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 `list`s.

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

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

> figure

- 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.

- 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:

  > figure

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

  Fig. 1: A caption describing the figure above.

Additional Features

The style of the caption can be controlled by redefining `\sidecapstyle`. The default is `\def\sidecapstyle{\centering\small\it}`. The caption can also be passed as an option to `\sidecapstyle` if you like.

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.

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`.