

The pdfscape package

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2008/08/11 v0.10

Abstract

Package `pdfscape` adds PDF support to the environment `landscape` of package `lscope` by setting the PDF page attribute `/Rotate`.

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1 Documentation

1.1 Supported drivers

- pdftex
- dvips, dvipsone, pctex32, pctexps (and other drivers that provide a non-empty `\Gin@PS@raw`)
- dviplm

1.2 Caveat

Depending on the configuration Ghostscript adds a guessed rotation entry by its own. This can lead to two `/Rotate` entries per page. To prevent this behaviour set the parameter `AutoRotatePages` to `/None`, eg:

```
ps2pdf -dAutoRotatePages=/None
```

1.3 Requirements

- The package `lscope`.
- The package `atbegshi` for all drivers except `pdftex`.

1.4 Usage

Load this package instead of or after package `lscope`:

```
\usepackage{pdfscape}
\begin{landscape}...\end{landscape}
```

2 Implementation

2.1 Package identification

```
1 (*package)
```

Package identification.

```
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{pdfscape}%
4 [2008/08/11 v0.10 Display of landscape pages in PDF (HO)]
```

2.2 Driver options

```
5 \let\PLS@option\@empty
6 \let\PLS@driver\@empty
```

```

7 \def\PLS@temp#1#2{%
8   \DeclareOption{#1}{%
9     \let\PLS@option\CurrentOption
10    \def\PLS@driver{#2}%
11   }%
12 }
13 \PLS@temp{pdftex}{pdftex}
14 \PLS@temp{dvips}{dvips}
15 \PLS@temp{dvipsone}{dvips}
16 \PLS@temp{pctexps}{dvips}
17 \PLS@temp{dvipdfm}{dvipdfm}
18 \PLS@temp{dvipdfmx}{dvipdfm}
19 \PLS@temp{xetex}{dvipdfm}
20 \let\PLS@temp\@empty
21 \DeclareOption*{%
22   \ifx\PLS@temp\@empty
23     \let\PLS@temp\CurrentOption
24   \else
25     \edef\PLS@temp{\PLS@temp,\CurrentOption}%
26   \fi
27 }
28 \ProcessOptions*
29 \ifx\PLS@option\@empty
30 \else
31   \expandafter\PassOptionsToPackage\expandafter{\PLS@option}{lscscape}%
32 \fi
33 \ifx\PLS@temp\@empty
34 \else
35   \expandafter\PassOptionsToPackage\expandafter{\PLS@temp}{lscscape}%
36 \fi
37 \RequirePackage{lscscape}

```

2.3 Autodetection of driver

2.3.1 Driver pdftex

```

38 \RequirePackage{ifpdf}[2006/02/20]
39 \def\PLS@temp{pdftex}
40 \ifpdf
41   \ifx\PLS@driver\@empty
42     \let\PLS@driver\PLS@temp
43     \PackageInfo{pdfscape}{Auto-detected driver: \PLS@temp}%
44   \fi
45   \ifx\PLS@driver\PLS@temp
46   \else
47     \PackageError{pdfscape}{%
48       The driver option '\PLS@option' is not compatible\MessageBreak
49       with pdfTeX in PDF mode, using driver 'pdftex' instead%
50     }\@ehc
51     \let\PLS@driver\PLS@temp
52   \fi
53 \fi

```

2.3.2 Driver xetex

```

54 \RequirePackage{ifxetex}%
55 \def\PLS@temp{dvipdfm}
56 \ifxetex
57   \ifx\PLS@driver\@empty
58     \let\PLS@driver\PLS@temp
59     \PackageInfo{pdfscape}{%
60       Auto-detected driver: \PLS@temp\space(xetex)%
61     }%
62   \fi
63   \ifx\PLS@driver\PLS@temp

```

```

64 \else
65   \PackageError{pdfscape}{%
66     The driver option '\PLS@option' is not compatible\MessageBreak
67     with XeTeX, using driver for XeTeX (dvipdfm) instead%
68   }\@ehc
69   \let\PLS@driver\PLS@temp
70 \fi
71 \fi

