

The wrapstuff Package

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1. Basic Usage

The `wrapstuff` package provides an alternative way for arranging the layout of images and text. The `wrapstuff` package tries to combine and extend the functionality of packages such as `pincpar`, `floatflt`, `wrapfig`, `cutwin` or `wrapfig2`. This package is compatible with the `caption` package, the `float` package and the `floatrow` package and aims at being compatible with (display) math environments as well as the various \LaTeX environments for typesetting tables, which it can wrap properly.

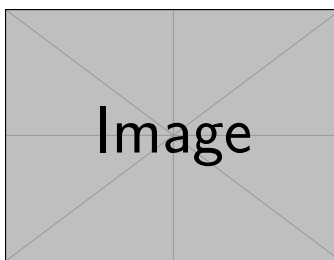
The implementation of the `wrapstuff` package relies on the paragraph hook management provided by \LaTeX 2021-06-01 or later. It requires \LaTeX 2022-04-10 or later.

```
wrapstuff \begin{wrapstuff}[\langle options \rangle]
          \langle contents \rangle
          \end{wrapstuff}
          \langle surrounding text \rangle
```

The `wrapstuff` package only provides the `wrapstuff` environment, which will let the following paragraph wrap around its contents. For example:

```
\begin{wrapstuff}[c,top=1]
  \includegraphics[width=12em]{example-image.pdf}
\end{wrapstuff}
\EXAMPLE \EXAMPLE \EXAMPLE \EXAMPLE \EXAMPLE \par
```

What power art thou, who, from below, Hast made me rise, unwillingly and slow, From beds of everlasting snow. What power art thou, who, from below, Hast made me rise, unwillingly and slow, From beds of everlasting snow. What power art thou, who, from below, Hast made me rise, unwillingly and slow, From beds of everlasting snow. What power art thou, who, from below, Hast made me rise, unwillingly and slow, From beds of everlasting snow. What power art thou, who, from below, Hast made me rise, unwillingly and slow, From beds of everlasting snow.



```
\wrapstuffset \wrapstuffset {\langle option list \rangle}
```

Options to the `wrapstuff` package can be set when loading the package with the `\usepackage` macro as well as later using `\wrapstuffset`. The following options are available:

`top` `top = \langle non-negative integer \rangle`

`\langle n \rangle` This option sets the line number where the wrapping should start. The option can take any non-negative integer `\langle n \rangle`. The initial value is 0.

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[†]rev. 3be38c0.

`width` `width = <dimension>`

This option sets the width of the contents. The initial value is 0pt, denoting the natural width of the contents of the wrapstuff environment. Using the initial value of 0pt, the contents of the wrapstuff environment can only take one logical line and may not contain `\\` for inserting line breaks or `\par` for separating paragraphs. If you want to break lines or put several paragraphs into the wrapstuff environment, the option `width` must be set to an appropriate dimension.

`height` `height = <dimension>`

This option sets the height of the contents. The initial value is 0pt, denoting the natural height of the contents of the wrapstuff environment.

`lines` `lines = <integer>`

This option sets the number of lines of the surrounding text the contents should cover. It takes any integer. The initial value is empty, which means that the number of lines is calculated from the contents of the wrapstuff environment.

`linewidth` `linewidth = <dimension>`

This option sets the line width of the surrounding text. The initial value is `\linewidth`. This option needs not to be changed in general.

`l` `l/r/c/i/o`
`r` `ratio = <real number>`

`c` These options are used to set the arrangement of the contents of the wrapstuff environment
`i` relative to the surrounding text. The options `l/r/c/i/o` set the alignment of the contents of
`o` the wrapstuff environment such that it sits on the left side, the right side, in the center, on
`ratio` the inner side or on the outer side of the surrounding text respectively. The option `ratio`
sets the ratio of the width of the part of the surrounding text that wraps around the left side.
It can be set to any sensible real number within the range $[0, 1]$. The options `i/o` can be used
together with the option `ratio`. The initial value is `r`, which means that the contents of the
wrapstuff environment sit on the right side and the surrounding text wraps around the left
side.

