

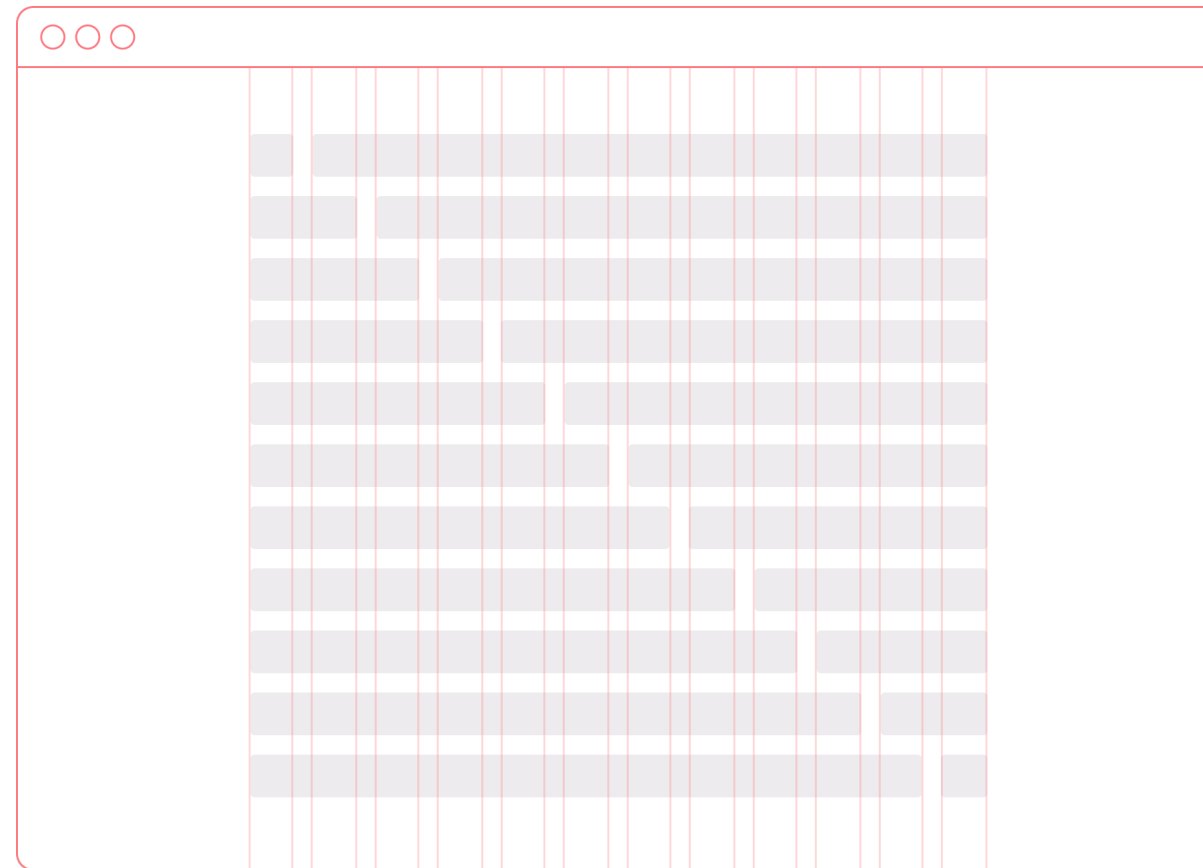
# Grid

# Systems

# What is a grid system?

## (as it relates to design)

A framework of intersecting lines meant to be used as a skeleton to arrange different graphic elements



# What is a grid system?

**(as it relates to CSS + web design)**

- Rather than arbitrarily deciding how large content blocks on a web page should be, have them conform to a set width
- Going further, instead of a set width for each block, decide on a width unit and make certain blocks x number of that unit wide
- Makes for more symmetrical designs and easier to maintain, more easily responsive code

# Grid-only Frameworks

- SimpleGrid
- Pills

## Large Frameworks w/ Grids

- Skeleton
- Bootstrap
- Zurb Foundation

# Using a Grid System

- Grid systems provide classes for you to use to size columns
- Classes used are not semantic like custom ones, they're prescriptive
- You must include the library before your custom styles
- Read the documentation! Every grid system is different, though most are 12 column.

# Using a Grid System (Pills)

- Columns contained in .row class elements
- Classes can either be semantic sizes, or 1-12 numbers.

```
<div class="row">  
  <div class="two-third">2/3</div>  
  <div class="one-thirds">1/3</div>  
</div>
```

```
<div class="row">  
  <div class="eight">Eight</div>  
  <div class="four">Four</div>  
</div>
```

# Using a Grid System (Bootstrap)

- Some grid systems allow you to define responsive behavior
- They might also have extra classes that allow for different behavior link

```
<div class="row">
  <div class="col-12 col-sm-8">
    <!-- Full width at mobile, 2/3 above the small breakpoint -->
  </div>
  <div class="col-12 col-sm-4">
    <!-- Full width at mobile, 2/3 above the small breakpoint -->
  </div>
</div>
```

# Exercise

Create the webpage mocked up in the file bootstrap.png using Bootstrap's fluid grid system



# Mixin Frameworks

- Using SASS, we can make grids using mixins instead
- Keeps CSS in charge of display, and your classes semantic

## Frameworks

- Neat
- Bootstrap (Mixins)
- Make your own mixin!

# Mixin Frameworks (Neat)

```
<!-- HTML -->
<div class="content">
  <main class="content-main"></main>
  <aside class="content-sidebar"></aside>
</div>
```

```
// SCSS
@import "neat";
.content {
  &-main {
    @include grid-column(9);
  }

  &-sidebar {
    @include grid-column(3);
  }
}
```