Marginalia

Write into the margins!

1 Setup

Recommended is to put something akin to the following at the start of your `.typ` file:

```
#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 */,
)
#configure(..config)
#set page(
  ..page_setup(..config), // will setup margins
  /* 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.*

◆ *This is a note.*
They can contain any content, and will wrap within the note column.

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.

■ *Note 1*
▲ *Note 2*

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.

Like this.

It is recommended to reset the `notecounter` for every page in the header. TODO how?

Contents

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 adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque 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 aeque 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.

A Detailed Documentation

A.1 as-note

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

Parameters

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

A.2 configure

This will update the marginalia 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 reccomended 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: relative length ,
  bottom: relative 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 `relative length`

Top margin.

Default: 2.5cm

bottom `relative 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
TODO

Parameters
```
note(
  numbered,
  reverse,
  dy,
  body
)
```

A.4 page_setup
This will generate a dictionary (`margin: ..`) compatible with the passed 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[...]
```

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`

Mostly internal. The counter used for the note icons.