# The grffile package

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#### Abstract

The package extends the file name processing of package <code>graphics</code> to support a larger range of file names. For example, the file name may contain several dots. Or in case of pdf $T_{E\!X}$  in PDF mode the file name may contain spaces.

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## 1 Usage

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#### 1.1 Option multidot

The file name parsing of package graphics is changed, in order to detect known extensions. This allows both the use of dots inside the base file name and extensions with several dots.

Assume there are two files in the currect directory: Hello.World.eps and Hello.World.pdf. \includegraphics{Hello.World} will find Hello.World.pdf with driver pdftex or Hello.World.eps with driver dvips.

**Limitations:** Problem could occur on systems, which don't use the dot as extension delimiter. These systems needs an own texsys.cfg containing definitions for \filename@parse. The author could not test that, due to a missing example.

#### 1.2 Option babel

This option allows the use of shorthand characters of package babel inside the graphics file name. Additionally the tilde '~' is supported. The option is turned on as default. (In version v1.1 or below of this package, the features of this option were part of option extendedchars.)

Example:

```
\usepackage[frenchb]{babel}
\usepackage{grffile}
Image: \includegraphics{C:/path/image}
```

#### 1.3 Option extendedchars

If the input encoding is the same encoding as the encoding that is used for file names and the driver allows non-ascii characters. Without option extendedchars the 8-bit characters are expanded, if they are active characters. For example, see the IATEX package inputenc. However a file name is not input for IATEX. Therefore this option extendedchars removes the active status and the 8-bit characters are not expandable any more.

Example:

```
\usepackage[latin1]{inputenc}
\usepackage[extendedchars]{grffile}
\includegraphics{Bäckerstraße}
```

If the draft option of the graphics package is enabled, the file name is printed with the current font encoding for \ttfamily. Thus it is possible, that such characters are omitted or the wrong characters are displayed, if the font encoding is not the same as the file name encoding.

#### 1.4 Option encoding

Consider the following scenario. Your file system is using UTF-8 as encoding for file names. But you use latin1 as input encoding for your TEX files, because some packages are not ready for multi-byte encodings (listings, ...).

Then this option encoding loads support for converting encodings by loading package stringenc. The option is not defined after the preamble, because IATEX limits package loading to the preamble.

File names are converted, if package stringenc is loaded and the encodings are known, see options inputencoding and filenameencoding.

#### 1.4.1 Option inputencoding

Option inputencoding specifies the encoding of the file name in your T<sub>E</sub>X input file.

Package inputenx and package inputenc since version 2006/02/22 v1.1a remember the name of the input encoding that is looked up by this package. Therefore option inputencoding is usually not mandatory.

#### 1.4.2 Option filenameencoding

This is the encoding of the filename of your file system. This option is mandatory, file names are not converted without this option. The option is disabled, if the value is empty.

#### 1.4.3 Example

Back to the scenario where the file system uses UTF-8 and the LATEX input files are encodind in latin1.

```
\usepackage[latin1]{inputenc}[2006/02/22]
% \usepackage[latin1]{inputenx}
\usepackage{graphicx}
\usepackage[encoding,filenameencoding=utf8]{grffile}
```

For older versions of package inputenc option inputencoding provides the necessary informations.

```
\usepackage[latin1]{inputenc}
\usepackage{graphicx}
\usepackage{grffile}
\grffilesetup{
  encoding,
  inputencoding=latin1,
  filenameencoding=utf8,
}
```

#### 1.5 Option space

This option allows graphics file names that contain spaces if possible.

In general it is not possible to use space inside file names, because  $T_EX$  considers the space character as termination in its syntax for commands that expect a file

Regarding graphics inclusion with the package graphics file names are used in two or three contexts:

- 1. The basic \special statement or primitive command for graphics inclusion. The \special statements for drivers dvips or dvipdfm do not allow spaces. However pdfTEX's primitive \pdfximage uses curly braces to delimit the file name and allows spaces.
- 2. \includegraphics checks the existence of the file. Also it looks for the right extension if the extension is not given. If pdfTEX 1.30 is given, the file existence test can be rewritten using a new primitive that allows spaces. This works in both modes DVI and PDF.

