The pagecolor package

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Abstract

This LATEX package provides the command ——, which gives the current page (background) colour, i. e. the argument used with the most recent call of ——. The command —— gives the same colour as ——, except when the page background colour is "—none—". In that case —— is —white— and —— is —none—.

When —— is unknown (e. g. XHATEX) or broken (crop package) this package provides a replacement. Similar to —— and —— of the geometry package ——;—some colour —;— and —— are provided.

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Save per page about 200 ml water, $2\,\mathrm{g}$ CO₂ and $2\,\mathrm{g}$ wood: Therefore please print only if this is really necessary.

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(ba Th col set Th gro cas	is LATEX package provides the command ——, which gives the current pagackground) colour, i.e. the argument used with the most recent call of —— e package should be loaded before any package sets a page (background our, but after xcolor or color package. Its option —pagecolor=— is used to the initial ——. e command —— gives the same colour as ——, except when the page background colour is "—none—"(e.g. result of using the —— command). In that we ———————————————————————————————————

3

2 Usage

Just load the package placing

```
—[i—options—¿]pagecolor—
```

in the preamble of your IATEX 2_{ε} source file. This should be done before another package uses —. Afterwards —— can be used to change the page (background) colour as usual. Then —— gives the current page (background) colour (in the same format as given with ——).

Similar to —— and —— of the geometry package

- -i-some colour -i- and -i- are provided:
- —;—some colour —;— will execute —some colour —;— and remember the page colour used before. —— (without argument) restores the page colour to the one used before use of the —...— command. When you want to change the colour for just one page and do not want to (or cannot) manually determine where the page ends,

```
—j—some colour—;—
```

does the trick (and requires a —afterpage— in the document's preamble), or for short

in the preamble and

— ;—some colour—;— in the document.

2.1 Options

options

The pagecolor package takes the following options:

2.1.1 pagecolor

pagecolor

The option —pagecolor=...— takes as value a colour. This could be as simple as —black— or —white—, but when e.g. the xcolor package is used (loaded before pagecolor!), also colours like —red!50!green!20!blue— are possible. The default is —pagecolor=none—. A —— command with the given colour is used to initialise the pagecolour.

2.1.2 nopagecolor

nopagecolor

The option —nopagecolor=...— takes as value a colour. This could be as simple as —white— or —black—, but when e.g. the xcolor package is used (loaded before pagecolor!), also colours like —red!50!green!20!blue— are possible. The default is —nopagecolor=none—. When —— is unknown (e.g. XALTEX) or broken (crop package) —— is replaced by a — command using the colour defined with the —nopagecolor— option. If —— is not available and —nopagecolor— is —none—, it is used —white— instead of —none—.

3 Alternatives

As I neither know what exactly you want to accomplish when using this package (e. g. hiding text), nor what resources you have (e. g. pdfTEX version), here is a list of possible alternatives:

- transparent package: With it some object can be made (fully or partially) transparent, https://www.ctan.org/pkg/transparent.
- hrefhide package: It allows to "hide" some (hyperlinked) text when printing the document while keeping the layout, https://www.ctan.org/pkg/ hrefhide.

You programmed or found another alternative, which is available at https://www.CTAN.org/? OK, send an e-mail to me with the name, location at CTAN, and a short notice, and I will probably include it in the list above.

