

sidefig Package Example

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figure

Wrapping text around a figure (or, more generally, any box-shaped region) is a tricky subject in \LaTeX . Plain \TeX has a powerful command, `\parshape`, which directs \TeX to flow a paragraph within a defined region, with the geometry defined line-by-line.

Various packages (e.g. `wrapfig`) exist to facilitate this process for \LaTeX users. However, `\parshape` (and another powerful command, `\everypar`, which allows wrapping across multiple paragraphs) are overwritten by \LaTeX list environments, including `itemize` and `enumerate`. This causes typical approaches to fail when used near lists.

`sidefig` is a package which attempts to allow wrapping text around rectangular regions even in the presence of lists.

Here are some features of `sidefig`, which you can see demonstrated below:

- Text wrapping continues to work even if you start a list. For example, this line will break a little bit earlier to make room for the figure at right.



figure

- Sublists are also supported:

1. like so.



figure

2. If you add a `\sidefig` in a list, the package tries hard to make things look right even across multiple levels.

- Now we're back in the outer list and the indent

is hopefully right.

- Captions are also possible using an optional parameter to `\sidefig`.

- Usage:

`\sidefig[(caption)]{L or R}{(content)}` right before any paragraph or `\item`.



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*Fig. 1: A caption
describing the figure
above.*

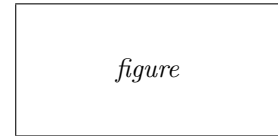
Additional Features

The style of the caption can be controlled by re-defining `\sidecapstyle`. The default is

```
\def\sidecapstyle{\centering\small\it}.
```

`\sidecapstyle` can also take an option, if you like, as in

```
\renewcommand{\sidecapstyle}[1]{\uppercase{#1}}.
```



CAPTION WITH RE-
DEFINED STYLE

The spacing between the content and the caption can be controlled with

```
\setlength{\sidecapskip}{(length)},
```

default 2pt.

If you don't want to be next to the `\sidefig` any more, use `\MoveBelowBox`. This command is called automatically if you add a `\sidefig` that would otherwise overlap a previous one.

Known Issues

- Various issues around page breaks, since \TeX works ahead while building pages, deciding the breaks later. Current behavior is to raise a warning if the `\sidefig` would go below the ostensible end of the page. Version rc0.3 improves the behavior somewhat, and the package will attempt to recover across a page break. Sometimes this leads to some bad behavior if there are multiple paragraphs next to a `\sidefig`; the first and second will appear on different pages, but the second will still have a cutout for the figure which fell on the previous page.
- There should NOT be a blank line between `\sidefig` and the next paragraph or (especially) `\item`. In order to make the positioning right within lists, `\sidefig` has to look ahead at the next command, which does not work across a blank line.

Acknowledgements

This code is heavily based off of the Plain \TeX package `insbox` by Michał Gulczyński, available at <https://ctan.org/pkg/insbox>.

Not all features of `insbox` are available due to poor interactions with `lists`. Many things have been wrapped-around or otherwise rearranged to accommodate `lists`, but the core functionality is due to `insbox`.