

The **pdfcolmk** package

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Abstract

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

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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 In this case this package is obsolete and the package stops its loading.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 -TeX (for additional mark register) Without ε -TeX 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 [2008/08/11 v1.2 PDFtex COlor MarK (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`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{\currentcolor}}%
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\@parbottom
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   \atempdima\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 \atempdima
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 \atempcnta >\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   \atempcnta\@ne
154   \iftwocolumn
155     \if@firstcolumn
156       \atempcnta\m@ne
157     \fi
158   \else
159     \if@mparswitch
160       \ifoddpage
161       \else
162         \atempcnta\m@ne
163       \fi
164     \fi
165     \if@reversemargin
166       \atempcnta -\atempcnta
167     \fi
168   \fi
169   \ifnum\atempcnta <\z@
170     \global\setbox\@marbox\box\@currbox
171   \fi
172   \atempdima\@mparbottom
173   \advance\atempdima -\@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    \atempdima\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 \atempdima
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 \atempcpta >\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\@par@count\m@ne
218   \ifundefined{@marn@\the\@par@count }{%
219     \atempcpta\m@ne % NO: use original LaTeX logic
220     \if@twocolumn
221       \if@firstcolumn
222         \atempcpta\m@ne
223       \fi
224     \else
225       \if@mparswitch
226         \ifodd\c@page
227           \else
228             \atempcpta\m@ne
229           \fi
230         \fi
231         \if@reversemargin
232           \atempcpta -\atempcpta
233         \fi
234       \fi
235     }%
236   }%
237 }
```

```

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

```

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

```

284 \def\pec\addmarginpar{%
285   \c@next\c@marbox\c@currlist{%
286     \c@cons\c@freelist\c@marbox
287     \c@cons\c@freelist\c@currbox
288   }\c@latebug
289   \c@tempcnta\c@ne
290   \if@twocolumn
291     \if@firstcolumn
292       \c@tempcnta\m@ne
293     \fi
294   \else
295     \c@tempcnta\m@ne
296   \fi
297 }
```

```

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 </package>

```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

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

CTAN: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

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.

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[ftp://ftp.ctan.org/tex-archive/](http://ftp.ctan.org/tex-archive/)

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 (`teTeX`, `mikTeX`, ...) relies on file name databases, you must refresh these. For example, `teTeX` users run `texhash` or `mktexlsr`.

3.5 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 pdfcolmk.pdf unpack_files output .
```

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

plain TeX: 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{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 `pdflatex`:

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

4 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 -TEX added.

[2000/09/06 v0.4]

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

[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 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.

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

³Url: <http://groups.google.com/group/comp.text.tex/msg/38ed58f8845a2a4f>

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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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