

# 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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\*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

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## 1 Documentation

### 1.1 Supported drivers

- pdftex,luatex
- 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,luatex`.

### 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 [2016/05/14 v0.11 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{luatex}{pdftex}
15 \PLS@temp{dvips}{dvips}
16 \PLS@temp{dvipsone}{dvips}
17 \PLS@temp{pctexps}{dvips}
18 \PLS@temp{dvipdfm}{dvipdfm}
19 \PLS@temp{dvipdfmx}{dvipdfm}
20 \PLS@temp{xetex}{dvipdfm}
21 \let\PLS@temp\@empty
22 \DeclareOption*{%
23   \ifx\PLS@temp\@empty
24     \let\PLS@temp\CurrentOption
25   \else
26     \edef\PLS@temp{\PLS@temp,\CurrentOption}%
27   \fi
28 }
29 \ProcessOptions*
30 \ifx\PLS@option\@empty
31 \else
32   \expandafter\PassOptionsToPackage\expandafter{\PLS@option}{lscap}%
33 \fi
34 \ifx\PLS@temp\@empty
35 \else
36   \expandafter\PassOptionsToPackage\expandafter{\PLS@temp}{lscap}%
37 \fi
38 \RequirePackage{lscap}

```

## 2.3 Autodetection of driver

### 2.3.1 Driver pdftex

```

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

```

### 2.3.2 Driver xetex

```

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

```

```

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

```

### 2.3.3 Detect driver based on \Gin@driver

```

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

```

### 2.3.4 Driver dvips

```

91 \ifx\PLS@driver\@empty
92 \def\PLS@temp{dvips}%
93 \ifnum 1=0\ifx\Gin@PS@raw\@undefined
94 \else
95 \ifx\Gin@PS@raw\relax
96 \else
97 \ifx\Gin@PS@raw\@empty
98 \else
99 1%
100 \fi
101 \fi
102 \fi
103 \space
104 \let\PLS@driver\PLS@temp
105 \PackageInfo{pdfscape}{%
106   Auto-detected driver: \PLS@temp\space(PostScript)%
107 }%
108 \fi
109 \fi

110 \ifx\PLS@driver\@empty
111 \PackageError{pdfscape}{%
112   Neither pdfTeX, PostScript, nor dvipdfm driver found%
113 } \@ehc
114 \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.

luatex compat.

```

115 \ifx\pdfpageattr\@undefined
116 \ifx\pdfvariable\@undefined\else
117 \protected\edef\pdfpageattr{\pdfvariable pageattr}
118 \fi
119 \fi

120 \def\PLS@temp{pdftex}
121 \ifx\PLS@temp\PLS@driver
122 \def\PLS@AddRotate#1{%
123 \ifnum#1=0 %

```

Already the default.

```

124 \else
125 \global\pdfpageattr\expandafter{%
126 \the\pdfpageattr
127 /Rotate #1%
128 }%
129 \fi
130 }%

```

Removes a `/Rotate` entry.

```

131 \def\PLS@RemoveRotate{%
132 \begingroup
133 \global\pdfpageattr\expandafter{\expandafter}%
134 \expandafter\PLS@@RemoveRotate
135 \the\pdfpageattr /Rotate\@nil
136 \endgroup
137 }%
138 \def\PLS@@RemoveRotate#1/Rotate#2\@nil{%

```

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

```

139 \global\pdfpageattr\expandafter{\the\pdfpageattr#1}%
140 \ifx\#2\%

```

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

```

141 \else

```

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

```

142 \afterassignment\PLS@@RemoveRotate
143 \count0=#2\@nil
144 \fi
145 }%
146 \fi

```

### 2.4.2 PostScript driver

```

147 \def\PLS@temp{dvips}
148 \ifx\PLS@temp\PLS@driver
149 \RequirePackage{atbegshi}%
150 \AtBeginShipout{\PLS@AtBeginShipout}%
151 \let\PLS@AtBeginShipout\@empty
152 \def\PLS@AddRotate#1{%
153 \ifnum#1=0 %
154 \else
155 \def\PLS@AtBeginShipout{%
156 \global\setbox\AtBeginShipoutBox\vbox{%

```

```

157      \Gin@PS@raw{%
158      [{ThisPage}\string<\string</Rotate #1\string>\string>%
159      /PUT pdfmark%
160      }%
161      \box\AtBeginShipoutBox
162      }%
163      }%
164      \fi
165      }%
166      \def\PLS@RemoveRotate{\let\PLS@AtBeginShipout\@empty}%
167      \fi

```

### 2.4.3 Driver dvipdfm

```

168 \def\PLS@temp{dvipdfm}
169 \ifx\PLS@temp\PLS@driver
170   \RequirePackage{atbegshi}%
171   \AtBeginShipout{\PLS@AtBeginShipout}%
172   \let\PLS@AtBeginShipout\@empty
173   \def\PLS@AddRotate#1{%
174     \ifnum#1=0 %
175     \else
176       \def\PLS@AtBeginShipout{%
177         \global\setbox\AtBeginShipoutBox\vbox{%
178           \special{pdf: put @thispage <</Rotate #1>>}%
179           \box\AtBeginShipoutBox
180         }%
181       }%
182     \fi
183   }%
184   \def\PLS@RemoveRotate{\let\PLS@AtBeginShipout\@empty}%
185   \fi

```

## 2.5 Driver independent stuff

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

```

186 \g@addto@macro{\landscape}{\PLS@Rotate{90}}
187 \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.

