The pdfcol package

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2007/12/12 v1.2

Abstract

Since version 1.40 pdfTeX supports color stacks. The driver file pdftex.def for package color defines and uses a main color stack since version v0.04b. Package pdfcol is intended for package writers. It defines macros for setting and maintaining new color stacks.

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1 Documentation

Version 1.40 of pdfTEX adds new primitives \pdfcolorstackinit and \pdfcolorstack. Now color stacks can be defined and used. A main color stack is maintained by the driver file pdftex.def similar to dvips or dvipdfm. However the number of color stacks is not limited to one in pdfTEX. Thus further color problems can now be solved, such as footnotes across pages or text that is set in parallel columns (e.g. packages parallel or parcolumn). Unlike the main color stack, the support by additional color stacks cannot be done in a transparent manner.

This package pdfcol provides an easier interface to additional color stacks without the need to use the low level primitives.

1.1 Requirements

- pdfT_EX 1.40 or greater.
- pdfTEXin PDF mode. (I don't know a DVI driver that support several color stacks.)
- pdftex.def 2007/01/02 v0.04b.

Package pdfcol checks the requirements and sets switch \ifpdfcolAvailable accordingly.

1.2 Interface

\ifpdfcolAvailable

If the requirements of section 1.1 are met the switch \ifpdfcolAvailable behaves as \iftrue. Otherwise the other interface macros in this section will be disabled with a message. Also the first use of such a macro will print a message. The messages are print to the .log file only if pdfTFX is not used in PDF mode.

\pdfcolErrorNoStacks

The first call of \pdfcolErrorNoStacks prints an error message, if color stacks are not available.

$\pdfcolInitStack \{\langle name \rangle\}$

A new color stack is initialized by \pdfcolInitStack . The $\langle name \rangle$ is used for indentifying the stack. It usually consists of letters and digits. (The name must survive a \cspace)

The intension of the macro is the definition of an additional color stack. Thus the stack is not page bounded like the main color stack. Black (0 g 0 G) is used as initial color value. And colors are written with modifier direct that means without setting the current transfer matrix and changing the current point (see documentation of pdfTEX for \pdfliteral direct{...}).

\pdfcollfStackExists $\{\langle name \rangle\}\ \{\langle then \rangle\}\ \{\langle else \rangle\}$

Macro \pdfcollfStackExists checks whether color stack $\langle name \rangle$ exists. In case of success argument $\langle then \rangle$ is executed and $\langle else \rangle$ otherwise.

```
\pdfcolSwitchStack \{\langle name \rangle\}
```

Macro \pdfcolSwitchStack switches the color stack. The color macros of package color (or xcolor) now uses the new color stack with name $\langle name \rangle$.

\pdfcolSetCurrentColor

Macro \pdfcolSetCurrentColor replaces the topmost entry of the stack by the current color (\current@color).

```
\pdfcolSetCurrent \{\langle name \rangle\}
```

Macro \pdfcolSetCurrent sets the color that is read in the top-most entry of color stack $\langle name \rangle$. If $\langle name \rangle$ is empty, the default color stack is used.

2 Implementation

1 (*package)

