



# Bootstrap 2

## Prep Work

- Complete in class assignments and upload them to the server in the [public\\_html/class-samples](#) folder
- Send instructor a link to your assignments
- Work On Treehouse, **Responsive Layouts [47 min]**  
<https://teamtreehouse.com/library/responsive-layouts>
- Work On Treehouse, **Framework Basics [463 min]**  
<https://teamtreehouse.com/library/framework-basics>

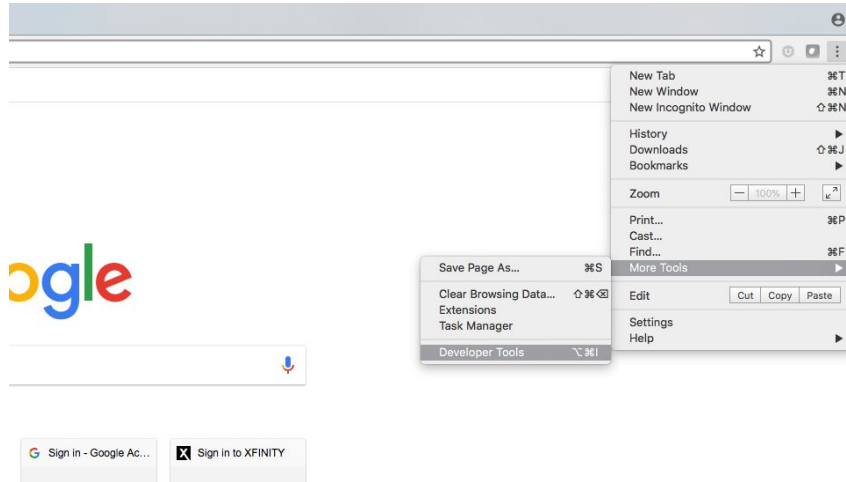
# Today's Topics

- ▣ Spacing Continued
- ▣ Grids Rows and Columns
- ▣ Image and Headings
- ▣ Margins, Offsets and Reordering
- ▣ Navigation and Navbar Components
- ▣ Jumbotrons
- ▣ Dropdowns and Buttons
- ▣ Cards
- ▣ List Groups
- ▣ Modals
- ▣ Scrollspy
- ▣ Styling Bootstrap sites
- ▣ [Bootstrap Project](#)

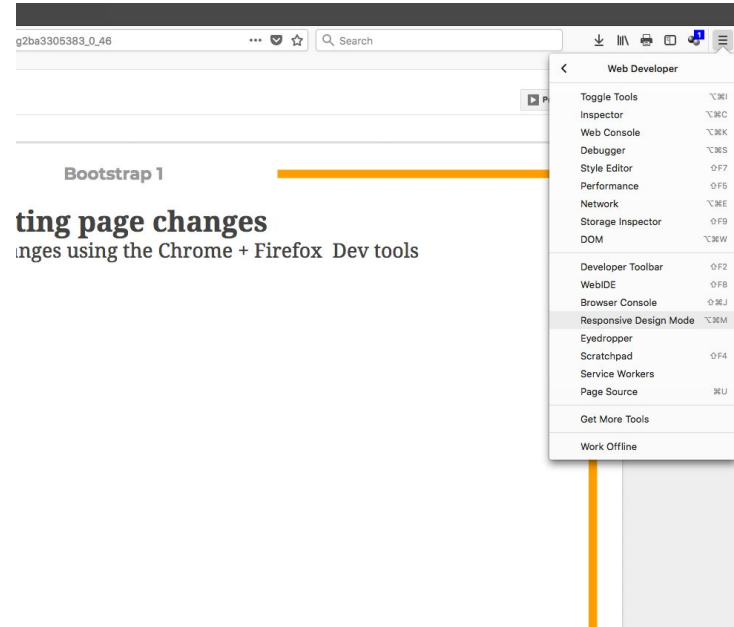
# Testing Page Changes

You Can test your changes using the Chrome + Firefox Dev tools

## Chrome



## Firefox



# Bootstrap Grids

# Layouts Flexbox Grids and Responsive Images

- ▣ **Three Parts to the Grid System:**
  - ▣ **Containers** (required for grid)- `class="container"`  
`class="container"` Centers and adds padding to Site Content  
`class="container-fluid"` spans the width of the page
  - ▣ **ROWS-** Must be added before columns can be defined `class="row"` (horizontal)
  - ▣ **Columns-** Are always nested inside a row, use a device size prefix  
`class="col" + Number of Columns` can be specified by device (phones, tablets, desktops and large form desktops)  
  
(Max 12 columns per row)

# Layouts Flexbox Grids and Responsive Images

## Has 5 device classes

- Extra Small (iPhone 4)- `col-`
- Small (Phones)- `col-sm-`
- Medium (Tablets)- `col-md-`
- Large (Desktops)- `col-lg`
- Xtra Large (Form Desktops)- `col.xl-`

# Bootstrap Media Query Ranges

[Copy](#)

```
// Extra small devices (portrait phones, less than 576px)
// No media query since this is the default in Bootstrap

// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }

// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }

// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }

// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```



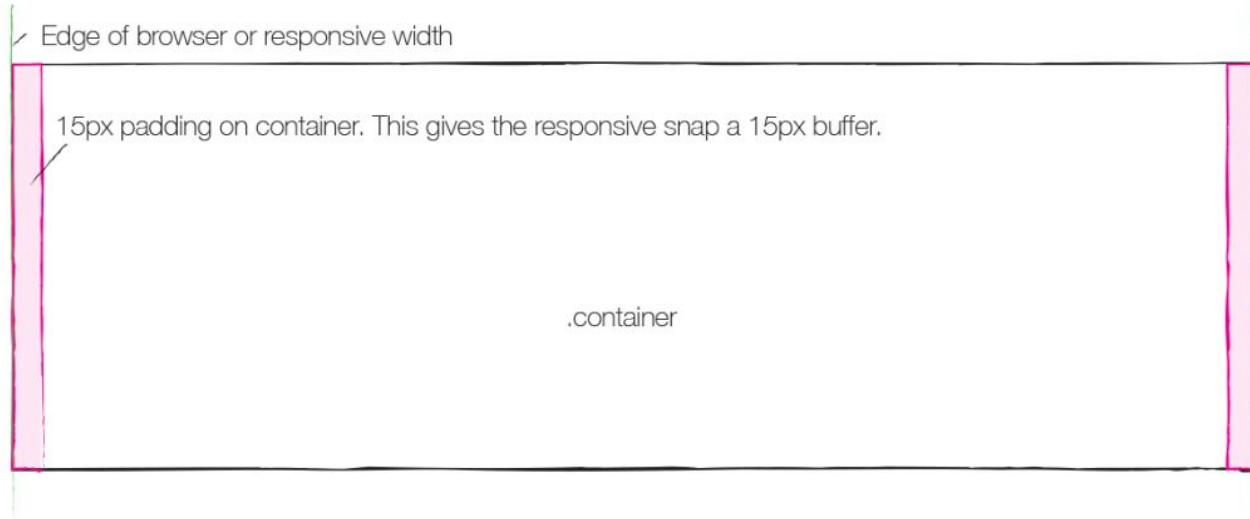
# Bootstrap Grid Options

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-
# of columns	12				
Gutter width	30px (15px on each side of a column)				
Nestable	Yes				
Column ordering	Yes				

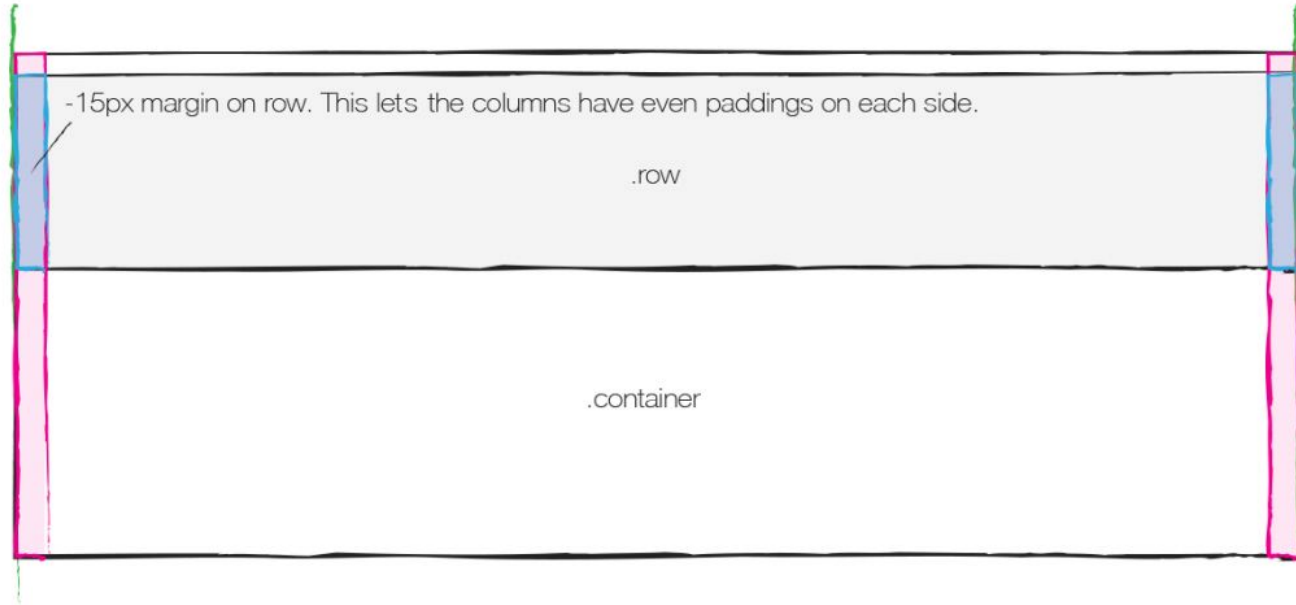
## Rules of the Rows

- The `row` or `class="row"` class creates a row for columns to nest inside  
`<section class= "row"><article>Col 1</article></section>`
- Can have 1 to 12 columns in a row
- Rows have -15px margin on left and right

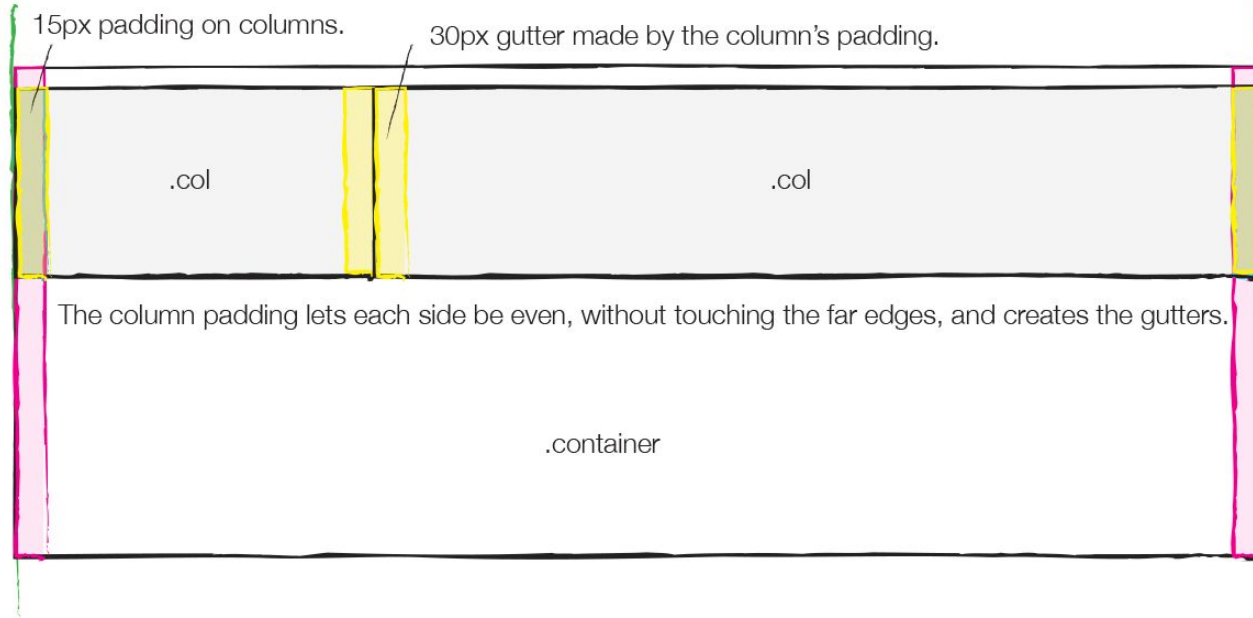
# Rules of the Rows



## Rules of the Rows



## Rules of the Rows



## Columns

- `col` creates equal sized columns equal to the **12** total in the row
- `col-4` creates **3** equal sized columns equal to the **12** total in the row.
- `col-6` creates **2** equal sized columns equal to the **12** total in the row.
- Have utility classes to specify size of the column or number of columns to span at each breakpoint or screen size. The total must equal 12 `col-sm-4`

To Access Grid Layouts go to:

<http://getbootstrap.com/docs/4.0/layout/grid/>

# Bootstrap Sample Grid

1 of 3

2 of 3

3 of 3

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

[Copy](#)

`col` makes all of them equal size

Can use `divs` or `sections` and `articles`

# Columns

col 1

col 2

col 3

To Access Grid Layouts go to:

<http://getbootstrap.com/docs/4.0/layout/grid/>



## In Class Exercise

- ❑ Download and save the `enhanced_start.html` file and images folder and save it to the [public\\_html/class-samples/](#) folder on your computer.
- ❑ Download the images and save it to the [public\\_html/class-samples/images](#) folder on your computer.
- ❑ Open the [enhanced\\_start.html](#) file in brackets.
- ❑ Add a `<div>` with the class container for your main container.
- ❑ Add a `<section>` with the class `row` and 3 `<article>` columns with class `col` to the page inside the container element. Make them equal size.
- ❑ Add comments around the main container and the new row
- ❑ Add the About, Expert Speakers, and What You'll Learn text into the columns from the file sent to you "text for the PBCS Conf page"

# In Class Exercise

## About PBCS Conf

The beautiful city of Palm Beach, FL will be the host city for PBCS Conf!

Explore the future of JavaScript with a lineup of industry professionals. Discover new techniques to advance your career as a web developer.

## Expert Speakers

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Want to meet the international JavaScript community and share skills with some of the world's top experts, hackers, and makers? Be the first to know what to expect for the future of JavaScript.

The PBCS Conf is committed to being inclusive and welcoming for everyone. We look forward to another intensive day of learning and sharing.

## What You'll Learn

- **MongoDB:** SQL database
- **Express:** Framework for Node
- **React:** JavaScript library
- **Node.js:** JavaScript environment
- **ES2015:** Latest version of JavaScript
- **Babel:** JavaScript compiler

## Bootstrap 2