```

2.3.3 Detect driver based on \Gin@driver

```

72 \def\PLS@temp#1#2{%
73   \ifx\PLS@driver\@empty
74     \begingroup
75       \def\PLS@temp{#1.def}%
76     \expandafter\endgroup
77     \ifx\PLS@temp\Gin@driver
78       \def\PLS@driver{#2}%
79       \PackageInfo{pdfscape}{%
80         Auto-detected driver: \PLS@driver\space(#1)%
81       }%
82     \fi
83 \fi
84 }
85 \PLS@temp{dvipdfm}{dvipdfm}
86 \PLS@temp{dvipdfmx}{dvipdfm}
87 \PLS@temp{dvips}{dvips}
88 \PLS@temp{dvipsone}{dvips}
89 \PLS@temp{pctexps}{dvips}

```

2.3.4 Driver dvips

```

90 \ifx\PLS@driver\@empty
91   \def\PLS@temp{dvips}%
92   \ifnum 1=0\ifx\Gin@PS@raw\@undefined
93     \else
94       \ifx\Gin@PS@raw\relax
95         \else
96           \ifx\Gin@PS@raw\@empty
97             \else
98               1%
99             \fi
100          \fi
101        \fi
102      \space
103    \let\PLS@driver\PLS@temp
104    \PackageInfo{pdfscape}{%
105      Auto-detected driver: \PLS@temp\space(PostScript)%
106    }%
107  \fi
108 \fi
109 \ifx\PLS@driver\@empty
110   \PackageError{pdfscape}{%
111     Neither pdfTeX, PostScript, nor dvipdfm driver found%
112   }\@ehc
113 \fi

```

2.4 Driver implementation

- `\PLS@AddRotate #1`
it expects the correct rotation number in #1 and implements the adding of the `/Rotation` entry in the `/Page` object of the current page.
- `\PLS@RemoveRotate`
it removes a previous `/Rotate` entry, if necessary.

2.4.1 pdfTeX

Not too nice is the global setting of `\pdfpageattr`. Perhaps this can be changed in future versions.

```
114 \def\PLS@temp{pdftex}
115 \ifx\PLS@temp\PLS@driver
116   \def\PLS@AddRotate#1{%
117     \ifnum#1=0 %
```

Already the default.

```
118   \else
119     \global\pdfpageattr\expandafter{%
120       \the\pdfpageattr
121       /Rotate #1%
122     }%
123   \fi
124 }%
```

Removes a `/Rotate` entry.

```
125 \def\PLS@RemoveRotate{%
126   \begingroup
127   \global\pdfpageattr\expandafter{\expandafter}%
128   \expandafter\PLS@@RemoveRotate
129   \the\pdfpageattr /Rotate\@nil
130   \endgroup
131 }%
132 \def\PLS@@RemoveRotate#1/Rotate#2\@nil{%
```

Append `/Rotate` free stuff to `\pdfpageattr`.

```
133   \global\pdfpageattr\expandafter{\the\pdfpageattr#1}%
134   \ifx\#2\%
```

Ready, because the detected `/Rotate` is part of the end marker: `/Rotate\@nil`

```
135   \else
```

First read in the argument of `/Rotate`, then continue parsing.

```
136     \afterassignment\PLS@@RemoveRotate
137     \count0=#2\@nil
138   \fi
139 }%
140 \fi
```

2.4.2 PostScript driver

```
141 \def\PLS@temp{dvips}
142 \ifx\PLS@temp\PLS@driver
143   \RequirePackage{atbegshi}%
144   \AtBeginShipout{\PLS@AtBeginShipout}%
145   \let\PLS@AtBeginShipout\@empty
146   \def\PLS@AddRotate#1{%
147     \ifnum#1=0 %
148     \else
149       \def\PLS@AtBeginShipout{%
150         \global\setbox\AtBeginShipoutBox\vbox{%
151           \Gin@PS@raw{%
152             [{ThisPage}\string<\string</Rotate #1\string>\string>%
153             /PUT pdfmark%
154           }%
155           \box\AtBeginShipoutBox
156         }%
157       }%
158     \fi
159   }%
160 \def\PLS@RemoveRotate{\let\PLS@AtBeginShipout\@empty}%
```

```
161 \fi
```

2.4.3 Driver dvipdfm

```
162 \def\PLS@temp{dvipdfm}
163 \ifx\PLS@temp\PLS@driver
164   \RequirePackage{atbegshi}%
165   \AtBeginShipout{\PLS@AtBeginShipout}%
166   \let\PLS@AtBeginShipout\@empty
167   \def\PLS@AddRotate#1{%
168     \ifnum#1=0 %
169       \else
170         \def\PLS@AtBeginShipout{%
171           \global\setbox\AtBeginShipoutBox\vbox{%
172             \special{pdf: put @thispage <</Rotate #1>>}%
173             \box\AtBeginShipoutBox
174           }%
175         }%
176       \fi
177     }%
178   \def\PLS@RemoveRotate{\let\PLS@AtBeginShipout\@empty}%
179 \fi
```

