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 In this case this package is obsolete and the package stops its loading.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 in onecolumn and twocolumn mode, but the state is experimental.

1.3 Limitations

- Mark limitations: page breaks in math.
- LATEX's output routine is redefinded.
 - 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 LATEX'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}
   [2008/08/11 v1.2 PDFtex COLor MarK (HO)]
   5 \@ifundefined{ver@pdftex.def}{%
            \PackageWarningNoLine{pdfcolmk}{%
                 Nothing to fix, because \string'pdftex.def\string' not loaded%
   7
   8
           }%
            \endinput
   9
  10 }{}
  11 \@ifpackageloaded{color}{}{%
            \PackageWarningNoLine{pdfcolmk}{%
  12
  13
                 Nothing to fix, because \string'color.sty\string' not loaded%
  14
  15
            \endinput
 16 }
  17 \verb|\begingroup\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
  18 \end{figure} a in {\tt Qpdfcolorstack} end{\tt csname} relax
  19 \else
            \% pdftex.def >= 2007/01/01 0.04a and pdfTeX >= 1.40.0
 20
  21
            \begingroup
                 \let\on@line\@empty
  22
                 \PackageInfo{pdfcolmk}{%
  23
  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
            \endgroup
  28
            \expandafter\endinput
  29
 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
            It redefines LaTeX's output routine. Therefore\MessageBreak
  36
            use with care, no warranties%
 37 }
 38
  39 \ifx\marks\@undefined
  40
            \let\pec@mark\mark
  41
            \let\pec@value\empty
  42
            \long\def\mark#1{%
  43
                 \protected@xdef\pec@value{#1}%
  44
                 \pec@setmark
  45
  46
            }%
  47
            \def\pec@setmark{%
  48
                 \begingroup
                      \@temptokena\expandafter{\pec@value}%
  49
                      \pec@mark{{\current@color}\the\@temptokena}%
  50
  51
                 \endgroup
            }%
  52
            \def\pec@getmark{%
  53
                 \xdef\pec@botcolor{%
```

```
\expandafter\@firstofthree\botmark\@empty\@empty\@empty
55
       }%
56
57
     \long\def\@firstofthree#1#2#3{#1}%
58
     \CheckCommand{\@leftmark}[2]{#1}%
60
     \CheckCommand{\@rightmark}[2]{#2}%
61
     \CheckCommand*{\leftmark}{%
62
       \expandafter\@leftmark\botmark\@empty\@empty
     }%
63
     \CheckCommand*{\rightmark}{%
64
       \expandafter\@rightmark\firstmark\@empty\@empty
65
     }%
66
     67
     \long\def\@rightmark#1#2#3{#3}%
68
     \g@addto@macro\leftmark\@empty
69
70
     \g@addto@macro\rightmark\@empty
71
72 \else
73
74
     \RequirePackage{etex}[1998/03/26]%
     \newmarks\pec@marks
75
     \def\pec@setmark{\marks\pec@marks{\current@color}}%
76
     \def\pec@getmark{\xdef\pec@botcolor{\botmarks\pec@marks}}%
77
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
       \PackageInfo{pdfcolmk}{%
85
         Patch for \string\@addmarginpar\space applied (#1)%
86
87
88
     \endgroup
89 }
       latex/base/latex.ltx
2.1.1
90 \def\pec@addmarginpar{%
     \@next\@marbox\@currlist{%
91
       \@cons\@freelist\@marbox
92
       \@cons\@freelist\@currbox
93
94
     }\@latexbug
95
     \@tempcnta\@ne
96
     \if@twocolumn
       \if@firstcolumn
97
         \@tempcnta\m@ne
98
       \fi
99
100
     \else
       \if@mparswitch
101
         \ifodd\c@page
102
103
         \else
           \@tempcnta\m@ne
104
105
         \fi
       \fi
106
       \if@reversemargin \@tempcnta -\@tempcnta \fi
107
108
     \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
109
     \@tempdima\@mparbottom
110
111
     \advance\@tempdima -\@pageht
112
     \advance\@tempdima\ht\@marbox
```

