

# The **lscape** package\*

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This file is maintained by the L<sup>A</sup>T<sub>E</sub>X Project team.  
Bug reports can be opened (category **graphics**) at  
<http://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 (\*package)

Here is what Scott Pakin wrote about the **pdfutex** 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 "pdfutex" 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@pdftextrue
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{\rotatebox{90}{\box\@outputbox}}}}
15 \def\landscape{%
16 \clearpage
17 \begingroup
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#1{\LS@makefcolumn{#1}\LS@rot}}
  Restore everything. This is where the pdftex option makes a difference.
27 \def\endlandscape{%
28 \ifGin@pdftex

```

First set up the page size for landscape.

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