2.5 Driver independent stuff

The landscape environment is extended by adding the correct `/Rotate` entries.

```
180 \g@addto@macro{\landscape}{\PLS@Rotate{90}}
181 \g@addto@macro{\endlandscape}{\PLS@Rotate{0}}
```

`\PLS@Rotate` Main macro, that sets the `/Rotate` entry.

Argument: any TeX number or nothing, that means zero.

Driver independent.

```
182 \def\PLS@Rotate#1{%
183   \begingroup
184   1. Check and validate the argument.
185   \PLS@CheckAngle{#1}%
186   \expandafter\endgroup
187   2. Remove previous \Rotate entry.
188   \expandafter\PLS@RemoveRotate
189   3. Add /Rotate entry.
190   \expandafter\PLS@AddRotate\expandafter{\the\count@}%
191 }
```

`\PLS@CheckAngle` Validates the rotation angle.

The result is stored in the count register `\count@`.

Driver independent.

```
189 \def\PLS@CheckAngle#1{%
190   Nothing means zero:
191   \ifx\#1\%
192     \count@=0 %
193   \else
194     \count@=#1\relax
195   \fi
196   Normalize to interval  $-360 < \count@ < 360$ .
197   \@whilenum\count@>359\do{\advance\count@ -360 }%
198   \@whilenum\count@<-359\do{\advance\count@ 360 }%
199   Check values: 0, +/-90, +/-180, +/-270
200   \ifnum 1=0\ifnum\count@=0 \else
201     \ifnum\count@=90 \else
202     \ifnum\count@=-90 \else
```

```

200         \ifnum\count@=180 \else
201         \ifnum\count@=-180 \else
202         \ifnum\count@=270 \else
203         \ifnum\count@=-270 \else
204         1\fi\fi\fi\fi\fi\fi\fi\relax
205     \PackageError{pdfscape}{%
206         Invalid value \the\count@\space for /Rotate%
207     }\@ehc
208     \count@=0 %
209 \fi
210 }
211 </package>

```

3 Test

3.1 Driver detection tests

```

212 <*test0>
213 \NeedsTeXFormat{LaTeX2e}
214 \documentclass{minimal}
215 \usepackage{qstest}
216 \IncludeTests{*}
217 \LogTests{log}{*}{*}
218 </test0>

219 <*test1>
220 \usepackage{ifpdf}
221 \ifpdf
222     \def\ExpectDriver{pdftex}%
223 \fi
224 \usepackage{ifxetex}%
225 \ifxetex
226     \def\ExpectDriver{dvipdfm}%
227 \fi
228 \usepackage{pdfscape}[2008/08/11]
229 </test1>

230 <*test2>
231 \def\ExpectDriver{pdftex}
232 \usepackage[pdftex]{pdfscape}[2008/08/11]
233 </test2>

234 <*test3>
235 \def\ExpectDriver{dvipdfm}
236 \usepackage[dvipdfm]{pdfscape}[2008/08/11]
237 </test3>

238 <*test4>
239 \def\ExpectDriver{dvips}
240 \usepackage[dvipson]{graphics}
241 \usepackage{pdfscape}[2008/08/11]
242 </test4>

243 <*test0>
244 \begin{document}
245 \begin{qstest}{driver}{driver}
246     \makeatletter
247     \Expect*{\PLS@driver}*\ExpectDriver}%
248 \end{qstest}
249 \end{document}
250 </test0>