```

188 \def\PLS@Rotate#1{%
189   \begingroup
1. Check and validate the argument.
190   \PLS@CheckAngle{#1}%
191   \expandafter\endgroup
2. Remove previous \Rotate entry.
192   \expandafter\PLS@RemoveRotate
3. Add /Rotate entry.
193   \expandafter\PLS@AddRotate\expandafter{\the\count@}%
194 }

```

`\PLS@CheckAngle` Validates the rotation angle.  
The result is stored in the count register `\count@`.  
Driver independent.

```

195 \def\PLS@CheckAngle#1{%
Nothing means zero:
196   \ifx\\#1\\%
197     \count@=0 %
198   \else

```

```

199 \count@=#1\relax
200 \fi
Normalize to interval  $-360 < \text{\count@} < 360$ .
201 \@whilenum\count@>359\do{\advance\count@ -360 }%
202 \@whilenum\count@<-359\do{\advance\count@ 360 }%
Check values: 0, +/-90, +/-180, +/-270
203 \ifnum 1=0\ifnum\count@=0 \else
204     \ifnum\count@=90 \else
205     \ifnum\count@=-90 \else
206     \ifnum\count@=180 \else
207     \ifnum\count@=-180 \else
208     \ifnum\count@=270 \else
209     \ifnum\count@=-270 \else
210     1\fi\fi\fi\fi\fi\fi\relax
211 \PackageError{pdfscape}{%
212     Invalid value \the\count@\space for /Rotate%
213 }{\@ehc
214 \count@=0 %
215 \fi
216 }
217 (/package)

```

### 3 Test

#### 3.1 Driver detection tests

```

218 (*test0)
219 \NeedsTeXFormat{LaTeX2e}
220 \documentclass{minimal}
221 \usepackage{qstest}
222 \IncludeTests{*}
223 \LogTests{log}{*}{*}
224 (/test0)

225 (*test1)
226 \usepackage{ifpdf}
227 \ifpdf
228 \def\ExpectDriver{pdftex}%
229 \fi
230 \usepackage{ifxetex}%
231 \ifxetex
232 \def\ExpectDriver{dvipdfm}%
233 \fi
234 \usepackage{pdfscape}[2016/05/14]
235 (/test1)

236 (*test2)
237 \def\ExpectDriver{pdftex}
238 \usepackage[pdftex]{pdfscape}[2016/05/14]
239 (/test2)

240 (*test3)
241 \def\ExpectDriver{dvipdfm}
242 \usepackage[dvipdfmx]{pdfscape}[2016/05/14]
243 (/test3)

244 (*test4)
245 \def\ExpectDriver{dvips}
246 \usepackage[dvipsonel]{graphics}
247 \usepackage{pdfscape}[2016/05/14]
248 (/test4)

249 (*test0)

```

```

250 \begin{document}
251 \begin{qstest}{driver}{driver}
252   \makeatletter
253   \Expect*{\PLS@driver}*{\ExpectDriver}%
254 \end{qstest}
255 \end{document}
256 </test0>

```

### 3.2 Test for \PLS@CheckAngle

```

257 (*test5)
258 \NeedsTeXFormat{LaTeX2e}
259 \documentclass{minimal}
260 \usepackage{qstest}
261 \IncludeTests{*}
262 \LogTests{log}{*}{*}
263 \usepackage{pdfscape}[2016/05/14]
264 \begin{document}
265 \begin{qstest}{checkangle}{checkangle}
266   \makeatletter
267   \def\Result{%
268     \def\ResultString{\the\count@}%
269   }%
270   \def\PackageError#1#2#3{%
271     \def\Result{%
272       \def\ResultString{error}%
273     }%
274   }%
275   \def\Test#1#2{%
276     \begingroup
277       \PLS@CheckAngle{#1}%
278       \Result
279       \Expect*{\ResultString}{#2}%
280     \endgroup
281   }%
282   \Test{0}{0}%
283   \Test{90}{90}%
284   \Test{180}{180}%
285   \Test{270}{270}%
286   \Test{360}{0}%
287   \Test{450}{90}%
288   \Test{540}{180}%
289   \Test{630}{270}%
290   \Test{720}{0}%
291   \Test{3600}{0}%
292   \Test{3690}{90}%
293   \Test{-90}{270}%
294   \Test{-180}{180}%
295   \Test{-270}{-90}%
296   \Test{-360}{0}%
297   \Test{-450}{270}%
298   \Test{540}{180}%
299   \Test{-630}{90}%
300   \Test{-720}{0}%
301   \Test{-3600}{0}%
302   \Test{-3690}{270}%
303   \Test{1}{error}%
304   \Test{-1}{error}%
305   \Test{123}{error}%
306 \end{qstest}
307 \end{document}
308 </test5>

```



### 3.3 Test for rotate

