

# 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 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 in onecolumn and twocolumn mode, but the state is experimental.

## 1.2 Limitations

- Mark limitations: page breaks in math.
- L<sup>A</sup>T<sub>E</sub>X'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.

## 1.3 Recommendation

$\varepsilon$ -T<sub>E</sub>X (for additional mark register) Without  $\varepsilon$ -T<sub>E</sub>X L<sup>A</sup>T<sub>E</sub>X's mark commands are redefined to store an additional color value.

## 1.4 Usage

Load after package color:

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

## 1.5 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   [2006/02/20 v0.8 PDFtex COLor MarK (H0)]
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
18 \PackageInfo{pdfcolmk}{%
19   This package tries to simulate dvips's color stack\MessageBreak
20   for pdfTeX based on a mark register of e-TeX.\MessageBreak
21   It redefines LaTeX's output routine. Therefore\MessageBreak
22   use with care, no warranties%
23 }
24
25 \ifx\marks\@undefined
26
27   \let\pec@mark\mark
28   \let\pec@value\empty
29   \long\def\mark#1{%
30     \protected@xdef\pec@value{#1}%
31     \pec@setmark
32   }
33   \def\pec@setmark{%
34     \begingroup
35       \@temptokena\expandafter{\pec@value}%
36       \pec@mark{\current@color}\the\@temptokena}%
37   \endgroup
38 }
39 \def\pec@getmark{%
40   \xdef\pec@botcolor{%
41     \expandafter\@firstofthree\botmark\@empty\@empty\@empty
42   }%
43 }
44 \long\def\@firstofthree#1#2#3{#1}%
45 \CheckCommand{\@leftmark}[2]{#1}
46 \CheckCommand{\@rightmark}[2]{#2}
47 \CheckCommand*{\leftmark}{%
48   \expandafter\@leftmark\botmark\@empty\@empty
49 }
50 \CheckCommand*{\rightmark}{%
51   \expandafter\@rightmark\firstmark\@empty\@empty
52 }
53 \long\def\@leftmark#1#2#3{#2}
54 \long\def\@rightmark#1#2#3{#3}
55 \g@addto@macro\leftmark\@empty
56 \g@addto@macro\rightmark\@empty
57
58 \else
59
60   \RequirePackage{etex}[1998/03/26]
61   \newmarks\pec@marks
62   \def\pec@setmark{\marks\pec@marks{\current@color}}
63   \def\pec@getmark{\xdef\pec@botcolor{\botmarks\pec@marks}}
64
65 \fi

```

## 2.1 \marginpar fix

```

66 \chardef\pec@result\z@
67 \def\pec@temp#1{%
68   \chardef\pec@result\@ne
69   \begingroup

```

```

70   \let\on@line\@empty
71   \PackageInfo{pdfcolmk}{%
72     Patch for \string\@addmarginpar\space applied (#1)%
73   }%
74 \endgroup
75 }

```

### 2.1.1 latex/base/latex.ltx

```

76 \def\pec@addmarginpar{%
77   \@next\@marbox\@currlist{%
78     \@cons\@freelist\@marbox
79     \@cons\@freelist\@currbox
80   }\@latexbug
81   \@tempcnta\@ne
82   \if@twocolumn
83     \if@firstcolumn
84       \@tempcnta\m@ne
85     \fi
86   \else
87     \if@mparswitch
88       \ifodd\c@page
89         \else
90           \@tempcnta\m@ne
91         \fi
92       \fi
93     \if@reversemargin \@tempcnta -\@tempcnta \fi
94   \fi
95   \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
96   \@tempdima\@mparbottom
97   \advance\@tempdima -\@pageht
98   \advance\@tempdima\ht\@marbox
99   \ifdim\@tempdima >\z@
100     \@latex@warning@no@line{Marginpar on page \thepage\space moved}%
101   \else
102     \@tempdima\z@
103   \fi
104   \global\@mparbottom\@pageht
105   \global\advance\@mparbottom\@tempdima
106   \global\advance\@mparbottom\dp\@marbox
107   \global\advance\@mparbottom\marginparpush
108   \advance\@tempdima -\ht\@marbox
109   \global\setbox\@marbox\vbox{%
110     \vskip \@tempdima
111     \box \@marbox
112   }%
113   \global \ht\@marbox \z@
114   \global \dp\@marbox \z@
115   \kern -\@pagedp
116   \nointerlineskip
117   \hb@xt@\columnwidth{%
118     \ifnum \@tempcnta >\z@
119       \hskip\columnwidth
120       \hskip\marginparsep
121     \else
122       \hskip -\marginparsep
123       \hskip -\marginparwidth
124     \fi
125     \box\@marbox \hss
126   }%
127   \nointerlineskip
128   \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
129 }
130 \ifx\pec@addmarginpar\@addmarginpar

```