```
<!--      Main Container-->

<div class="container">

  <!--      about section begin-->
  <section class="row">

    <article class="col">
      <h3>About PBCS Conf</h3>
      <p>The beautiful city of Palm Beach, FL will be the host city for PBCS Conf!</p>
      <p>Explore the future of JavaScript with a lineup of industry professionals. Discover new
      techniques to advance your career as a web developer.</p>
    </article>

    <article class="col">
      <h3>Expert Speakers</h3>
      <p>Our expert speaker lineup was just announced, so don't wait too long before grabbing your
      tickets!</p>
      <p>Want to meet the international JavaScript community and share skills with some of the world's
      top experts, hackers, and makers? Be the first to know what to expect for the future of
      JavaScript.</p>
      <p>The PBCS Conf is committed to being inclusive and welcoming for everyone. We look forward to
      another intensive day of learning and sharing.</p>
    </article>

    <article class="col"><h3>What You'll Learn</h3>
    <ul>
      <li><strong>MongoDB</strong>: SQL database</li>
      <li><strong>Express</strong>: Framework for Node</li>
      <li><strong>React</strong>: JavaScript library</li>
      <li><strong>Node.js</strong>: JavaScript environment</li>
      <li><strong>ES2015</strong>: Latest version of JavaScript</li>
      <li><strong>Babel</strong>: JavaScript compiler</li>
    </ul>
    </article>

  </section>

  <!--      about section end-->

</div>

<!--      Main Container End -->
```

# **Bootstrap Spacing & Grids**

# Spacing and Grids

The spacing utilities can be combined with with grid or other elements to space items.

Where *property* is one of:

- **m** - for classes that set `margin`
- **p** - for classes that set `padding`

Where *sides* is one of:

- **t** - for classes that set `margin-top` or `padding-top`
- **b** - for classes that set `margin-bottom` or `padding-bottom`
- **l** - for classes that set `margin-left` or `padding-left`
- **r** - for classes that set `margin-right` or `padding-right`
- **x** - for classes that set both `*-left` and `*-right`
- **y** - for classes that set both `*-top` and `*-bottom`
- blank - for classes that set a `margin` or `padding` on all 4 sides of the element

Where *size* is one of:

- **0** - for classes that eliminate the `margin` or `padding` by setting it to `0`
- **1** - (by default) for classes that set the `margin` or `padding` to `$spacer * .25`
- **2** - (by default) for classes that set the `margin` or `padding` to `$spacer * .5`
- **3** - (by default) for classes that set the `margin` or `padding` to `$spacer`
- **4** - (by default) for classes that set the `margin` or `padding` to `$spacer * 1.5`
- **5** - (by default) for classes that set the `margin` or `padding` to `$spacer * 3`
- **auto** - for classes that set the `margin` to `auto`

(You can add more sizes by adding entries to the `$spacers` Sass map variable.)

# Spacing and Grids

## Margin and Padding Classes

Use the **margin** and **padding** [spacing utilities](#) to control how elements and components are spaced and sized.

Bootstrap 4 includes a five-level scale for spacing utilities, based on a **1rem** value default **\$spacer** variable. Choose values for all viewports (e.g., **.mr-3** for **margin-right: 1rem**), or pick responsive variants to target specific viewports (e.g., **.mr-md-3** for **margin-right: 1rem** starting at the **md** medium breakpoint)

Spacing shorthand **mx** (left and right) and **my** (top and bottom) will give you spacing on sides based on x and y. For all 4 sides use just **m**  
<http://getbootstrap.com/docs/4.0/utilities/spacing/>

# Spacing and Grids

## In class exercise continued:

- Space the main container element item at the top using padding `pt-4`
- Space each of the `<h3>` elements on the bottom by adding a class and using margin the `mb-4` classname
- Add the `pdx.jpg` image to the **about** column below the `<h3>` and add a class for margin to the bottom of the image using margin class" `mb-4`

# Spacing and Grids

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# Modifying Images and Making Them Responsive

## Responsive images

Images in Bootstrap are made responsive with `img-fluid` **max-width: 100%; and height: auto;** are applied to the image so that it scales with the parent element or container.

<http://getbootstrap.com/docs/4.0/content/images/>

**Can also combine with border and radius utility class to create effects on images**

<http://getbootstrap.com/docs/4.0/utilities/borders/>

Borders: `border`

Colors: `border -primary -secondary -success -danger -warning -info`

Radius

`rounded`

`rounded -top -bottom -right -left -circle`

# Customizing and Styling Headings and Typography

## Fancy display heading

`<h3 class="text-muted">With faded secondary text</h3>`

## Display headings (used in last class)

`<h3 class="display-4">Text Stands Out</h3>`

Traditional heading elements are designed to work best in the meat of your page content. When you need a heading to stand out, consider using a `display-4` heading—a larger, slightly more opinionated heading style.

## Center, right , left (center used in last class)

`<h3 class="text-center">Text Stands Out</h3>`

Make type/text align `text-center`

## Lead (used in last class)

`<p class="lead">Paragraph Stands Out</p>`

Make a paragraph stand out by adding the class `lead`

## In class exercise continued:

- ❑ Make the image responsive using `img-fluid` class to the `img` tag and make it size to the column
- ❑ Add the `rounded` radius class to the image to round the corners
- ❑ Space the image on the bottom using the `mb-4` margin spacing class
- ❑ Add a two new headings from the file sent to you "text for the PBCS Conf page" below the about section `<!--speakers-->` `<!--schedules-->` above the close for the main container
- ❑ Add the `display` heading utility class to the `<h1>` on the speakers and schedules text using `4` for the size i.e. `class="display-4"`
- ❑ Center align the speaker and schedule headings using the `text-center` utility class in the `<h1>`
- ❑ Space the headings using the shorthand spacing utility class `m` and `y` to add padding to the top and bottom of the sections. (use `5` for the size) `class="my-5"`
- ❑ Add a fancy text fade to each of the headings `<h1>` using `text-muted` content typography class

# Image and Text Changes

## About PBCS Conf



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## Speakers

Speaker Bios

## Schedules

Schedules info

## Classes Across Each Device

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-
# of columns	12				
Gutter width	30px (15px on each side of a column)				
Nestable	Yes				
Column ordering	Yes				

## Modifying Columns Based On Viewport Range

- ▣ Setting columns using the bootstrap grid or col class will scale the columns equally as you resize but not stack them
- ▣ You don't have to add a column width at every breakpoint
- ▣ You set the stacking based on the breakpoints or screen size you want to stack the items for.
- ▣ The `col-sm` class would stack items only in the extra small range or anything below 576px.
- ▣ The `col-md` class would stack items in the extra small and small or anything below 768px.
- ▣ If you set the breakpoint to `col-lg` it would stack on extra small, small, and medium breakpoints or screens

## Modifying Columns Based On Screen Size

- ❑ Can also set the size of each box based on the breakpoint using a number. The box size would be based on the 12 grid system `class="col-sm-6"` if you set the box size to one column the others will take up the rest of the grid and resize around it.
- ❑ Can also have multiple grid classes for a column by adding a number at each breakpoint `class="col-lg-6"` applies 6 grid spaces to the large viewport for the column you place it in making the column you assign it to larger in the extra large viewport
- ❑ Can also set grid or columns at multiple breakpoints. Used if you wanted to eliminate white space or change layout for each device type `class="col-lg-6 col-sm-6"`

## Must total 12 Columns Per Page & Depends on Viewport

.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1
.col-md-8								.col-md-4			
.col-md-4				.col-md-4				.col-md-4			
.col-md-6						.col-md-6					



## Adding additional rows and columns to a page:

- ❑ Can have up to 12 columns in a grid depending on viewport
- ❑ You can calculate the column based on your need and or parts. The row will float each column next to one another
- ❑ Columns can be defined based on each breakpoint `col- col-sm- col-md- col-lg- col-xl-` with column count or number

<http://getbootstrap.com/docs/4.0/layout/grid/#responsive-classes>



## Sample Column Layout

Large Screen



Medium Screen



Small Screen



# Sample Column Layout

