### **Margin Notes**

#### Setup

Unfortunately typst doesn't expose margins to calling functions, so you'll need to set them explicitly. This is done using set-page-properties before you place any content:

```
// At the top of your source file
// Of course, you can substitute any margin numbers you prefer
// provided the page margins match what you pass to `set-page-properties`
#import "../drafting.typ": *
#let (l-margin, r-margin) = (lin, 2in)
#set page(
  margin: (left: l-margin, right: r-margin, rest: 0.lin),
  paper: "us-letter",
#set-page-properties(margin-left: l-margin, margin-right: r-margin)
```

## The basics

```
#lorem(20)
#margin-note(side: left)[Hello, world!]
#lorem(10)
#margin-note[Hello from the other side]
#margin-note[When notes are about to overlap, they're automatically shifted]
#margin-note(stroke: aqua + 3pt)[To avoid collision]
#lorem(25)
#let caution-rect = rect.with(inset: lem, radius: 0.5em, fill: orange.lighten(80%))
#inline-note(rect: caution-rect)[
 Be aware that notes will stop automatically avoiding collisions if 4 or more notes
 overlap. This is because `typst` warns when the layout doesn't resolve after 5 attempts
  (initial layout + adjustment for each note)
```

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Hello. world!

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Be aware that notes will stop automatically avoiding collisions if 4 or more notes overlap. This is because typst warns when the layout doesn't resolve after 5 attempts (initial layout + adjustment for each note)

Hello from the other side

When notes are about to overlap, they're automatically shifted

To avoid collision

### Adjusting the default style

All function defaults are customizable through updating the module state:

```
#lorem(4) #margin-note(dy: -2em)[Default style]
#set-margin-note-defaults(stroke: orange, side: left)
#lorem(4) #margin-note[Updated style]
```

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Default style

Updated style

Even deeper customization is possible by overriding the default rect:

```
#import "@preview/colorful-boxes:1.1.0": stickybox
#let default-rect(stroke: none, fill: none, width: 0pt, content) = {
 stickybox(rotation: 30deg, width: width/1.5, content)
#set-margin-note-defaults(rect: default-rect, stroke: none, side: right)
#lorem(20)
#margin-note(dy: -25pt)[Why not use sticky notes in the margin?]
// Undo changes from this example
#set-margin-note-defaults(rect: rect, stroke: red)
```

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Why not use sticky notes in the margin?

# Multiple document reviewers

```
#let reviewer-a = margin-note.with(stroke: blue)
#let reviewer-b = margin-note.with(stroke: purple)
#lorem(20)
#reviewer-a[Comment from reviewer A]
#lorem(15)
#reviewer-b(side: left)[Comment from reviewer B]
```

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Comment from reviewer A

Comment from reviewer B

# **Inline Notes**

```
#lorem(10)
#inline-note[The default inline note will split the paragraph at its location]
#lorem(10)
#inline-note(par-break: false, stroke: (paint: orange, dash: "dashed"))[
 But you can specify `par-break: false` to prevent this
#lorem(10)
```

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The default inline note will split the paragraph at its location

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do. But you can specify par-break: false to prevent this Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

# Hiding notes for print preview

```
#set-margin-note-defaults(hidden: true)
#margin-note[This will respect the global "hidden" state]
#margin-note(hidden: false, dy: -2.5em)[This note will never be hidden]
// Undo these changes
#set-margin-note-defaults(hidden: false)
```

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dolore magnam aliquam quaerat.

This note will never be hidden

### **Positioning**

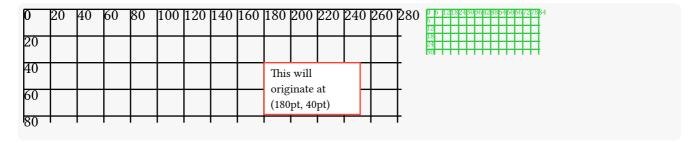
#### Precise placement: rule grid

Need to measure space for fine-tuned positioning? You can use rule-grid to cross-hatch the page with rule lines:

```
#rule-grid(width: 10cm, height: 3cm, spacing: 20pt)
#place(
    dx: 180pt,
    dy: 40pt,
    rect(fill: white, stroke: red, width: 1in, "This will originate at (180pt, 40pt)")
}

// Optionally specify divisions of the smallest dimension to automatically calculate
// spacing
#rule-grid(dx: 10cm + 3em, width: 3cm, height: 1.2cm, divisions: 5, square: true, stroke: green)

// The rule grid doesn't take up space, so add it explicitly
#v(3cm + 1em)
```



#### Absolute positioning

What about absolutely positioning something regardless of margin and relative location? absolute-place is your friend. You can put content anywhere:

```
#locate(loc => {
 let (dx, dy) = (25\%, loc.position().y)
 let content-str = (
    "This absolutely-placed box will originate at (" + repr(dx) + ", " + repr(dy) + ")"
    + " in page coordinates"
 )
 absolute-place(
   dx: dx, dy: dy,
   rect(
     fill: green.lighten(60%),
     radius: 0.5em,
     width: 2.5in,
     height: 0.5in,
      [#align(center + horizon, content-str)]
})
\#v(0.5in)
```

This absolutely-placed box will originate at (25%, 643.16pt) in page coordinates

The "rule-grid" also supports absolute placement at the top-left of the page by passing relative: false. This is helpful for "rule"-ing the whole page.