

CS50B Web Dev 2

Fall 2018 ~ Ethan Wilde

Week 4



Welcome

- Course Outline
- Bootstrap Unpacked: Stepping Back
- Bootstrap Layout Tools: Shoelace.io
- Bootstrap Learning Strategies
- Bootstrap Navigation Components
- Preparing for Midterm Project
- What to Do Next

Course Outline

1 Responsive HTML5 + CSS3	10 WordPress: Intro to CMS
2 Introduction to Bootstrap	11 WordPress Posts
3 Page Elements + Components	12 WordPress Pages + Menus
4 Navigation	13 WordPress Plugins + Themes
5 Forms + Decoration	14 WordPress Bootstrap Theme
6 Customizing Bootstrap CSS	15 Intro to Sass: CSS Preprocess
7 Introduction to JavaScript	16 Customizing Bootstrap Sass
8 Bootstrap + JavaScript	17 Mastering Sass + Bootstrap
9 Midterm Review + Midterm	18 Final Exam (online)

Get all of the details in the complete syllabus on Canvas.

Bootstrap Unpacked

CSS RulesGrouped by Purpose

Bootstrap Unpacked

CSS RulesGrouped by Purpose

Layout

Content

Components

Utilities

https://getbootstrap.com/docs/4.1/extend/approach/

Layout Tools: shoelace.io

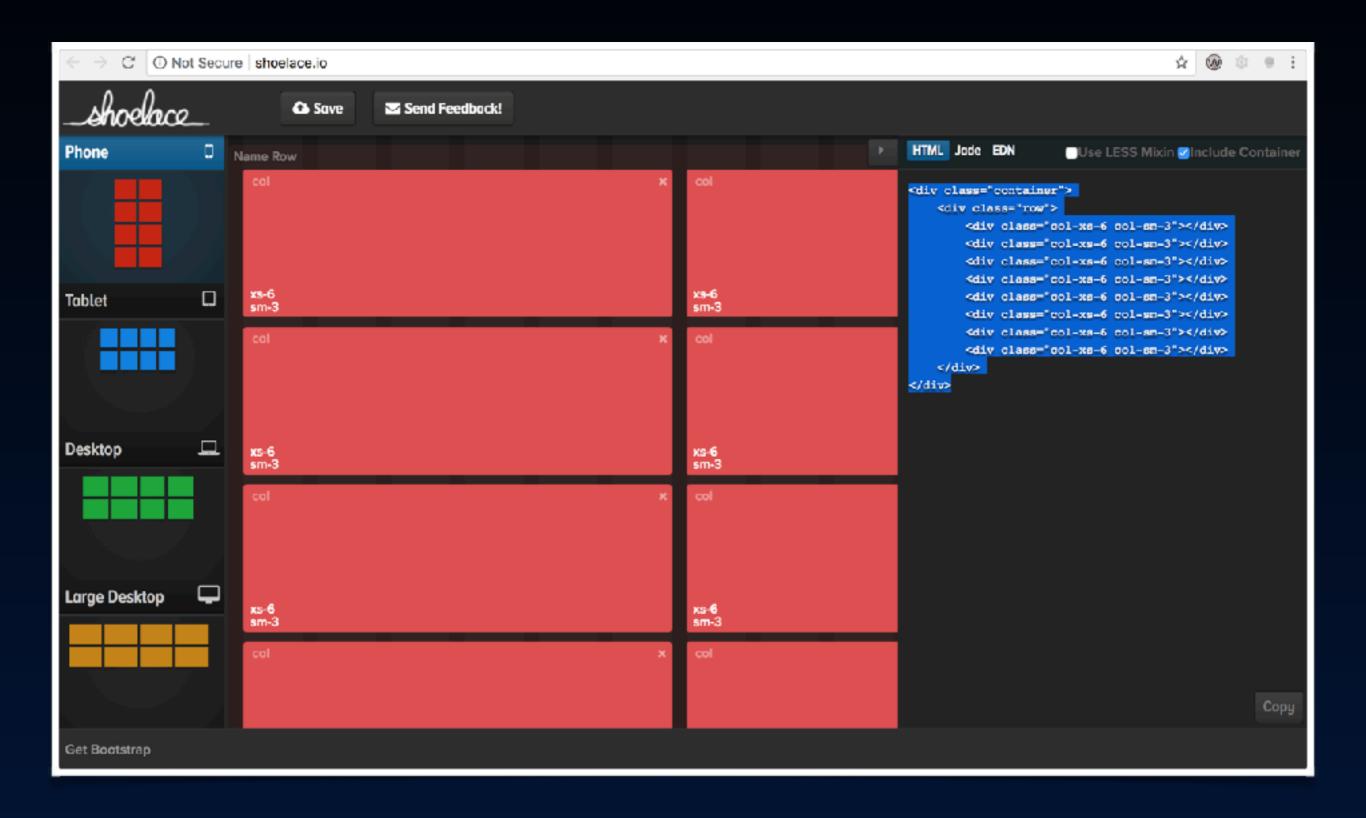
The Bootstrap Layout Grid

12 columns in horizontal axis

Columns are children of rows

Rows are children of a container

Layout Tools: shoelace.io



1. Using <u>getbootstrap.com</u> **Documentation**

- 1. Using <u>getbootstrap.com</u>

 Documentation
- 2. Using <u>w3schools.com</u>
 Bootstrap 4 Tutorials

- 1. Using <u>getbootstrap.com</u> **Documentation**
- 2. Using <u>w3schools.com</u>
 Bootstrap 4 Tutorials
- 3. Using Chrome Dev Tools and "Inspect Element"

- 1. Using <u>getbootstrap.com</u> **Documentation**
- 2. Using <u>w3schools.com</u>
 Bootstrap 4 Tutorials
- 3. Using Chrome Dev Tools and "Inspect Element"
- 4. Build HTML templates and use code snippets

Bootstrap Navigation Components

Navs

Navbars

Pagination

Spacing Utility Classes

```
<a class="nav-link active" href="#">
 Active
 </a>
<a class="nav-link disabled" href="#">
 Disabled
 </a>
```

```
<a class="nav-link active" href="#">
 Active
 </a>
<a class="nav-link disabled" href="#">
 Disabled
 </a>
```

```
<a class="nav-link active" href="#">
 Active
 </a>
<a class="nav-link disabled" href="#">
 Disabled
 </a>
```

```
<a class="nav-link active" href="#">
 Active
 </a>
<a class="nav-link disabled" href="#">
