The pdfcol package

Heiko Oberdiek*

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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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^{*}Please report any issues at https://github.com/ho-tex/oberdiek/issues

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

- pdfTEX 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 \c sname.)

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{...}).

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

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\catcode61\catcode48\catcode32=10\relax%
     \catcode13=5 % ^^M
     \endlinechar=13 %
     \catcode35=6 % #
     \catcode39=12 % '
     \colone{1} \catcode44=12 % ,
     \catcode45=12 % -
     \catcode46=12 % .
     \catcode58=12 % :
10
11
     \catcode64=11 % @
     \catcode123=1 % {
     \catcode125=2 % }
     \expandafter\let\expandafter\x\csname ver@pdfcol.sty\endcsname
14
     \ifx\x\relax % plain-TeX, first loading
15
     \else
16
       \def\empty{}%
17
       \ifx\x\empty % LaTeX, first loading,
18
19
         % variable is initialized, but \ProvidesPackage not yet seen
20
21
         \expandafter\ifx\csname PackageInfo\endcsname\relax
           \def\x#1#2{%}
22
              \immediate\write-1{Package #1 Info: #2.}%
23
           }%
24
25
         \else
26
           \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
27
         \x{pdfcol}{The package is already loaded}%
28
         \aftergroup\endinput
29
       \fi
30
     \fi
31
32 \endgroup%
Package identification:
```

33 \begingroup\catcode61\catcode48\catcode32=10\relax%

```
34
    \catcode13=5 % ^^M
    \endlinechar=13 %
35
36
    \catcode35=6 % #
    \catcode39=12 % '
37
    \catcode40=12 % (
    \catcode41=12 % )
39
    \colone{1} \catcode44=12 % ,
40
    \catcode45=12 % -
41
    \colored{catcode46=12 \%} .
42
    \catcode47=12 % /
43
44
    \catcode58=12 % :
    \catcode64=11 % @
45
46
    \catcode91=12 % [
47
    \catcode93=12 % ]
    \catcode123=1 % {
48
49
    \catcode125=2 % }
    \expandafter\ifx\csname ProvidesPackage\endcsname\relax
      \def \x#1#2#3[#4] {\endgroup}
51
52
         \immediate\write-1{Package: #3 #4}%
         \xdef#1{#4}%
53
      }%
54
    \else
55
      \def \x#1#2[#3] {\endgroup}
56
57
         #2[{#3}]%
         \ifx#1\@undefined
58
59
           \xdef#1{#3}%
60
         \fi
         \int x#1\relax
61
62
           \xdef#1{#3}%
63
         \fi
      }%
64
65
    \fi
66 \expandafter\x\csname ver@pdfcol.sty\endcsname
67 \ProvidesPackage{pdfcol}%
    [2019/12/29 v1.6 Handle new color stacks for pdfTeX (HO)]%
```

2.2 Catcodes

```
69 \begingroup\catcode61\catcode48\catcode32=10\relax%
    \catcode13=5 % ^^M
71
    \endlinechar=13 %
    \catcode123=1 % {
72
    \catcode125=2 % }
73
    \catcode64=11 % @
74
    \def\x{\endgroup
75
76
      \expandafter\edef\csname PDFCOL@AtEnd\endcsname{%
77
        \endlinechar=\the\endlinechar\relax
        \catcode13=\the\catcode13\relax
78
        \catcode32=\the\catcode32\relax
79
        \catcode35=\the\catcode35\relax
80
        \catcode61=\the\catcode61\relax
81
82
        \catcode64=\the\catcode64\relax
83
        \catcode123=\the\catcode123\relax
84
        \catcode125=\the\catcode125\relax
      }%
85
    }%
86
87 \x\catcode61\catcode48\catcode32=10\relax%
88 \cdot catcode13=5 \% ^M
```