4 Example

```
1 (*example)
2 \documentclass[british] {article} [2014/09/29]% v1.4h
4 \usepackage[%
5 extension=pdf,%
6 plainpages=false,%
7 pdfpagelabels=true,%
8 hyperindex=false,%
9 pdflang={en},%
10 pdftitle={pagecolor package example},%
11 pdfauthor={H.-Martin Muench},%
12 pdfsubject={Example for the pagecolor package},%
13 pdfkeywords={LaTeX, pagecolor, thepagecolor, page colour,%
14 H.-Martin Muench},%
15 pdfview=Fit,pdfstartview=Fit,%
16 pdfpagelayout=SinglePage%
17 ]{hyperref}[2012/11/06]% v6.83m
18 \usepackage[x11names] \{ xcolor \} [2007/01/21] \% v2.11
19 % The xcolor package would not be needed for just using
20\, % the base colours. The color package would be sufficient for that.
21 \definecolor{darkgreen}{rgb}{0.0, 0.3, 0.0}%
22 \usepackage[pagecolor={LightGoldenrod1},%
23 nopagecolor={none}]{pagecolor}[2017/05/29]% v1.0i
25 \usepackage{afterpage}[2014/10/28]% v1.08
26 % The afterpage package is generally not needed,
27 % but the |\newpagecolor{somecolour}\afterpage{\restorepagecolor}|
28 % construct shall be demonstrated.
30 \usepackage{lipsum}[2014/07/27]% v1.3
31 % The lipsum package is generally not needed,
32 % but some blind text is needed for the example.
34 \usepackage{hologo}[2012/04/26]% v1.10
35 % The hologo package is only needed to write
36 % \hologo{pdfTeX}, \hologo{LuaTeX}, and \hologo{XeTeX}.
38 \gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
39 \listfiles%
40 \begin{document}
41 \pagenumbering{arabic}
42 \section*{Example for pagecolor}
44 This example demonstrates the use of package\newline
45 \textsf{pagecolor}, v1.0i as of 2017/05/29 (HMM).\newline
46 The used options were\newline
47 \verb|pagecolor={LightGoldenrod1}| (\verb|pagecolor={none}|
48 would be the default), and
49 \verb|pagecolor={none}| (which is the default).\newline
51 \noindent For more details please see the documentation!\newline
53 \noindent {\color{darkgreen} Save per page about $200\unit{ml}$ water,
54 \2 \nit{g}\ CO$_{2}\$ and $2\unit{g}\$ wood:\newline
55 Therefore please print only if this is really necessary.}\newline
```

```
57 \noindent The current page (background) colour is\newline
58 \verb | \thepagecolor | \ \thepagecolor \newline
59 (and \verb|\thepagecolornone|\ =\ \thepagecolornone
60 which would only be different from \verb | \thepagecolor |,
61 when the page colour would be \verb|none|).
62
63 \pagebreak
64 \pagecolor{rgb:-green!40!yellow,3;green!40!yellow,2;red,1}
66 {\color{white}} The current page (background) colour is\newline
67 \verb/\thepagecolor/\ =\ \thepagecolor . \newline}
69 {\color{\thepagecolor} And that makes this text practically invisible.
70 \newline}
71
72 \ \{\color\{\cwhite\}\  Which made the preceding line of text practically
75 \pagebreak
76 \newpagecolor{red}
78 This page uses \verb|\newpagecolor{red}|.
79
80 \pagebreak
81 \restorepagecolor
83 {\color{white}And this page uses \verb|\restorepagecolor| to restore
84 the page colour to the value it had before the red page.}
86 \pagebreak
87 \pagecolor{none}
89 This page uses \verb|\pagecolor{none}|. If the \verb|\nopagecolor|
90 command is known (hologo{pdfTeX}) and hologo{LuaTeX}; not yet for
91 dvips, dvipdfm(x) or \hologo{XeTeX}), the page colour is now
92 \verb|none| (because option \verb|nopagecolor={none}|), otherwise
93 \verb|white| (or the colour given with option \verb|nopagecolor={...}|):
94 \verb/\thepagecolor/ = \ \thepagecolor \ and
95 \verb | \thepagecolornone | \ = \ \thepagecolornone .
97 \pagebreak
98 \restorepagecolor
100 {\color{white}\verb|\restorepagecolor| restored the page colour again.}
101
102 \pagebreak
103 \pagecolor{green}
104
105 This page is green due to \verb|\pagecolor{green}|.
106
107 \pagebreak
108 \newpagecolor{blue}\afterpage{\restorepagecolor}
110 {\color{white}\verb|\newpagecolor{blue}\afterpage{\restorepagecolor}|\%}
111 \newline
112 was used here, i.\,e.~this page is blue, and the next one will
113 automatically have the same page colour before it was changed to blue
114 here (i.\,e. green).}
```

```
115
116 \smallskip
117 {\color{red}\textbf{\lipsum[1-11]}}
118 \bigskip
119
120 The page colour was changed back at the end of the page -
121 in mid-sentence!
122
123 \end{document}
124 \/example\
```