```

<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

    <title>Columns</title>
  </head>
  <body>

    <!-- Main Container -->

    <div class="container pt-4">

      <section class="row">
        <article class="col-sm-6 col-lg-3 bg-primary">
          <p>&nbsp;</p>
          <p>&nbsp;</p>

        </article>

        <article class="col-sm-6 col-lg-3 bg-success">
          <p>&nbsp;</p>
          <p>&nbsp;</p>

        </article>

        <article class="col-sm col-lg-3 bg-danger">
          <p>&nbsp;</p>
          <p>&nbsp;</p>

        </article>

        <article class="col-sm col-lg-3 bg-info">
          <p>&nbsp;</p>
          <p>&nbsp;</p>

        </article>

      </section><!-- Section End -->

    </div>
    <!-- Main Container End -->

    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCKRr/rE9/Qpg6AAGZjwFDMVNA/GpGFF93hXpG5KkN" crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js" integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q" crossorigin="anonymous"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js" integrity="sha384-JZR6Spejh4U02d8j0t6vLEHfe/QJG1RRSQQxSfFwP11MquVdAyjUar5+76PVCmY1" crossorigin="anonymous"></script>
  </body>
</html>

```

## Bootstrap Grid Help

- <http://www.helloerik.com/the-subtle-magic-behind-why-the-bootstrap-3-grid-works>
- [https://medium.com/@erik\\_flowers/how-youve-been-getting-the-bootstrap-grid-all-wrong-and-how-to-fix-it-6d97b920aa40](https://medium.com/@erik_flowers/how-youve-been-getting-the-bootstrap-grid-all-wrong-and-how-to-fix-it-6d97b920aa40)

# **Bootstrap Arranging Content**

## Reordering Content Based on Breakpoint or Device Type

### Order classes

Use `order`- classes for controlling the **visual order** of your content or column. These classes are responsive, so you can set the order by breakpoint (e.g., `order-1 order-md-2`). Includes support for 1 through 12 across all five grid tiers.

**Note** if you use the `class= "order"` at a certain breakpoint the other columns in the row would need the other numbers defined to set the order

Column 1 `class= "col-lg order-lg-1"`

Column 2 `class= "col-lg order-lg-2"`

Column 3 `class= "col-lg order-lg-3"`

<http://getbootstrap.com/docs/4.0/layout/grid/#order-classes>

## In class main section exercise continued:

- ❑ Add the large column utility class to each of the 3 columns `class= "col-lg"` making it collapse at the medium, small and extra small breakpoints.
- ❑ Order the about column to be in the middle of the page for the (large, and extra-large viewports) using the order utility class `class= "col-lg order-lg-2"` About should stack on top beginning at medium breakpoint
- ❑ Add additional column values to order the other two columns
  - ❑ Add `class= "col-lg order-lg-1"` to Expert Speakers
  - ❑ Add `class= "col-lg order-lg-3"` to What You'll Learn

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[Speaker Bios](#)

[Schedules info](#)

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# Speakers

# Schedules



## Offsetting or spacing columns

You can offset grid columns in two ways: our responsive offset- grid classes and our [margin utilities](#). Grid classes are sized to match columns while margins are more useful for quick layouts where the width of the offset is variable.

### Offset classes

Move columns to the right using `offset-md-*` classes. These classes increase the left margin of a column by \* columns. For example, `offset-md-4` moves `col-md-4` over four columns.

`ml.auto` sets auto margin on the left of the column forcing others away from them

- ❑ Used to push columns over to the right for spacing
- ❑ Increases the left margin of a column by # columns

`col-md-4 col-xs-offset-4` -Would offset 4 columns totaling the 12 columns in the grid

`col-xs-offset-#`  
`col-sm-offset-#`  
`col-md-offset-#`  
`col-lg-offset-#`

`col-xs-ml-auto`

<http://getbootstrap.com/docs/4.0/layout/grid/#offsetting-columns>

## Responsive Display/Hide Utility Classes (faster display less data)

- ❑ Used to hide or show items like images or sections of pages when switching to certain viewport breaks

The [display property](#) class accepts a handful of values and we support many of them with utility classes. They purposefully don't provide every value as a utility, so here's what they support:

- d-none *hides at the extra small breakpoint and above*
- d-inline
- d-inline-block
- d-block *shows at the extra small breakpoint and above*
- d-table
- d-table-cell
- d-flex
- d-inline-flex

Put them to use by applying any of the classes to an element of your choice.

<http://getbootstrap.com/docs/4.0/utilities/display/>

# Responsive Display Utility Classes (faster display less data)

Screen Size	Class
Hidden on all	<code>d-none</code>
Hidden only on xs	<code>d-none d-sm-block</code>
Hidden only on sm	<code>d-sm-none d-md-block</code>
Hidden only on md	<code>d-md-none d-lg-block</code>
Hidden only on lg	<code>d-lg-none d-xl-block</code>
Hidden only on xl	<code>d-xl-none</code>
Visible on all	<code>d-block</code>
Visible only on xs	<code>d-block d-sm-none</code>
Visible only on sm	<code>d-none d-sm-block d-md-none</code>
Visible only on md	<code>d-none d-md-block d-lg-none</code>
Visible only on lg	<code>d-none d-lg-block d-xl-none</code>
Visible only on xl	<code>d-none d-xl-block</code>

## In class signup form exercise continued:

- ❑ Add the signup form from the "text for pbc's text document sent" to the page, below the schedule end comment and above the end of the main container
- ❑ Make each of the sign up columns span 5 on the extra large viewport `class="col-md col-xl-5"`
- ❑ Make the stay up to date column offset or move to the right with a margin left auto utility class - `class="col-md col-xl-5 ml-auto"` this will accommodate the last two columns in the grid from the 10 and gives space between the two columns in the extra large viewport
- ❑ Hide the image in the about section of the page by adding the `d-none` class to the image `class="img-fluid rounded d-none"` this will hide it at the extra small breakpoint and above
- ❑ Show the image in the small to extra large viewport using the class `d-block` `class="img-fluid rounded d-none d-sm-block"`

# Modifying, Adding, Re-Ordering and Visibility

## XSM Viewport

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Speakers

## SM-LG Viewport

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Schedules

Speaker Bios

Schedules info

# **Bootstrap Components**

# Navigation and Navbar Components

## Base Nav

- Navigation available in Bootstrap share general markup and styles, from the base `nav` class to the active and disabled states. Swap modifier classes to switch between each style.
- <http://getbootstrap.com/docs/4.0/components/navs/>
- The base `nav` component is built with flexbox and provide a strong foundation for building all types of navigation components. It includes some style overrides (for working with lists), some link padding for larger hit areas, and basic disabled styling.
- The base `nav` component does not include any `active` state. The examples include the class, mainly to demonstrate that this particular class does not trigger any special styling.
- The base `nav` component also contains `nav-items` which are links for the navigation

# Navbar Component

- ❑ **navbar** class sets up the navbar and is a wrapper for its contents to hold, customize and position items like
  - ❑ Brand/Logo
  - ❑ Header
  - ❑ Color
  - ❑ Search box or form elements
  - ❑ Collapses and toggles the menu/nav in different device types
  - ❑ Uses either a list or nested links depending on type you choose
  
- ❑ Placing the **navbar** outside the main **container** will allow it to stretch across the whole page

<https://getbootstrap.com/docs/4.0/components/navbar/>



## Navbar Components (Helper or Utility Classes)

- ▣ `navbar` class sets up the navbar
- ▣ Alignment utility class can align items (Horizontal, Vertical) `justify-content-center`
- ▣ Tabs or pills on the navbar can be created using utility classes `nav-tab` and `nav-pills`
- ▣ `navbar-brand` class is used for company name or project title
- ▣ `navbar-toggler-icon` class uses a span element to give users an indicator that it is a dropdown at the sm and xs breakpoints.
- ▣ `navbar-toggler` shows and hides the `nav` at the sm and xs breakpoints.
- ▣ The `active` and `disabled` classes are used to set the link focus to a specific nav link you are navigating to or to show the link as grayed / disabled
- ▣ The `navbar-dark` or `navbar.light` class change the color depth of the navbar
- ▣ The `bg-primary` or utility color as well as `style= "background-color: color Hex value"` classes/CSS give it color
- ▣ The `fixed-top` or `fixed-bottom` class freezes the navbar at the top so the content scrolls under or behind it

<http://getbootstrap.com/docs/4.0/components/navbar/>

<http://getbootstrap.com/docs/4.0/components/navs/#horizontal-alignment>

<http://getbootstrap.com/docs/4.0/components/navs/#tabs>

## In Class Navbar Assignment:

- ❑ In the [enhanced\\_start.html](#) file add the text titled `<!--Navbar Start-->` and `<!--Navbar End-->` from the text for PBCS conf page file and paste it into the page just below the `<body>` tag and outside of the main [container](#) comment. The Navbar will fit the whole page
- ❑ Remove the [active](#) and [disabled](#) utility classes from the navbar [nav-link](#) items `<a tag>`
- ❑ Move the [navbar-brand](#) to the right side of the navbar using the [order-1](#) class
- ❑ Change the background color of the navbar to dark with color primary (blue) using [navbar-dark](#) and [bg-primary](#) classes instead of existing classes [navbar-light](#) and [bg-light](#)
- ❑ Add a container around the navbar just above the `<nav class="navbar-brand order-1">` and closing container just above `</nav>` to center "the navigation only" above the content of the page
- ❑ Add a margin right of 0 to the navbar-brand using the [mr-0](#) class so the title / brand aligns with right side of the page which makes it flush with the right of the content
- ❑ Make the navbar fixed using the utility class [fixed-top](#) so it stays at the top of the page and the contents scrolls behind it `<nav class="navbar navbar-expand-lg navbar-dark bg-primary fixed-top">`

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## Speakers

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## Bootstrap Jumbotron Component

**Jumbotron is like a banner** - Used to showcase major content or sections of the page and highlights any call to actions for users:

### Jumbotron Class:

`class="jumbotron"` (main box around content)

`class="jumbotron jumbotron-fluid"` (main box around content spans whole page)

### Can use Utility Classes, Headings or Paragraphs to add emphasis and style:

- Additional CSS that can format a heading (`display`) `<h1 class="display-2">` makes it appear large in viewport
- Additional CSS that can format paragraphs and set as main paragraph with formatting (`lead`) `<p class="lead">` also makes it appear smaller in viewport

## In Class Jumbotron Assignment:

- ❑ Copy the text titled `<!--Jumbotron Start -->` and `<!--Jumbotron End-->` from the text for PBCS conf page file and paste it into the page into the `enhanced_start.html` file below the `<!--Navbar end-->` tag and outside of the container.
- ❑ Change the display class in the `<h1>` inside the div that says PBCS CONF and give it a `display-2`
- ❑ Color the jumbotron with the `bg-info` and color the text white using the utility class `text-white` in the jumbotron
- ❑ Center the text in the small viewport using the `text-sm-center` utility class in the `container` div below the jumbotron div
- ❑ Add padding to the top of the jumbotron using the utility class `pt-5` in the `container`

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One-Day Conference!

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# Buttons

- Bootstrap has 9 button states which include a hover
- Buttons can be used as anchors by changing them to href  
`<a class= "btn btn-light btn-lg" href= "...">See Speakers</a>`
- <http://getbootstrap.com/docs/4.0/components/buttons/>

Bootstrap includes several predefined button styles, each serving its own semantic purpose, with a few extras thrown in for more control.

Primary Secondary Success Danger Warning Info Light Dark Link

