
RESPONSIVE WEB DESIGN II

Lecture 15

TODAY'S TOPICS



- Bootstrap Grid
- **Participation:** Hanging by Your Bootstraps

ANNOUNCEMENTS

- Sign-in Sheet



QUESTIONS

BOOTSTRAP GRID

BOOTSTRAP GRID



- **Bootstrap's Grid** is a mobile-first, responsive, flexbox grid system
- The grid is built on twelve column system with five break points
- The grid has three parts: containers, rows, and columns
- There are specific classes that are used for each part

CONTAINERS



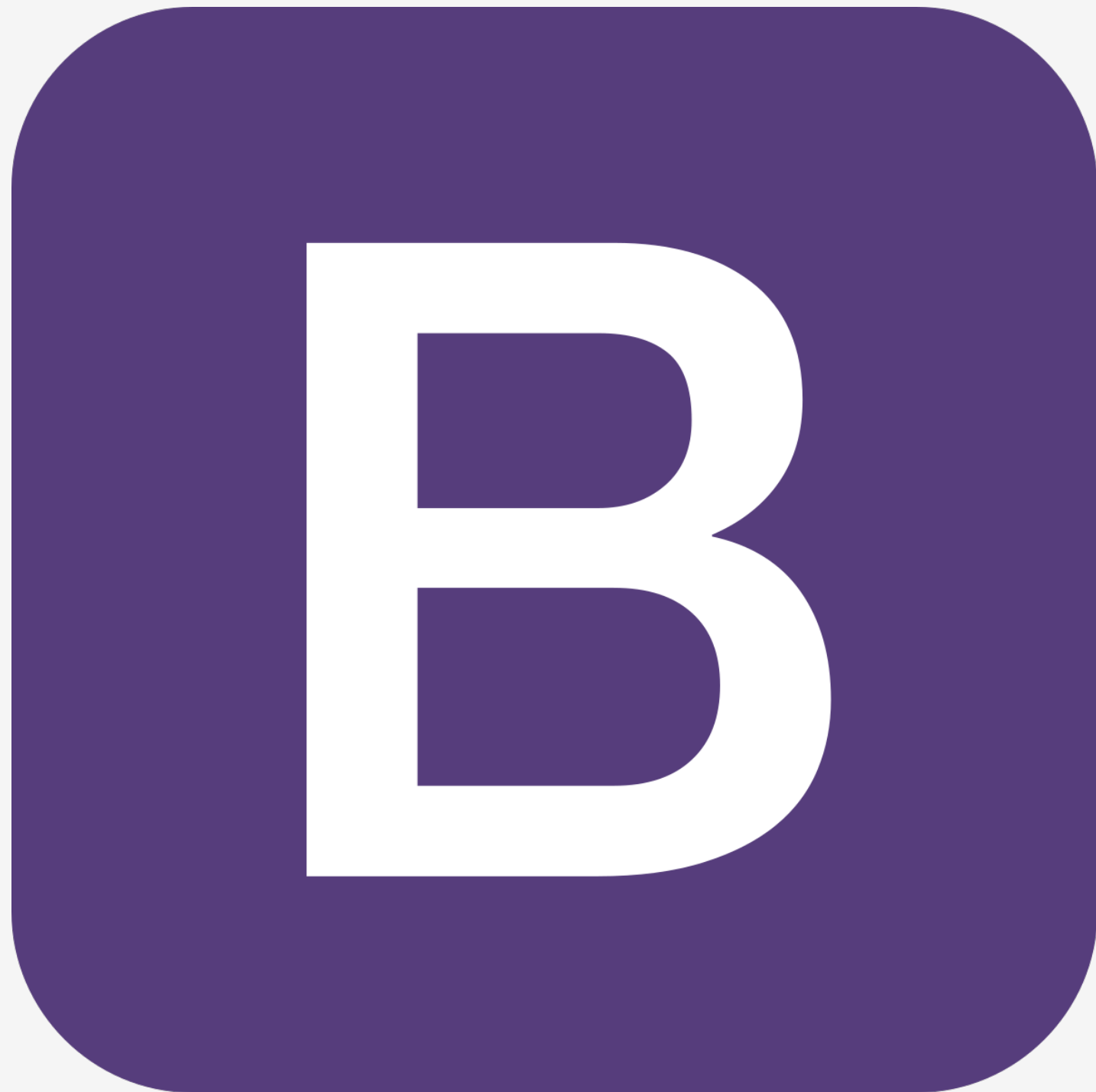
- The container classes are the top level of the Bootstrap Grid
- There are three different containers classes:
 - `.container` - a fixed max-width for each responsive breakpoint
 - `.container-fluid` - width is 100% for all breakpoints
 - `.container-{breakpoint}` - width is 100% until the specified breakpoint

