarks\pec@marks}}%
78
79 \fi

```

2.1 \marginpar fix

```

80 \chardef\pec@result\z@
81 \def\pec@temp#1{%
82   \chardef\pec@result\@ne
83   \begingroup
84     \let\on@line\@empty
85     \PackageInfo{pdfcolmk}{%
86       Patch for \string\@addmarginpar\space applied (#1)%
87     }%
88   \endgroup
89 }

```

2.1.1 latex/base/latex.ltx

```

90 \def\pec@addmarginpar{%
91   \@next\@marbox\@currlist{%
92     \@cons\@freelist\@marbox
93     \@cons\@freelist\@currbox
94   }\@latexbug
95   \@tempcnta\@ne
96   \if@twocolumn
97     \if@firstcolumn
98       \@tempcnta\m@ne
99     \fi
100  \else
101    \if@mparswitch
102      \ifodd\c@page
103        \else
104          \@tempcnta\m@ne
105        \fi
106      \fi
107    \if@reversemargin \@tempcnta -\@tempcnta \fi
108    \fi
109    \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
110    \@tempdima\@mparbottom
111    \advance\@tempdima -\@pageht
112    \advance\@tempdima\ht\@marbox

```

```

113 \ifdim \@tempdima >\z@
114 \latex@warning@no@line{Marginpar on page \thepage\space moved}%
115 \else
116 \tempdima\z@
117 \fi
118 \global\mparbottom\@pageht
119 \global\advance\mparbottom\tempdima
120 \global\advance\mparbottom\dp\marbox
121 \global\advance\mparbottom\marginparpush
122 \advance\tempdima-\ht\marbox
123 \global\setbox\marbox\vbox{%
124 \vskip \tempdima
125 \box \marbox
126 }%
127 \global\ht\marbox\z@
128 \global\dp\marbox\z@
129 \kern-\@pagedp
130 \nointerlineskip
131 \hb@xt@\columnwidth{%
132 \ifnum \tempcnta >\z@
133 \hskip\columnwidth
134 \hskip\marginparsep
135 \else
136 \hskip-\marginparsep
137 \hskip-\marginparwidth
138 \fi
139 \box\marbox \hss
140 }%
141 \nointerlineskip
142 \hbox{\vrule \height\z@ \width\z@ \depth\@pagedp}%
143 }
144 \ifx\pec@addmarginpar\@addmarginpar
145 \pec@temp{latex/base}%
146 \fi

```

2.1.2 memoir.cls

```

147 \def\pec@addmarginpar{%
148 \checkoddpage
149 \@next\marbox\currlist{%
150 \cons\freelist\marbox
151 \cons\freelist\currbox
152 }\latexbug
153 \tempcnta\@ne
154 \if@twocolumn
155 \if@firstcolumn
156 \tempcnta\m@ne
157 \fi
158 \else
159 \if@mparswitch
160 \ifoddpage
161 \else
162 \tempcnta\m@ne
163 \fi
164 \fi
165 \if@reversemargin
166 \tempcnta-\tempcnta
167 \fi
168 \fi
169 \ifnum \tempcnta <\z@
170 \global\setbox\marbox\box\currbox
171 \fi
172 \tempdima\mparbottom
173 \advance\tempdima-\@pageht

```

```

174 \advance\@tempdima\ht\@marbox
175 \ifdim\@tempdima >\z@
176 \@latex@warning@no@line{%
177   Marginpar on page \thepage\space moved by \the\@tempdima
178 }%
179 \else
180 \@tempdima\z@
181 \fi
182 \global\@mparbottom\@pageht
183 \global\advance\@mparbottom\@tempdima
184 \global\advance\@mparbottom\dp\@marbox
185 \global\advance\@mparbottom\marginparpush
186 \advance\@tempdima -\ht\@marbox
187 \global\setbox\@marbox\vbox{%
188   \vskip \@tempdima
189   \box \@marbox
190 }%
191 \global \ht\@marbox \z@
192 \global \dp\@marbox \z@
193 \kern -\@pagedp
194 \nointerlineskip
195 \hb@xt@\columnwidth{%
196   \ifnum \@tempcnta >\z@
197     \hskip\columnwidth
198     \hskip\marginparsep
199   \else
200     \hskip -\marginparsep
201     \hskip -\marginparwidth
202   \fi
203   \box\@marbox
204   \hss
205 }%
206 \nointerlineskip
207 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
208 }%
209 \ifx\pec@addmarginpar\@addmarginpar
210 \pec@temp{memoir.cls}%
211 \fi

```

2.1.3 poemscol/marn.sty, poemscol/newmarn.sty