```
<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-dark">Dark</button>

<button type="button" class="btn btn-link">Link</button>
```

## Sizes

Fancy larger or smaller buttons? Add `.btn-lg` or `.btn-sm` for additional sizes.

Large button Large button

```
<button type="button" class="btn btn-primary btn-lg">Large button</button>
<button type="button" class="btn btn-secondary btn-lg">Large button</button>
```

Small button Small button

```
<button type="button" class="btn btn-primary btn-sm">Small button</button>
<button type="button" class="btn btn-secondary btn-sm">Small button</button>
```

Create block level buttons—those that span the full width of a parent—by adding `.btn-block`.

# Buttons

## Link/Button Classes- sets up the content:

- Buttons can be Single, Split, Dropdown buttons.
- Buttons can be sized, or color can be modified using utility class

`class="btn "`

## Button Utility Classes -add color, size, and style:

- Button Utility Classes can be set like (primary, default, success, info , warning, danger)(large small medium)
- `class="btn btn-success"` these **classes** can be placed directly in the quotes as a second class  
Can also be used as a link by adding `<a class="btn btn-lg btn-success" href="#">Link</a>`
- Outline buttons `.btn-outline` removes all background images and colors on any button.



```
<button type="button" class="btn btn-outline-primary">Primary</button>
<button type="button" class="btn btn-outline-secondary">Secondary</button>
<button type="button" class="btn btn-outline-success">Success</button>
<button type="button" class="btn btn-outline-danger">Danger</button>
<button type="button" class="btn btn-outline-warning">Warning</button>
<button type="button" class="btn btn-outline-info">Info</button>
<button type="button" class="btn btn-outline-light">Light</button>
<button type="button" class="btn btn-outline-dark">Dark</button>
```



## Button Groups

- Buttons can be grouped as a series of buttons together on a single line with the button group, and super-power them with JavaScript.
- <http://getbootstrap.com/docs/4.1/components/button-group/>



Left Middle Right