```
\ifdim\@tempdima >\z@
113
       \@latex@warning@no@line{Marginpar on page \thepage\space moved}%
114
     \else
115
       \@tempdima\z@
116
117
     \fi
118
     \global\@mparbottom\@pageht
     \global\advance\@mparbottom\@tempdima
119
120
     \global\advance\@mparbottom\dp\@marbox
     \global\advance\@mparbottom\marginparpush
121
     \advance\@tempdima -\ht\@marbox
122
     \global\setbox\@marbox\vbox{%
123
       \vskip \@tempdima
124
       \box \@marbox
125
     }%
126
127
     \global \ht\@marbox \z@
128
     \global \dp\@marbox \z@
129
     \kern -\@pagedp
     \nointerlineskip
130
     \hb@xt@\columnwidth{%
131
132
       \ifnum \@tempcnta >\z@
          \hskip\columnwidth
133
          \hskip\marginparsep
134
135
       \else
136
          \hskip -\marginparsep
          \hskip -\marginparwidth
137
138
       \box\@marbox \hss
139
     }%
140
141
     \nointerlineskip
     \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
142
143 }
144 \ifx\pec@addmarginpar\@addmarginpar
145 \pec@temp{latex/base}%
146 \fi
2.1.2 memoir.cls
147 \def\pec@addmarginpar{%
     \checkoddpage
148
     \@next\@marbox\@currlist{%
149
       \@cons\@freelist\@marbox
150
       \@cons\@freelist\@currbox
151
     }\@latexbug
152
     \@tempcnta\@ne
153
154
     \if@twocolumn
155
       \if@firstcolumn
156
         \@tempcnta\m@ne
157
       \fi
158
     \else
159
       \if@mparswitch
160
         \ifoddpage
         \else
161
162
           \@tempcnta\m@ne
163
         \fi
164
       \if@reversemargin
165
166
          \@tempcnta -\@tempcnta
167
168
     \fi
169
     \ifnum\@tempcnta <\z@
       \global\setbox\@marbox\box\@currbox
170
     \fi
171
     \@tempdima\@mparbottom
172
     \advance\@tempdima -\@pageht
173
```

```
\advance\@tempdima\ht\@marbox
174
     \ifdim\@tempdima >\z@
175
       \@latex@warning@no@line{%
176
         Marginpar on page \thepage\space moved by \the\@tempdima
177
178
179
     \else
180
       \@tempdima\z@
181
     \fi
     \global\@mparbottom\@pageht
182
     \global\advance\@mparbottom\@tempdima
183
     \global\advance\@mparbottom\dp\@marbox
184
     \global\advance\@mparbottom\marginparpush
185
     \advance\@tempdima -\ht\@marbox
186
     \global\setbox\@marbox\vbox{%
187
       \vskip \@tempdima
188
189
       \box \@marbox
190
     }%
     \global \ht\@marbox \z@
191
     \global \dp\@marbox \z@
192
193
     \kern -\@pagedp
     \nointerlineskip
194
     \hb@xt@\columnwidth{%
195
       \ifnum \@tempcnta >\z@
196
         \hskip\columnwidth
197
         \hskip\marginparsep
198
199
200
         \hskip -\marginparsep
201
         \hskip -\marginparwidth
202
       \box\@marbox
203
       \hss
204
205
     }%
206
     \nointerlineskip
     \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
207
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{%
     \@next \@marbox\@currlist{%
213
       \@cons\@freelist\@marbox
214
215
       \@cons\@freelist\@currbox
216
     }\@latexbug
217
     \global\advance\@mpar@count\m@ne
     \@ifundefined{@marn@\the\@mpar@count @}{% was location logged last time?
219
       \@tempcnta\@ne % NO: use original LaTeX logic
220
       \if@twocolumn
221
         \if@firstcolumn
           \@tempcnta\m@ne
222
         \fi
223
224
       \else
         \if@mparswitch
225
226
           \ifodd\c@page
227
            \else
228
              \@tempcnta\m@ne
229
           \fi
230
         \fi
         \if@reversemargin
231
           \@tempcnta -\@tempcnta
232
233
         \fi
       \fi
234
```

