

# The addlines package

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This is a small package that defines a user command for adding lines to the current and facing page. This is intended to be used in the final typesetting process of a manuscript for running pages long or short in order to fit their material better (starting a paragraph on the next page, for example).

The `\addlines` command adds enough vertical space to the current text block to fit in one more line of text. An optional argument specifies the number of lines to add; negative numbers *remove* space, and fractional numbers are fine, too. For example:

<code>\addlines</code>	<i>adds one line to the current page height</i>
<code>\addlines[2]</code>	<i>adds two lines to the current page</i>
<code>\addlines[-1]</code>	<i>subtracts one line from the current page height</i>

The command should be placed somewhere near the middle of the page that it is intending to affect. Too near the top and it may not be seen in time ( $\LaTeX$ 's page breaking routine is asynchronous).

For syntactic sugar, `\addline` is a synonym for `\addlines`, and `\removeline(s)` is the opposite of `\addlines`.

As mentioned in the introduction, for a double-sided document (*e.g.*, if the class option `[twoside]` is in effect) extra height must be added to *both pages* on a spread for things to look good. If `\addlines` is called on an even page (*i.e.*, a *verso* or left-side page) it adds the same space to its facing page. Conversely, on an odd page (*i.e.*, a *recto* or right-side page) an error is produced, but the space is still added.

## Notes

This command is a wrapper around the more basic command `\enlargethispage`. It uses the `chnpage` package to check if the command is called on an even page, and the `afterpage` package to add material to a facing odd page if necessary.

The `chnpage` mechanism for detecting page number oddness may require more than a single  $\LaTeX$  compilation to stabilise, so false positives may occur. If `memoir` is used, its `\strictpagechecktrue` command is executed.

afterpage may conflict poorly with other packages that modify L<sup>A</sup>T<sub>E</sub>X's output routine (*i.e.*, the algorithm used to chunk the document into discrete pages).

Uses  $\epsilon$ -T<sub>E</sub>X because I'm lazy.

## Example document

```
1 <*example>
2 \documentclass[twoside]{article}
3 \usepackage[a5paper,width=30em,lines=30]{geometry}
4 \usepackage{lipsum,addlines}
5 \begin{document}
6 \lipsum[1-5]
7
8 \emph{Here is the command used correctly on an even page.}
9 \addlines
10
11 \lipsum[6-15]
12
13 \emph{Here is the command used erroneously on an odd page.}
14 \addlines
15 \end{document}
16 </example>
```

## File I

# addlines implementation

```
1 \ProvidesPackage{addlines}
2 [2007/10/13 v0.1 Add/remove lines from a page]

   Packages:
3 \RequirePackage{etex,afterpage,chngepage}

   Detecting memoir for chngepage incompatibilities.
4 \newif\ifpl@memoir
5 \def\ifmemoir@tf{%
6   \ifpl@memoir\expandafter\@firstoftwo
7   \else\expandafter\@secondoftwo\fi}
8 \@ifclassloaded{memoir}{\pl@memoirtrue}{\pl@memoirfalse}

\addlines [Number of lines to add to the text height]
9 \newcommand\addlines[1][1]{%
10  \enlargethispage{#1\baselineskip}%
11  \if@twoside
12    \checkoddpage
13    \ifmemoir@tf\ifoddpage\ifcoddpage
14      \PackageError{addlines}
15        {You're adding lines to the wrong page}
16        {Extra lines need to be added to both sides of a doublepage spread.^^J
17        This error might clear up after a recompile, though.}%
18    \else
19      \afterpage{\enlargethispage{#1\baselineskip}}%
20    \fi
21  \fi}
22 \let\addline\addlines

\removelines [Number of lines to remove from the text height] Works with negative numbers
through the miracles of  $\epsilon$ -TeX.
23 \newcommand\removelines[1][1]{%
24  \addlines[\numexpr -1*(#1) \relax]}
25 \let\removevline\removelines

   Finally, we don't want sloppy page number checking if we're using memoir:
26 \ifpl@memoir
27   \strictpagechecktrue
28 \fi
```