```
<div class="btn-group" role="group" aria-label="Basic example">  
  <button type="button" class="btn btn-secondary">Left</button>  
  <button type="button" class="btn btn-secondary">Middle</button>  
  <button type="button" class="btn btn-secondary">Right</button>  
</div>
```

[Copy](#)

## In Class Jumbotron and Button Assignment:

- ❑ Copy and paste text from text for PBCS page titled `<!--Buttons Start-->` and `<!--Buttons End-->` into the [enhanced\\_start.html](#) file just below the `<!--Schedule end-->` comment tag but above `<!--sign up form-->`
- ❑ Change to button to large outline button using `class= "btn btn-outline-info btn-lg"`
- ❑ Set the buttons display value to block to move it to the next line using `d-block` class inside the button or `<button class= " btn btn-outline-primary btn-lg d-block">`
- ❑ Center the button using the left right margin or `mx-auto` margin class and add it to the button class
- ❑ Add margin to the top of the button using the margin short hand class `my-5` learned earlier
- ❑ Add text from text for PBCS page titled `<!--Jumbotron Buttons Start-->` and `<!--Jumbotron Buttons End-->` into the **jumbotron just below paragraph "One- Day Conference.."** the `btn-group` utility class groups the buttons on a single line `<div class= "btn-group">`
- ❑ Add a margin spacing to the top of the button group div using the margin utility class `mt-4`
- ❑ Change the [aria-label](#) to say Action Buttons used to make more accessible to people with disabilities.
- ❑ Make the Register button blue instead of gray and the See Speakers button light instead of gray using the utility classes `btn-primary` and `btn-light`
- ❑ Make the See Speakers button an anchor instead of button and link the href to #speakers section by changing the `<button></button>` to an anchor or `<a class= "btn btn-light" href= "#speakers">See Speakers</a>`
- ❑ Delete the `type="button"` from the anchor and make the button large by adding the `btn-lg` utility class
- ❑ Link the button within the page to the Speakers section by adding an `id= "speakers"` to the `<h1>` in the Speakers section in the page

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## Navigation and Dropdowns

- ❑ Dropdowns are toggleable, contextual overlays for displaying lists of links and more
- ❑ Can be used in a navbar or as a footer navigation
- ❑ Uses jQuery and JS library files (at the bottom of the page above `</body>`)
- ❑ Can make a button a dropdown single or split button (has a toggle)
- ❑ Fully Responsive
  
- ❑ Uses bootstrap classes:  
`dropdown` class on a surrounding `<div>`  
`dropdown-menu` class on a list item `<li>`
  
- ❑ Used in combination with `dropdown-toggle` to create the open and close state of the dropdown.
- ❑ Similarly, you can create split button dropdowns with virtually the same markup as single button dropdowns, `dropdown-toggle-split` but with the addition of `dropdown-toggle-split` for proper spacing around the dropdown caret icon.

NOTE: Accessible Rich Internet Applications (**ARIA**) defines ways to make Web content and Web applications (especially those developed with Ajax and JavaScript) more accessible to people with disabilities.

## Navigation and Dropdowns

- ▣ `dropdown-item` class on a surrounding `<a class= "dropdown-item">My Link</a>`
- ▣ `dropdown-divider` Creates a horizontal line between sections of dropdown items
- ▣ Can create drop ups or make the menu appear above using the `dropup` utility class inside your button group which will make the arrow point up and dropdown items appear above the dropdown
- ▣ <http://getbootstrap.com/docs/4.0/components/dropdowns/>

**In Class Dropdowns Assignment:**

- ❑ Add the `<!--footer start --><!--footer end -->` text from the PBCS conf text document and paste it above the `</div> <!--Main Container End-->` that ends the overall container and just below the `<!--/signup form -->`  
This uses the base nav similar to what we used for our navbar earlier
- ❑ Remove the active class from the first list item link `<a class="nav-link active" href= "#"> Community </a>`
- ❑ Copy the split dropdown text from the PBCS conf text document then paste it inside the `<li class="nav-item"> </li>` replacing the `<a class="nav-link" href= "#"> Other Confs </a>` anchor. This uses built-in Javascript to create the dropdown
- ❑ Change the text/menu items for each dropdown item to : HTML 5, CSS, and Javascript (instead of Action Another Action, Something Else Here) for other dropdown menu items
- ❑ Remove the line divider that divides the two dropdowns `<div class="dropdown-divider"></div>`
- ❑ Remove the `<a class dropdown-item href= "#"> Separated link</a>` spacer

## In Class Dropdowns Assignment:

- ❑ Change the Button text or name from Action to Other Confs `<button type="button" class="btn btn-outline-secondary">Action</button>`
- ❑ Change the button colors from danger to outlined gray or `btn-outline-secondary` just below `<div class="btn-group"> <button type="button" class="btn btn-outline-secondary">Action</button> <button type="button" class="btn btn-outline-secondary dropdown-toggle dropdown-toggle-split" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">`
- ❑ Make the arrow point up by adding the `dropup` utility class to the `btn-group` div just below `<!-- Split Dropdown -->` menu displays above since the dropdown is at the bottom of the page  
`<div class="btn-group dropup">`

# Bootstrap 2

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# Adding Cards

- ❑ Used For (Images Headings, List Groups)
- ❑ A **card** is a flexible and extensible content container. It includes options for headers and footers, a wide variety of content, contextual background colors, and powerful display options.
- ❑ Cards replace old Bootstrap 3 panels, wells, and thumbnails. Similar functionality to those components is available as modifier or utility classes for cards.
- ❑ Cards can also be grouped, spaced as decks, or columns using utility classes [card-group](#) [card-deck](#) [card-columns](#)
- ❑ Each card has its own set of sections <http://getbootstrap.com/docs/4.0/components/card/#image-caps>
  - ❑ Body
  - ❑ Title
  - ❑ Text

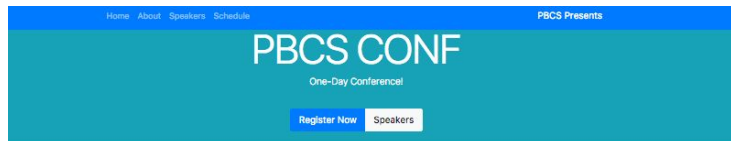
**Reminder Note:** if you have more than 12 columns listed in a row the extra columns will wrap to the next line

<http://getbootstrap.com/docs/4.0/components/card/>

## In Class Card Assignment:

- ❑ Add the speakers cards text `<!-- Speakers Cards Start-->` `<!-- Speakers Cards end-->` from the PBCS conf text document and paste where the speakers bios text is
- ❑ From the PBCS conf text document add the `<!-- Image Caption-->` `<!-- Image Caption End-->` to each column div `<div class="col-md-6"></div>`
- ❑ Add the images provided to each card where the `` replacing the other location `../100px100`
- ❑ Add the speakers `<h1>` heading and `<p>` paragraph from the PBCS Conf text document to each image caption starting with Vivianne into the div replacing the `<h5 class="card-title">Card Title</h5>` and `<p class="card-text">The wider...</p>` Finish the other columns following the same process (Nodestra, Robbie, Ecma, Jay, Json).
- ❑ Add a column breakpoint to all the column divs at the large screen size to display 3 speakers per line in large screens `<div class="col-md-6 col-lg-4">` `</div>` the `col-md-6` will show 2 speakers per line in medium screens and 1 speaker per line in small xsmall screens

## LG Viewport



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## Speakers



### Vivianne

Vivianne is a web developer and teacher who is passionate about building scalable, data-driven web apps, especially ones that address old problems with new tech!



### NodeStra

"NodeStra" is a software engineer and philosopher trying to leave the world better than he found it. He codes for non-profits, eCommerce, and large-scale web apps.



### Robbie

Robbie is a JavaScript developer working on large-scale applications. He's also a teacher who strives to support students in removing barriers to learning code.



### Jay Query

Jay is a developer, author of CSS: The Missing Manual, JavaScript & jQuery: The Missing Manual, and web development teacher.



### JSON

All of his professional life, JSON has worked with computers online; he is a polyglot programmer and likes picking the right tool for the job.



### Ecma

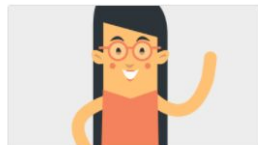
Ecma is a web developer and teacher who is passionate about building scalable, data-driven web apps, especially ones that address

## MD-SM Viewport



- **Node.js:** JavaScript environment
- **ES2015:** Latest version of JavaScript
- **Babel:** JavaScript compiler

## Speakers



### Vivianne

Vivianne is a web developer and teacher who is passionate about building scalable, data-driven web apps, especially ones that address old problems with new tech!



### NodeStra

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### Jay Query

Jay is a developer, author of CSS: The Missing Manual, JavaScript & jQuery: The Missing Manual, and web development teacher.

# List Groups

<http://getbootstrap.com/docs/4.0/components/card/#list-groups>

- ❑ Create lists of content and for displaying a series of content (make them pretty)
- ❑ Uses two classes `list-group` for the list and `list-group-item` for the list items
- ❑ Can be used with a `<div></div>` inside the `<li></li>` with a utility class= "`d-flex justify-content-between`"
- ❑ Use `justify-content` utilities on flexbox containers to change the alignment of flex items on the main axis (the x-axis to start, y-axis if flex-direction: column). Choose from start (browser default), end, center, between, or around.
- ❑ Can style the list item with `list-item-success` `list-item-primary` utility classes within the list item group
- ❑ Can be linked to sections of the pages

# Badges

<https://getbootstrap.com/docs/4.0/components/badge/>

- ❑ Badges scale to match the size of the immediate parent element by using relative font sizing and em units. (contextual, pill, and links)
- ❑ Badges can be used as part of links or buttons to provide a counter.

Example heading **New**

Example heading **New**

Example heading **New**

Example heading **New**

Example heading **New**

Example heading **New**

```
<h1>Example heading <span class="badge badge-secondary">New</span></h1>
<h2>Example heading <span class="badge badge-secondary">New</span></h2>
<h3>Example heading <span class="badge badge-secondary">New</span></h3>
<h4>Example heading <span class="badge badge-secondary">New</span></h4>
<h5>Example heading <span class="badge badge-secondary">New</span></h5>
<h6>Example heading <span class="badge badge-secondary">New</span></h6>
```

Copy

Badges can be used as part of links or buttons to provide a counter.

Notifications **4**

```
<button type="button" class="btn btn-primary">
  Notifications <span class="badge badge-light">4</span>
</button>
```

Copy

# Contextual Classes or Variations

- ☐ <http://getbootstrap.com/docs/4.1/components/list-group/#contextual-classes>
- ☐ Changes the appearance of a badge. Uses `badge-pill` and `badge-primary` classes  
`<span class="badge badge-pill">highlighted item </span>`

## Pill badges

Use the `.badge-pill` modifier class to make badges more rounded (with a larger `border-radius` and additional horizontal `padding`).

Useful if you miss the badges from v3.

Primary Secondary Success Danger Warning Info Light Dark

```
<span class="badge badge-pill badge-primary">Primary</span>
<span class="badge badge-pill badge-secondary">Secondary</span>
<span class="badge badge-pill badge-success">Success</span>
<span class="badge badge-pill badge-danger">Danger</span>
<span class="badge badge-pill badge-warning">Warning</span>
<span class="badge badge-pill badge-info">Info</span>
<span class="badge badge-pill badge-light">Light</span>
<span class="badge badge-pill badge-dark">Dark</span>
```

## Contextual variations

Add any of the below mentioned modifier classes to `change the appearance of a badge`.

Primary Secondary Success Danger Warning Info Light Dark

```
<span class="badge badge-primary">Primary</span>
<span class="badge badge-secondary">Secondary</span>
<span class="badge badge-success">Success</span>
<span class="badge badge-danger">Danger</span>
<span class="badge badge-warning">Warning</span>
<span class="badge badge-info">Info</span>
<span class="badge badge-light">Light</span>
<span class="badge badge-dark">Dark</span>
```

**In Class List Group Assignment:**

- ▣ Add the list group text from the text for pbc's text file into the `<article>` just below the `<h3 class="mb-4">What You'll Learn</h3>` and just above the `</article>` replacing the existing unordered list `<ul></ul>`
- ▣ Add the schedules unordered list text from the text for pbc's text file replacing `<!--Schedules--> <!--Schedules End -->` section created earlier
- ▣ Add a `class="d-flex justify-content-between"` into the `<div></div>` inside the `<li class="list-group-item"></li>` this will help align the first item to the left side and the other element to the right of the list
- ▣ Add a heading `<h5 class="mb-1"> </h5>` with a margin bottom of 1 `mb-1` inside the `<div>` starting with the text from pbc's text file Keynote: Internet Things `<h5 class="mb5">Keynote: Internet Things</h5>`
- ▣ Add a Pill Badge using a `<span></span>` and the utility class `badge-pill` `<span class=" badge badge-pill badge-info p-2"></span>` text and paste below the `<h5>` heading then above the `</li>` then add the text of 9:00AM from pbc's text file to the or `<span class=" badge badge-pill badge-info p-2"></span>`
- ▣ Add a paragraph and a margin of 1 `<p class="mb-1">` containing the speaker name Nostra from pbc's text file and paste below/outside of the `</div>` or `<p class="mb-1">Nostra</p>`

### In Class List Group Assignment:

- ❑ Copy the entire list group item `<!--List Group Item-->` and paste it 3 more times inside or above the `</ul>`
- ❑ Make the schedule times badges 10:00 , 11:00 , 12:00PM `<span class="badge badge-pill badge-info p-2">9:00AM</span>`
- ❑ Change the headings `<h5>` for each heading to HTML5 , Javascript and Lunch `<h5 class="mb5">Keynote: Internet Things</h5>`
- ❑ Change the speaker names for each `<p class="mb-1">Nostra</p>` to Vivianne, JQuery and Free Pizza
- ❑ Style the lunch list group list item with a success using the list item contextual class add it just below the `<ul class="list-group">` and inside the `<li>` should look like `<li class="list-group-item list-group-item-success">`



## Schedules

**Keynote: Internet Things**

Nostra

9:00AM

**HTML 5**

Vivianne

10:00AM

**Javascript**

JQUERY

11:00AM

**Lunch**

Free Pizza!

12:00PM

# Modal Window Components

(Included with bootstrap.js library)

<https://getbootstrap.com/docs/4.0/components/modal/>

- ❑ Creates a standout window that is shadowed/darkened
- ❑ Grid system can be within a modal window
- ❑ Can also use forms inside a modal window
- ❑ `modal` (main surrounding div or wrapper)
- ❑ `modal-lg` utility class will make the modal wider and would be placed in `<div class="modal-dialog" role="document">` next to modal-dialog class

*You will need use an id# in combination with the modal class to target the modal and make it appear (it is hidden by default)*

- ❑ `modal-dialog` centers and positions on the page (new div inside main surrounding div)
- ❑ `modal-content` styles the window with background , border and shadow (new div inside modal content div)
  - ❑ `modal-header` creates a header ( a new div goes inside the modal-content div)
  - ❑ `modal-body` body portion ( new div goes inside the modal-content div)

# Modal Window

- ❑ You use a `data-toggle="modal"` and `data-target="#idname"` to trigger it. The modal target must match id given to the modal component
- ❑ Can place items inside the modal header and body such as buttons, forms, and text

