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LESSON 6: Bootstrap 4

HTML 300





OVERVIEW

- 1. Intro To Bootstrap
- 2. CSS Components
- 3. Grid System
- 4. Widgets
- 5. In Class Exercise
- 6. Assignment 6



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INTRO TO BOOTSTRAP



BOOTSTRAP

- Bootstrap is an open source CSS front-end framework
- Built in UI components to save time on development
- Responsive to tablet and mobile
- Cross browser compatible.



BOOTSTRAP SETUP

 You will use a CDN or Content Delivery Network to add Boostrap to your project. You have already done something like this in JQuery

DISPLAY SIZE WITHOUT BOOTSTRAP DISPLAY CLASS

<h1>Display One</h1>
<h1>Display Two</h1>
<h1>Display Three</h1>
<h1>Display Four</h1>

Display One
Display Two
Display Three
Display Four



DISPLAY SIZE WITH BOOTSTRAP DISPLAY CLASS

Notice the size difference using classes instead of CSS

```
<h1 class="display-1">Display One
</h1>
     <h1 class="display-2">
Display Two</h1>
     <h1 class="display-3">
Display Three</h1>
     <h1 class="display-4">
Display Four</h1>
```

Display One
Display Two
Display Three
Display Four



PARAGRAPH WITH OUT BOOTSTRAP LEAD CLASS

```
Lorem ipsum dolor sit amet,
  consectetur adipisicing elit.

Aperiam dolore repellendus veniam consequatur vero
  numquam
     voluptatem quam ab
  expedita eum, ipsam? Necessitatibus dicta quaerat, vitae
  dolorum, dolor autem reiciendis sapiente.
```

eum, ipsam: necessitatious dicta quaerat, vitae dolorum, dolor autem reiciendis sapieme.

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam dolore repellendus veniam consequatur vero numquam voluptatem quam ab expedita eum, ipsam? Necessitatibus dicta quaerat, vitae dolorum, dolor autem reiciendis sapiente.



PARAGRAPH WITH BOOTSTRAP LEAD CLASS

The text of the paragraph becomes larger and more

```
class="lead">Lorem ipsum dolor sit amet,
  consectetur adipisicing elit.

Aperiam dolore repellendus veniam consequatur vero
  numquam oluptatem quam ab expedita eum, ipsam?

Necessitatibus dicta quaerat, vitae dolorum, dolor autem
  reiciendis sapiente.
```

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam dolore repellendus veniam consequatur vero numquam voluptatem quam ab expedita eum, ipsam? Necessitatibus dicta quaerat, vitae dolorum, dolor autem reiciendis sapiente.

. .



TEXT TRANFORM

```
MAKE LOWERCASEmake uppercasemake capitalized
```

MAKE LOWERCASE

make uppercase

make capitalized



TEXT TRANFORM WITH BOOSTRAP

```
MAKE LOWERCASE
make uppercase
make capitalized
```

Italic lext

make lowercase

MAKE UPPERCASE

Make Capitalized



INLINE LISTS

```
     Lorem ipsum
     Lorem ipsum 
     Lorem ipsum
```

- Lorem ipsum
- Lorem ipsum
- Lorem ipsum



INLINE LISTS WITH BOOTSTRAP CLASSES

The class of "list-inline", gets rid of the list styling.

The class of "list-inline-item", keeps the li elements inline.

```
      Lorem ipsum
      Lorem ipsum 
      Lorem ipsum
```

Lorem ipsum Lorem ipsum Lorem ipsum



TEXT ALIGNMENT

```
Text aligned left
Text aligned center
Text aligned right
```

Text aligned left

Text aligned center

Text aligned right

Right aligned on small or larger



INLINE

To change a block element to an inline element use class "d-inline". Normally "Hello" and "Goodbye" would be on different lines. But, because I used "d-inline", they are in the same line.

<h1 class="d-inline">Hello</h1>
<h1 class="d-inline">Goodbye</h1>

second to section meses tone to tone section

Hello Goodbye



INLINE BLOCK

If you want two div elements next to each other user the class "d-inline-block"

Hello Hello

This is inline This is inline



COLORS FOR TEXT

This works for text and links.

Text Primary Color

Text Secondary Color

Text Success Color

Text Info Color

Text Warning Color

Text Danger Color

Text Light Color

Text Dark Color

Text White Color

Text Muted

Text Black 50



BACKGROUND COLORS

Background Primary Color

Background Secondary Color

Background Success Color

Background Info Color

Background Warning Color

Background Danger Color

Background Light Color

Background Dark Color

Background White Color

Background Transparent

Hello



SPACING MARGIN AND PADDING

You can add margin or padding using 0-5. 0 is for none, 5 is for max.

```
//Margin Top Of Five
class="mt-5"
//Padding on left and right of 3
class="px-3"
//Margin top and bottom of 2
class="my-2"
//Padding all around of 3
class="p-3"
```



HEIGHT AND WIDTH

You can control how much of the width or height the element takes of its parent div.

```
//Take 25% of parent div class="w-25"
//Takes 50% of parent div class="h-50"
```



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CSS COMPONENTS



BUTTONS

Buttons have the same color schemes as text.