```

212 \def\pec@addmarginpar{%
213   \@next \@marbox\@currlist{%
214     \@cons\@freelist\@marbox
215     \@cons\@freelist\@currbox
216   }\@latexbug
217   \global\advance\@mpar@count\m@ne
218   \@ifundefined{\@marn@\the\@mpar@count @}{% was location logged last time?
219     \@tempcnta\@ne % NO: use original LaTeX logic
220     \if@twocolumn
221       \if@firstcolumn
222         \@tempcnta\m@ne
223       \fi
224     \else
225       \if@mparswitch
226         \ifodd\c@page
227           \else
228             \@tempcnta\m@ne
229           \fi
230         \fi
231       \if@reversemargin
232         \@tempcnta -\@tempcnta
233       \fi
234     \fi

```

```

235 }{%
236 \@tempcnta % YES: use record from last time to decide side.
237 \@nameuse{@marn@the\@mpar@count @}%
238 \if@reversemargin -\fi \@ne
239 }%
240 \ifnum \@tempcnta <\z@
241 \global\setbox\@marbox\box\@currbox
242 \global\let\@marnbottom\@mparbottoml
243 \else
244 \global\let\@marnbottom\@mparbottom
245 \fi
246 \@tempdima\@marnbottom \advance\@tempdima -\@pageht
247 \advance\@tempdima\ht\@marbox
248 \ifdim \@tempdima >\z@
249 \@@warning{Marginpar on page \thepage\space moved}%
250 \else
251 \@tempdima\z@
252 \fi
253 \global\@marnbottom\@pageht
254 \global\advance\@marnbottom\@tempdima
255 \global\advance\@marnbottom\dp\@marbox
256 \global\advance\@marnbottom\marginparpush
257 \advance\@tempdima -\ht\@marbox
258 \global\ht\@marbox\z@
259 \global\dp\@marbox\z@
260 \vskip -\@pagedp
261 \vskip\@tempdima\nointerlineskip
262 \hbox to\columnwidth{%
263 \ifnum \@tempcnta >\z@
264 \hskip\columnwidth
265 \hskip\marginparsep
266 \else
267 \hskip -\marginparsep
268 \hskip -\marginparwidth
269 \fi
270 \if@filesw % record where this is for use next time:
271 \@marn@log\@mpar@count
272 \fi
273 \box\@marbox
274 \hss
275 }%
276 \nobreak %% RmS 91/06/21 \nobreak added
277 \vskip -\@tempdima
278 \nointerlineskip
279 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
280 }
281 \ifx\pec@addmarginpar\@addmarginpar
282 \pec@temp{poemscol/(new)marn.sty}%
283 \fi

```

2.1.4 refman/refart.cls, refnam/refrep.cls

```

284 \def\pec@addmarginpar{%
285 \@next\@marbox\@currlist{%
286 \@cons\@freelist\@marbox
287 \@cons\@freelist\@currbox
288 }\@latexbug
289 \@tempcnta\@ne
290 \if@twocolumn
291 \if@firstcolumn
292 \@tempcnta\m@ne
293 \fi
294 \else
295 \@tempcnta\m@ne

```