```
<button type="button" class="close" data-dismiss="modal"
aria-hidden="true">&times;</button>
<h4 class="modal-title">We'll Text You the Link!</h4>
```

- ❑ Other classes inside modal header button are used in combination with the modal `.close` and `.data-dismiss`
  - ❑ `.close` creates an x button on top right corner of the modal
  - ❑ `.data-dismiss` closes the modal when the button is clicked

**Note:** When using an id the link to the id can be placed inside the `<a href="#idName">` where you want to launch the modal from in your page and it will trigger the modal.

Also needs `data-toggle="modal"` to trigger the modal

```
<a data-toggle="modal" href="#textModal" >Link to modal</a>
```

## In Class Modal Assignment:

- Add the text for the modal `<!-- =====Modals Start ===== --><!-- ==Modals End ===== -->` to the page from the text for pbcsc text file into the bottom of the page directly below the main page container `</div> <!-- Main Container End -->`
- Change the Modal Title to Register for PBCS in the `<h5 class="modal-title" id="exampleModalLabel"></h5>`
- The main contents of the modal will be in the modal body div `<div class="modal-body"> Form Goes Here</div>`
- The modal will be triggered by the registration button in the middle of the page just below the `<!--Schedule End-->` and button in the jumbotron just below `<!-- Jumbotron Buttons Start -->`
- Change the modal `<div>` id to `register` replacing `exampleModal` located directly below `<!-- Modal -->` `<div class="modal fade" id="register" tabindex="-1" role="dialog" aria-labelledby="exampleModalLabel" aria-hidden="true">`
- Change the `aria-labeledby` value in the the modal `<div>` to `Register Form` located directly below `<!-- Modal -->` `<div class="modal fade" id="register" tabindex="-1" role="dialog" aria-labelledby="Register Form" aria-hidden="true">`

## In Class Modal Assignment:

- Change the `data-toggle="modal" data-target="#exampleModal"` in the open `<button>` tag of the Don't Miss Out Sign Up now button to `data-toggle="modal" data-target="#register"`

```
<button type="button" class="btn btn-outline-info btn-lg d-block mx-auto my-5" data-toggle="modal" data-target="#register">Don't Miss Out Sign Up Now!</button>
```

- Add `data-toggle="modal" data-target="#register"` the open `<button>` tag of the Register Now button inside the jumbotron just below `<!-- Jumbotron Buttons Start -->`

```
<div class="btn-group mt-4" role="group" aria-label="Action Buttons">
```

```
<button type="button" class="btn btn-primary" data-toggle="modal" data-target="#register">Register Now</button>
```

## Bootstrap 2

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PBCS Presents

Register for PBCS

Form Here

Close Save changes

Register Now See Speakers


### Expert Speakers

Our expert speaker lineup was just announced, so don't wait too long before grabbing your tickets!

Want to meet the international JavaScript community and share skills with some of the world's top experts, hackers, and makers? Be the first to know what to expect for the future of JavaScript.

The PBCS Conf is committed to being inclusive and welcoming for everyone. We look forward to another intensive day of learning and sharing.

### About PBCS Conf



The beautiful city of Palm Beach, FL will be the host city for PBCS Conf!

Explore the future of JavaScript with a lineup of industry professionals. Discover new techniques to advance your career as a web developer.

### What You'll Learn

MongoDB: NoSQL database
Express: Framework for Node
React: JavaScript library
Node.js: JavaScript environment
ES2015: Latest version of JavaScript
Babel: JavaScript compiler

Speakers

# Scrollspy Components

(Included with bootstrap.js library)

<https://getbootstrap.com/docs/4.0/components/scrollspy/>

- ❑ Highlight the site's active navigation link when you scroll
- ❑ Automatically update Bootstrap navigation or list group components based on scroll position to indicate which link is currently active in the viewport.
- ❑
- ❑ It must be used on a Bootstrap nav component or list group.
- ❑ Anchors (<a>) are required and must point to an element with that id.
- ❑ Uses `data-spy="scroll" data-target="#navbar-example"`
- ❑ Must change the data target to match class name
- ❑ `data-offset` offsets the value you specify to set when the Scrollspy gets activated

## In Class Assignment:

- ❑ Add `data-spy="scroll" data-target="#navbar-example"` to the `<body>` tag of the page just below the `</head>` tag `<body data-spy="scroll" data-target="#.navbar-example">`
- ❑ Change the `data-target` to `.navbar` classname must have the period to make it work
- ❑ Add the `id= "home"` into the body tag `<body id="home" data-spy="scroll" data-target=".navbar">` which matches the `#home` href in the nav `<a class="nav-item nav-link " href="#home">Home <span class="sr-only">(current)</span></a>`
- ❑ Add an `id` about to the about `<section>` just below the about section comment tag  
`<!-- About Row -->`  
`<section id="about" class="row">`
- ❑ Speakers `id` for that section was added already `<h1 class="display-4 text-center my-5 text-muted" id="speakers">Speakers</h1>`
- ❑ Add the `id` name schedule to the schedules section just below the schedules comment tag and in the `<h1>`  
`<h1 id="schedules" class="display-4 text-center text-muted my-5">Schedules</h1>`

This will update the color on the navigation when you scroll to the section

- ❑ Add the utility class `data-offset="100"` for the value to the `<body>` tag this sets a space to trigger it above the target section and gives a bit of spacing before the color change on the navbar item  
`<body id="home" data-spy="scroll" data-target=".navbar" data-offset="100">`



# Bootstrap Forms

<https://getbootstrap.com/docs/4.0/components/forms/>

- ❑ Form Grouping Class `form-group` Can be used inside a container to group form items and space the elements adding structure to the form. Displays the form vertically

```
<form>
<div class="form-group"></div>
</form>
```
- ❑ Form Classes are used to identify types of elements `form-control` is used for text boxes etc.

```
<input type="tel" class="form-control">
```
- ❑ Form Group and Form Control are used most often
- ❑ Form classes are used to identify types of elements `form-control-label` is used for labels

```
<label class="form-control-label" for="formGroupInput"></label> .
```
- ❑ `form-inline` (for inline forms) can be placed in the main `<form class="form-inline">` tag to make the form display controls next to each other

# Bootstrap Forms

- ❑ Individual form controls automatically receive some global styling. All textual `<input>`, `<textarea>`, and `<select>` elements with `form-control` are set to `width: 100%`; by default. Wrap labels and controls in `form-group` for optimum spacing.

```
<form class= "form">  
</form>
```

- ❑ Form Element Classes `<div class="form-row">` removes the spacing / gutters around the form

## In Class Assignment:

- Remove the modal footer div just before the `div <!-- =====Modals End===== -->`  

```

<div class="modal-footer">
  <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
  <button type="button" class="btn btn-primary">Save changes</button>    </div>

```
- Copy the form information from the text for PBCS conf page file and paste it where the Form Goes Here text is located in the modal body `<div class="modal-body">`  