```
}{%
235
                        YES: use record from last time to decide side.
236
       \@tempcnta %
       \@nameuse{@marn@\the\@mpar@count @}%
237
       \if@reversemargin -\fi \@ne
238
239
     }%
240
     \ifnum\@tempcnta <\z@
241
       \global\setbox\@marbox\box\@currbox
242
       \global\let\@marnbottom\@mparbottoml
     \else
243
       \global\let\@marnbottom\@mparbottom
244
     \fi
245
     \@tempdima\@marnbottom \advance\@tempdima -\@pageht
246
     \advance\@tempdima\ht\@marbox
247
     \ifdim\@tempdima >\z@
248
       \@@warning{Marginpar on page \thepage\space moved}%
249
250
     \else
       \@tempdima\z@
251
     \fi
252
     \global\@marnbottom\@pageht
253
254
     \global\advance\@marnbottom\@tempdima
     \global\advance\@marnbottom\dp\@marbox
255
     \global\advance\@marnbottom\marginparpush
256
     \advance\@tempdima -\ht\@marbox
257
     \global\ht\@marbox\z@
258
     \global\dp\@marbox\z@
259
260
     \vskip -\@pagedp
     \vskip\@tempdima\nointerlineskip
261
262
     \hbox to\columnwidth{%
263
       \ifnum \@tempcnta >\z@
         \hskip\columnwidth
264
265
         \hskip\marginparsep
266
       \else
267
         \hskip -\marginparsep
         \hskip -\marginparwidth
268
269
270
       \if@filesw % record where this is for use next time:
271
          \@marn@log\@mpar@count
       \fi
272
273
       \box\@marbox
274
       \hss
     }%
275
                %% RmS 91/06/21 \nobreak added
276
     \nobreak
     \vskip -\@tempdima
277
278
     \nointerlineskip
279
     \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
281 \ifx\pec@addmarginpar\@addmarginpar
     \pec@temp{poemscol/(new)marn.sty}%
283 \fi
       refman/refart.cls, refnam/refrep.cls
2.1.4
284 \def\pec@addmarginpar{%
285
     \@next\@marbox\@currlist{%
286
       \@cons\@freelist\@marbox
       \@cons\@freelist\@currbox
287
288
     }\@latexbug
289
     \@tempcnta\@ne
290
     \if@twocolumn
291
       \if@firstcolumn
         \@tempcnta\m@ne
292
       \fi
293
294
     \else
       \@tempcnta\m@ne
295
```

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

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

2.2 Color fix

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

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

¹ftp://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):

```
\label{eq:pdfcolmk.sty} $$ pdfcolmk.sty \rightarrow tex/latex/oberdiek/pdfcolmk.sty $$ pdfcolmk.pdf \rightarrow doc/latex/oberdiek/pdfcolmk.pdf $$ pdfcolmk.dtx \rightarrow source/latex/oberdiek/pdfcolmk.dtx $$
```

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 T_EX distribution (te T_EX , mik T_EX , ...) relies on file name databases, you must refresh these. For example, te T_EX 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 LATEX. The .dtx chooses its action depending on the format:

plain-T_EX: 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:

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 pdfIAT_FX:

```
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 -T_EX 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 >= 2007/01/01 v0.04a is used with pdfTeX 1.40.0, then package pdfcolmk is obsolete.

[2007/04/11 v1.1]

 $\bullet\,$ 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

 $^{^3\}mathrm{Url:\ http://groups.google.com/group/comp.text.tex/msg/38ed58f8845a2a4f}$

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