```

131 \pec@temp{latex/base}%
132 \fi

```

### 2.1.2 memoir.cls

```

133 \def\pec@addmarginpar{%
134   \checkoddpage
135   \@next\@marbox\@currlist{%
136     \@cons\@freelist\@marbox
137     \@cons\@freelist\@currbox
138   }\@latexbug
139   \@tempcnta\@ne
140   \if@twocolumn
141     \if@firstcolumn
142       \@tempcnta\m@ne
143     \fi
144   \else
145     \if@mparswitch
146       \ifoddpage
147       \else
148         \@tempcnta\m@ne
149       \fi
150     \fi
151     \if@reversemargin
152       \@tempcnta -\@tempcnta
153     \fi
154   \fi
155   \ifnum\@tempcnta <\z@
156     \global\setbox\@marbox\box\@currbox
157   \fi
158   \@tempdima\@mparbottom
159   \advance\@tempdima -\@pageht
160   \advance\@tempdima\ht\@marbox
161   \ifdim\@tempdima >\z@
162     \@latex@warning@no@line{%
163       Marginpar on page \thepage\space moved by \the\@tempdima
164     }%
165   \else
166     \@tempdima\z@
167   \fi
168   \global\@mparbottom\@pageht
169   \global\advance\@mparbottom\@tempdima
170   \global\advance\@mparbottom\dp\@marbox
171   \global\advance\@mparbottom\marginparpush
172   \advance\@tempdima -\ht\@marbox
173   \global\setbox\@marbox\vbox{%
174     \vskip \@tempdima
175     \box \@marbox
176   }%
177   \global \ht\@marbox \z@
178   \global \dp\@marbox \z@
179   \kern -\@pagedp
180   \nointerlineskip
181   \hb@xt@\columnwidth{%
182     \ifnum \@tempcnta >\z@
183       \hskip\columnwidth
184       \hskip\marginparsep
185     \else
186       \hskip -\marginparsep
187       \hskip -\marginparwidth
188     \fi
189     \box\@marbox
190     \hss
191   }%

```

```

192 \nointerlineskip
193 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
194 }%
195 \ifx\pec@addmarginpar\@addmarginpar
196 \pec@temp{memoir.cls}%
197 \fi

```

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

```

198 \def\pec@addmarginpar{%
199   \@next \@marbox\@currlist{%
200     \@cons\@freelist\@marbox
201     \@cons\@freelist\@currbox
202   }\@latexbug
203   \global\advance\@mpar@count\m@ne
204   \@ifundefined{@marn@the\@mpar@count @}{% was location logged last time?
205     \@tempcnta\@ne % NO: use original LaTeX logic
206     \if@twocolumn
207       \if@firstcolumn
208         \@tempcnta\m@ne
209       \fi
210     \else
211       \if@mparswitch
212         \ifodd\c@page
213         \else
214           \@tempcnta\m@ne
215         \fi
216       \fi
217       \if@reversemargin
218         \@tempcnta -\@tempcnta
219       \fi
220     \fi
221   }{%
222     \@tempcnta % YES: use record from last time to decide side.
223     \@nameuse{@marn@the\@mpar@count @}%
224     \if@reversemargin -\fi \@ne
225   }%
226   \ifnum\@tempcnta <\z@
227     \global\setbox\@marbox\box\@currbox
228     \global\let\@marnbottom\@mparbottoml
229   \else
230     \global\let\@marnbottom\@mparbottom
231   \fi
232   \@tempdima\@marnbottom \advance\@tempdima -\@pageht
233   \advance\@tempdima\ht\@marbox
234   \ifdim\@tempdima >\z@
235     \@warning{Marginpar on page \thepage\space moved}%
236   \else
237     \@tempdima\z@
238   \fi
239   \global\@marnbottom\@pageht
240   \global\advance\@marnbottom\@tempdima
241   \global\advance\@marnbottom\dp\@marbox
242   \global\advance\@marnbottom\marginparpush
243   \advance\@tempdima -\ht\@marbox
244   \global\ht\@marbox\z@
245   \global\dp\@marbox\z@
246   \vskip -\@pagedp
247   \vskip\@tempdima\nointerlineskip
248   \hbox to\columnwidth{%
249     \ifnum \@tempcnta >\z@
250       \hskip\columnwidth
251       \hskip\marginparsep
252     \else

```