5 The implementation

We start off by checking that we are loading into LATEX 2_{ε} and announcing the name and version of this package.

```
125 (*package)
126 \NeedsTeXFormat{LaTeX2e} [2014/05/01]
127 \ProvidesPackage{pagecolor}[2017/05/29 v1.0i
               Provides thepagecolor (HMM)]
128
   A short description of the pagecolor package:
129 %% Provides the \thepagecolor, \thepagecolornone, \newpagecolor{...},
130 %% and \restorepagecolor commands and the a replacement for the
131 %% \nopagecolor command, if it is not available.
   We need the kvoptions package by Heiko Oberdiek:
132 \RequirePackage{kvoptions}[2011/06/30]% v3.11
   and either the color or the xcolor package:
133 %% \RequirePackage{ either color or xcolor }:
134 \@ifpackageloaded{xcolor}{% xcolor loaded
      \@ifpackagelater{xcolor}{2007/01/21}{%
135
136
         % 2007/01/21, v2.11, or even more recent: OK
137
       }{% else: older package version
138
         \PackageWarning{pagecolor}{%
           It is requested version '2007/01/21' of package\MessageBreak%
139
           xcolor, but only an older version is available \MessageBreak%
140
141
          3%
        }%
142
143
    }{% xcolor not loaded
      \@ifpackageloaded{color}{%
144
         \RequirePackage{color}[2014/10/28]% v1.1a
145
       }{% \else
146
         \PackageWarning{pagecolor}{%
147
           The pagecolor package must be loaded after either\MessageBreak%
148
149
           package color or after package xcolor (at your\MessageBreak%
           option). Neither package was loaded before package\MessageBreak%
150
           pagecolor. Loading of package xcolor will now be\MessageBreak%
151
           tried automatically.\MessageBreak%
152
           When the pagecolor package is used with option\MessageBreak%
153
           pagecolor using a colour requiring e.g. x11names\MessageBreak%
154
155
           option for xcolor package, this will not work!\MessageBreak%
156
        }% \fi
157
      \RequirePackage{xcolor}[2007/01/21]% v2.11
158
159
   as well as the ifpdf and the ifluatex package, because only pdfTFX and
LuaT<sub>F</sub>X provide the —— command:
160 \RequirePackage{ifpdf} [2011/01/30]%
161 \RequirePackage{ifluatex}[2010/03/01]% v1.3
   A last information for the user:
162 %% pagecolor may work with earlier versions of LaTeX and the
163 %% packages, but this was not tested. Please consider updating
164 %% your LaTeX and packages to the most recent version
165 %% (if they are not already the most recent version).
166
```

See subsection 6.1 about how to get them.

```
We process the options:
```

```
167 \SetupKeyvalOptions{family=pagecolor,prefix=pagecolor@}
168 \DeclareStringOption[none]{pagecolor}% \pagecolor@pagecolor
169 \DeclareStringOption[none]{nopagecolor}% \pagecolor@nopagecolor
170 \ProcessKeyvalOptions*
171
```