 Disabled
 </a>
```

```
<a class="nav-link active" href="#">
 Active
 </a>
<a class="nav-link disabled" href="#">
 Disabled
 </a>
```

```
<nav class="nav flex-column">
 <a class="nav-link active" href="#">
 Active
 </a>
 <a class="nav-link disabled" href="#">
  Disabled
 </a>
</nav>
```

```
makes nav vertical
                                (optional)
<nav class="nav flex-column">
 <a class="nav-link active" href="#">
  Active
 </a>
 <a class="nav-link disabled" href="#">
  Disabled
 </a>
</nav>
```

```
<nav class="nav flex-column">
 <a class="nav-link active" href="#">
 Active
 </a>
 <a class="nav-link disabled" href="#">
  Disabled
 </a>
</nav>
```

```
<nav class="navbar navbar-expand">
<a class="navbar-brand" href="#">
 Navbar
</a>
<a class="nav-link" href="#">
     Home
   </a>
  <a class="nav-link" href="#">
     Link
   </a>
  </nav>
```

```
<nav class="navbar navbar-expand">
<a class="navbar-brand" href="#">
  Navbar
</a>
<a class="nav-link" href="#">
     Home
   </a>
  <a class="nav-link" href="#">
     Link
   </a>
  </nav>
```

```
<nav class="navbar navbar-expand">
<a class="navbar-brand" href="#">
 Navbar
</a>
<a class="nav-link" href="#">
     Home
   </a>
  <a class="nav-link" href="#">
     Link
   </a>
  </nav>
```

```
<nav class="navbar navbar-expand">
<a class="navbar-brand" href="#">
 Navbar
</a>
<a class="nav-link" href="#">
     Home
   </a>
  <a class="nav-link" href="#">
     Link
   </a>
  </nav>
```

```
<nav class="navbar navbar-expand">
<a class="navbar-brand" href="#">
 Navbar
</a>
<a class="nav-link" href="#">
     Home
   </a>
  <a class="nav-link" href="#">
     Link
   </a>
  </nav>
```

```
<nav aria-label="Nav menu description">
<a class="page-link" href="#">
   Prev
 </a>
 <a class="page-link" href="#">
   Next
 </a>
 </nav>
```

```
<nav aria-label="Nav menu description">
<a class="page-link" href="#">
   Prev
 </a>
 <a class="page-link" href="#">
   Next
 </a>
 </nav>
```

```
<nav aria-label="Nav menu description">
class="page-item">
 <a class="page-link" href="#">
    Prev
 </a>
 <a class="page-link" href="#">
    Next
 </a>
 </nav>
```

```
<nav aria-label="Nav menu description">
<a class="page-link" href="#">
   Prev
 </a>
 <a class="page-link" href="#">
   Next
 </a>
 </nav>
```