3. Sometimes files are read as  $T_EX$  input files. For example, .bb files or MPS files

If pdfTEX 1.30 or greater is used in PDF mode then the graphics file names may contain spaces except for MPS files. Therefore option space is only enabled by default, if the supported pdfTEX in PDF mode is detected. You can enable the option manually, if you know, your DVI driver supports spaces in its \special syntax and if there is no need to read the image file as TEX input file (third context).

#### 1.6 General use

The options can be given at many places:

- As package options: \usepackage[<options>]{grffile}
- Setup command of package grffile: \grffilesetup{<options>}
- 3. The options are also available as options for package graphicx: \setkeys{Gin}{<options>}
- 4. If package  $\mathsf{graphicx}$  is loaded the options can also be applied for a single image:

\includegraphics[<options>]{...}

#### 1.7 Default settings

multidot true
babel true
extendedchars false

space true if pdfTEX 1.30 or greater is used in PDF mode

false otherwise

## 2 Implementation

#### 2.1 Identification

```
1 \*package\
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{grffile}%
```

4 [2009/09/25 v1.10 Extended file name support for graphics (HO)]%

#### 2.2 Catcode stuff

```
5 \edef\grffile@RestoreCatcodes{%
    \catcode'\noexpand\=\the\catcode'\=\relax
   \catcode'\noexpand\:\the\catcode'\:\relax
   \catcode'\noexpand\.\the\catcode'\.\relax
9
   \catcode'\noexpand\'\the\catcode'\'\relax
10
   \catcode'\noexpand\<\the\catcode'\<\relax
    \catcode'\noexpand\>\the\catcode'\>\relax
11
12
    \catcode'\noexpand\*\the\catcode'\*\relax
    \catcode'\noexpand\^\the\catcode'\^\relax
13
    \catcode'\noexpand\~\the\catcode'\~\relax
14
15 }
16 \@makeother\=
17 \@makeother\:
18 \@makeother\.
19 \@makeother\'
20 \@makeother\<
```

```
22 \@makeother\*
                                     23 \catcode'\^=7 %
                                     24 \catcode ' = \active
                                    2.3
                                                   Options
                                     25 \RequirePackage{ifpdf}
                                     26 \ \texttt{RequirePackage\{kvoptions\}[2006/08/17]}
                                     27 \SetupKeyvalOptions{%
                                     28 family=Gin,%
                                              prefix=grffile0%
                                     29
                                     30 }
                                     31 \DeclareBoolOption[true] {multidot}
                                     32 \DeclareBoolOption[true] {babel}
                                     33 \DeclareBoolOption[false] {extendedchars}
                                     34 \DeclareBoolOption{space}
                                     35 \DeclareVoidOption{encoding}{%
                                               \RequirePackage{stringenc}\relax
                                     37 }
                                     {\tt 38 \setminus DeclareStringOption\{inputencoding\}}
                                     39 \DeclareStringOption{filenameencoding}
                                     40 \DeclareDefaultOption{%
                                                \PassOptionsToPackage\CurrentOption{graphics}%
                                     41
                                     42 }
                                    Default setting for option space.
                                     43 \RequirePackage{pdftexcmds}[2007/11/11]
                                     44 \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
                                     45 \expandafter\ifx\csname pdf@filesize\endcsname\relax
                                                \grffile@spacefalse
                                     46
                                                \let\grffile@space@disabled\@empty
                                     47
                                                \def\grffile@spacetrue{%
                                     48
                                                    \PackageWarning{grffile}{%
                                     49
                                                         Option 'space' is not available, \MessageBreak
                                     50
                                     51
                                                         because it needs pdfTeX >= 1.30%
                                     52
                                                    }%
                                              }%
                                     53
                                     54 \else
                                     55
                                               \ifpdf
                                     56
                                                    \grffile@spacetrue
                                               \else
                                     57
                                                    \grffile@spacefalse
                                     58
                                              \fi
                                     59
                                     60 \fi
                                     61 \ProcessKeyvalOptions*
                                     62 \AtBeginDocument{%
                                               \DisableKeyvalOption[package=grffile]{Gin}{encoding}%
                                     64 }
                                     65 \RequirePackage{graphics}
\grffilesetup
                                     66 \newcommand*{\grffilesetup}{%
                                     67
                                               \setkeys{Gin}%
                                     68 }
                                     69 \let\grffile@org@Ginclude@graphics\Ginclude@graphics
                                     70 \renewcommand*{\Ginclude@graphics}{%
                                     71
                                                \ifx\grffile@filenameencoding\@empty
                                     72
                                                    \ifx\grffile@inputencoding\@empty
                                     73
                                                          \expandafter\ifx\csname inputencodingname\endcsname\relax
                                     74
                                                              \expandafter\ifx\csname
                                     75
                                     76
                                                                        CurrentInputEncodingOption\endcsname\relax
```

