

## MODULE 4: CLIENT SIDE PROGRAMMING

# Twitter Bootstrap



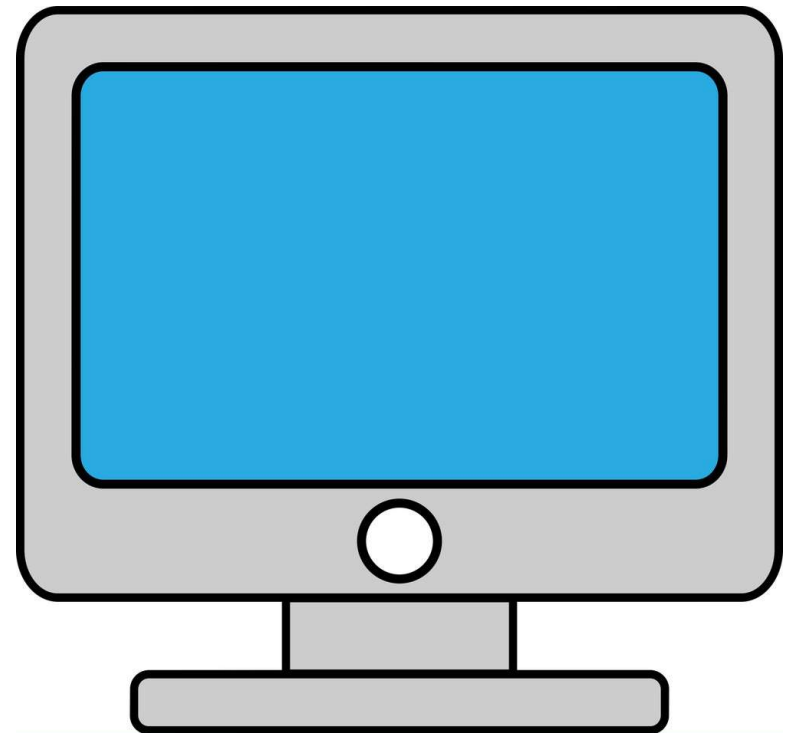
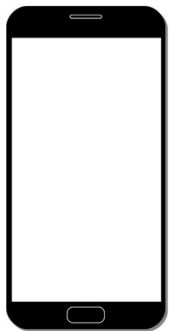


## Yesterday

- What is the DOM?
- What is JQuery?
- How do we start a JQuery command?

# Accessing the Web

How can we access the web and view pages?



# Responsive Design

**Responsive design** means designing and building a website that properly renders on almost all devices irrespective of the device, browser size, etc. It uses CSS to resize, hide, shrink, enlarge, or move content.

**Viewport:** The user's visible area of a web page

## Tips for Responsive Design

- Avoid using fixed-width elements (i.e. images wider than the viewport)
- Do not rely on a particular viewport size
- Use different CSS styles based on the screen size.

# Responsive Design

@media allows you to apply different styles for different view ports.

@media only screen and (min-width: 768px) { .. }

@media only screen and (orientation: landscape) { .. }

@media (min-width: 700px) and (orientation: landscape) { .. }

# 12 is the magic number....

- Responsive design uses a grid of 12

First Row



Second Row



Third Row



Fourth Row



# Twitter Bootstrap

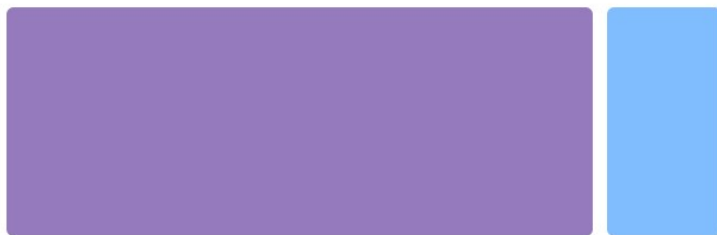
- A CSS library and a JS library
- Held #1 project on Github during 2014 Summer
- Developed by Twitter
- Installing Bootstrap
  - <http://www.getbootstrap.com>
  - Bootstrap CDN
  - Include the CSS, jQuery Library, and Bootstrap Javascript
  - .NET via Nuget

# What can bootstrap do?

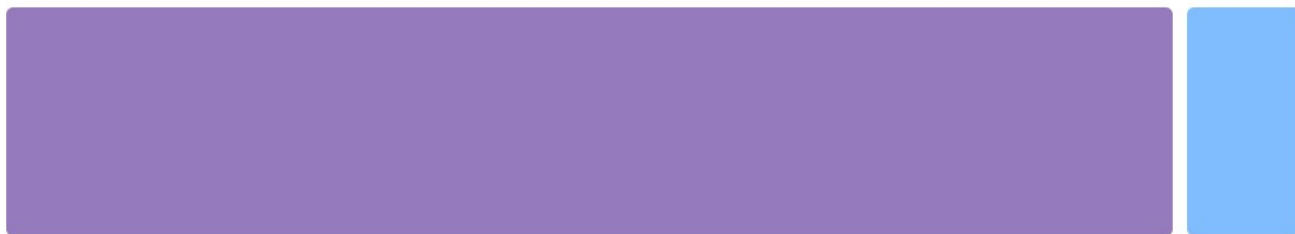
- grid layout
  - typography
  - forms
  - buttons
  - navigation
- 
- What can't it do?



# Start with a container



```
<div class="container">  
  <!-- Content here -->  
</div>
```



```
<div class="container-fluid">  
  <!-- Content here -->  
</div>
```

# Next, rows.

First Row



Second Row



Third Row



Fourth Row



Name	Screen	Container Width
xs	phones (<768px)	<i>auto</i>
sm	tablets (>= 768px)	750px
md	desktop (>= 992px)	970px
lg	large desktop (>= 1200px)	1170px

# Navigation formatting

- Key is formatting, not functionality.

# Putting it all together



# Some Formatting Power

- Buttons
- Links
- Radio Buttons
- Cards
- Carousel
- Collapse
- Waiting Spinners
  
- <https://getbootstrap.com>

# Remember

1. Create the container using `<div class='container'>` or `<div class='container-fluid'>`
2. Use rows to create horizontal groups of columns with `<div class='row'>`
3. Only columns are placed in rows and only content is placed in columns.
4. The desired number of columns follows this format `<div class='col-*-*'>`
5. Number of columns for each row must add up to 12.

WHAT QUESTIONS DO  
YOU HAVE?