```

<!--      =====Form Start=====      -->
<!--      =====Form End=====      -->
</div>

```
- Change the for label from `formGroupExampleInput` to `name`, and the label Example Label to Name `<label for="Name">Name</label>`
- Change the input `id` to `name` `<input type="text" class="form-control" id="name">`
- Do the same for the second form element using email for `for="email"` label, type and id

## In Class Assignment:

- ❑ Remove the `placeholder="Example input"` from each input
- ❑ Add a new `<div>` with a class form group , a label `<label for="job">Job Title</label>`, and select form control for job title (you can copy paste).
- ❑ Add a new div with the class `form-group` just above the `</form>` tag `<div class="form-group"></div>`
- ❑ Add a label called job `<label for="conftype">Job</label>`
- ❑ Add a third input inside the new div and make it a `<select></select>`
- ❑ Add an id to the select `<select id="job"></select>` called job
- ❑ Add two options `<option value= " "></option>` inside the select with a value and label called Front End Developer and Back End Developer `<option value="Front End Developer">"Front End Developer"</option>`

## In Class Assignment Cont'd:

- ❑ Directly below `<form>` Add a heading to the form with an `<h5></h5>` titled Basic Info: and give it a class margin bottom of `mb-4` `<h5 class="mb-4">Basic Info</h5>`
- ❑ Add the checkbox text from the PBCS Conf File and paste directly below the `</select></div>`
- ❑ Modify the checkbox id, text, for and the label's value on each to be
  - ❑ Javascript
  - ❑ Bootstrap
  - ❑ HTML-CSS
- ❑ Directly above the first `<div class="form-check">` Add a heading `<h5></h5>` titled What would you like to attend: and give it a class margin bottom of `mb-4`
- ❑ Add an `<hr>` divider line directly above the `<h5></h5>` with a `class="my-4`
- ❑ Add a submit button with a `class="mt-4` below the `</div>` and above the `</form>`  
`<button type="submit" class="btn btn-primary mt-4">Register</button>`

## Bootstrap 2

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### Ecma Scriptin'stun

Ecma found her passion for programming and teaching over 15 years ago. She is excited to introduce you to all of the wonders of JavaScript

### Keynote: Internet Things

Nostra

### HTML 5

Vivianne

### Javascript

JQuery

### Free Pizza

Nostra

### PBCS Presents

on Babel

of his professional life, Json has worked with computers online; he is a yglot programmer and likes using the nt tools for the job.

9:00AM

10:00AM

11:00AM

12:00PM

### Register for PBCS

Basic Info:

Name

Email

Job Title

Front End Developer

What would you like to attend:

☐ Javascript

☐ Bootstrap

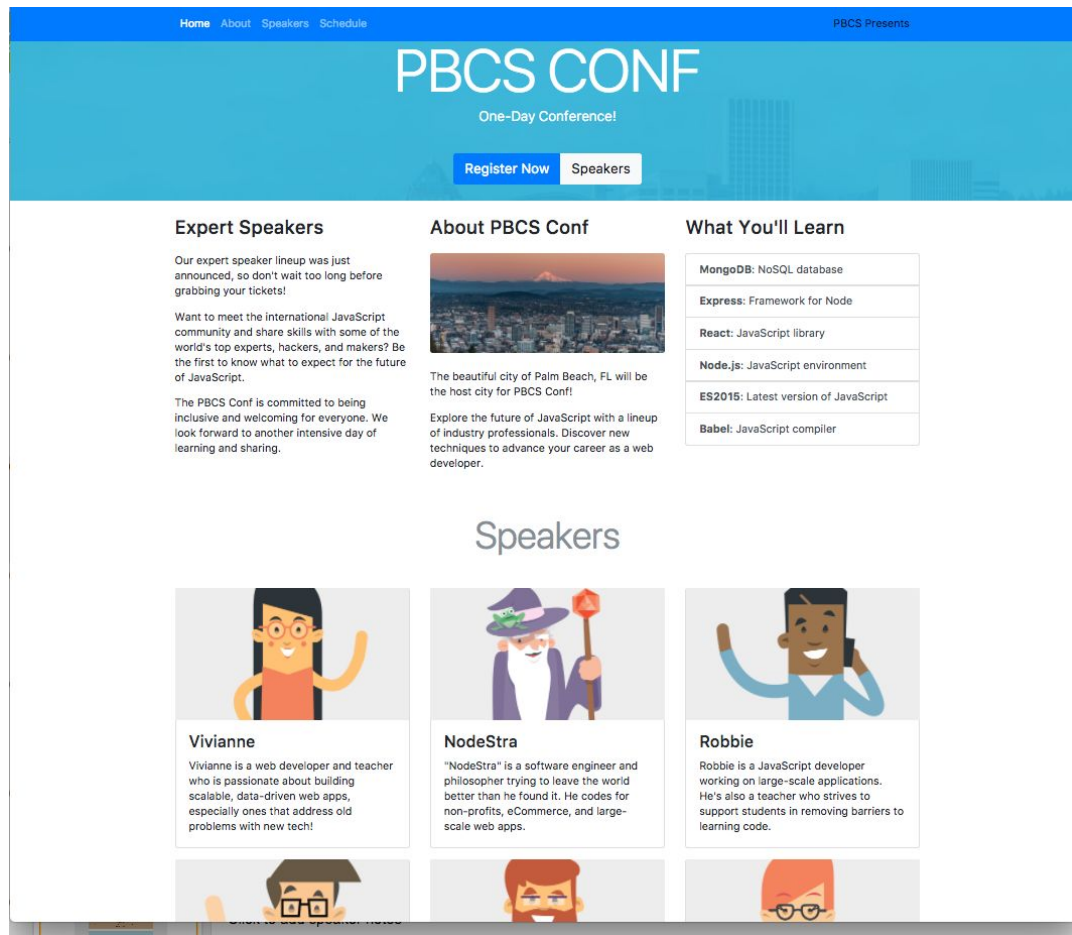
☐ HTML-CSS

Register

## Using a custom CSS file with Bootstrap 4

- ❑ Create a new stylesheet called `custom.css` and save it in the css folder in `class-samples/css`
- ❑ Add a link to your `custom.css` style sheet just above the `</head>` but below the Bootstrap CSS CDN link `<link href="css/custom.css" rel="stylesheet" type="text/css" />`
- ❑ Make the navbar brand on the right lighter/smaller by adding `.navbar .navbar-brand` and a color of `rgba(0, 0, 0, 0.85);` or black as well as a `font size:1rem;`
- ❑ Add a background image **jumbo-bg.jpg** to the jumbotron by adding the `background-image: url(../images/jumbo-bg.jpg);` targeting the `.jumbotron` class in your custom stylesheet use, `background-size:cover;` to cover or scale the width of the whole width of the jumbotron

# Bootstrap 2





## Bootstrap 4 Carousels

- ❑ The carousel is a slideshow for cycling through a series of content, built with CSS 3D transforms and a bit of JavaScript. It works with a series of images, text, or custom markup. It also includes support for previous/next controls and indicators.
- ❑ The carousel itself (`.carousel`) consists of 3 parts:
  1. Order List -`carousel-indicators` (bullets navigation in the carousel bottom),
  2. `carousel-inner` (in which we will place the content to be presented)
  3. `carousel-control` (left and right arrow).
- ❑ Images should be the same size or set to cover the carousel.
- ❑ <http://getbootstrap.com/docs/4.1/components/carousel/>
- ❑ <https://bootstrapious.com/p/bootstrap-carousel>

## Bootstrap 4 Carousels

- ❑ Open the [carousel-student.html](#) page save it to [public\\_html/class-samples](#)
- ❑ Add the carousel text from the PBCS text for pbcs file and paste it into the container div
- ❑ Replace the carousel items with the chi.jpg, germ.jpg , and nyc.jpg photos in the images folder

```
<div class="carousel-item active">  
    
</div>
```
- ❑ Try Adding another image carousel item (sea.jpg) to the carousel

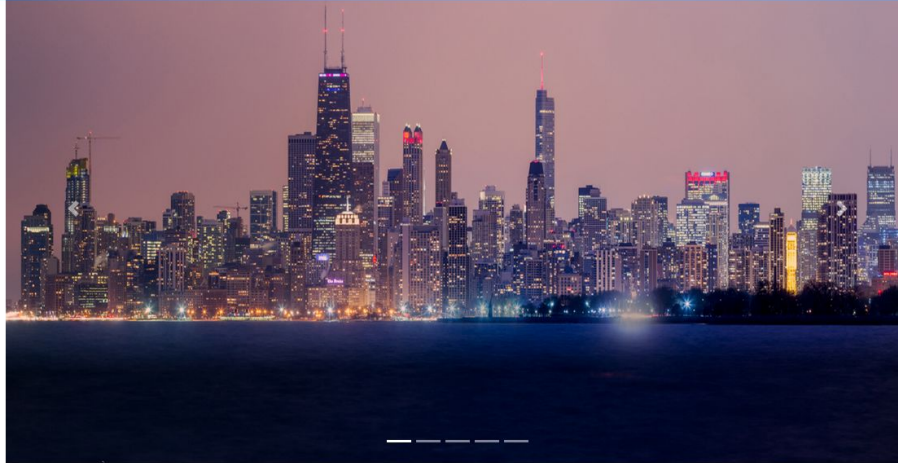
```
<div class="carousel-item">  
  
</div>
```
- ❑ You will also have to add another list item to the ordered list for the carousel to work