21 \@makeother\>

```
\else
 77
              \let\grffile@inputencoding\CurrentInputEncodingOption
 78
 79
            \fi
         \else
 80
           \let\grffile@inputencoding\inputencodingname
 82
         \fi
 83
       \fi
 84
       \ifx\grffile@inputencoding\@empty
 85
       \else
          \grffile@extendedcharstrue
 86
       \fi
 87
     \fi
 88
     \ifnum0\ifgrffile@babel 1\fi\ifgrffile@extendedchars 1\fi>\z@
 89
       \begingroup
 90
Support of babel's shorthand characters.
         \ifgrffile@babel
 92
           \csname @safe@activestrue\endcsname
Support of active tilde.
           \edef~{\string^}%
Support of characters controlled by package inputenc.
 94
          \ifgrffile@extendedchars
 95
            \grffile@inputenc@loop\^^A\^^H%
 96
 97
            \grffile@inputenc@loop\^^K\^^K%
           \grffile@inputenc@loop\^^N\^^
 98
           \grffile@inputenc@loop\^^?\^^ff%
 99
100
          \expandafter\grffile@extchar@Ginclude@graphics
101
102
103
       \expandafter\grffile@Ginclude@graphics
104
     \fi
105 }
106 \def\grffile@extchar@Ginclude@graphics#1{%
107
     \def\grffile@filename{#1}%
108
     \ifx\grffile@inputencoding\@empty
109
110
       \ifx\grfile@filenameencoding\@empty
111
         \ifx\grffile@inputencoding\grffile@filenameencoding
112
113
         \else
           \expandafter\ifx\csname StringEncodingConvert\endcsname\relax
114
115
              \PackageError{grffile}{%
116
               Package 'stringenc' is not loaded, MessageBreak
117
                omitting file name conversion%
118
             }\@ehc
119
           \else
120
             \StringEncodingConvert\grffile@temp\grffile@filename
121
                  \grffile@inputencoding\grffile@filenameencoding
              \StringEncodingSuccessFailure{%
122
               \let\grffile@filename\grffile@temp
123
             }{%
124
                \PackageError{grffile}{%
125
                  Filename conversion failed%
126
127
                128
             }%
129
           \fi
130
         \fi
131
       \fi
     \fi
132
     \edef\x{\endgroup
133
       \noexpand\grffile@Ginclude@graphics{\grffile@filename}%
134
```

```
}%
135
136
     \x
137 }
138 \def\grffile@inputenc@loop#1#2{%
139
     \count@='#1\relax
140
     \loop
141
       \begingroup
         \uccode'\~=\count@
142
143
       \uppercase{%
         \endgroup
144
         \edef~{\string~}%
145
       }%
146
     \ifnum\count@<'#2\relax
147
       \advance\count@\@ne
148
149
     \repeat
150 }
Support for option space
151 \def\grffile@space@getbase#1{%
     \edef\grffile@tempa{%
152
153
       \def\noexpand\@tempa###1#1\noexpand\@nil{%
154
          \def\noexpand\Gin@base{####1}%
       }%
155
     }%
156
     \grffile@IfFileExists{\filename@area\filename@base#1}{%
157
       \grffile@tempa
158
       \expandafter\@tempa\grffile@file@found\@nil
159
       \edef\Gin@ext{#1}%
160
161
     }{%
162
     }%
163 }
164 \def\grffile@IfFileExists#1{%
     \expandafter\expandafter\expandafter
     \ifx\expandafter\expandafter\expandafter\\\pdf@filesize{#1}\\%
166
       \let\reserved@a\@secondoftwo
167
       \ifx\input@path\@undefined
168
       \else
169
          \expandafter\@tfor\expandafter\reserved@b\expandafter
170
              :\expandafter=\input@path\do{%
171
            \expandafter\expandafter\expandafter
172
            \ifx\expandafter\expandafter\expandafter
173
174
                \\pdf@filesize{\reserved@b#1}\\%
            \else