```
89 \endlinechar=13 %
                         90 \catcode35=6 % #
                         91 \catcode64=11 % @
                         92 \catcode123=1 % {
                         93 \catcode125=2 % }
                         94 \def\TMP@EnsureCode#1#2{%
                             \edef\PDFCOL@AtEnd{%
                         95
                                \PDFCOL@AtEnd
                         96
                                \catcode#1=\the\catcode#1\relax
                         97
                         98
                             }%
                             \catcode#1=#2\relax
                         99
                        100 }
                        101 \TMP@EnsureCode{39}{12}% '
                        102 \TMP@EnsureCode{40}{12}% (
                        103 \TMP@EnsureCode{41}{12}% )
                        104 \TMP@EnsureCode{43}{12}% +
                        105 \TMP@EnsureCode{44}{12}% ,
                        106 \TMP@EnsureCode{46}{12}% .
                        107 \TMP@EnsureCode{47}{12}% /
                        108 \TMP@EnsureCode{91}{12}% [
                        109 \TMP@EnsureCode{93}{12}% ]
                        110 \TMP@EnsureCode\{96\}\{12\}\% '
                        111 \edef\PDFCOL@AtEnd{\PDFCOL@AtEnd\noexpand\endinput}
                        2.3
                               Check requirements
\PDFCOL@RequirePackage
                        112 \begingroup\expandafter\expandafter\expandafter\endgroup
                        113 \expandafter\ifx\csname RequirePackage\endcsname\relax
                        114 \def\PDFCOL@RequirePackage#1[#2]{\input #1.sty\relax}%
                        115 \else
                        116 \def\PDFCOL@RequirePackage#1[#2]{%
                                \RequirePackage{#1}[{#2}]%
                        118 }%
                        119 \fi
                           LuaTeX Compatability
                        120 \ifx\pdfextension\@undefined\else
                        121 \def\pdfcolorstackinit {\pdffeedback colorstackinit}
                        122 \verb| \protected\def\pdfcolorstack| \\
                                                              {\pdfextension colorstack}
                        123 \fi
                        124 \PDFCOL@RequirePackage{ltxcmds} [2010/03/01]
    ifpdfcolAvailable
                        125 \ltx@newif\ifpdfcolAvailable
                        126 \pdfcolAvailabletrue
                        2.3.1 Check package luacolor
                        127 \ltx@newif\ifPDFCOL@luacolor
                        128 \begingroup\expandafter\expandafter\expandafter\endgroup
                        129 \expandafter\ifx\csname ver@luacolor.sty\endcsname\relax
                            \PDFC0L@luacolorfalse
                        131 \else
                        132 \PDFCOL@luacolortrue
                        133 \fi
                        2.3.2 Check PDF mode
```

.5.2 Check I DF mode

```
134 \PDFCOL@RequirePackage{infwarerr}[2007/09/09]
135 \PDFCOL@RequirePackage{iftex}[2019/11/07]
136 \ifcase\ifpdf\ifPDFCOL@luacolor 1\fi\else 1\fi0 \%
137
     \def\PDFCOL@Message{%
       \@PackageWarningNoLine{pdfcol}%
138
139
     }%
140 \ensuremath{\setminus} \texttt{else}
     \pdfcolAvailablefalse
141
     \def\PDFCOL@Message{%
142
       \@PackageInfoNoLine{pdfcol}%
143
144
     \PDFCOL@Message{%
145
       Interface disabled because of %
146
       \ifPDFCOL@luacolor
147
         package 'luacolor'%
148
149
       \else
150
         missing PDF mode of pdfTeX%
152
    }%
153 \fi
2.3.3 Check version of pdfT<sub>E</sub>X
154 \ifpdfcolAvailable
     \begingroup\expandafter\expandafter\expandafter\endgroup
155
     \expandafter\ifx\csname pdfcolorstack\endcsname\relax
156
       \pdfcolAvailablefalse
157
       \PDFCOL@Message{%
158
         Interface disabled because of too old pdfTeX.\MessageBreak
159
         Required is version 1.40+ for \string\pdfcolorstack
160
161
       }%
162
     \fi
163 \fi
\begingroup\expandafter\expandafter\expandafter\endgroup
     \expandafter\ifx\csname pdfcolorstack\endcsname\relax
166
       \pdfcolAvailablefalse
167
168
       \PDFCOL@Message{%
         Interface disabled because of too old pdfTeX.\MessageBreak
169
         Required is version 1.40+ for \string\pdfcolorstackinit
170
171
     \fi
172
173 \fi
       Check pdftex.def
174 \ifpdfcolAvailable
     \begingroup\expandafter\expandafter\expandafter\endgroup
     \expandafter\ifx\csname @pdfcolorstack\endcsname\relax
Try to load package color if it is not yet loaded (LATEX case).
       \begingroup\expandafter\expandafter\expandafter\endgroup
177
       \expandafter\ifx\csname ver@color.sty\endcsname\relax
178
         \begingroup\expandafter\expandafter\expandafter\endgroup
179
180
         \expandafter\ifx\csname documentclass\endcsname\relax
         \else
           \RequirePackage[pdftex]{color}\relax
182
         \fi
183
184
       \begingroup\expandafter\expandafter\expandafter\endgroup
185
       \expandafter\ifx\csname @pdfcolorstack\endcsname\relax
186
```

