

The wrapstuff Package

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1998/03/19 1.4*

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.

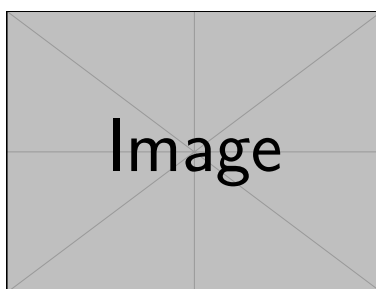
The implementation of the `wrapstuff` package relies on the paragraph hook management provided by \LaTeX 2021-06-01 or later. It requires \LaTeX 3 2022-04-10 or later.

```
wrapstuff \begin{wrapstuff}[\langle options \rangle]
          \langle contents to be wrapped \rangle
          \end{wrapstuff}
          \langle wrapped 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=\dimeval{\linewidth/3}]{example-image.pdf}
\end{wrapstuff}
\zhlipsum[1][name=zhufu]
```

旧历的年底毕竟最像年底，村镇上不必说，就在天空中也显出将到新年的气象来。灰白色的沉重的晚云中间时时发出闪光，接着一声钝响，是送灶的爆竹；近处燃放的可就更强烈了，震耳的大音还没有息，空气里已经散满了幽微的火药香。我是正在这一夜回到我的故乡鲁镇的。虽说故乡，然而已没有家，所以只得暂寓



在鲁四老爷的宅子里。他是我的本家，比我长一辈，应该称之曰“四叔”，是一个讲理学的老监生。他比先前并没有甚么大改变，单是老了些，但也还未留胡子，一见面是寒暄，寒暄之后说我“胖了”，说我“胖了”之后即大骂其新

党。但我知道，这并非借题在骂我：因为他所骂的还是康有为。但是，谈话是总不投机的了，于是不多久，我便一个人剩在书房里。

```
\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:

*rev. 1.2.0.

`top` `top = <non-negative integer>`

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

`width` `width = <dimension>`

This option sets the width. The initial value is 0 pt, denoting the natural width of the contents of the `wrapstuff` environment. Using the initial value of 0 pt, the contents of the `wrapstuff` environment can only take one line and may not contain `\\` for inserting linebreaks or `\par` to split 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 wrapped content. The initial value is 0 pt, denoting the natural height of the contents of the `wrapstuff` environment.

`lines` `lines = <integer>`

This option sets the number of lines the wrapped 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

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 sits 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` means sets the unit for typesetting columns to paragraphs. Compare the below example:

天地玄黄宇宙洪荒日月盈昃辰宿列张寒来暑往
秋收冬藏闰馀成岁 云腾致雨露结为霜
律召调阳 金生丽水玉出昆冈
天地玄黄宇宙洪荒日月盈昃辰宿列张寒来暑往
秋收冬藏闰馀成岁 律召调阳
云腾致雨露结为霜 金生丽水玉出昆冈
天地玄黄宇宙洪荒 日月盈昃辰宿列张
寒来暑往秋收冬藏 闰馀成岁律召调阳
云腾致雨露结为霜金生丽水玉出昆冈

```
\begin{wrapstuff}[c,1]
  \IMAGE{2em}{a}
\end{wrapstuff}
\QIANZIWEN
\begin{wrapstuff}[c,1,column=par]
  \IMAGE{2em}{b}
\end{wrapstuff}
\QIANZIWEN
\begin{wrapstuff}[c,0,column=false]
  \IMAGE{2em}{c}
\end{wrapstuff}
\QIANZIWEN
```

```
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 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 should 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.

天地玄黄宇宙洪荒日月盈昃
辰宿列张寒来暑往秋收冬藏
闰馀成岁律召调阳
云腾致雨露结为霜金生丽水
玉出昆冈



图 1 Example

```
\begin{wrapstuff}[type=figure,width=5em]
  \centering
  \IMAGE{4em}{plain}
  \caption{Example}
\end{wrapstuff}
\QIANZIWEN
```

```
\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 that the wrapping continues is cancelled.

2. Implementation

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