# **Bootstrap**

- 1. Bootstrap is a powerful mobile first front-end framework for faster and easier web development. It uses HTML, CSS and JavaScript.
- 2. Bootstrap was developed by Mark Otto and Jacob Thornton at Twitter. It was released as an open source product in August 2011 on GitHub.
- 3. It is supported by all popular browsers.
- 4. Why use Bootstrap?
  - a. Easy to get started
  - b. Responsive design Bootstrap responsive CSS adjusts to Desktops, Tablets and Mobiles.
- 5. Bootstrap provides a basic structure with Grid System, link styles, background.
- 6. Bootstrap comes with feature of global CSS settings, fundamental HTML elements styled and enhanced with extensible classes, and an advanced grid system.
- 7. Bootstrap contains over a dozen reusable components built to provide iconography, dropdowns, navigation, alerts, popovers, and much more.
- 8. What Bootstrap Package Includes
  - a. JavaScript Plugins: Bootstrap contains over a dozen custom jQuery plugins.
  - b. Customize: You can customize Bootstrap's components

```
<html lang="en">
<head>
  <title>Bootstrap Example</title>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js">
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js">
</script>
</head>
<body>
<div class="container">
 <h1>My First Bootstrap Page</h1>
  This is some text.
</div>
```

9.

- 10. What is Bootstrap Grid System
  - Bootstrap includes a responsive, mobile first fluid grid system that appropriately scales up to 12 columns as the device or view port size increases.
  - b. It includes predefined classes for easy layout options, as well as powerful mixins for generating more semantic layouts.
  - c. Here's how the Bootstrap grid system works:

- i. Rows must be placed within a .container class for proper alignment and padding.
- ii. Use rows to create horizontal groups of columns.
- iii. Content should be placed within columns, and only columns may be immediate children of rows.
- iv. Predefined grid classes like .row and .col-xs-4 are available for quickly making grid layouts. LESS mixins can also be used for more semantic layouts.
- v. Columns create gutters (gaps between column content) via padding.

  That padding is offset in rows for the first and last column via negative margin on .rows.
- vi. Grid columns are created by specifying the number of twelve available columns you wish to span. For example, three equal columns would use three .col-xs-4.
- d. Basic grid structure

#### 11. Media queries

a. Media query is a really fancy term for "conditional CSS rule". It simply applies some CSS based on certain conditions set forth. If those conditions are met, the style is applied.

```
/* Extra small devices (phones, less than 768px) */
/* No media query since this is the default in Bootstrap */
/* Small devices (tablets, 768px and up) */
@media (min-width: @screen-sm-min) { ... }

/* Medium devices (desktops, 992px and up) */
@media (min-width: @screen-md-min) { ... }

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

### 12. Responsive images

a. Bootstrap 3 allows to make the images responsive by adding a class .img-responsive to the <img>tag.



b.

## 13. Containers

- a. Use class .container to wrap a page's content and easily center the content's as shown below.
  - i. <div class="container"> ... </div>

#### 14. Typography

- a. Bootstrap uses Helvetica Neue, Helvetica, Arial, and sans-serif in its default font stack. Using typography feature of Bootstrap you can create headings, paragraphs, lists and other inline elements.
- b. To add an inline subheading to any of the headings, simply add <small> around any of the elements or add .small class and you will get smaller text in a lighter color
- c. Lists
  - i. Ordered lists
  - ii. Unordered lists

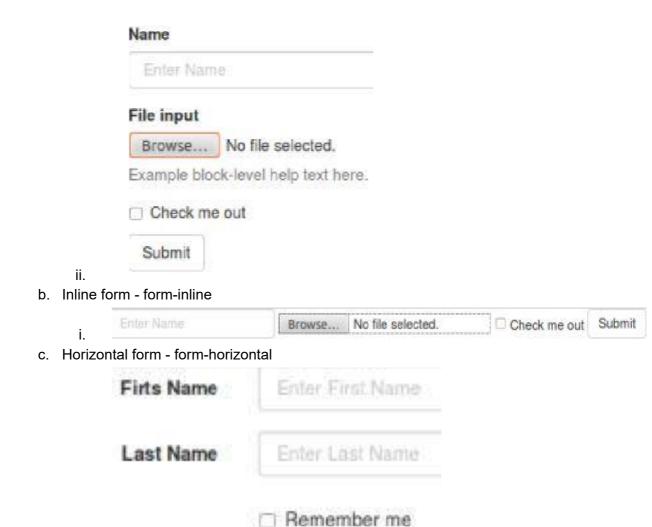
#### 15. Tables

- a. If you want a nice, basic table style with just some light padding and horizontal dividers, add the base class of .table to any table .table
- b. Table-striped
- c. Table-bordered
- d. Table-hover
- e. Table-responsive

#### 16. Forms

a. Vertical (default) form