```
<li data-target="#carouselExampleIndicators" data-slide-to="3"></li>
```

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[Home](#) [About](#) [Speakers](#) [Schedules](#)

PBCS Presents



## Homework

- Next Slide-PBCS Project

*Complete a single page design of the PBCS website including a modal, carousel and using a custom stylesheet*

- Complete <https://teamtreehouse.com/library/framework-basics>


- Resources: <https://startbootstrap.com/template-categories/all/>

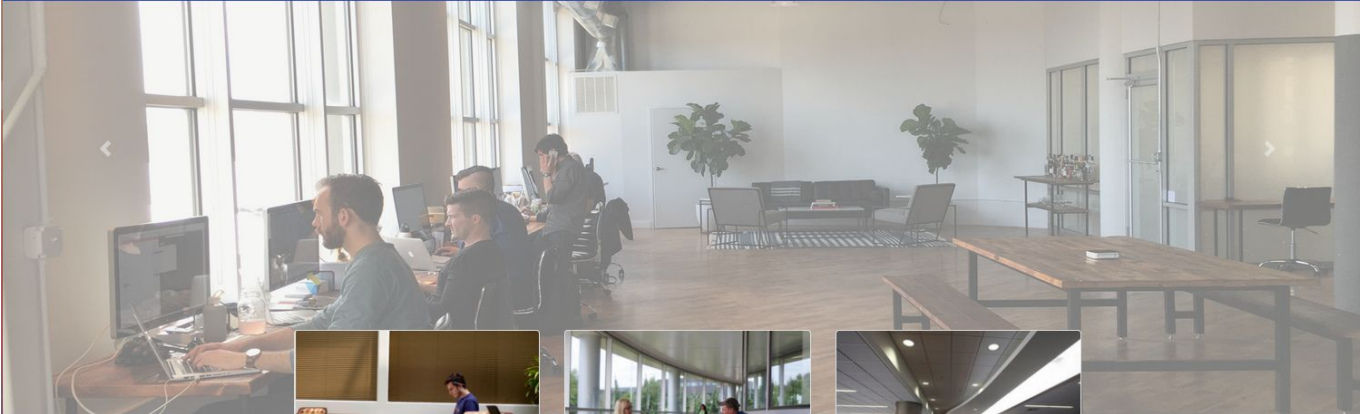
## Create the PBCS site using Bootstrap 4 and a Custom CSS file


- Create an [index.html](#) page and save it in the [public\\_html/class-projects/bootstrap](#) folder
- Create a css folder and save the [custom.css](#) file in the [public\\_html/class-projects/bootstrap/css](#) folder
- Create an images folder and save the images in the [public\\_html/class-projects/bootstrap/images](#) folder
- Images and text will be sent to you
- Site will be demonstrated to class by the instructor

## Bootstrap 2

[Home](#) [Courses](#) [Instructors](#) [Mission](#) [News](#) [Contact Us](#)








Programs

### Programs


At the Palm Beach Code School... The Web Developer Program is designed to prepare graduates for entry level work as junior web developers in the tech industry. Our program typically runs for 16 weeks.



Instruction

### Instruction

Welcome to The Palm Beach Code School. Here you will find hands-on learn by doing instruction with industry professionals, at an affordable tuition... Start Your Career Path Now!




Statistics


### Statistics

According to the US Department of Labor, the demand for Web Developers is projected to grow 20% over the next eight years. By learning to code, you will be preparing yourself for work in this growing industry.

# Bootstrap 2

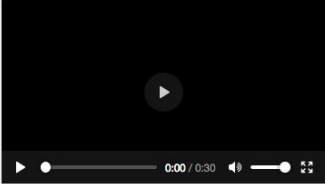
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PALM BEACH  
COMMUNITY COLLEGE




### Learn how to make an app

We will build on the concepts learned in previous IOS projects to create an app that will allow users to send photo or video messages to other users that will be deleted once viewed.



Learn by doing, project based instruction.


[Call Us Today! »](#)



### Attend PBCS

PBCS provides an extensive set of courses and training exercises that will give you a wide range of in-demand technology skills that will help you land your next dream job.

[Register at PBCS »](#)



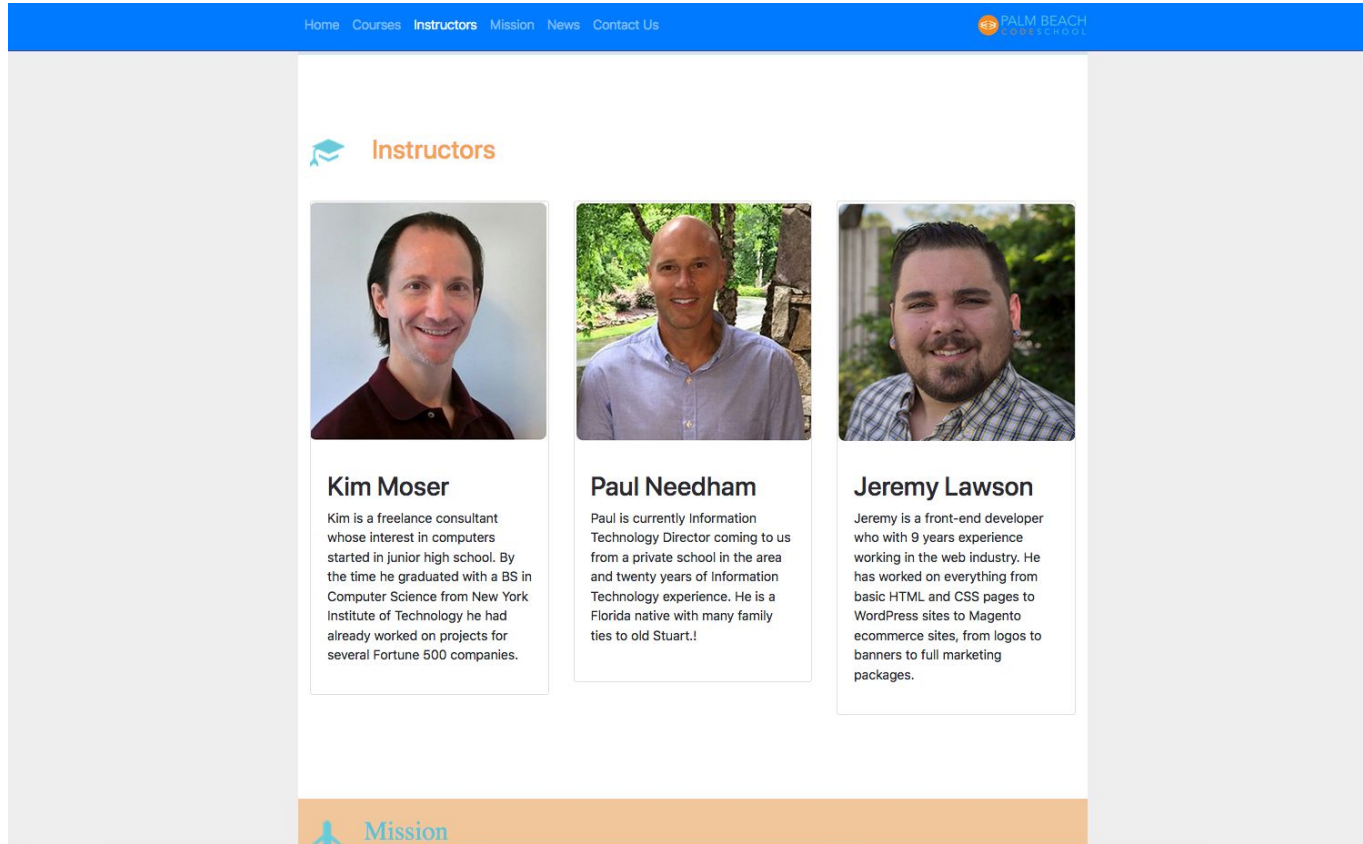
## Courses

The Web Developer Program is our flagship program designed to prepare graduates for entry level work as junior Web Developers. The curriculum will encompass web platforms, programming, and web applications including (HTML, CSS, PHP, MySQL, Javascript, jQuery). A typical 16 week course will focus on web design principles and concepts, programming, website creation and web applications. Students can expect a section quiz approximately two to three times throughout the course. The class will use hands on individual or group exercises and project based approach to learning. Outside assignments will be based upon certain applications or chosen topics and build into a final capstone project utilizing all skills learned throughout the course.

Duration: 16 week evening classes on Monday/Wednesday from 6:30 – 10pm Students will learn and be able to demonstrate proficiencies in:

- Web Interface Design and Functionality
- Web Graphic Design
- Design Based Standards and Principles


# Bootstrap 2






# Bootstrap 2

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 **PALM BEACH**  
CODE SCHOOL




## Mission

The mission of The Palm Beach Code School is to teach students the fundamentals of computer science incorporating the languages, frameworks and technologies necessary to prepare graduates for employment in emerging technical and creative fields.

Specific emphasis on HTML, CSS, Javascript, PHP, JQuery, MySQL and other foundational skills will be taught together in a hands-on, learn-by-doing atmosphere. The small class size combined with high quality teaching by industry professionals will ensure a quality education.

Students will have the opportunity to demonstrate mastery and competence by building a web application for their Capstone project at the end of the course.




## News

### The Palm Beach Tech Hackathon

Palm Beach Code School is pleased to announce that we are an official sponsor of The Palm Beach Tech Hackathon, which will be held November 4-6 at South Florida Science Center in West Palm Beach, Florida.

The Palm Beach Tech Hackathon is a three day event where participants form teams, vet ideas, create a project, then present their work to an expert panel of judges.

Teams will consist of engineers, designers, developers and entrepreneurs, with successful teams having a mix of these areas of expertise and winners walking away with a combination of cash and in-kind prizes!



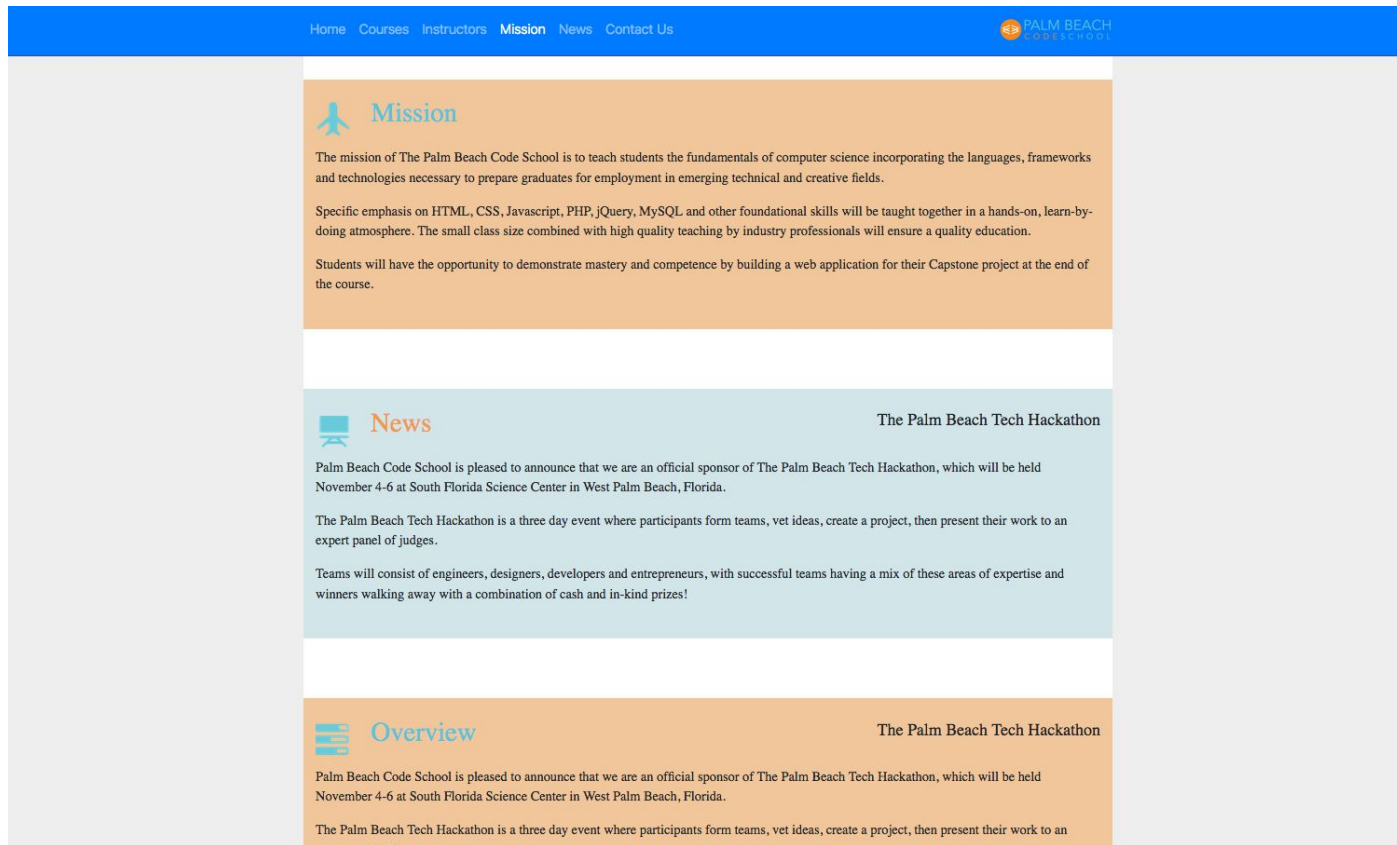
## Overview

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# Bootstrap 2



Teams will consist of engineers, designers, developers and entrepreneurs, with successful teams having a mix of these areas of expertise and winners walking away with a combination of cash and in-kind prizes!

## Blog

Recent Graduate Hired As Jr. Developer At Two Fish Creative

By PBCS! November 28th, 2016/Categories: Palm Beach Code School, Uncategorized

Congratulations are in order for William Petroff, a recent graduate of our Web Developer Program. William was hired as a Jr. Web Developer at Two Fish Creative, a full-service creative agency in West Palm Beach.

## Contact Us

First Name:

Last Name:

Phone:

Email:

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