175
176
              \edef\grffile@file@found{\reserved@b#1}%
177
              \let\reserved@a\@firstoftwo
              \@break@tfor
178
            \fi
179
         }%
180
       \fi
181
182
       \expandafter\reserved@a
183
       \edef\grffile@file@found{#1}%
184
       \expandafter\@firstoftwo
185
186
     \fi
187 }
188
189 \def\grffile@Ginclude@graphics#1{%
     \begingroup
190
       \ifgrffile@space
191
          \let\Gin@getbase\grffile@space@getbase
192
193
       \ifgrffile@multidot
194
         \let\filename@base\@empty
195
```

```
\let\filename@simple\grffile@filename@simple
196
197
       \grffile@org@Ginclude@graphics{#1}%
198
199
     \endgroup
200 }%
201
202 \def\grffile@filename@simple#1.#2\\{\%
203
     \ifx\\#2\\%
       \def\filename@base{#1}%
204
       \let\filename@ext\relax
205
     \else
206
       \def\filename@base{}%
207
       \grffile@analyze@ext{#1}.{#2}\\%
208
209
210 }
211
212 \def\grffile@analyze@ext#1.#2\\{%
     \let\grffile@next\relax
213
     \ifx\\#2\\%
214
       \edef\filename@base{\filename@base#1}%
215
       \let\filename@ext\relax
216
       \def\grffile@next{\grffile@try@extlist}%
217
218
     \else
       \edef\filename@base{\filename@base #1}%
219
       \edef\filename@ext{\filename@dot#2\\}%
220
221
       \expandafter\ifx\csname Gin@rule@.\filename@ext\endcsname\relax
222
          \edef\filename@base{\filename@base.}%
223
          \def\grffile@next{\grffile@analyze@ext#2\\}%
224
          \verb|\grffile@IfFileExists{\filename@area\filename@base.\filename@ext}{%}|
225
           % success
226
227
         }{%
228
            \edef\filename@base{\filename@base.\filename@ext}%
           \let\filename@ext\relax
229
            \def\grffile@next{\grffile@try@extlist}%
230
231
         }%
232
       \fi
233
     \fi
234
     \grffile@next
235 }
236
237 \def\grffile@try@extlist{%
     \@for\grffile@temp:=\Gin@extensions\do{%
238
239
       \grffile@IfFileExists{\filename@area\filename@base\grffile@temp}{%
240
          \ifx\filename@ext\relax
            \edef\filename@ext{\expandafter\@gobble\grffile@temp\@empty}%
242
         \fi
243
       }{}%
244
     }%
245
     \ifx\filename@ext\relax
       \expandafter\let\expandafter\filename@base\expandafter\@empty
246
       \expandafter\grffile@use@last@ext\filename@base.\\%
247
248
249 }
250
251 \def\grffile@use@last@ext#1.#2\\{%
252
     \ifx\\#2\\%
253
       \edef\filename@base{\expandafter\filename@dot\filename@base\\}%
254
       \def\filename@ext{#1}%
       \expandafter\@gobble
255
     \else
256
       \edef\filename@base{\filename@base#1.}%
257
```

```
\expandafter\@firstofone
258
259
260
     {%
        \grffile@use@last@ext#2\%
261
262
     }%
263 }
   Print current option setting
264 \def\grffile@option@status#1{%
     \begingroup
266
        \let\on@line\@empty
267
       \PackageInfo{grffile}{%
         Option '#1' is %
268
          \expandafter\ifx\csname ifgrffile@#1\expandafter\endcsname
269
                           \csname iftrue\endcsname
270
            set to 'true'%
271
272
          \else
273
            \expandafter\ifx\csname grffile@#1@disabled\endcsname\@empty
274
             not available%
275
276
              set to 'false'%
277
            \fi
278
         \fi
       }%
279
280
     \endgroup
281 }
282 \grffile@option@status{multidot}
283 \grffile@option@status{extendedchars}
284 \grffile@option@status{space}
285 \grffile@RestoreCatcodes
286 \langle /package \rangle
```