`column` `column = <true|false|par>`

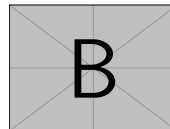
This option controls whether the contents of the `wrapstuff` environment should be wrapped by text that is split over two columns. Setting this option to `true` only works if the option `c` is set or the option `ratio` is set to a value other than 0 or 1. `false` means that the characters of the surrounding text are typeset from the left to the right for each line. `par` sets the unit for typesetting columns to paragraphs. Compare the below example:

```
\begin{wrapstuff}[c,1]
  \IMAGE{6em}{a}
\end{wrapstuff}
\EXAMPLE \EXAMPLE \par \EXAMPLE \EXAMPLE \par
\medskip
\begin{wrapstuff}[c,1,column=par]
  \IMAGE{6em}{b}
\end{wrapstuff}
\EXAMPLE \EXAMPLE \par \EXAMPLE \EXAMPLE \par
\medskip
\begin{wrapstuff}[c,0,column=false]
  \IMAGE{6em}{c}
\end{wrapstuff}
\EXAMPLE \EXAMPLE \par \EXAMPLE \EXAMPLE \par
```

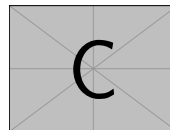
What power art thou, who, from below, Hast made me rise, unwillingly and slow, From beds of everlasting snow. What power art thou, who, from below, Hast made me rise, unwillingly and slow, From beds of everlasting snow. What power art thou, who, from below, Hast made me rise, unwillingly and slow, From beds of everlasting snow.



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`leftsep` `leftsep = <dimension>`
`rightsep` `rightsep = <dimension>`
`hsep` `hsep = <dimension>`

These options set the width of the margin to the right and left of the contents of the `wrapstuff` environment to separate it from the surrounding text. The option `hsep` sets the same value for `leftsep` and `rightsep`. The initial value is 1 em.

`abovesep` `abovesep = <dimension>`
`belowsep` `belowsep = <dimension>`
`vsep` `vsep = <dimension>`

These options set the width of the margin above and below the contents of the `wrapstuff` environment to separate it from the surrounding text. The option `vsep` sets the same value for `abovesep` and `belowsep`. The initial value is 0 pt.

`hoffset` `hoffset = <dimension>`

This option sets the length of the horizontal offset the contents of the `wrapstuff` environment should extend over the text margin. If the option `c` is set or the option `ratio` is set to a number other than 0 or 1, this option has no effect. A specific value for `\width` can be used to set the total width of the contents of the `wrapstuff` environment and the relevant offset. Setting `hoffset` to the value of `\width` will completely shift the contents of the `wrapstuff` environment outside the text margin. The initial value is 0 pt.

`voffset` `voffset = <dimension>`

This option can be used to control the vertical positioning of the contents of the `wrapstuff` environment. The initial value is 0 pt.

`type` `type = <type of floating environment>`

This option controls the type of the floating environment that should be used for the contents of the `wrapstuff` environment. The initial value is empty. If the `\caption` macro is to be used inside the `wrapstuff` environment, the value of the `type` option should be set to `figure` or `table` (or the type of the relevant floating environment that is used) and the `width` option should be set to a specific length.

```
\begin{wrapstuff}[type=figure,width=15em]
  \centering
  \IMAGE{10em}{plain}
  \caption{Example}
\end{wrapstuff}
\EXAMPLE \EXAMPLE \par \EXAMPLE \EXAMPLE \par
```

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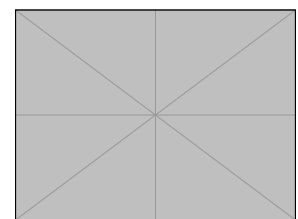


Figure 1 Example

`\wrapstuffclear`

If the line count of the current paragraph of the surrounding text is not sufficient to fully enclose the contents of the `wrapstuff` environment, the wrapping will continue in the following paragraph. This may lead to some unwanted outcomes. If `\wrapstuffclear` is used before the following paragraph, this standard behavior of continuous wrapping is turned off.

2. Implementation

Please refer to the Chinese manual for information about the implementation of this package.