```

3.2 Test for \PLS@CheckAngle

```

251 <*test5>

```

```

252 \NeedsTeXFormat{LaTeX2e}
253 \documentclass{minimal}
254 \usepackage{qstest}
255 \IncludeTests{*}
256 \LogTests{log}{*}{*}
257 \usepackage{pdfscape}[2008/08/11]
258 \begin{document}
259 \begin{qstest}{checkangle}{checkangle}
260   \makeatletter
261   \def\Result{%
262     \def\ResultString{\the\count@}%
263   }%
264   \def\PackageError#1#2#3{%
265     \def\Result{%
266       \def\ResultString{error}%
267     }%
268   }%
269   \def\Test#1#2{%
270     \begingroup
271       \PLS@CheckAngle{#1}%
272       \Result
273       \Expect*{\ResultString}{#2}%
274     \endgroup
275   }%
276   \Test{0}{0}%
277   \Test{90}{90}%
278   \Test{180}{180}%
279   \Test{270}{270}%
280   \Test{360}{0}%
281   \Test{450}{90}%
282   \Test{540}{180}%
283   \Test{630}{270}%
284   \Test{720}{0}%
285   \Test{3600}{0}%
286   \Test{3690}{90}%
287   \Test{-90}{270}%
288   \Test{-180}{180}%
289   \Test{-270}{-90}%
290   \Test{-360}{0}%
291   \Test{-450}{270}%
292   \Test{540}{180}%
293   \Test{-630}{90}%
294   \Test{-720}{0}%
295   \Test{-3600}{0}%
296   \Test{-3690}{270}%
297   \Test{1}{error}%
298   \Test{-1}{error}%
299   \Test{123}{error}%
300 \end{qstest}
301 \end{document}
302 </test5>

```

3.3 Test for rotate

```

303 (*test6)
304 \NeedsTeXFormat{LaTeX2e}
305 \documentclass{article}
306 \usepackage{pdfscape}[2008/08/11]
307 \begin{document}
308 \section{Portrait page}
309 \begin{landscape}
310 \section{Landscape page}
311 Foo bar foo bar foo bar foo bar foo bar

```



```

312 foo bar foo bar foo bar foo bar foo bar.
313 \end{landscape}
314 \section{Portrait Section}
315 Foo bar
316 \begin{landscape}
317 \section{Again Landscape Section}
318 \newpage
319 \section{Second Page of Landscape Section}
320 \end{landscape}
321 \section{Second Last Portrait Page}
322 \newpage
323 \section{Last Portrait Page}
324 \end{document}
325 \end{test6}

326 (*result6)
327 /Page 1 /Rotate 0
328 /Page 2 /Rotate 90
329 /Page 3 /Rotate 0
330 /Page 4 /Rotate 90
331 /Page 5 /Rotate 90
332 /Page 6 /Rotate 0
333 /Page 7 /Rotate 0
334 \end{result6}

335 (*ExtractRotate)
336 /**
337  * ExtractRotate.java
338  *
339  * Copyright (C) 2007 by Heiko Oberdiek <heiko.oberdiek at gmail.com>
340  *
341  * Requires: PDFBox (http://www.pdfbox.org/)
342  *
343  * Syntax: java ExtractRotate <pdffile> <textfile>
344  *
345  * The <pdffile> is analyzed and for each page its rotation
346  * setting is printed in the <textfile>. Example:
347  *   /Page 1 /Rotate 0
348  *   /Page 2 /Rotate 90
349  */
350 import java.io.FileInputStream;
351 import java.io.FileOutputStream;
352 import org.pdfbox.pdfparser.PDFParser;
353 import org.pdfbox.pdmodel.PDDocument;
354 import org.pdfbox.pdmodel.PDDocumentCatalog;
355 import org.pdfbox.pdmodel.PDPage;
356
357 public class ExtractRotate {
358
359     public static void main(String[] args) {
360         try {
361             String infile = args[0];
362             String outfile = args[1];
363             FileOutputStream out = new FileOutputStream(outfile);
364             PDFParser parser =
365                 new PDFParser(new FileInputStream(infile));
366             parser.parse();
367             PDDocument document = parser.getPDDocument();
368             PDDocumentCatalog catalog = document.getDocumentCatalog();
369             int i = 0;
370             for (Object page: catalog.getAllPages()) {
371                 i++;
372                 out.write("/Page " + i + " " + "/Rotate "
373                     + ((PDPage)page).findRotation() + "\n");

```

```

374         }
375         document.close();
376         out.close();
377     }
378     catch (Exception e) {
379         e.printStackTrace();
380         System.exit(1);
381     }
382 }
383 }
384 </ExtractRotate>

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/pdflscape.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/pdflscape.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 \TeX :

```
tex pdflscape.dtx
```

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

¹<http://ftp.ctan.org/tex-archive/>