### 3 Test

#### 3.1 Multidot with default rule

```
287 (*test1)
288 \NeedsTeXFormat{LaTeX2e}
289 \documentclass{article}
290 \usepackage{filecontents}
291 % file grffile-test.mp:
292 % beginfig(1);
293 %
      draw fullcircle scaled 2cm withpen pencircle scaled 2mm;
294 % endfig;
295 \% end
296 \begin{filecontents*}{grffile-test.1}
297 %!PS
298 % Bounding Box: -32 -32 32 32
299 %%Creator: MetaPost
300 %%CreationDate: 2004.06.16:1257
301 %%Pages: 1
302 %%EndProlog
303 %%Page: 1 1
304 0 5.66928 dtransform truncate idtransform setlinewidth pop [] 0 setdash
305 1 setlinejoin 10 setmiterlimit
306 newpath 28.34645 0 moveto
307 28.34645 7.51828 25.35938 14.72774 20.04356 20.04356 curveto
308 14.72774 25.35938 7.51828 28.34645 0 28.34645 curveto
309 -7.51828 28.34645 -14.72774 25.35938 -20.04356 20.04356 curveto
310 -25.35938 14.72774 -28.34645 7.51828 -28.34645 0 curveto
311 -28.34645 -7.51828 -25.35938 -14.72774 -20.04356 -20.04356 curveto
```

```
312 -14.72774 -25.35938 -7.51828 -28.34645 0 -28.34645 curveto
313 7.51828 -28.34645 14.72774 -25.35938 20.04356 -20.04356 curveto
314 25.35938 -14.72774 28.34645 -7.51828 28.34645 0 curveto closepath stroke
315 showpage
316 %%EOF
317 \end{filecontents*}
318 \usepackage{graphicx}
319 \usepackage[multidot]{grffile}[2008/10/13]
320 \DeclareGraphicsRule{*}{mps}{*}{} % for pdflatex
321 \begin{document}
322 \includegraphics{grffile-test.1}
323 \end{document}
324 \( /test1 \)
```

#### 4 Installation

#### 4.1 Download

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

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

CTAN:macros/latex/contrib/oberdiek/grffile.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-TFX:

```
tex grffile.dtx
```

<sup>1</sup>ftp://ftp.ctan.org/tex-archive/

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

```
\begin{tabular}{ll} $\tt grffile.sty & \to tex/latex/oberdiek/grffile.sty \\ {\tt grffile.pdf} & \to doc/latex/oberdiek/grffile.pdf \\ {\tt test/grffile-test1.tex} & \to doc/latex/oberdiek/test/grffile-test1.tex \\ {\tt grffile.dtx} & \to source/latex/oberdiek/grffile.dtx \\ \end{tabular}
```

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.

#### 4.4 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 $T_FX$  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 grffile.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{grffile.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 grffile.dtx
makeindex -s gind.ist grffile.idx
pdflatex grffile.dtx
makeindex -s gind.ist grffile.idx
pdflatex grffile.dtx
```

#### 5 References

- [1] David Carlisle, Sebastian Rahtz: *The graphics package*; 2006/02/20 v1.0o; CTAN:macros/latex/required/graphics/graphics.dtx.
- [2] Sebastian Rahtz, Heiko Oberdiek: *The graphicx package*; 1999/02/16 v1.0f; CTAN:macros/latex/required/graphics/graphicx.dtx.

## 6 History

## [2004/07/18 v0.5]

• First version, published in newsgroup de.comp.text.tex: "Re: Dateinamenproblem" 2

### [2006/08/15 v1.0]

- File existence check by new primitives of pdfTeX 1.30.
- Implementation partly rewritten.
- New DTX framework.

## [2006/08/17 v1.1]

• Adaptation to version 2.3 of package kvoptions.

### [2006/11/30 v1.2]

• New option babel. Before this feature was part of option extendedchars.

## [2007/04/11 v1.3]

• Line ends sanitized.

## [2007/06/13 v1.4]

• Encoding support added with options encoding, inputencoding, and file-nameencoding.

## [2007/08/16 v1.5]

• Bug fix in encoding support.

## [2007/11/11 v1.6]

• Use of package pdftexcmds for LuaTeX support.

## [2007/11/24 v1.7]

• Bug fix of broken previous version.

## [2008/08/11 v1.8]

- Code is not changed.
- URLs updated.

### [2008/10/13 v1.9]

• Fix for option 'multidot' with default rule.

### [2009/09/25 v1.10]

• Rewrite of 'multidot' algorithm to fix a problem ('multidot' with \graphicspath).

<sup>&</sup>lt;sup>2</sup>Url: http://groups.google.com/group/de.comp.text.tex/msg/b85984095d1a3c95

## 7 Index

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