Bootstrap

Bootstrap

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- Welcome to the Bootstrap Section!
- Bootstrap is a very common framework used for Front-End Development
- What is a Framework?

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- Framework
  - Inversion of Control
  - Default Behavior
  - Extensibility
  - Non-modifiable Framework Code

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- A large part of Bootstrap is not memorization but really understanding how to reference the documentation for your own use cases
- This section will focus on common uses of Bootstrap

Bootstrap v3 versus v4

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- Bootstrap 4 is currently in development and will be released soon!
- It may be released by the time you view this, but if it hasn't yet, you can always use the alpha and beta versions right now!

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- For our level of use of Bootstrap, the differences between v3 and v4 won't really be apparent to us
- v4 is a major rewrite from v3, but we won't dive deep enough to notice many of these differences

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- Some differences:
  - Panels are being replaced by cards
  - Larger default font sizes
  - New grid tier (XL)
  - Use of flexbox
  - Moved from Less to Sass

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- The most important thing to get out of this section is the ability to reference the Bootstrap documentation
- Now let's explore the documentation and some examples of what bootstrap looks like!

Bootstrap - Part 1 Buttons

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- A key feature of Bootstrap are its default classes
- You can call these classes to quickly and easily build good looking features for your web application!

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- We'll go over button classes as well as container and Jumbotron classes.
- First we will start off by showing how to connect an HTML file to Bootstrap!
- Let's get started!

Bootstrap - Part 2 Forms

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- A quick note before we begin to discuss Forms with Bootstrap.
- Many students get intimidated by Bootstrap, thinking they need to memorize all the classes we cover in this section.

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- That is certainly not the case!
- Think of this section more as a guide to the documentation and what is possible with Bootstrap, not as an overview of things you need to memorize!

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- Even people who work with Bootstrap often will reference the documentation a lot.
- We want to master the skill of gathering and applying information, not memorizing information!

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- Bootstrap comes with many default classes for forms.
- Let's explore the various form components we can use with Bootstrap!
- We will be referencing the course notes quite a bit!

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Bootstrap - Part 3 Navbars

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- Navbars are navigational bars that you will often see on the top of a website
- In this section we will show how to manually create the basics of a NavBar
- Later on we will just copy and paste from the course notes!

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- We will also see how to connect an HTML page to Javascript and jQuery
- We haven't really discussed those two technologies yet, but we will need them for some functionality of the NavBar!
- Let's get started!

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- The grid system for Bootstrap is one of its most fundamental features
- So far we've mostly seen convenient tools that Bootstrap provides through classes.
- The grid system goes much further than that!

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- The grid system provides the core mechanism by which using Bootstrap allows websites to look good across multiple devices of multiple screen sizes
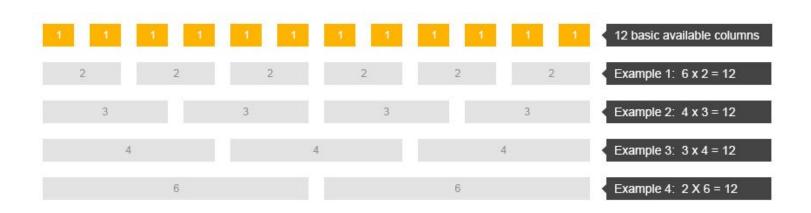- Let's get started!
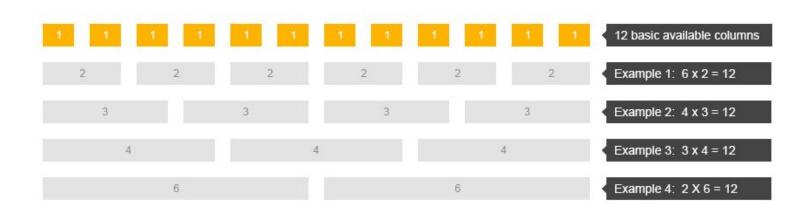
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- What happens on different screen sizes?

- We split the entire screen into 12 available columns.

1	1	1	1	1	1	1	1	1	1	1	1	12 basic available columns
2		2		2		2		2		2		Example 1: 6 x 2 = 12
3			3			3			3			Example 2: 4 x 3 = 12
4				4				4				Example 3: 3 x 4 = 12
6						6						Example 4: 2 X 6 = 12

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- We can use any combination of numbers that will eventually add up to 12 columns

	12 basic available columns
1 1 1 1 1 1 1 1 1 1 1 1	
2 2 2 2 2 2	Example 1: 6 x 2 = 12
3 3 3 3	Example 2: 4 x 3 = 12
4 4 4	Example 3: 3 x 4 = 12
6 6	Example 4: 2 X 6 = 12

- The grid system call will make use of the class="row"

1	1	1	1	1	1	1	1	1	1	1	1	12 basic available columns
2		2		2		2		2		2		Example 1: 6 x 2 = 12
3			3			3			3			Example 2: 4 x 3 = 12
4				4				4				Example 3: 3 x 4 = 12
6						6						Example 4: 2 X 6 = 12

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- Inside of a row class, we then have the following format:
  - `col-ScreenSize-NumberOfColumns`

| | | | | | | | | | | | | 12 basic available columns |
|1|1|1|1|1|1|1|1|1|1|1|1| |

| 2 | 2 | 2 | 2 | 2 | 2 | Example 1: 6 x 2 = 12 |

| 3 | 3 | 3 | 3 | Example 2: 4 x 3 = 12 |

| 4 | 4 | 4 | Example 3: 3 x 4 = 12 |

| 6 | 6 | Example 4: 2 X 6 = 12 |

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- Inside of a row class, we then have the following format:
  - `col-md-6`

| | 12 basic available columns |
| Example 1: 6 x 2 = 12 |
| Example 2: 4 x 3 = 12 |
| Example 3: 3 x 4 = 12 |
| Example 4: 2 X 6 = 12 |

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- So we can define how the columns should be shown when the screen gets resized.
- Let's get started with some examples!

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- For this project you will be recreating a landing page and a Sign-In page that take advantage of Bootstrap's features.
- Open the Bootstrap_Project_Main.html file to see the full instructions.

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- Remember that you can either tackle this project on your own first, or just follow along with Solutions Lecture, whichever you prefer!
- Let's take a quick look at the project!

Capstone Project One Solutions - Continued

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- We've learned a lot about HTML and CSS, two major components of any website.
- Before we move on to Bootstrap, let's take a moment to practice everything we've learned so far with a Capstone Project!

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- You will be creating a mock landing page for a start-up.
- The landing page will have a form and lead to a Thank You page.
- This capstone project is optional and there are three ways you can approach it!

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- If you feel very confident in HTML and CSS feel free to just skip this project
- You can just follow along with the solution videos.
- Try to recreate the landing page before watching the walkthrough videos.

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- Let's take a look at the Landing Page, see the requirements, and then you can get started!

Command Line Crash Course

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- Being able to navigate your computer through the command line is a vital skill for any web developer!
- Some commands are slightly different depending on if you use Windows or MacOS/Linux

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- In this lecture we will briefly go over a few important commands you should know and point out OS differences
- You can always use the downloaded notes for reference!