The classes are named using format

```
{property}{sides}-{size} for xs
```

{property}{sides}-{breakpoint}-{size} for sm, md, lg, and xl

The classes are named using format

{property}{sides}-{breakpoint}-{size}

Where property is one of:

m - for classes that set margin

p - for classes that set padding

The classes are named using format

{property}{sides}-{breakpoint}-{size}

Where sides is one of:

t - for classes that set top b - for classes that set bottom

The classes are named using format

{property}{sides}-{breakpoint}-{size}

Where sides is one of:

I - for classes that set left r - for classes that set right

The classes are named using format

{property}{sides}-{breakpoint}-{size}

Where sides is one of:

x - for classes that set both left + right y - for classes that set both top + bot.

The classes are named using format

{property}{sides}-{breakpoint}-{size}

Where sides is one of:

blank - for classes that set a margin or padding on all 4 sides

The classes are named using format

{property}{sides}-{breakpoint}-{size}

Where size is between:

0 - for classes that eliminate spacing 1 thru 5 - adds extra spacing (least to most) auto - for classes that set the margin to auto

Getting Started with Bootstrap



What do you need to use Bootstrap interactive components?

1. Link to load Bootstrap CSS file.

Getting Started with Bootstrap



What do you need to use Bootstrap interactive components?

- 1. Link to load Bootstrap CSS file.
- 2. Script elements to load 3 JavaScript files.