```
187
                                     \pdfcolAvailablefalse
                                     \PDFCOL@Message{%
                           188
                           189
                                       Interface disabled because 'pdftex.def'\MessageBreak
                           190
                                       is not loaded or it is too old.\MessageBreak
                                       Required is version 0.04b or greater%
                           191
                           192
                                   \fi
                           193
                                \fi
                           194
                           195 \fi
                           196 \let\pdfcolAvailabletrue\relax
                           197 \let\pdfcolAvailablefalse\relax
                                  Enabled interface macros
                           198 \ifpdfcolAvailable
   \pdfcolErrorNoStacks
                           199
                                \let\pdfcolErrorNoStacks\relax
          \pdfcol@Value
                                \expandafter\ifx\csname pdfcol@Value\endcsname\relax
                           200
                           201
                                   \def\pdfcol@Value{0 g 0 G}%
                           202
\pdfcol@LiteralModifier
                                \expandafter\ifx\csname pdfcol@LiteralModifier\endcsname\relax
                           203
                                   \def\pdfcol@LiteralModifier{direct}%
                           204
                           205
                                \fi
       \pdfcolInitStack
                           206
                                \def\pdfcolInitStack#1{%
                           207
                                   \expandafter\ifx\csname pdfcol@Stack@#1\endcsname\relax
                                     \global\expandafter\chardef\csname pdfcol@Stack@#1\endcsname=%
                           208
                           209
                                         \pdfcolorstackinit\pdfcol@LiteralModifier{\pdfcol@Value}%
                                         \relax
                           210
                                     \@PackageInfo{pdfcol}{%
                           211
                                       New color stack '#1' = \number\csname pdfcol@Stack@#1\endcsname
                           212
                           213
                                     }%
                           214
                                   \else
                                     \@PackageError{pdfcol}{%
                           215
                           216
                                       Stack '#1' is already defined%
                           217
                                     }\@ehc
                                  \fi
                           218
                                }%
                           219
   \pdfcolIfStackExists
                           220
                                \def\pdfcolIfStackExists#1{%
                                   \expandafter\ifx\csname pdfcol@Stack@#1\endcsname\relax
                           221
                           222
                                     \expandafter\@secondoftwo
                           223
                                     \expandafter\@firstoftwo
                           224
                                   \fi
                           225
                                }%
                           226
            \@firstoftwo
                                \expandafter\ifx\csname @firstoftwo\endcsname\relax
                                   \label{longdef0firstoftwo#1#2{#1}% } $$ \operatorname{long\def\@firstoftwo#1#2{#1}% } $$
                           228
                           229
                                \fi
```