```

296 \fi
297 \ifnum \@tempcnta < \z@
298   \global\setbox\@marbox\box\@currbox
299 \fi
300 \@tempdima\@mparbottom
301 \advance\@tempdima -\@pageht
302 \advance\@tempdima\ht\@marbox
303 \ifdim \@tempdima > \z@
304   \@@warning{Marginpar on page \thepage\space moved}%
305 \else
306   \@tempdima\z@
307 \fi
308 \global\@mparbottom\@pageht
309 \global\advance\@mparbottom\@tempdima
310 \global\advance\@mparbottom\dp\@marbox
311 \global\advance\@mparbottom\marginparpush
312 \advance\@tempdima -\ht\@marbox
313 \global\setbox\@marbox\vbox{%
314   \vskip \@tempdima \box \@marbox
315 }%
316 \global \ht\@marbox \z@
317 \global \dp\@marbox \z@
318 \kern -\@pagedp
319 \nointerlineskip
320 \hb@xt@\columnwidth{%
321   \ifnum \@tempcnta > \z@
322     \hskip\columnwidth
323     \hskip\marginparsep
324   \else
325     \hskip -\marginparsep
326     \hskip -\marginparwidth
327   \fi
328   \box\@marbox
329   \hss
330 }%
331 \nointerlineskip
332 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
333 }
334 \ifx\pec@addmarginpar\@addmarginpar
335   \pec@temp{ref{art|rep}.cls}%
336 \fi
337
338 \ifcase\pec@result
339   \PackageInfo{pdfcolmk}{%
340     Fix for \string\@addmarginpar\space is omitted, %
341     because this variant\MessageBreak
342     of \string\@addmarginpar\space
343     is not recognized%
344   }%
345 \else
346   % apply patch for \@addmarginpar
347   \def\pec@PatchAddMarginpar#1\columnwidth#2#3\@nil{%
348     \pec@PatchAddMarginparI#2\@nil{#1}{#3}%
349   }%
350   \def\pec@PatchAddMarginparI#1\box\@marbox\hss#2\@nil#3#4{%
351     \def\@addmarginpar{%
352       #3%
353       \columnwidth{%
354         #1%
355         \pdfliteral{q}%
356         \rlap{%
357           \box\@marbox

```



```

358     }%
359     \pdfliteral{Q}%
360     \hss
361     #2%
362     }%
363     #4%
364     }%
365     }%
366     \expandafter\pec@PatchAddMarginpar\@addmarginpar\@nil
367 \fi

```

2.2 Color fix

```

368 \def\set@color{%
369   \pdfliteral{\current@color}%
370   \ifinner
371   \else
372     \pec@setmark
373   \fi
374   \aftergroup\reset@color
375 }
376 \def\reset@color{%
377   \pdfliteral{\current@color}%
378   \ifinner
379   \else
380     \pec@setmark
381   \fi
382 }
383
384 \let\pec@botcolor\current@color
385
386 \def\pec@PatchVBoxCCLV{%
387   \ifx\pec@botcolor\@empty
388   \else
389     \setbox\@cclv\vbox{%
390       \pdfliteral{\pec@botcolor}%
391       \unvbox\@cclv
392     }%
393   \fi
394   \pec@getmark
395 }
396
397 \def\pec@PatchAlreadyInBox{%
398   \ifx\pec@botcolor\@empty
399   \else
400     \pdfliteral{\pec@botcolor}%
401   \fi
402   \pec@getmark
403 }
404
405 \@ifclassloaded{memoir}{%
406   \expandafter\def\expandafter\mem@makecol\expandafter{%
407     \expandafter\pec@PatchVBoxCCLV
408     \mem@makecol
409   }%
410   \endinput
411 }{}
412
413 \@ifclassloaded{seminar}{%
414   \newcommand\pec@org@makeslide{}%
415   \let\pec@org@makeslide\@makeslide
416   \def\@makeslide{%
417     \pec@PatchVBoxCCLV

```

```

418 \pec@org@makeslide
419 }%
420 \endinput
421 }{}
422
423 \long\def\pec@output#1\@specialoutput\else#2\pec@end{%
424 \begingroup
425 \def\x{#2}%
426 \expandafter\endgroup
427 \ifx\x\@empty
428 \PackageWarningNoLine{pdfcolmk}{%
429 Unexpected \string\output\space routine detected,%
430 \MessageBreak
431 loading of package stopped%
432 }%
433 \expandafter\endinput
434 \fi
435 }
436 \expandafter\expandafter\expandafter\pec@output
437 \expandafter\@firstofone\the\output\@specialoutput\else\pec@end
438
439 \long\def\pec@output#1\@specialoutput\else#2\pec@end{%
440 \output{%
441 #1\@specialoutput\else
442 \pec@PatchVBoxCCLV
443 #2%
444 }%
445 }
446 \expandafter\expandafter\expandafter\pec@output
447 \expandafter\@firstofone\the\output\pec@end
448 \endpackage

```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/pdfcolmk.dtx](http://ctan.org/macros/latex/contrib/oberdiek/pdfcolmk.dtx) The source file.

[CTAN:macros/latex/contrib/oberdiek/pdfcolmk.pdf](http://ctan.org/macros/latex/contrib/oberdiek/pdfcolmk.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](http://ctan.org/install/macros/latex/contrib/oberdiek.tds.zip)

TDS refers to the standard “A Directory Structure for T_EX Files” ([CTAN:tds/tds.pdf](http://ctan.org/tds/tds.pdf)). Directories with `texmf` in their name are usually organized this way.

3.2 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
```