\nopagecolor

215

```
172 %% \nopagecolor is only available for pdf(La)TeX and Lua(La)TeX
173 %% but not for dvips, dvipdfm(x), Xe(La)TeX,...
   therefore —pagecolor— and/or —nopagecolor— can only be —none—, if
either pdfTFX or LuaTFX is used; otherwise —white— is fine or another colour
(other colours) requested by the user with the two options.
174 \def\pagecolourtmpa{0}
175 \ifluatex\def\pagecolourtmpa{1}\fi
176 \left( \frac{1}{6} \right)
177 \def\pagecolourtmpb{1}
178 \ifx\pagecolourtmpa\pagecolourtmpb\relax%
     \PackageInfo{pagecolor}{\string\nopagecolor\space is undefined}%
180
181
     \def\pagecolourtmpb{none}%
     \edef\pagecolourtmpa{\pagecolor@nopagecolor}%
182
     \ifx\pagecolourtmpa\pagecolourtmpb%
183
       \PackageWarning{pagecolor}{%
184
         Option nopagecolor=none requested but \string\nopagecolor\space%
185
         unknown: \MessageBreak%
186
187
         By option nopagecolor the "colour" to be used with%
188
         \string\nopagecolor\MessageBreak%
         is set. The current value is "none" (maybe by default),%
189
190
         \MessageBreak%
         but command \string\nopagecolor\space is undefined.\MessageBreak%
191
         Therefore the colour cannot be "none".\MessageBreak%
192
         Please change the option accordingly!\MessageBreak%
         As first aid nopagecolor is now set to white\MessageBreak%
194
        3%
195
       \setkeys{pagecolor}{nopagecolor=white}%
196
     \fi%
197
     \edef\pagecolourtmpa{\pagecolor@pagecolor}%
198
     \ifx\pagecolourtmpa\pagecolourtmpb%
199
200
       \PackageWarning{pagecolor}{%
         Option pagecolor=none (maybe by default) used, \MessageBreak%
201
         but \string\nopagecolor\space is unknown.\MessageBreak%
202
         Please use anotheroption value; \MessageBreak%
203
204
         \pagecolor@nopagecolor\space\MessageBreak%
205
         will be used now\MessageBreak%
206
       \setkeys{pagecolor}{pagecolor={\pagecolor@nopagecolor}}%
207
208
     \@ifundefined{nopagecolor}{%
209
        \newcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}%
210
      }{\renewcommand{\nopagecolor}{\pagecolor{\pagecolor@nopagecolor}}%
211
212
       }%
213 \fi%
214
```

```
\pagecolor We save the original — command,
            216 \let\origpagecolour\pagecolor
            217
                                                              definition of
                before
                        we redefine it
                                           to
                                                include a
            218 \renewcommand{\pagecolor}[1]{\@bsphack%
                  \edef\pagecolourtmpa{#1}%
            219
                  \def\pagecolourtmpb{none}%
            220
            221
                  \ifx\pagecolourtmpa\pagecolourtmpb\relax%
            222
                    \@ifundefined{nopagecolor}{%
                      \PackageWarning{pagecolor}{%
            223
                        pagecolor=none requested but \string\nopagecolor\space%
            224
            225
                        unknown:\MessageBreak%
            226
                        \string\pagecolor{none} was used, but the command\MessageBreak%
                        \string\nopagecolor\space is undefined.\MessageBreak%
            227
                        Please use another colour. \MessageBreak%
            228
                        pagecolor=\pagecolor@nopagecolor \MessageBreak%
            229
                        will be used now\MessageBreak%
            230
                       }%
            231
                      \xdef\thepagecolor{\pagecolor@nopagecolor}%
            232
            233
                      \xdef\thepagecolornone{\pagecolor@nopagecolor}%
            234
                                      % although it should be "none"
            235
                      \origpagecolour{\pagecolor@nopagecolor}%
                    }{\nopagecolor%
            236
                    3%
            237
                  \else%
            238
            239
                    \xdef\thepagecolor{#1}%
                    \xdef\thepagecolornone{#1}%
            240
                    \origpagecolour{\thepagecolornone}%
            241
            242
                  \fi%
                  \@esphack%
            243
            244 }
            245
                    - is only defined for pdfT<sub>E</sub>X and LuaT<sub>E</sub>X, but not for dvips, dvipdfm(x)
            or X<sub>7</sub>T<sub>F</sub>X. (We defined a replacement, see page 10.) But additionally -
            not work if the crop package is used. A workaround needs to be defined:
            246 \let\orignopagecolour\nopagecolor\relax%
            247
            248 \gdef\pagecolor@c1{0}%
            249 \@ifpackageloaded{crop}{% crop loaded
            250
                  \gdef\pagecolor@cl{1}%
                  \verb|\difpackagelater{crop}{2003/05/21}{%}|
            251
                     % later than 2003/05/20 v1.9 might be OK
            252
            253
                     \PackageWarning{pagecolor}{%
                       \string\nopagecolor\space did not work with package%
            254
            255
                       \MessageBreak%
            256
                       crop 2003/05/20 v1.9. A newer version is used, \MessageBreak%
                       which the pagecolor package does not know how to handle.%
            257
                       \MessageBreak%
            258
                       Please contact the maintainer of the pagecolor package!%
            259
            260
                       \MessageBreak%
                       3%
            261
```

https://tex.stackexchange.com/q/25137/6865

https://www.ctan.org/pkg/geometry

https://www.ctan.org

https://www.CTAN.org

https://www.ctan.org

https://www.ctan.org/pkg/holtxdoc

https://www.ctan.org/pkg/kvopti
https://www.ctan.org/pkg/ifpdf

https://www.ctan.org/pkg/ifluatex

https://www.ctan.org/pkg/xcolor

https://www.ctan.org/pkg/color

https://www.ctan.org/pkg/pagecolor

https://www.ctan.org/pkg/classes

https://www.ctan.org/pkg/xcolor

https://www.ctan.org/pkg/afterpage

https://www.ctan.org/pkg/linsum

3

https://www.ctan.org/pkg/transparent

https://www.ctan.org/pkg/hrefhide

http://mirror.ctan.org/install/macros/latex/contrib/oberdiek.tds.zip

http://mirror.ctan.org/install/macros/latex/contrib/hyperref.tds.zip

ctan.org/author/muench-hm

https://www.CTAN.org

http://mirror.ctan.org/macros/latex/contrib/pagecolor/pagecolor.dtx

http://mirror.ctan.org/macros/latex/contrib/pagecolor/pagecolor.pdf

http://mirror.ctan.org/macros/latex/contrib/pagecolor/pagecolor-example.pdf

http://mirror.ctan.org/macros/latex/contrib/pagecolor/README

http://mirror.ctan.org/install/macros/latex/contrib/pagecolor.tds.zip

6.5 Compiling the example

The example file, pagecolor-example.tex, can be compiled via —(pdf)latex pagecolor-example.tex—.