Getting Started with Bootstrap

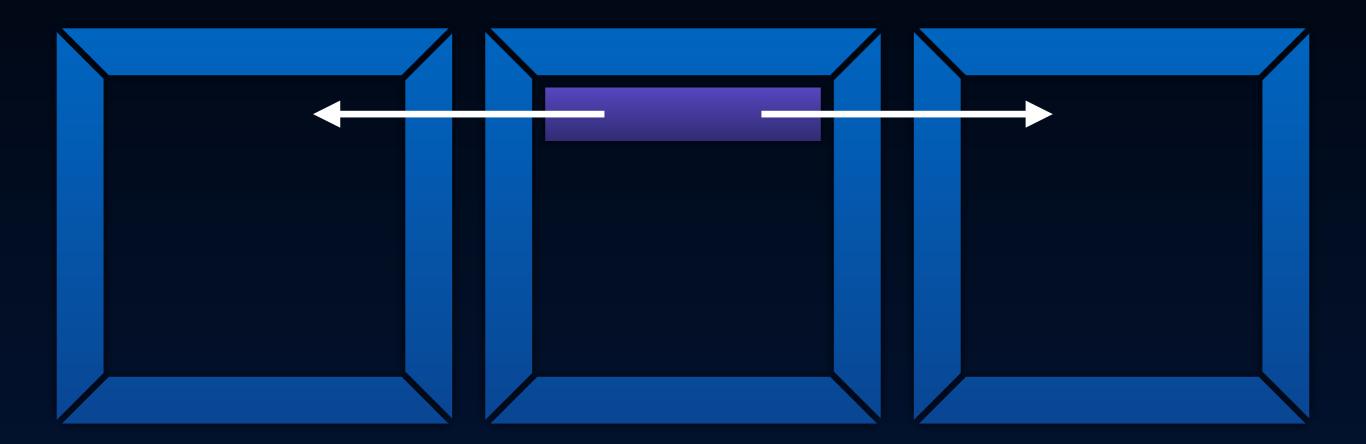


What do you need to use Bootstrap interactive components?

- 1. Link to load Bootstrap CSS file.
- 2. Script elements to load 3 JavaScript files.
 - 3. HTML code with elements that include classes defined in Bootstrap.

Preparing for Midterm Project

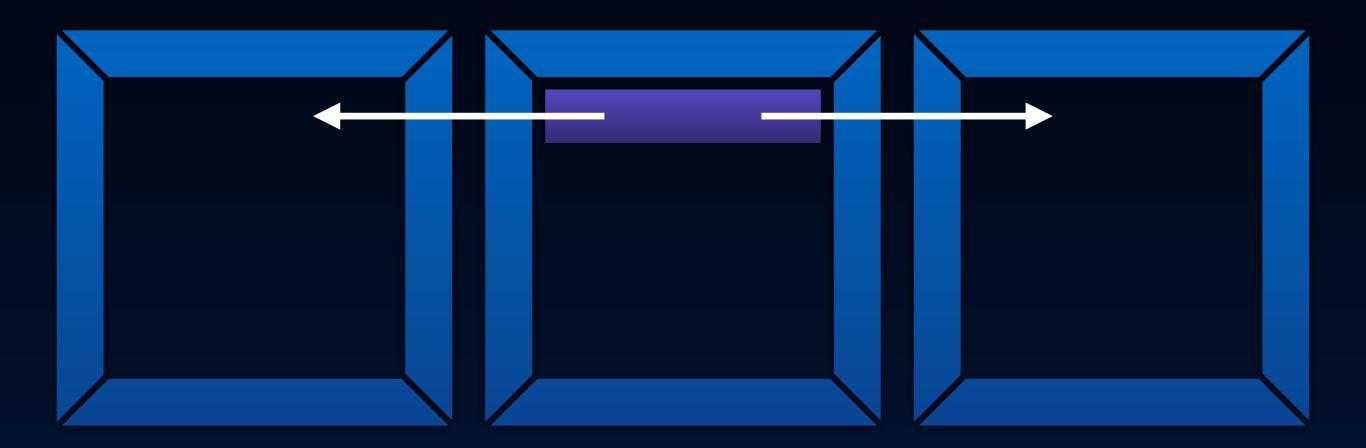
Nav Prototype of Three Pages



Linked to each other via a Bootstrap navbar.

Preparing for Midterm Project

Nav Prototype of Three Pages



Assignment 4

What to Do Next

Reading

- Read: Designated online pages from getbootstrap.com
 - Bootstrap: Getting Started
 - Bootstrap: Components: Navs
 - Bootstrap: Components: Navbar
 - Bootstrap: Components: Pagination
 - Bootstrap: Utilities: Spacing

Homework

- Assignment 4: Responsive Navigation
- Complete Assignment 4 using your new Cloud9 workspace.

· Canvas Site

- All materials available there
- https://canvas.santarosa.edu/courses/32995