¹<http://ctan.org/pkg/pdfcolmk>

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/
```

3.3 Package installation

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

```
tex pdfcolmk.dtx
```

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

```
pdfcolmk.sty → tex/latex/oberdiek/pdfcolmk.sty
pdfcolmk.pdf → doc/latex/oberdiek/pdfcolmk.pdf
pdfcolmk.dtx → source/latex/oberdiek/pdfcolmk.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`.

3.4 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`.

3.5 Some details for the interested

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{pdfcolmk.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 pdfcolmk.dtx
makeindex -s gind.ist pdfcolmk.idx
pdflatex pdfcolmk.dtx
makeindex -s gind.ist pdfcolmk.idx
pdflatex pdfcolmk.dtx
```

4 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 `pdfcolmk.xml`.

```
449 (*catalogue)
450 <?xml version='1.0' encoding='us-ascii'?>
451 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
452 <entry datestamp='$Date$' modifier='$Author$' id='pdfcolmk'>
453   <name>pdfcolmk</name>
454   <caption>Improving colour support under pdftex.</caption>
455   <authorref id='auth:oberdiek'>
456     <copyright owner='Heiko Oberdiek' year='2000,2005-2008'>
457       <license type='lppl1.3'>
458         <version number='1.3'>
459           <description>
460             The package provides macros that emulate the &#x2018;colour stack&#x2019;
461             functionality of dvips. The colour stack deals with colour
462             manipulations when asynchronous events (like page-breaking) occur;
463             pdftex does not (yet) have such a stack, but dvips does, and the
464             <xref refid='color'>color</xref> package makes extensive use of
465             it.
466           <p/>
467             This package is an experimental solution to the problem, and works
468             best with pdf-e-tex.
469           <p/>
470             The package is part of the <xref refid='oberdiek'>oberdiek</xref> bundle.
471           </description>
472           <documentation details='Package documentation'
473             href='ctan:/macros/latex/contrib/oberdiek/pdfcolmk.pdf'>
474             <ctan file='true' path='/macros/latex/contrib/oberdiek/pdfcolmk.dtx'>
475             <miktex location='oberdiek'>
476             <texlive location='oberdiek'>
477             <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'>
478           </entry>
479 </catalogue>
```

5 History

[2000/08/27 v0.1]

- First published version in newsgroup [comp.text.tex](#):
“[pdftex: bug with colors?](#)”²

[2000/09/02 v0.2]

- Next try.

[2000/09/02 v0.3]

- Solution without ε -T_EX added.

[2000/09/06 v0.4]

- Patch commands added.
- Patch for seminar.cls added.

²Url: <http://groups.google.com/group/comp.text.tex/msg/6f088e69e4085d2c>

[2000/09/06 v0.5]

- Bug fix: initialization of `\pec@value` added.

[2005/06/15 v0.6]

- Support for `\marginpar` added. See thread in [comp.text.tex](#):
“Using `\textcolor` and `\marginpar` together”³

[2005/07/09 v0.7]

- Output support added for memoir, provided by Lars Madsen.

[2006/02/20 v0.8]

- Code is not changed.
- DTX framework.

[2007/01/01 v1.0]

- If `pdftex.def` \geq 2007/01/01 v0.04a is used with `pdfTeX` \geq 1.40.0, then package `pdfcolmk` is obsolete.

[2007/04/11 v1.1]

- Line ends sanitized.

[2008/08/11 v1.2]

- Code is not changed.
- URLs updated.

[2016/05/16 v1.3]

- Documentation updates.

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