ROWS



- A row serves as a wrapper for columns
- A row is created using the `.row` class
- A row must be placed inside of a container element

COLUMNS



- All content must be placed inside of a column
- A column is created using the `.col` class
- By default, columns will be laid out with equal widths

GRID

```
<div class="container">  
  <div class="row">  
    <div class="col">1</div>  
    <div class="col">2</div>  
    <div class="col">3</div>  
  </div>  
</div>
```

1

2

3

GRID OPTIONS



- Bootstrap provide options customize how columns are laid out
- The `.col-{number}` classes sets how many columns a element should stretch
- The `.col-{breakpoint}` targets a specific breakpoint when creating columns
- The `.align-items-` and `.justify-content-` classes can be used to align columns

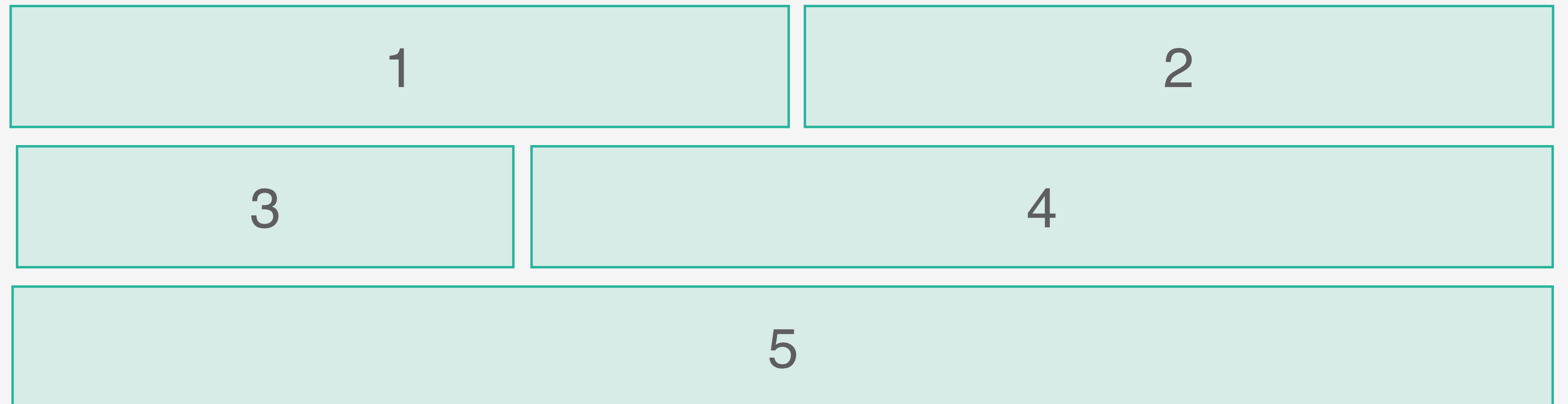
GRID OPTIONS



- The `.row-cols-{number}` sets the number of columns for the row
- The `.offset-{number}` moves the column to the right
- The `.order-{number}`, `.order-first`, `.order-last` classes can be used to change the order of elements

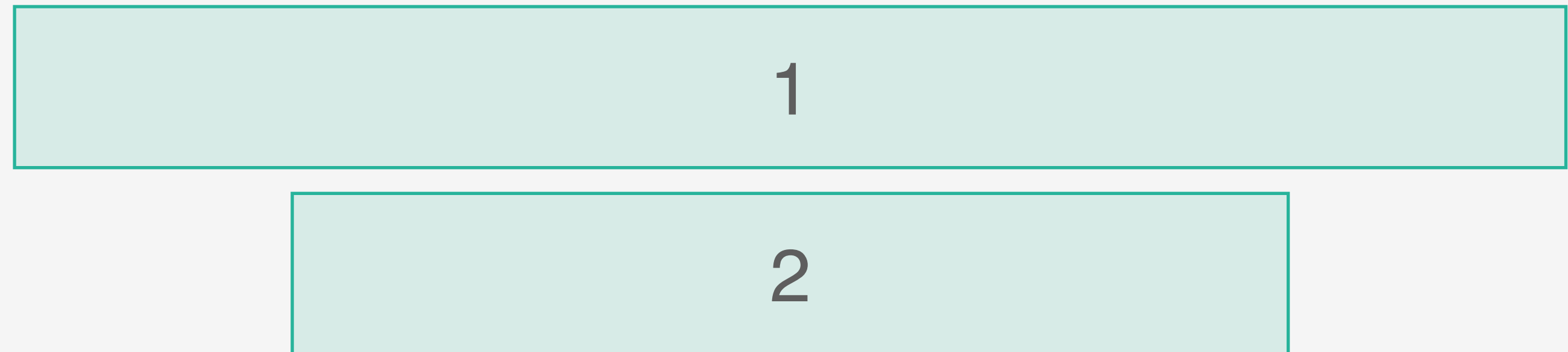
GRID

```
<div class="container">  
  <div class="row">  
    <div class="col-6">1</div>  
    <div class="col-6">2</div>  
    <div class="col-4">3</div>  
    <div class="col-8">4</div>  
    <div class="col-12">5</div>  
  </div>  
</div>
```



