

Marginalia

Write into the margins!

1 Setup

Put something akin to the following at the start of your .typ file:

```
#import "@preview/marginalia:version": note, wideblock
#let config = (
  // inner: ( far: 5mm, width: 15mm, sep: 5mm ),
  // outer: ( far: 5mm, width: 15mm, sep: 5mm ),
  // top: 2.5cm,
  // bottom: 2.5cm,
  // book: false,
  // flush_numbers: false,
  // numbering: /* numbering-function */,
)
#marginalia.configure(..config)
#set page(
  // setup margins:
  ..marginalia.page_setup(..config),
  /* other page setup */
)
```

Where you can then customize config to your preferences. Shown here (as comments) are the default values taken if the corresponding keys are unset.

See the appendix for a more detailed explanation of the [configure\(\)](#) and [page_setup\(\)](#) functions.

2 Margin-Notes

By default, the `#note[...]` command places a note to the right/outer margin, like so:◆. By giving the argument `reverse: true`, we obtain a note on the left/inner margin.● If `config.book = true`, the side will of course be adjusted automatically.

● Reversed.

If ■ we ▲ place multiple notes in one line, they automatically adjust their positions (Up to a limit of apparently up to three. I am not sure why exactly this is, as the shifts should not have cyclical dependencies but it should be able to calculate them in-order). However, a `dy` argument can be passed to shift them by that length vertically.

2.1 Markers

The margin notes are decorated with little symbols, which by default hang into the gap. If this is not desired, set the configuration option `flush_numbers: true`. Setting the argument `numbered: false`, we obtain notes without icon/number. To change the markers, you can override `config.numbering-function` which is used to generate the markers.

It is recommended to reset the notecounter regularly, either per page:

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◆ This is a note.

They can contain any content,
and will wrap within the note
column.

■ Note 1

▲ Note 2

Like this.

```
#set page(
  header: {
    marginalia.notecounter.update(0)
  }
)
```

or per heading:

```
#show heading.where(level: 1): it => {
  marginalia.notecounter.update(0)
  it
}
```

3 Wide Blocks

The command `#wideblock[...]` can be used to wrap content in a wide block which spans into the margin-note-column. It is a bit cluttered, but is possible to use notes in wide blocks:♦, but ♦ *Voila* make sure to set the reverse argument appropriately.

```
#wideblock(reverse: true)[...]: Lorem ipsum dolor sit amet, consectetur adip-
iscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam
quaerat voluptatem. Ut enim aequi doleamus animo, cum.
```

```
#wideblock(double: true)[...]: Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor
incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequi doleamus animo, cum corpore
dolemus, fieri.
```

Note that setting both `reverse: true` and `double: true` will panic.

4 Thanks

Many thanks go to Nathan Jessurun for their drafting package, which has served as a starting point and was very helpful in figuring out how to position margin-notes.

The wideblock functionality was inspired by the one provided in the tufte-memo template.

Also shout-out to tidy, which was used to produce the appendix.

A Detailed Documentation of all Exported Symbols

A.1 as-note

Format a counter like the note icons. Default numbering for notes.

Mostly internal.

```
notecounter.display(as-note)
```



```
let i = 1
while i < 12 {
  [ #as-note(i) ]
  i = i + 1
}
```



Parameters

`as-note(..counter: int) -> content`

A.2 configure

This will update the margalia config with the provided config options.

The default values for the margins have been chosen such that they match the default typst margins for a4. It is strongly recommended to change at least one of either inner or outer to be wide enough to actually contain text.

Parameters

```
configure(
  inner: dictionary,
  outer: dictionary,
  top: length,
  bottom: length,
  book: boolean,
  flush_numbers: boolean,
  numbering: str function
)
```

inner dictionary

Inside/left margins.

- far: Distance between edge of page and margin (note) column.
- width: Width of the margin column.
- sep: Distance between margin column and main text column.

The page inside/left margin should equal far + width + sep.

If partial dictionary is given, it will be filled up with defaults.

Default: (far: 5mm, width: 15mm, sep: 5mm)

outer dictionary

Outside/right margins. Analogous to inner.

Default: (far: 5mm, width: 15mm, sep: 5mm)

top `length`

Top margin.

Default: `2.5cm`

bottom `length`

Bottom margin.

These are not used for any of the Marginalia-functionality, they are only used when passed to `page_setup()`.

Default: `2.5cm`

book `boolean`

If `true`, will use inside/outside margins, alternating on each page. If `false`, will use left/right margins with all pages the same.

Default: `false`

flush_numbers `boolean`

Disallow note icons hanging into the whitespace.

Default: `false`

numbering `str` or `function`

Function or numbering-string to generate the note markers from the notecounter.

Default: `as-note`

A.3 note

Create a marginnote. Will adjust it's position downwards to avoid previously placed notes, to a limit. Typst starts to complain about the layout not converging at three notes that are in conflict, and the fourth note will overlap.

Parameters

```
note(  
  numbered: boolean,  
  reverse: boolean,  
  dy: length,  
  body: content  
)
```

numbered `boolean`

Whether to put a mark.

Default: `true`

reverse `boolean`

Whether to put it in the opposite (inner/left) margin.

Default: `false`

dy `length`

Vertical offset of the note.

Default: `0pt`

A.4 page_setup

This will generate a dictionary (`margin: ..`) compatible with the passed config. This can then be spread into the page setup like so:

```
#set page( ..page_setup(..config) )
```

Takes the same options as `configure()`.

Parameters

`page_setup(..config: dictionary) -> dictionary`

..`config` `dictionary`

Missing entries are filled with package defaults. Note: missing entries are *not* taken from the current marginalia config, as this would require context.

A.5 wideblock

Creates a block that extends into the outside/right margin.

Note: This does not handle page-breaks sensibly. If `config.book = false`, this is not a problem, as then the margins on all pages are the same. However, when using alternating page margins, a multi-page wideblock will not work properly. To be able to set this appendix in a many-page wideblock, this code was used:

```
#configure(..config, book: false)
#set page(..page_setup(..config, book: false))
#wideblock(reverse: true)[...]
```

Parameters

```
wideblock(  
  reverse: boolean ,  
  double: boolean ,  
  body: content  
) -> content
```

reverse boolean

Whether to extend into the inside/left margin instead.

Default: **false**

double boolean

Whether to extend into both margins. Cannot be combined with reverse.

Default: **false**

A.6 notecounter counter

The counter used for the note icons.

Mostly internal.

It is recommended to reset this counter regularly if the default symbols are used, as after eight notes it will start to number them.

```
notecounter.update(1)
```