

# 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`.

## Contents

<b>1</b>	<b>Documentation</b>	<b>2</b>
1.1	Supported drivers	2
1.2	Caveat	2
1.3	Requirements	2
1.4	Usage	2
<b>2</b>	<b>Implementation</b>	<b>2</b>
2.1	Package identification	2
2.2	Driver options	2
2.3	Autodetection of driver	3
2.3.1	Driver <code>pdftex</code>	3
2.3.2	Driver <code>xetex</code>	3
2.3.3	Detect driver based on <code>\Gin@driver</code>	4
2.3.4	Driver <code>dvips</code>	4
2.4	Driver implementation	4
2.4.1	<code>pdfTeX</code>	5
2.4.2	PostScript driver	5
2.4.3	Driver <code>dvipdfm</code>	6
2.5	Driver independent stuff	6
<b>3</b>	<b>Test</b>	<b>7</b>
3.1	Driver detection tests	7
3.2	Test for <code>\PLS@CheckAngle</code>	7
3.3	Test for rotate	8
<b>4</b>	<b>Installation</b>	<b>10</b>
4.1	Download	10
4.2	Bundle installation	10
4.3	Package installation	10
4.4	Refresh file name databases	11
4.5	Some details for the interested	11
<b>5</b>	<b>Catalogue</b>	<b>12</b>

<b>6 History</b>	<b>12</b>
[2001/01/15 v0.1]	12
[2001/02/04 v0.2]	12
[2004/05/11 v0.3]	12
[2004/05/12 v0.4]	12
[2006/02/20 v0.5]	12
[2006/04/24 v0.6]	13
[2007/04/11 v0.7]	13
[2007/04/17 v0.8]	13
[2007/10/21 v0.9]	13
[2008/08/11 v0.10]	13
<b>7 Index</b>	<b>13</b>

## 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}{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
```

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 </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{dvipdfmx}{pdfscape}[2008/08/11]
237 </test3>

238 <*test4>
239 \def\ExpectDriver{dvips}
240 \usepackage{dvipone}{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       \PLSCheckAngle{#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 \begin{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 <pdf file> <text file>
344 *
345 * The <pdf file> is analyzed and for each page its rotation
346 * setting is printed in the <text file>. 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 CTAN<sup>1</sup>:

[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 T<sub>E</sub>X 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 T<sub>E</sub>X:

```
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):

---

<sup>1</sup><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  $\text{\TeX}$  distribution (te $\text{\TeX}$ , mik $\text{\TeX}$ , ...) relies on file name databases, you must refresh these. For example, te $\text{\TeX}$  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  $\text{\LaTeX}$ .** The `.dtx` chooses its action depending on the format:

**plain  $\text{\TeX}$ :** Run `docstrip` and extract the files.

**$\text{\LaTeX}$ :** Generate the documentation.

If you insist on using  $\text{\LaTeX}$  for `docstrip` (really, `docstrip` does not need  $\text{\LaTeX}$ ), 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 $\text{\LaTeX}$ :

```

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 [T<sub>E</sub>X 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 <?xml version='1.0' encoding='us-ascii'?>
386 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
387 <entry datestamp='$Date$' modifier='$Author$' id='pdfscape'>
388   <name>pdfscape</name>
389   <caption>Make landscape pages display as landscape.</caption>
390   <authorref id='auth:oberdiek'></authorref>
391   <copyright owner='Heiko Oberdiek' year='2001,2004,2006-2008'></copyright>
392   <license type='lppl1.3'></license>
393   <version number='0.10'></version number>
394   <description>
395     The package adds PDF support to the landscape environment of
396     package <xref refid='lscape'>lscape</xref>, by setting the PDF
397     <tt>Rotate</tt> page attribute. Pages with this attribute will be
398     displayed in landscape orientation by conforming PDF viewers.
399   </description>
400   The package is part of the <xref refid='oberdiek'>oberdiek</xref> bundle.
401   </description>
402   <documentation details='Package documentation'
403     href='ctan:/macros/latex/contrib/oberdiek/pdfscape.pdf'></documentation details>
404   <ctan file='true' path='/macros/latex/contrib/oberdiek/pdfscape.dtx'></ctan file>
405   <miktex location='oberdiek'></miktex location>
406   <texlive location='oberdiek'></texlive location>
407   <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'></install path>
408 </entry>
409 </catalogue>
```

## 6 History

### [2001/01/15 v0.1]

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

### [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

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<sup>2</sup>Url: <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  $\text{X}\text{\TeX}$  added.
- Fix for rotation angles  $\leq -360$  or  $\geq 360$ .

[2008/08/11 v0.10]

- Code is not changed.
- URLs updated.

