



# Positioning

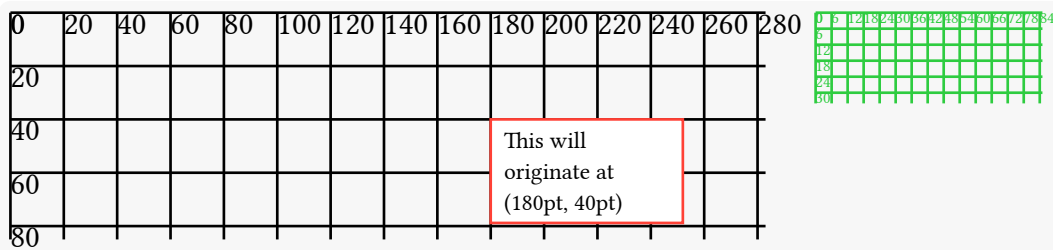
## Precise placement: rule grid

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.