

The pdfscape package

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Abstract

Package `pdfscape` adds PDF support to the environment `landscape` of package `lscape` 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`)
- dvipdfm

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

1.4 Usage

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

```
\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}{lscap}%
32 \fi
33 \ifx\PLS@temp\@empty
34 \else
35   \expandafter\PassOptionsToPackage\expandafter{\PLS@temp}{lscap}%
36 \fi
37 \RequirePackage{lscap}
```

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{pdflscape}{Auto-detected driver: \PLS@temp}%
44   \fi
45   \ifx\PLS@driver\PLS@temp
46   \else
47     \PackageError{pdflscape}{%
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 `/Rotate` 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
```

1. Check and validate the argument.

```
184   \PLS@CheckAngle{#1}%
185   \expandafter\endgroup
```

```

2. Remove previous \Rotate entry.
186 \expandafter\PLS@RemoveRotate
3. Add /Rotate entry.
187 \expandafter\PLS@AddRotate\expandafter{\the\count@}%
188 }

\PLS@CheckAngle Validates the rotation angle.
The result is stored in the count register \count@.
Driver independent.
189 \def\PLS@CheckAngle#1{%
Nothing means zero:
190 \ifx\#1\%
191 \count@=0 %
192 \else
193 \count@=#1\relax
194 \fi
Normalize to interval  $-360 < \text{\count@} < 360$ .
195 \@whilenum\count@>359\do{\advance\count@ -360 }%
196 \@whilenum\count@<-359\do{\advance\count@ 360 }%
Check values: 0, +/-90, +/-180, +/-270
197 \ifnum 1=0\ifnum\count@=0 \else
198 \ifnum\count@=90 \else
199 \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 \end{package}

```

3 Test

3.1 Driver detection tests

```

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

219 \begin{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{pdflscape}[2008/08/11]
229 </test1>

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

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

238 <*test4>
239 \def\ExpectDriver{dvips}
240 \usepackage[dvipsone]{graphics}
241 \usepackage{pdflscape}[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{pdflscape}[2008/08/11]
258 \begin{document}
259 \begin{qstest}{checkangle}{checkangle}
260   \makeatletter
261   \def\Result{%
262     \def\ResultString{\the\count0}%
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{pdflscape}[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
312 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 </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 </result6>

```

```

335 <*ExtractRotate>
336 /**
337  * ExtractRotate.java
338  *
339  * Copyright (C) 2007 by Heiko Oberdiek <heiko.oberdiek at googlemail.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.FileWriter;
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             FileWriter out = new FileWriter(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:

¹[ftp://ftp.ctan.org/tex-archive/](http://ftp.ctan.org/tex-archive/)

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

[CTAN:macros/latex/contrib/oberdiek/pdfscape.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 pdfscape.dtx
```

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

<code>pdfscape.sty</code>	\rightarrow <code>tex/latex/oberdiek/pdfscape.sty</code>
<code>pdfscape.pdf</code>	\rightarrow <code>doc/latex/oberdiek/pdfscape.pdf</code>
<code>test/pdfscape-test1.tex</code>	\rightarrow <code>doc/latex/oberdiek/test/pdfscape-test1.tex</code>
<code>test/pdfscape-test2.tex</code>	\rightarrow <code>doc/latex/oberdiek/test/pdfscape-test2.tex</code>
<code>test/pdfscape-test3.tex</code>	\rightarrow <code>doc/latex/oberdiek/test/pdfscape-test3.tex</code>
<code>test/pdfscape-test4.tex</code>	\rightarrow <code>doc/latex/oberdiek/test/pdfscape-test4.tex</code>
<code>test/pdfscape-test5.tex</code>	\rightarrow <code>doc/latex/oberdiek/test/pdfscape-test5.tex</code>
<code>test/pdfscape-test6.tex</code>	\rightarrow <code>doc/latex/oberdiek/test/pdfscape-test6.tex</code>
<code>test/pdfscape-test6.txt</code>	\rightarrow <code>doc/latex/oberdiek/test/pdfscape-test6.txt</code>
<code>test/ExtractRotate.java</code>	\rightarrow <code>doc/latex/oberdiek/test/ExtractRotate.java</code>
<code>pdfscape.dtx</code>	\rightarrow <code>source/latex/oberdiek/pdfscape.dtx</code>

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 \TeX distribution (`te \TeX` , `mik \TeX` , ...) relies on file name databases, you must refresh these. For example, `te \TeX` 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 \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{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 \LaTeX` :

```
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 [\$\text{\TeX}\$ 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='lpl1.3'>
394         <version number='0.10'>
395       <description>
396         The package adds PDF support to the landscape environment of
397         package <xref refid='lscape'>lscape</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/pdflscape.pdf' />
405 <ctan file='true' path='/macros/latex/contrib/oberdiek/pdflscape.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
- 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`.

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

[2007/10/21 v0.9]

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

[2008/08/11 v0.10]

- Code is not changed.
- URLs updated.

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