2.1 Reload check and package identification

Reload check, especially if the package is not used with LATEX.

```
2 \begingroup
 3 \catcode44 12 % ,
     \catcode45 12 % -
 4
     \catcode46 12 % .
 5
    \catcode58 12 % :
 6
    \catcode64 11 % @
    \catcode123 1 % {
    \catcode125 2 % }
    \expandafter\let\expandafter\x\csname ver@pdfcol.sty\endcsname
 10
 11
     \ifx\x\relax % plain-TeX, first loading
 12
     \else
 13
       \def\empty{}%
       \ifx\x\empty % LaTeX, first loading,
 14
         % variable is initialized, but \ProvidesPackage not yet seen
 15
 16
       \else
         \catcode35 6 % #
 17
 18
         \expandafter\ifx\csname PackageInfo\endcsname\relax
           \def\x#1#2{%}
 19
 20
              \immediate\write-1{Package #1 Info: #2.}%
 21
           }%
 22
         \else
           \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
23
24
         \x{pdfcol}{The package is already loaded}%
 25
26
         \aftergroup\endinput
27
       \fi
    \fi
28
29 \endgroup
Package identification:
30 \begingroup
31
     \catcode35 6 % #
 32
     \catcode40 12 % (
 33
    \catcode41 12 % )
 34
    \catcode44 12 \% ,
    \catcode45 12 % -
 35
    \catcode46 12 % .
 36
     \catcode47 12 % /
37
    \catcode58 12 % :
```

```
\catcode64 11 % @
39
    \catcode91 12 % [
40
    \catcode93 12 % ]
41
    \catcode123 1 % {
42
    \catcode125 2 % }
43
44
    \expandafter\ifx\csname ProvidesPackage\endcsname\relax
45
      \def\x#1#2#3[#4]{\endgroup}
46
        \immediate\write-1{Package: #3 #4}%
         \xdef#1{#4}%
47
      }%
48
    \else
49
      \def \x#1#2[#3] {\endgroup}
50
        #2[{#3}]%
51
        \ifx#1\@undefined
52
           \xdef#1{#3}%
53
54
        \fi
         \int x#1\relax
55
          \texttt{\xdef#1{#3}}\%
56
        \fi
57
      }%
58
    \fi
59
60 \expandafter\x\csname ver@pdfcol.sty\endcsname
61 \ProvidesPackage{pdfcol}%
    [2007/12/12 v1.2 Maintaining additional color stacks for pdfTeX (HO)]
```

2.2 Catcodes

```
63 \begingroup
    \catcode123 1 % {
65
    \catcode125 2 % }
66
    \def\x{\endgroup
      \expandafter\edef\csname PDFCOL@AtEnd\endcsname{%
67
         \catcode35 \the\catcode35\relax
68
         \catcode64 \the\catcode64\relax
69
70
         \catcode123 \the\catcode123\relax
        \catcode125 \the\catcode125\relax
71
      }%
72
73
    }%
74 \x
75 \catcode35 6 % #
76 \catcode64 11 % @
77 \catcode123 1 % {
78 \catcode125 2 % }
79 \def\TMP@EnsureCode#1#2{%
    \edef\PDFCOL@AtEnd{%
80
      \PDFCOL@AtEnd
81
      \catcode#1 \the\catcode#1\relax
82
83
    }%
    \catcode#1 #2\relax
84
85 }
86 \TMP@EnsureCode{39}{12}% '
87 \TMP@EnsureCode{40}{12}% (
88 \TMP@EnsureCode{41}{12}%)
89 \TMP@EnsureCode{43}{12}% +
90 \TMP@EnsureCode{44}{12}\% ,
91 \TMP@EnsureCode{46}{12}% .
92 \TMP@EnsureCode{47}{12}% /
93 \TMP@EnsureCode{61}{12}% =
94 \TMP@EnsureCode{96}{12}%
```