```
\@secondoftwo
                              \expandafter\ifx\csname @secondoftwo\endcsname\relax
                         230
                         231
                                 \long\def\@secondoftwo#1#2{#2}%
                         232
    \pdfcolSwitchStack
                         233
                              \def\pdfcolSwitchStack#1{%
                                 \pdfcolIfStackExists{#1}{%
                         234
                                   \expandafter\let\expandafter\@pdfcolorstack
                         235
                                                    \csname pdfcol@Stack@#1\endcsname
                         236
                                }{%
                         237
                                   \pdfcol@ErrorNoStack{#1}%
                         238
                                }%
                         239
                         240
                              }%
\pdfcolSetCurrentColor
                              \def\pdfcolSetCurrentColor{%
                                 \pdfcolorstack\@pdfcolorstack set{\current@color}%
                         242
                         243
                              }%
     \pdfcolSetCurrent
                              \def\pdfcolSetCurrent#1{%
                         244
                         245
                                 \ifx\\#1\\%
                                   \pdfcolorstack\@pdfcolorstack current\relax
                         246
                         247
                                 \else
                         248
                                   \pdfcolIfStackExists{#1}{%
                         249
                                     \pdfcolorstack\csname pdfcol@Stack@#1\endcsname current\relax
                         250
                                     \pdfcol@ErrorNoStack{#1}%
                         251
                                   }%
                         252
                                 \fi
                         253
                              }%
                         254
  \pdfcol@ErrorNoStack
                              \def\pdfcol@ErrorNoStack#1{%
                         255
                                 \@PackageError{pdfcol}{Stack '#1' does not exists}\@ehc
                         256
                         257
                              }%
                                Disabled interface macros
                         258 \ensuremath{\setminus} else
  \pdfcolErrorNoStacks
                              \def\pdfcolErrorNoStacks{%
                         259
                                 \@PackageError{pdfcol}{%
                         260
                         261
                                   Color stacks are not available%
                         262
                                   Update pdfTeX (1.40) and 'pdftex.def' (0.04b) %
                         263
                                       if necessary.\MessageBreak
                         264
                         265
                                   Ensure that 'pdftex.def' is loaded %
                                       (package 'color' or 'xcolor').\MessageBreak
                         266
                         267
                                   Further messages can be found in TeX's \%
                         268
                                       protocol file '\jobname.log'.\MessageBreak
                                   \MessageBreak
                         269
                         270
                                   \@ehc
                         271
                                 \global\let\pdfcolErrorNoStacks\relax
                         272
                              }%
                         273
```

```
\PDFCOL@Disabled
                          274
                               \def\PDFCOL@Disabled{%
                          275
                                  \PDFCOL@Message{%
                          276
                                   pdfTeX's color stacks are not available%
                          277
                                  \global\let\PDFCOL@Disabled\relax
                          278
                          279
                               }%
      \pdfcolInitStack
                               \def\pdfcolInitStack#1{%
                          280
                          281
                                 \PDFCOL@Disabled
                          282
  \pdfcolIfStackExists
                               \long\def\pdfcolIfStackExists#1#2#3{#3}%
                          283
    \pdfcolSwitchStack
                               \def\pdfcolSwitchStack#1{%
                          284
                          285
                                 \PDFCOL@Disabled
                          286
\pdfcolSetCurrentColor
                          287
                               \def\pdfcolSetCurrentColor{%
                                 \PDFCOL@Disabled
                          288
                          289
                               }%
     \pdfcolSetCurrent
                               \def\pdfcolSetCurrent#1{%
                          290
                                  \PDFCOL@Disabled
                          291
                          292
                               }%
                          293 \fi
                          294 \PDFCOL@AtEnd%
                          295 \langle /package \rangle
```

3 Installation

3.1 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:pkg/tds). Directories with texmf in their name are usually organized this way.

 $^{^1 {}m CTAN:pkg/pdfcol}$

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
```

3.3 Package installation

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

```
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):

```
\label{eq:pdfcol.sty} $$ pdfcol.sty \to tex/generic/oberdiek/pdfcol.sty $$ pdfcol.pdf \to doc/latex/oberdiek/pdfcol.pdf $$ pdfcol.dtx \to source/latex/oberdiek/pdfcol.dtx $$
```

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 (T_EX Live, MiKT_EX, ...) relies on file name databases, you must refresh these. For example, T_EX Live users run texhash or mktexlsr.

3.5 Some details for the interested

Unpacking with LATEX. The .dtx chooses its action depending on the format:

plain T_FX: 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 pdfL^AT_EX:

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

4 History

[2007/09/09 v1.0]

• First version.

[2007/12/09 v1.1]

• \pdfcolSetCurrentColor added.

[2007/12/12 v1.2]

• Detection for package luacolor added.

[2016/05/16 v1.3]

• Documentation updates.

[2016/05/17 v1.4]

• Use luatex85 package for new luatex compatibility

[2018/11/01 v1.5]

• Remove luatex85 dependency

[2019/12/29 v1.6]

• iftex package.

5 Index

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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\MessageBreak 159,	\protected
	\protected
\MessageBreak 159,	\protected
\MessageBreak 159, 169, 189, 190, 264, 266, 268, 269	\protected
\MessageBreak	\protected
\MessageBreak	\ProvidesPackage
\MessageBreak	\ProvidesPackage
\MessageBreak	\Protected
\MessageBreak	\ProvidesPackage
\MessageBreak 159,	\Protected
\MessageBreak	\ProvidesPackage
\MessageBreak	\ProvidesPackage
\MessageBreak	\ProvidesPackage