7 Acknowledgements

I would like to thank HEIKO OBERDIEK for providing a lot (!) of useful packages (from which I also got everything I know about creating a file in .dtx format, ok, say it: copying), and the news:comp.text.tex and news:de.comp.text.tex newsgroups for their help in all things TEX, especially all contributors to the discussion at https://groups.google.com/forum/#!topic/comp.text.tex/UzV26-RNYPY (H. OBERDIEK & GOUAILLES).

I thank HAOYUN_TEX for suggesting the ——/—— pair of commands and everyone at https://tex.stackexchange.com/q/25137/6865 for their contributions there. Thanks go to HEINER RICHTER for finding a bug, to JOHANNES BÖTTCHER for reporting it, and to REUBEN THOMAS for suggestions for improvements of this documentation.

8 History

[2011/07/16 v1.0a]

• First version discussed at news:comp.text.tex.

[2011/08/06 v1.0b]

• Changed version uploaded to the CTAN.

[2011/08/08 v1.0c]

• Fixed a —

[2012/02/01 v1.0d]

- Bugfix: Obsolete installation path given in the documentation, updated.
- New commands: —...—, ——.
- Update of documentation, README, and dtx internals.

[2012/02/23 v1.0e]

- Fixed an error in the documentation.
- Check for loading of color or xcolor package and their versions has been changed, because xcolor sets

which gave a warning about old **color** package even if a new version was used.

[2015/06/21 v1.0f]

- Fixed the urls in the documentation.
- Handle when it is not defined or broken by crop, new option —nopagecolor—introduced.
- Update of documentation, README, and dtx internals.

[2015/06/22 v1.0g]

• Replaced all error messages by warnings.

[2015/08/30 v1.0h]

• Bugfix: Checking for crop package done ——, but some of the related code must already be performed earlier. Bug found by Heiner Richter and reported by Johannes Böttcher, thanks!

[2017/05/29 v1.0i]

• Documentation update following suggestions for improvements by REUBEN THOMAS, thanks!

When you find a mistake or have a suggestion for an improvement of this package, please send an e-mail to the maintainer, thanks! (Please see BUG REPORTS in the README.)

9 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.

```
afterpage=
                                                           \subitem *+\afterpage+, \text{Radkhign Inefo{33}{}\frac{23}{}\frac{180}}, *+\PackageInfo+, \hdclindex{187}{}\{180}
                           110
                                                                                                                                                                    PackageWarning=
                                                                                                                                                                                                                                                          \subitem *+\PackageWarning+, \hdclindex{144}
Alternatives=
                                                                      \subitem *+\Alternatives+, \hdclindex)(B98){\lambda23ge}{\lambda33ge}{\lambda33ge}{\lambda33ge}.
AtBeginDocument=
                                                                                              \subitem *+\AtBeginDocument+, 2\ndclimeex{335}{}{325}
                                                                                                                                                                    cl =
                                                                                                                                                                                                 \subitem cl+, \hdclindex\{256\}\{\}\{248\}, \hdclindex\{258\}\{\}\{248\}
                                                                                                     \subitem *+\DeclareStringOption+, \hdclindex{174}{}{168}, \frac{169}{169}
                                                                \subitem *+\definecolor_hop\hdcllipdex{27\subi21-m nopagecolor+, \hdclindex{175}{}{169}, 18
definecolor=
                                                                                                                                                                                                  204. \quad 207.
                                                 \subitem *+\hologo+, \hdclindex{406} (usage){16}, 36273,
hologo=
                           90,
                                                                                                                                                                                                                                                                                     356.
                                                        holtxdoc=
                                                      \subitem *+\hrefhide+, \hdclindex[402]\usage]\usage\fightigner[16] \subitem *+\pagecolor-example.tex+, \hdclindex[402]\usage]\usage\fightigner[16] \subitem *+\pagecolor-example.tex+, \hdclindex[402]\usage]\usage\fightigner[16] \usage\fightigner[16] \usage\fightign
hrefhide=
                                                       \subitem *+\hyperref+, \hdclindex{412}\fusage}\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusage\fusa
hyperref=
                                                    \subitem *+\ifluatex+, \hdclindex{182}{\}{175},298 \\
\subitem *\ifluatex+, \hdclindex{182}\{\}\\ 288 \\
\subitem *\ifluatex+, \hdclindex{182}\{\}\\ 288 \\
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