```

253     \hskip -\marginparsep
254     \hskip -\marginparwidth
255     \fi
256     \if@filesw % record where this is for use next time:
257         \@marn@log\@mpar@count
258     \fi
259     \box\@marbox
260     \hss
261 }%
262 \nobreak    %% RmS 91/06/21 \nobreak added
263 \vskip -\@tempdima
264 \nointerlineskip
265 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
266 }
267 \ifx\pec@addmarginpar\@addmarginpar
268     \pec@temp{poemscol/(new)marn.sty}%
269 \fi

```

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

```

270 \def\pec@addmarginpar{%
271     \@next\@marbox\@currlist{%
272         \@cons\@freelist\@marbox
273         \@cons\@freelist\@currbox
274     }\@latexbug
275     \@tempcnta\@ne
276     \if@twocolumn
277         \if@firstcolumn
278             \@tempcnta\m@ne
279         \fi
280     \else
281         \@tempcnta\m@ne
282     \fi
283     \ifnum\@tempcnta <\z@
284         \global\setbox\@marbox\box\@currbox
285     \fi
286     \@tempdima\@mparbottom
287     \advance\@tempdima -\@pageht
288     \advance\@tempdima\ht\@marbox
289     \ifdim\@tempdima >\z@
290         \@warning{Marginpar on page \thepage\space moved}%
291     \else
292         \@tempdima\z@
293     \fi
294     \global\@mparbottom\@pageht
295     \global\advance\@mparbottom\@tempdima
296     \global\advance\@mparbottom\dp\@marbox
297     \global\advance\@mparbottom\marginparpush
298     \advance\@tempdima -\ht\@marbox
299     \global\setbox\@marbox\vbox{%
300         \vskip \@tempdima \box \@marbox
301     }%
302     \global \ht\@marbox \z@
303     \global \dp\@marbox \z@
304     \kern -\@pagedp
305     \nointerlineskip
306     \hb@xt@\columnwidth{%
307         \ifnum \@tempcnta >\z@
308             \hskip\columnwidth
309             \hskip\marginparsep
310         \else
311             \hskip -\marginparsep
312             \hskip -\marginparwidth
313         \fi

```

```

314     \box\@marbox
315     \hss
316   }%
317   \nointerlineskip
318   \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
319 }
320 \ifx\pec@addmarginpar\@addmarginpar
321   \pec@temp{ref(art|rep).cls}%
322 \fi
323
324 \ifcase\pec@result
325   \PackageInfo{pdfcolmk}{%
326     Fix for \string\@addmarginpar\space is omitted, %
327     because this variant\MessageBreak
328     of \string\@addmarginpar\space
329     is not recognized%
330   }%
331 \else
332   % apply patch for \@addmarginpar
333   \def\pec@PatchAddMarginpar#1\columnwidth#2#3\@nil{%
334     \pec@PatchAddMarginparI#2\@nil{#1}{#3}%
335   }%
336   \def\pec@PatchAddMarginparI#1\box\@marbox\hss#2\@nil#3#4{%
337     \def\@addmarginpar{%
338       #3%
339       \columnwidth{%
340         #1%
341         \pdfliteral{q}%
342         \rlap{%
343           \box\@marbox
344         }%
345         \pdfliteral{Q}%
346         \hss
347         #2%
348       }%
349       #4%
350     }%
351   }%
352   \expandafter\pec@PatchAddMarginpar\@addmarginpar\@nil
353 \fi

```

## 2.2 Color fix