```
309 (*test6)
310 \NeedsTeXFormat{LaTeX2e}
311 \documentclass{article}
312 \usepackage{pdflscape}[2016/05/14]
313 \begin{document}
314 \section{Portrait page}
315 \begin{landscape}
316 \section{Landscape page}
317 Foo bar foo bar foo bar foo bar foo bar
318 foo bar foo bar foo bar foo bar foo bar.
319 \end{landscape}
320 \section{Portrait Section}
321 Foo bar
322 \begin{landscape}
323 \section{Again Landscape Section}
324 \newpage
325 \section{Second Page of Landscape Section}
326 \end{landscape}
327 \section{Second Last Portrait Page}
328 \newpage
329 \section{Last Portrait Page}
330 \end{document}
331 \end{test6}

332 (*result6)
333 /Page 1 /Rotate 0
334 /Page 2 /Rotate 90
335 /Page 3 /Rotate 0
336 /Page 4 /Rotate 90
337 /Page 5 /Rotate 90
338 /Page 6 /Rotate 0
339 /Page 7 /Rotate 0
340 \end{result6}

341 (*ExtractRotate)
342 /**
343  * ExtractRotate.java
344  *
345  * Copyright (C) 2007 by Heiko Oberdiek <heiko.oberdiek at gmail.com>
346  *
347  * Requires: PDFBox (http://www.pdfbox.org/)
348  *
349  * Syntax: java ExtractRotate <pdffile> <textfile>
350  *
351  * The <pdffile> is analyzed and for each page its rotation
352  * setting is printed in the <textfile>. Example:
353  *   /Page 1 /Rotate 0
354  *   /Page 2 /Rotate 90
355  */
356 import java.io.FileInputStream;
357 import java.io.FileWriter;
358 import org.pdfbox.pdfparser.PDFParser;
359 import org.pdfbox.pdmodel.PDDocument;
360 import org.pdfbox.pdmodel.PDDocumentCatalog;
361 import org.pdfbox.pdmodel.PDPage;
362
363 public class ExtractRotate {
364
365     public static void main(String[] args) {
366         try {
367             String infile = args[0];
368             String outfile = args[1];
```

```

369     FileWriter out = new FileWriter(outfile);
370     PDFParser parser =
371         new PDFParser(new FileInputStream(infile));
372     parser.parse();
373     PDDocument document = parser.getPDDocument();
374     PDDocumentCatalog catalog = document.getDocumentCatalog();
375     int i = 0;
376     for (Object page: catalog.getAllPages()) {
377         i++;
378         out.write("/Page " + i + " " + "/Rotate "
379             + ((PDPage)page).findRotation() + "\n");
380     }
381     document.close();
382     out.close();
383 }
384 catch (Exception e) {
385     e.printStackTrace();
386     System.exit(1);
387 }
388 }
389 }
390 </ExtractRotate>

```

## 4 Installation

### 4.1 Download

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

[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  $\text{\TeX}$  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  $\text{\TeX}$ :

```
tex pdflscape.dtx
```

---

<sup>1</sup><http://ctan.org/pkg/pdflscape>

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

```
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 (`teTEX`, `mikTEX`, ...) relies on file name databases, you must refresh these. For example, `teTEX` users run `texhash` or `mktextlsr`.

## 4.5 Some details for the interested

**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 `pdfLATEX`:

```
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`.

```
391 <(*catalogue>
392 <?xml version='1.0' encoding='us-ascii'?>
```

```

393 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
394 <entry datestamp='$Date$' modifier='$Author$' id='pdfscape'>
395   <name>pdfscape</name>
396   <caption>Make landscape pages display as landscape.</caption>
397   <authorref id='auth:oberdiek' />
398   <copyright owner='Heiko Oberdiek' year='2001,2004,2006-2008' />
399   <license type='lppl1.3' />
400   <version number='0.11' />
401   <description>
402     The package adds PDF support to the landscape environment of
403     package <xref refid='lscape'>lscape</xref>, by setting the PDF
404     <tt>/Rotate</tt> page attribute. Pages with this attribute will be
405     displayed in landscape orientation by conforming PDF viewers.
406   <p/>
407   The package is part of the <xref refid='oberdiek'>oberdiek</xref> bundle.
408 </description>
409 <documentation details='Package documentation'
410   href='ctan:/macros/latex/contrib/oberdiek/pdfscape.pdf' />
411 <ctan file='true' path='/macros/latex/contrib/oberdiek/pdfscape.dtx' />
412 <miktex location='oberdiek' />
413 <texlive location='oberdiek' />
414 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip' />
415 </entry>
416 </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
- 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.

---

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

[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 Xe<sub>La</sub>TeX added.
- Fix for rotation angles  $\leq -360$  or  $\geq 360$ .

[2008/08/11 v0.10]

- Code is not changed.
- URLs updated.

[2016/05/14 v0.11]

- LuaTeX Compatibility

## 7 Index

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