2.3 Check requirements

```
95 \newif\ifpdfcolAvailable
                                                         96 \pdfcolAvailabletrue
\PDFCOL@RequirePackage
                                                         97 \begingroup\expandafter\expandafter\expandafter\endgroup
                                                         98 \expandafter\ifx\csname RequirePackage\endcsname\relax
                                                                 \def\PDFCOL@RequirePackage#1[#2]{\input #1.sty\relax}%
                                                        100 \ensuremath{\setminus} \text{else}
                                                                 \def\PDFCOL@RequirePackage#1[#2]{%
                                                        101
                                                                        \RequirePackage{#1}[{#2}]%
                                                       102
                                                                 }%
                                                       103
                                                        104\fi
                                                       2.3.1
                                                                        Check package luacolor
                                                        105 \newif\ifPDFCOL@luacolor
                                                        106 \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\expandafte
                                                        107 \expandafter\ifx\csname ver@luacolor.sty\endcsname\relax
                                                       108 \PDFCOL@luacolorfalse
                                                       109 \else
                                                       110 \PDFCOL@luacolortrue
                                                       111 \fi
                                                                        Check PDF mode
                                                        2.3.2
                                                       112 \PDFCOL@RequirePackage{infwarerr}[2007/09/09]
                                                       113 \PDFCOL@RequirePackage{ifpdf}[2007/09/09]
                                                       114 \ifcase\ifpdf\ifPDFCOL@luacolor 1\fi\else 1\fi0 \%
                                                                   \def\PDFCOL@Message{%
                                                       115
                                                                        \@PackageWarningNoLine{pdfcol}%
                                                       116
                                                                 }%
                                                       117
                                                       118 \else
                                                                   \pdfcolAvailablefalse
                                                       119
                                                       120
                                                                   \def\PDFCOL@Message{%
                                                       121
                                                                       \@PackageInfoNoLine{pdfcol}%
                                                       122
                                                                  }%
                                                                   \PDFCOL@Message{%
                                                       123
                                                                        Interface disabled because of %
                                                       124
                                                                        \ifPDFCOL@luacolor
                                                       125
                                                       126
                                                                            package 'luacolor'%
                                                       127
                                                                        \else
                                                                            missing PDF mode of pdfTeX%
                                                        128
                                                       129
                                                       130 }%
                                                       131 \fi
                                                       2.3.3 Check version of pdfTeX
                                                        132 \ifpdfcolAvailable
                                                                    \begingroup\expandafter\expandafter\expandafter\endgroup
                                                        134
                                                                    \expandafter\ifx\csname pdfcolorstack\endcsname\relax
                                                                        \pdfcolAvailablefalse
                                                       135
                                                                        \PDFCOL@Message{%
                                                       136
                                                                            Interface disabled because of too old pdfTeX.\MessageBreak
                                                       137
                                                                            Required is version 1.40+ for \string\pdfcolorstack
                                                       138
                                                                       }%
                                                       139
                                                       140
                                                                  \fi
                                                       141 \fi
                                                       142 \ifpdfcolAvailable
                                                                    \begingroup\expandafter\expandafter\expandafter\endgroup
                                                                    \expandafter\ifx\csname pdfcolorstack\endcsname\relax
                                                       144
```

145

146

147

\pdfcolAvailablefalse
\PDFCOL@Message{%

Interface disabled because of too old pdfTeX.\MessageBreak

```
149
                          150
                               \fi
                          151 \fi
                          2.3.4
                                 Check pdftex.def
                          152 \ifpdfcolAvailable
                               \begingroup\expandafter\expandafter\expandafter\endgroup
                          154
                               \expandafter\ifx\csname @pdfcolorstack\endcsname\relax
                          Try to load package color if it is not yet loaded (LATEX case).
                                 \begingroup\expandafter\expandafter\expandafter\endgroup
                          156
                                 \expandafter\ifx\csname ver@color.sty\endcsname\relax
                          157
                                    \begingroup\expandafter\expandafter\expandafter\endgroup
                                    \expandafter\ifx\csname documentclass\endcsname\relax
                          158
                          159
                                      \RequirePackage[pdftex]{color}\relax
                          160
                          161
                                   \fi
                          162
                          163
                                 \begingroup\expandafter\expandafter\expandafter\endgroup
                                 \expandafter\ifx\csname @pdfcolorstack\endcsname\relax
                          164
                                    \pdfcolAvailablefalse
                          165
                          166
                                   \PDFCOL@Message{%
                                     Interface disabled because 'pdftex.def'\MessageBreak
                          167
                                     is not loaded or it is too old.\MessageBreak
                          168
                                     Required is version 0.04b or greater%
                          169
                                   ጉ%
                          170
                                 \fi
                          171
                               \fi
                          172
                          173 \fi
                          174 \let\pdfcolAvailabletrue\relax
                          175 \let\pdfcolAvailablefalse\relax
                                Enabled interface macros
                          176 \ifpdfcolAvailable
   \pdfcolErrorNoStacks
                          177
                               \let\pdfcolErrorNoStacks\relax
          \pdfcol@Value
                               \expandafter\ifx\csname pdfcol@Value\endcsname\relax
                          178
                          179
                                 \def\pdfcol@Value{0 g 0 G}%
\pdfcol@LiteralModifier
                          181
                               \expandafter\ifx\csname pdfcol@LiteralModifier\endcsname\relax
                          182
                                 \def\pdfcol@LiteralModifier{direct}%
                          183
                               \fi
       \pdfcolInitStack
                          184
                               \def\pdfcolInitStack#1{%
                          185
                                 \expandafter\ifx\csname pdfcol@Stack@#1\endcsname\relax
                          186
                                    \global\expandafter\chardef\csname pdfcol@Stack@#1\endcsname=%
                          187
                                        \pdfcolorstackinit\pdfcol@LiteralModifier{\pdfcol@Value}%
                          188
                                        \relax
                          189
                                    \@PackageInfo{pdfcol}{%
                          190
                                     New color stack '#1' = \number\csname pdfcol@Stack@#1\endcsname
                          191
                                   }%
                          192
                                    \@PackageError{pdfcol}{%
                          193
                                     Stack '#1' is already defined%
                          194
                                   }\@ehc
                          195
```