```
<form role="form">
    <div class="form-group">
        <label for="name">Name</label>
            <input type="text" class="form-control" id="name" placeholder="Enter Name">
                 </div>
            </form>
```



i.

#### 17. Buttons

| Class       | Description   |
|-------------|---|
| Btn         | Default/ Standard button.   |
| btn-primary | Provides extra visual weight and identifies the primary action in a set of buttons.   |
| btn-success | Indicates a successful or positive action.  |
| btn-info    | Contextual button for informational alert messages.                                   |
| btn-warning | Indicates caution should be taken with this action.                                   |
| btn-danger  | Indicates a dangerous or potentially negative action.                                 |
| btn-link    | Deemphasize a button by making it look like a link while maintaining button behavior. |

# 18. Images

a.

a. .img-rounded: adds border-radius:6px to give the image rounded corners.

Sign in

- b. .img-circle: makes the entire image round by adding border-radius:500px.
- c. .img-thumbnail: adds a bit of padding and a gray border:

### 19. Helper classes

- a. Close Use the generic close icon for dismissing content like modals and alerts.
- b. Carets Use carets to indicate drop down functionality and direction. To get this functionality use the class caret with a <span> element.

# Assignments

- 1. Convert to responsive HTML <a href="https://drive.google.com/file/d/1Sz64xOiJprO\_PwFt2O7tAJaASMtxvffj/view?usp=sharing">https://drive.google.com/file/d/1Sz64xOiJprO\_PwFt2O7tAJaASMtxvffj/view?usp=sharing</a>
- 2. Convert to responsive HTML <a href="https://drive.google.com/file/d/1\_PaJMSFUgIrZ0EZor1O257LuBb9Ts8k2/view?usp=s">https://drive.google.com/file/d/1\_PaJMSFUgIrZ0EZor1O257LuBb9Ts8k2/view?usp=s</a> <a href="https://drive.google.com/file/d/1\_PaJMSFUgIrZ0EZor1O257LuBb9Ts8k2/view?usp=s">https://drive.google.com/file/d/1\_PaJMSFUgIrZ0EZor1O257LuBb9Ts8k2/view?usp=s</a> <a href="https://drive.google.com/file/d/1\_PaJMSFUgIrZ0EZor1O257LuBb9Ts8k2/view?usp=s">https://drive.google.com/file/d/1\_PaJMSFUgIrZ0EZor1O257LuBb9Ts8k2/view?usp=s</a> <a href="https://drive.google.com/file/d/1\_PaJMSFUgIrZ0EZor1O257LuBb9Ts8k2/view?usp=s">https://drive.google.com/file/d/1\_PaJMSFUgIrZ0EZor1O257LuBb9Ts8k2/view?usp=s</a> <a href="https://drive.google.com/file/d/1\_PaJMSFUgIrZ0EZor1O257LuBb9Ts8k2/view?usp=s">https://drive.google.com/file/d/1\_PaJMSFUgIrZ0EZor1O257LuBb9Ts8k2/view?usp=s</a>

3.