

The `\lscape` package*

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This file is maintained by the L^AT_EX Project team.
Bug reports can be opened (category `graphics`) at
<https://latex-project.org/bugs.html>.

All text, within the `landscape` environment is rotated through 90 degrees. The environment may span several pages. It works well with, and was originally created for, use with `longtable` to produce long wide tables.

All the work is done by the `graphics` package, the trick is to call it at the right place in the output routine to rotate the current page before the page head and foot are added.

```
1 \begin{package}
```

Here is what Scott Pakin wrote about the `pdftex` option:

I've made a minor improvement to `lscape.dtx` that I'd like to share with the world. My addition makes `lscape` rotate the PDF "paper" – not just the text on the page – when given the "`pdftex`" option. (Naturally, this works only with pdflaTeX.) The result is that the text is viewable online without the reader having to rotate his/her head 90 degrees. The document still prints normally.

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```

2 \newif\ifGin@pdftex
3 \Gin@pdftexfalse
4 \DeclareOption{pdftex}{%
5   \PassOptionsToPackage{\CurrentOption{graphics}}
6   \Gin@pdftexttrue
7 }
8 \DeclareOption*{\PassOptionsToPackage{\CurrentOption{graphics}}}
9 \ProcessOptions
10 \RequirePackage{graphics}
11 \let\LS@makecol=\@makecol
12 \let\LS@makefcolumn=\@makefcolumn
13 \def\LS@rot{%
14   \setbox\@outputbox\vbox{\hbox{\vrotate{90}{\box\@outputbox}}}}

```

First set up the page size for landscape.

```

15 \def\landscape{%
16   \clearpage
17   \begin{group}
18     \vsize=\textwidth
19     \hsize=\textheight
20     \linewidth=\hsize
21     \columnwidth=\hsize
22     \colroom=\vsize
23     \textheight=\vsize
24     \colht=\vsize

```

Rotate the page body (text and float pages).

```

25 \def\@makecol{\LS@makecol\LS@rot}%
26 \def\@makefcolumn{\LS@makefcolumn\LS@rot}%

```

Restore everything. This is where the pdftex option makes a difference.

```

27 \def\endlandscape{%
28   \ifGin@pdftex

```

```
29      \pdfpageattr{/Rotate 90}
30      \fi
31      \clearpage
32      \endgroup
33      \global\@colht=\textheight
34      \global\vsizetextheight
35      \global\@colroom=\textheight}
36 //package>
```