Required is version 1.40+ for \string\pdfcolorstackinit

148

```
196
                                 \fi
                               }%
                          197
  \pdfcolIfStackExists
                          198
                               \def\pdfcolIfStackExists#1{%
                          199
                                 \expandafter\ifx\csname pdfcol@Stack@#1\endcsname\relax
                         200
                                   \expandafter\@secondoftwo
                         201
                                   \expandafter\@firstoftwo
                         202
                                 \fi
                         203
                               }%
                         204
          \@firstoftwo
                         205
                               \expandafter\ifx\csname @firstoftwo\endcsname\relax
                                 \long\def\@firstoftwo#1#2{#1}%
                         206
                         207
                               \fi
         \@secondoftwo
                         208
                               \expandafter\ifx\csname @secondoftwo\endcsname\relax
                         209
                                 \long\def\@secondoftwo#1#2{#2}%
                               \fi
                         210
    \pdfcolSwitchStack
                               \def\pdfcolSwitchStack#1{%
                         211
                         212
                                 \pdfcolIfStackExists{#1}{%
                         213
                                    \expandafter\let\expandafter\@pdfcolorstack
                         214
                                                    \csname pdfcol@Stack@#1\endcsname
                         215
                         216
                                    \pdfcol@ErrorNoStack{#1}%
                         217
                                 }%
                         218
                               }%
\pdfcolSetCurrentColor
                               \def\pdfcolSetCurrentColor{%
                         219
                         220
                                 \pdfcolorstack\@pdfcolorstack set{\current@color}%
                         221
                               }%
     \pdfcolSetCurrent
                               \def\pdfcolSetCurrent#1{%
                         222
                         223
                                 \ifx\\#1\\%
                         224
                                    \pdfcolorstack\@pdfcolorstack current\relax
                         225
                         226
                                    \pdfcolIfStackExists{#1}{%
                         227
                                      \pdfcolorstack\csname pdfcol@Stack@#1\endcsname current\relax
                                   }{%
                         228
                                      \pdfcol@ErrorNoStack{#1}%
                         229
                                   }%
                         230
                         231
                                 \fi
                               }%
                         232
  \pdfcol@ErrorNoStack
                         233
                               \def\pdfcol@ErrorNoStack#1{%
                         234
                                 \@PackageError{pdfcol}{Stack '#1' does not exists}\@ehc
                         235
                                Disabled interface macros
                          2.5
                         236 \ensuremath{\setminus} \texttt{else}
  \pdfcolErrorNoStacks
                               \def\pdfcolErrorNoStacks{%
                         237
```

```
\@PackageError{pdfcol}{%
                         238
                         239
                                  Color stacks are not available%
                         240
                                  Update pdfTeX (1.40) and 'pdftex.def' (0.04b) \%
                         241
                         242
                                      if necessary.\MessageBreak
                         243
                                  Ensure that 'pdftex.def' is loaded %
                                      (package 'color' or 'xcolor').\MessageBreak
                         244
                         245
                                  Further messages can be found in TeX's \%
                                      protocol file '\jobname.log'.\MessageBreak
                         246
                                  \MessageBreak
                         247
                                  \@ehc
                         248
                                }%
                         249
                                \global\let\pdfcolErrorNoStacks\relax
                         250
                         251
      \PDFCOL@Disabled
                         252
                              \def\PDFCOL@Disabled{%
                         253
                                \PDFCOL@Message{%
                                  pdfTeX's color stacks are not available%