## 7 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.

Symbols	D
<code>\@ehc</code> ..... 50, 68, 112, 207	<code>\DeclareOption</code> ..... 8, 21
<code>\@empty</code> . 5, 6, 20, 22, 29, 33, 41, 57, 73, 90, 96, 109, 145, 160, 166, 178	<code>\do</code> ..... 195, 196
<code>\@nil</code> ..... 129, 132, 137	<code>\documentclass</code> ..... 214, 253, 305
<code>\@undefined</code> ..... 92	E
<code>\@whilenum</code> ..... 195, 196	<code>\end</code> .. 248, 249, 300, 301, 313, 320, 324
<code>\@</code> ..... 134, 190	<code>\endlandscape</code> ..... 181
A	<code>\Expect</code> ..... 247, 273
<code>\advance</code> ..... 195, 196	<code>\ExpectDriver</code> ..... ..... 222, 226, 231, 235, 239, 247
<code>\afterassignment</code> ..... 136	G
<code>\AtBeginShipout</code> ..... 144, 165	<code>\g@addto@macro</code> ..... 180, 181
<code>\AtBeginShipoutBox</code> 150, 155, 171, 173	<code>\Gin@driver</code> ..... 77
B	<code>\Gin@PS@raw</code> ..... 92, 94, 96, 151
<code>\begin</code> . 244, 245, 258, 259, 307, 309, 316	I
<code>\box</code> ..... 155, 173	<code>\ifnum</code> ..... 92, 117, 147, 168, 197, 198, 199, 200, 201, 202, 203
C	<code>\ifpdf</code> ..... 40, 221
<code>\count</code> ..... 137	<code>\ifx</code> ..... 22, 29, 33, 41, 45, 57, 63, 73, 77, 90, 92, 94, 96, 109, 115, 134, 142, 163, 190
<code>\count@</code> ..... 187, 191, 193, 195, 196, 197, 198, 199, 200, 201, 202, 203, 206, 208, 262	<code>\ifxetex</code> ..... 56, 225
<code>\CurrentOption</code> ..... 9, 23, 25	<code>\IncludeTests</code> ..... 216, 255

<b>L</b>	
<code>\landscape</code> .....	180
<code>\LogTests</code> .....	217, 256
<b>M</b>	
<code>\makeatletter</code> .....	246, 260
<code>\MessageBreak</code> .....	48, 66
<b>N</b>	
<code>\n</code> .....	373
<code>\NeedsTeXFormat</code> .....	2, 213, 252, 304
<code>\newpage</code> .....	318, 322
<b>P</b>	
<code>\PackageError</code> ....	47, 65, 110, 205, 264
<code>\PackageInfo</code> .....	43, 59, 79, 104
<code>\PassOptionsToPackage</code> .....	31, 35
<code>\pdfpageattr</code> ..	119, 120, 127, 129, 133
<code>\PLS@@RemoveRotate</code> ....	128, 132, 136
<code>\PLS@AddRotate</code> ....	116, 146, 167, 187
<code>\PLS@AtBeginShipout</code> .....	144,
	145, 149, 160, 165, 166, 170, 178
<code>\PLS@CheckAngle</code> .....	184, 189, 271
<code>\PLS@driver</code> .....	6, 10, 41,
	42, 45, 51, 57, 58, 63, 69, 73, 78,
	80, 90, 103, 109, 115, 142, 163, 247
<code>\PLS@option</code> .....	5, 9, 29, 31, 48, 66
<code>\PLS@RemoveRotate</code> .	125, 160, 178, 186
<code>\PLS@Rotate</code> .....	180, 181, 182
<code>\PLS@temp</code> 7, 13, 14, 15, 16, 17, 18, 19,	
	20, 22, 23, 25, 33, 35, 39, 42, 43,
	45, 51, 55, 58, 60, 63, 69, 72, 75,
	77, 85, 86, 87, 88, 89, 91, 103,
	105, 114, 115, 141, 142, 162, 163
<code>\ProcessOptions</code> .....	28
<code>\ProvidesPackage</code> .....	3
<b>R</b>	
<code>\RequirePackage</code> ..	37, 38, 54, 143, 164
<code>\Result</code> .....	261, 265, 272
<code>\ResultString</code> .....	262, 266, 273
<b>S</b>	
<code>\section</code> 308, 310, 314, 317, 319, 321, 323	
<code>\setbox</code> .....	150, 171
<code>\space</code> .....	60, 80, 102, 105, 206
<code>\special</code> .....	172
<b>T</b>	
<code>\Test</code> ..	269, 276, 277, 278, 279, 280,
	281, 282, 283, 284, 285, 286,
	287, 288, 289, 290, 291, 292,
	293, 294, 295, 296, 297, 298, 299
<code>\the</code> .....	120, 129, 133, 187, 206, 262
<b>U</b>	
<code>\usepackage</code> ...	215, 220, 224, 228,
	232, 236, 240, 241, 254, 257, 306
<b>V</b>	
<code>\vbox</code> .....	150, 171