<button class="btn btn-primary">Primary</button>

Primary

We can also make buttons large.
 button
 button class="btn btn-lg btn-primary">Primary/button>

Primary

We can also make button smaller

<button class="btn btn-sm btn-primary">Primary</button>

Primary

These can also be used for a tags and inputs



BUTTONS

Buttons can change on hover

<button class="btn btn-outline-primary">Primary

Primary Outline

When hovering over the button it changes to.

Primary Outline



BUTTON GROUPS

Left Middle Right

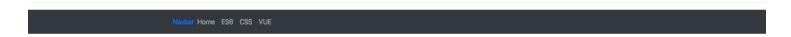
Left Middle Right



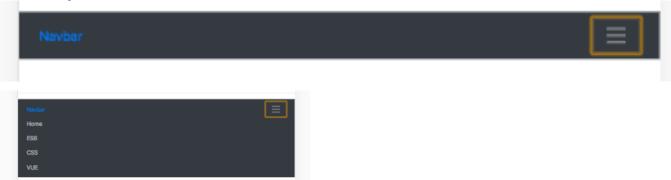
Here is code for a collapsible navbar:



Here is what it looks like on a large screen



 Here is what it looks like on a small screen, notice the hamburger looking icon. When you click on it, the menu expands.





So what do all these terms mean?

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
</nav>

- The nav element is an HTML5 element.
- The class navbar lets your browser know it is a navbar.
- Navbar-expand-lg, the navbar will only expand on large screens; anything less and you will see the hamburger icon.
- Navbar-dark and bg-dark make the navbar and background color dark.



<div class="container"></div>navbar-nav

 A container class pushed the element into the middle. Give some padding around the element

- This is for the hamburger icon.
- The data-target "#navbarNav" is the id for div that wraps the "ul", so when you click on the hamburger the menu expands.



FORMS

For every input in a form you are going to surround it with a div that has a class of "form-group".

Then in your input you are going to add the class "form-control"

Name

Enter name



FORM SUBMIT BUTTON

For buttons on forms you can add btn-block. This will make the button take up the entire width of the from

<button type="submit" class="btn btn-primary btn-block">Submit</button>

Submit



ALERTS

Alerts are great way to get a message to your user. Alerts share the same colors as buttons.

Dark Please check the log files

Dismissable Blog post added

- 32



ALERTS

The alert lets the browser know that this is an alert.

The alert-success gives it is color.

The alert-dismissible allows the user to close the alert.

For the button you use a class of "close" and data-dismiss of "alert" so the user can close the alert



CARDS

My Card Header

Card Title Goes Hers

Lorem ipsum dolor sit amet, consectetur adipisicing.

Read More Online

This is a card footer



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Grid System



GRID SYSTEM

- The Grid system is probably the best reason to use Bootstrap.
- You can control how many columns different elements take up on a desktop, tablet, and phone.
- The is no need for CSS media queries because that is done for you.
- You can set the columns sizes to change based on small, medium, large, and extra large.



GRID

EXTRA LARGE SCREEN





MEDIUM SCREEN

- Some Text
- Some Text
- Some Text
- Some Text

- Some Text
- Some Text
- Some Text
- Some Text



SMALL SCREEN

- Some Text
- · Some Text
- · Some Text
- · Some Text

- Some Text
- Some Text
- Some Text
- Some Text



EXTRA SMALL SCREEN

- Some Text
- Some Text
- Some Text
- Some Text

- Some Text
- Some Text
- Some Text
- Some Text



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Widgets



COLLAPSE

- You can hide element that will appear when you click on a button.
- Adding data-toggle "collapse" tells the browser that this is going to be used for collapse.
- The data target is for the id of what will collapse.



COLLAPSE

Here is the Button

Read More

Here is what happens when you click on the button.

Read More

Look at me. Look at me. Look at me. Look at me.



 An accordion is a great way to not overwhelm the user with content.

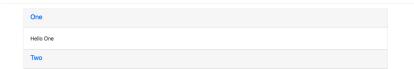




- We set the id to "accordion" so the child elements know which element to refer to.
- The <a> tag has an href so when you click on it, it will open the content.
- Then the id of the element is the same as the href.
- The content element also has a class of "collapse" and "show", "show" is so the first element will show.



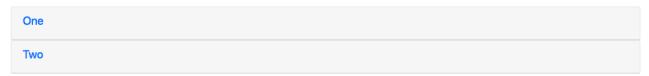
On start.



• Open Two.



• All of them closed.





MODAL

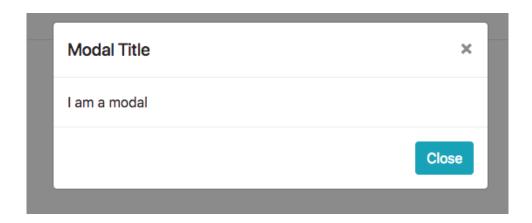


MODAL

Here is the button



Here is the modal when you click on the button





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Activity



ACTIVITY

Create a form using Bootstrap 4 and jQuery.

The form has two buttons.

One that has "click me" and other has "submit".

The submit button should be greyed out and unclickable (the form should not submit).

When you hover over the submit button a tooltip should appear letting the user know to click the other button.



ACTIVITY

 Once the user clicks on the other button, the submit button should no longer be greyed out, clickable (form will submit), and tooltip should not show when you hover over it.



QUESTIONS

html3@uw.edu

As always feel free to contact the instructional team if you have any questions. They do have a full-time jobs, so they might not get back to you immediately.

If you do not hear back from them in 48 hours, please try again.