                         254
                                }%
                         255
                                \global\let\PDFCOL@Disabled\relax
                         256
                              }%
                         257
      \pdfcolInitStack
                              \def\pdfcolInitStack#1{%
                         258
                         259
                                \PDFCOL@Disabled
                         260
  \pdfcolIfStackExists
                              \long\def\pdfcolIfStackExists#1#2#3{#3}%
                         261
    \pdfcolSwitchStack
                              \def\pdfcolSwitchStack#1{%
                         262
                         263
                                \PDFCOL@Disabled
                              }%
                         264
\pdfcolSetCurrentColor
                         265
                              \def\pdfcolSetCurrentColor{%
                                \PDFCOL@Disabled
                         266
                         267
                              }%
     \pdfcolSetCurrent
                              \def\pdfcolSetCurrent#1{%
                         268
                                \PDFCOL@Disabled
                         269
                         270
                         271 \fi
                         272 \PDFCOL@AtEnd
                         273 (/package)
                         3
                              Test
                                Catcode checks for loading
                         274 (*test1)
```

```
274 (*test1)
275 \catcode'\{=1 %
276 \catcode'\}=2 %
277 \catcode'\#=6 %
278 \catcode'\@=11 %
```

```
279 \expandafter\ifx\csname count@\endcsname\relax
280 \countdef\count@=255 %
281 \fi
282 \expandafter\ifx\csname @gobble\endcsname\relax
283 \leq \sqrt{\frac{q}{2}}
284 \fi
285 \ensuremath{\,^{\circ}} \expandafter\ifx\csname \mathbb{O}firstofone\endcsname\relax
287 \fi
288 \expandafter\ifx\csname loop\endcsname\relax
289 \expandafter\@firstofone
290 \ensuremath{\setminus} else
    \expandafter\@gobble
292 \fi
293 {%
     \def\loop#1\repeat{%
294
295
       \def\body{#1}%
       \iterate
296
     }%
297
298
     \def\iterate{%
299
       \body
          \let\next\iterate
300
301
       \else
         \let\next\relax
302
304
       \next
     }%
305
     306
307 }%
308 \def\RestoreCatcodes{}
309 \count@=0 %
310 \loop
311
     \edef\RestoreCatcodes{%
312
       \RestoreCatcodes
       \catcode\the\count@=\the\catcode\count@\relax
314 }%
315 \ifnum\count@<255 %
316 \advance\count@ 1 %
317 \repeat
318
319 \def\RangeCatcodeInvalid#1#2{%
320 \count@=#1\relax
     \loop
321
322
       \catcode\count@=15 %
323
     \ifnum\count@<#2\relax
324
       \advance\count@ 1 %
325
     \repeat
326 }
327 \verb|\constant| LoadCommand\endcsname\relax|
328 \def\LoadCommand{\input pdfcol.sty\relax}%
329 \fi
330 \ensuremath{\mbox{def}\Test{\%}}
     \RangeCatcodeInvalid{0}{47}%
331
332
     \RangeCatcodeInvalid{58}{64}%
333
     \RangeCatcodeInvalid{91}{96}%
334
    \RangeCatcodeInvalid{123}{255}%
335
    \catcode'\@=12 %
336
    \catcode'\\=0 %
337
    \catcode'\{=1 %
    \catcode'\}=2 %
338
    \catcode'\#=6 %
339
340
    \catcode'\[=12 %
```

```
\catcode'\]=12 %
341
     \catcode'\%=14 %
342
     \catcode'\ =10 %
343
     \catcode13=5 %
345
     \LoadCommand
346
     \RestoreCatcodes
347 }
348 \Test
349 \csname @@end\endcsname
350 \end
351 (/test1)
      Very simple test
3.2
352 (*test2 | test3)
353 \NeedsTeXFormat{LaTeX2e}
354 \setminus nofiles
355 \documentclass{article}
356 \usepackage{pdfcol}[2007/12/12]
357 \usepackage{qstest}
358 \IncludeTests{*}
359 \setminus LogTests\{log\}\{*\}\{*\}
360 \begin{document}
     \begin{qstest}{pdfcol}{}%
362
       \makeatletter
363 (*test2)
       \Expect*{\ifpdfcolAvailable true\else false\fi}{false}%
364
365 (/test2)
366 (*test3)
       \Expect*{\ifpdfcolAvailable true\else false\fi}{true}%
367
       \Expect*{\number\@pdfcolorstack}{0}%
368
369 \langle / test3 \rangle
370
       \setbox0=\hbox{%
371
          \pdfcolInitStack{test}%
372 (*test3)
          \Expect*{\number\pdfcol@Stack@test}{1}%
373
          \Expect*{\number\@pdfcolorstack}{0}%
374
375 (/test3)
          \pdfcolSwitchStack{test}%
376
377 (*test3)
          \Expect*{\number\@pdfcolorstack}{1}%
378
379 (/test3)
          \pdfcolSetCurrent{test}%
380
          \pdfcolSetCurrent{}%
381
382
383
       \text{Expect}*{\text{wd0}}{0.0pt}%
384 (*test3)
385
       \Expect*{\number\@pdfcolorstack}{0}%
       \Expect*{\number\pdfcol@Stack@test}{1}%
386
       387
388 (/test3)
       \Expect*{\pdfcolIfStackExists{dummy}{true}{false}}{false}%
389
390
     \end{qstest}%
391 \end{document}
392 (/test2 | test3)
      Detection of package luacolor
3.3
393 \langle *test4 \rangle
394 \NeedsTeXFormat{LaTeX2e}
395 \documentclass{article}
396 \usepackage{luacolor}
397 \usepackage{pdfcol}
398 \makeatletter
```

```
399 \ifpdfcolAvailable 400 \@latex@error{Detection of package luacolor failed}% 401 \fi 402 \csname @@end\endcsname 403 \langle \text{test4} \rangle
```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