```

pdfscape.sty          → tex/latex/oberdiek/pdfscape.sty
pdfscape.pdf          → doc/latex/oberdiek/pdfscape.pdf
test/pdfscape-test1.tex → doc/latex/oberdiek/test/pdfscape-test1.tex
test/pdfscape-test2.tex → doc/latex/oberdiek/test/pdfscape-test2.tex
test/pdfscape-test3.tex → doc/latex/oberdiek/test/pdfscape-test3.tex
test/pdfscape-test4.tex → doc/latex/oberdiek/test/pdfscape-test4.tex
test/pdfscape-test5.tex → doc/latex/oberdiek/test/pdfscape-test5.tex
test/pdfscape-test6.tex → doc/latex/oberdiek/test/pdfscape-test6.tex
test/pdfscape-test6.txt → doc/latex/oberdiek/test/pdfscape-test6.txt
test/ExtractRotate.java → doc/latex/oberdiek/test/ExtractRotate.java
pdfscape.dtx          → source/latex/oberdiek/pdfscape.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`.

4.4 Refresh file name databases

If your $\text{T}_{\text{E}}\text{X}$ distribution (te $\text{T}_{\text{E}}\text{X}$, mik $\text{T}_{\text{E}}\text{X}$, ...) relies on file name databases, you must refresh these. For example, te $\text{T}_{\text{E}}\text{X}$ 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 pdfscape.pdf unpack_files output .
```

Unpacking with $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$. The `.dtx` chooses its action depending on the format:

plain $\text{T}_{\text{E}}\text{X}$: Run `docstrip` and extract the files.

$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$: Generate the documentation.

If you insist on using $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ for `docstrip` (really, `docstrip` does not need $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{pdfscape.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 pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$:

```

pdflatex pdfscape.dtx
makeindex -s gind.ist pdfscape.idx
pdflatex pdfscape.dtx
makeindex -s gind.ist pdfscape.idx
pdflatex pdfscape.dtx

```

5 Catalogue

The following XML file can be used as source for the [T_EX Catalogue](#). The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `pdfscape.xml`.

```
385 (*catalogue)
386 <?xml version='1.0' encoding='us-ascii'?>
387 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
388 <entry datestamp='$Date$' modifier='$Author$' id='pdfscape'>
389   <name>pdfscape</name>
390   <caption>Make landscape pages display as landscape.</caption>
391   <authorref id='auth:oberdiek' />
392   <copyright owner='Heiko Oberdiek' year='2001,2004,2006-2008' />
393   <license type='lppl1.3' />
394   <version number='0.10' />
395   <description>
396     The package adds PDF support to the landscape environment of
397     package <xref refid='lscope'>lscope</xref>, by setting the PDF
398     <tt>Rotate</tt> page attribute. Pages with this attribute will be
399     displayed in landscape orientation by conforming PDF viewers.
400     <p />
401     The package is part of the <xref refid='oberdiek'>oberdiek</xref> bundle.
402   </description>
403   <documentation details='Package documentation'
404     href='ctan:/macros/latex/contrib/oberdiek/pdfscape.pdf' />
405   <ctan file='true' path='/macros/latex/contrib/oberdiek/pdfscape.dtx' />
406   <miktex location='oberdiek' />
407   <texlive location='oberdiek' />
408   <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip' />
409 </entry>
410 </catalogue>
```

6 History

[2001/01/15 v0.1]

- First public version, published in [de.comp.text.tex](#):
“[Re: Querformat, pdfLaTeX und thumbpdf](#)”²

[2001/02/04 v0.2]

- Minor documentation update.
- CTAN.

[2004/05/11 v0.3]

- Support for `dvipdfm` added.

[2004/05/12 v0.4]

- Bug fix: support for multipage landscape environment for all drivers except for `pdftex`.

[2006/02/20 v0.5]

- DTX framework.
- LPPL 1.3

²Url: <http://groups.google.com/group/de.comp.text.tex/msg/e054c5795e52d2b8>

- Code is not changed.

[2006/04/24 v0.6]

- Bug fix: `\PLS@RemoveRotate` reinserted for `\PLS@Rotate`.
- Fix for `\PLS@RemoveRotate` (dvips/dvipdfm): `\PLS@EverhShi` hook is cleared.

[2007/04/11 v0.7]

- Line ends sanitized.

[2007/04/17 v0.8]

- Package `atbegshi` replaces `everyshi`.

[2007/10/21 v0.9]

- Driver detection for X_{TeX} added.
- Fix for rotation angles ≤ -360 or ≥ 360 .

[2008/08/11 v0.10]

- Code is not changed.
- URLs updated.

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