GRID

```
<div class="container">  
  <div class="row justify-content-center">  
    <div class="col-9">1</div>  
    <div class="col-6">2</div>  
  </div>  
</div>
```



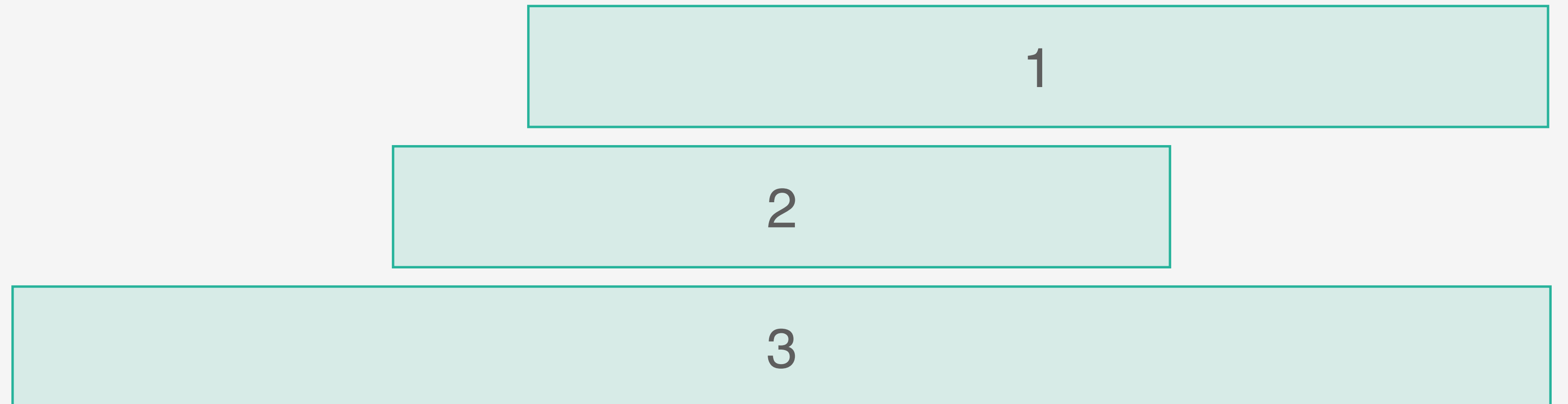
GRID

```
<div class="container">  
  <div class="row row-cols-2">  
    <div class="col">1</div>  
    <div class="col">2</div>  
    <div class="col">3</div>  
    <div class="col">4</div>  
  </div>  
</div>
```

1	2
3	4

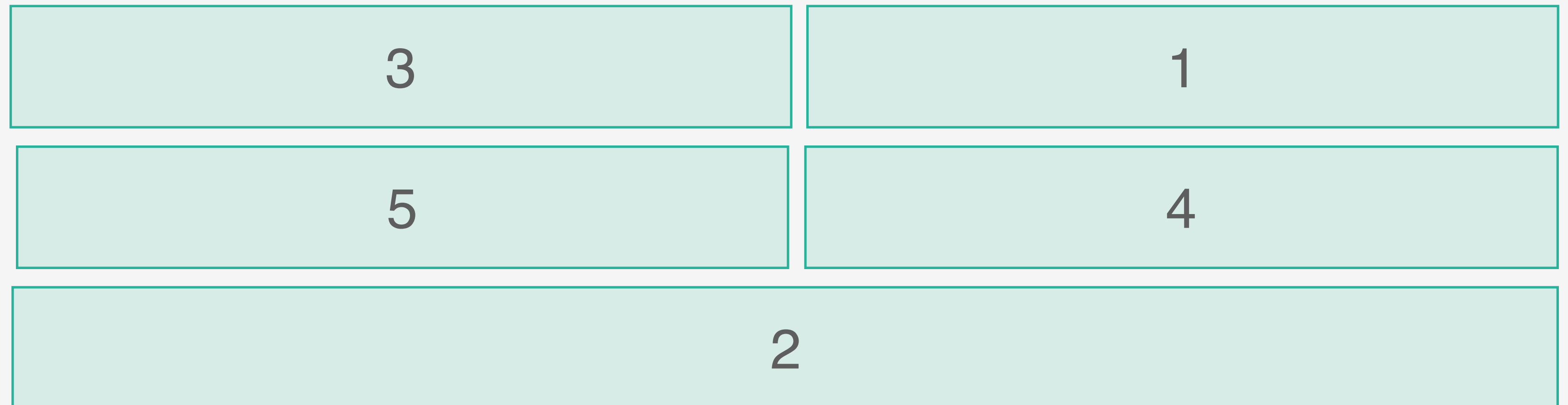
GRID

```
<div class="container">  
  <div class="row">  
    <div class="col-8 offset-4">1</div>  
    <div class="col-6 offset-3">2</div>  
    <div class="col-12">3</div>  
  </div>  
</div>
```