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

CTAN:macros/latex/contrib/oberdiek/pdfcol.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.

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- T_EX :

```
tex pdfcol.dtx
```

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

```
\begin{array}{lll} pdfcol.sty & \rightarrow tex/generic/oberdiek/pdfcol.sty \\ pdfcol.pdf & \rightarrow doc/latex/oberdiek/pdfcol.pdf \\ test/pdfcol-test1.tex & \rightarrow doc/latex/oberdiek/test/pdfcol-test1.tex \\ test/pdfcol-test2.tex & \rightarrow doc/latex/oberdiek/test/pdfcol-test2.tex \\ test/pdfcol-test3.tex & \rightarrow doc/latex/oberdiek/test/pdfcol-test3.tex \\ test/pdfcol-test4.tex & \rightarrow doc/latex/oberdiek/test/pdfcol-test4.tex \\ pdfcol.dtx & \rightarrow source/latex/oberdiek/pdfcol.dtx \\ \end{array}
```

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.

¹ftp://ftp.ctan.org/tex-archive/

4.4 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.

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 pdfcol.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{pdfcol.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 pdfIATEX:

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

5 History

[2007/09/09 v1.0]

• First version.

```
[2007/12/09 \text{ v}1.1]
```

• \pdfcolSetCurrentColor added.

```
[2007/12/12 \text{ v}1.2]
```

• Detection for package luacolor added.

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