```

354 \def\set@color{%
355   \pdfliteral{\current@color}%
356   \ifinner
357   \else
358     \pec@setmark
359   \fi
360   \aftergroup\reset@color
361 }
362 \def\reset@color{%
363   \pdfliteral{\current@color}%
364   \ifinner
365   \else
366     \pec@setmark
367   \fi
368 }
369
370 \let\pec@botcolor\current@color
371
372 \def\pec@PatchVBoxCCLV{%
373   \ifx\pec@botcolor\@empty

```

```

374 \else
375   \setbox\@cclv\vbox{%
376     \pdfliteral{\pec@botcolor}%
377     \unvbox\@cclv
378   }%
379 \fi
380 \pec@getmark
381 }
382
383 \def\pec@PatchAlreadyInBox{%
384   \ifx\pec@botcolor\@empty
385   \else
386     \pdfliteral{\pec@botcolor}%
387   \fi
388   \pec@getmark
389 }
390
391 \@ifclassloaded{memoir}{%
392   \expandafter\def\expandafter\mem@makecol\expandafter{%
393     \expandafter\pec@PatchVBoxCCLV
394     \mem@makecol
395   }%
396   \endinput
397 }{}
398
399 \@ifclassloaded{seminar}{%
400   \newcommand\pec@org@makeslide{}
401   \let\pec@org@makeslide\@makeslide
402   \def\@makeslide{%
403     \pec@PatchVBoxCCLV
404     \pec@org@makeslide
405   }%
406   \endinput
407 }{}
408
409 \long\def\pec@output#1\@specialoutput\else#2\pec@end{%
410   \begingroup
411     \def\x{#2}%
412   \expandafter\endgroup
413   \ifx\x\@empty
414     \PackageWarningNoLine{pdfcolmk}{%
415       Unexpected \string\output\space routine detected,%
416       \MessageBreak
417       loading of package stopped%
418     }%
419     \expandafter\endinput
420   \fi
421 }
422 \expandafter\expandafter\expandafter\pec@output
423 \expandafter\@firstofone\the\output\@specialoutput\else\pec@end
424
425 \long\def\pec@output#1\@specialoutput\else#2\pec@end{%
426   \output{%
427     #1\@specialoutput\else
428     \pec@PatchVBoxCCLV
429     #2%
430   }%
431 }
432 \expandafter\expandafter\expandafter\pec@output
433 \expandafter\@firstofone\the\output\pec@end
434 \end{package}

```

### 3 Installation

**CTAN.** This package is available on CTAN<sup>1</sup>:

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

[CTAN:macros/latex/contrib/oberdiek/pdfcolmk.pdf](#) Documentation.

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

```
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`.

**Refresh file databases.** If your  $\text{\TeX}$  distribution (te $\text{\TeX}$ , mi $\text{\TeX}$ , ...) rely on file databases, you must refresh these. For example, te $\text{\TeX}$  users run `texhash` or `mktextlsr`.

#### 3.1 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  $\text{\LaTeX}$ .** The `.dtx` chooses its action depending on the format:

**plain- $\text{\TeX}$ :** Run `docstrip` and extract the files.

**$\text{\LaTeX}$ :** Generate the documentation.

If you insist on using  $\text{\LaTeX}$  for `docstrip` (really, `docstrip` does not need  $\text{\LaTeX}$ ), then inform the autodetect routine about your intension:

```
latex \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 $\text{\LaTeX}$ :

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

---

<sup>1</sup>[ftp://ftp.ctan.org/tex-archive/](http://ftp.ctan.org/tex-archive/)

## 4 History

[2000/08/27 v0.1]

- First published version (`comp.text.tex`, `pdftex@tug.org`).

[2000/09/02 v0.2]

- Next try.

[2000/09/02 v0.3]

- Solution without  $\varepsilon$ -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 `dded`. See thread in `comp.text.tex` (Message-ID: `d86d3r$kp$1@news.BelWue.DE`).

[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.

## 5 Index

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