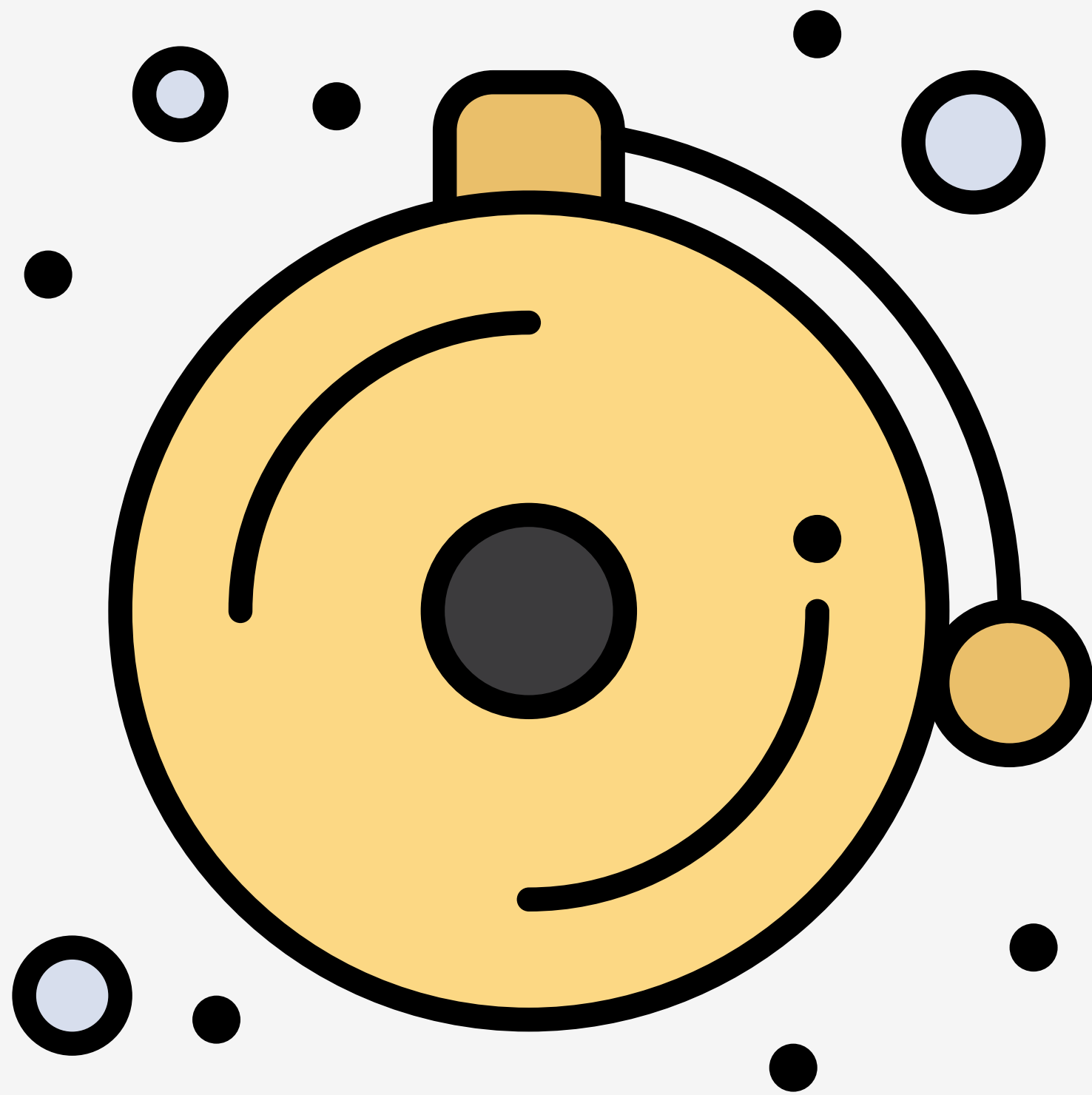
GRID

```
<div class="container">
  <div class="row">
    <div class="col-6">1</div>
    <div class="col-12 order-last">2</div>
    <div class="col-6 order-first">3</div>
    <div class="col-6 order-1">4</div>
    <div class="col-6">5</div>
  </div>
</div>
```



HANDS-ON

NEXT TIME...



- Bootstrap Nav
- **Exercise:** Bootstrap This!