



# Front End UI Framework

Bootstrap



# Front End UI Framework

• Collection of ready-to-use HTML, CSS and Javascript templates.

• Provides templates for forms, button, Alerts, navigations

#### Why?

- Faster productivity
- Cross browser compatibility
- Responsive Web design



# Popular Front End UI Framework

- Bootstrap
- Semantic UI
- Pure
- UI Kit

### Bootstrap

- 1. Download Bootstrap files from <u>getbootstrap.com</u> and include these files in your html file.
- 2. Bootstrap CDN (content delivery network)

```
MaxCDN:
```

```
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
<!-- jQuery library -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<!-- Latest compiled JavaScript -->
```

### Responsive Web design

- 1. User access website from different devices which has different screen sizes.
- 2. One size fits all is not possible.
- 3. Adapt to the user **viewport**

# Viewport

• Inside <head> element

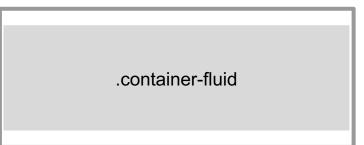
<meta name="viewport" content="width=device-width, initial-scale=1">

- Ensures screen width is set to the device width and content is rendered with this width
- initial-scale=1, sets the initial zoom level

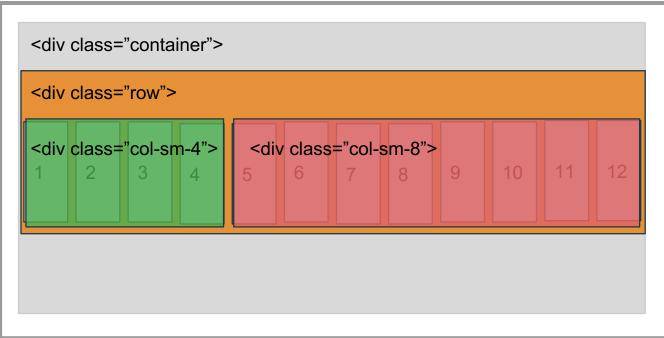
# Bootstrap Grid System

- Design the website to be responsive to the size of the viewport
- Containers
  - Container for all the content of the site

.container



### Bootstrap Grid System



### Bootstrap Grid System

- 1. It provides four classes
  - xs extra small
  - sm small
  - md medium
  - lg large screen sizes
- 2. Use .col-xs-\*, .col-sm-\*, .col-md-\* and .col-lg-\* for defining screen layout
- 3. Specify how many columns each piece of content will use, all sum upto 12

# Column class

#### Extra small screen

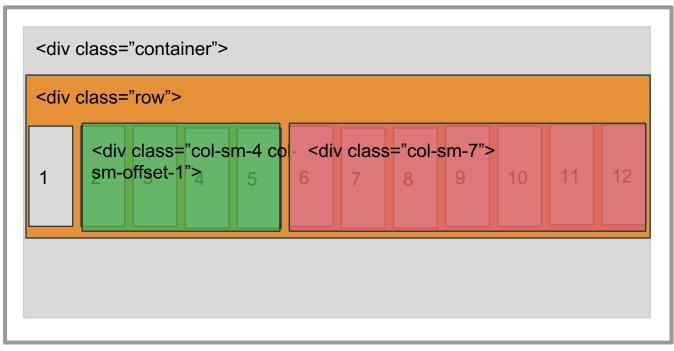
<div class="col-xs-12 col-sm-5">

<div class="col-xs-12 col-sm-7">

#### Small, Medium and large screens

<div class="col-xs-12&lt;/th&gt;&lt;th&gt;&lt;div class=" col-sm-<="" col-xs-12="" th=""></div>	
col-sm-5">	7">

### Column offsets



### Jumbotron

- <div class="jumbotron">... </div>
- It is used for showcasing key content: company name, logo and information.
- Can be used outside the container to use the entire screen width.

### Exercise

- 1. Beautify exercise 2
- 2. Add bootstrap headers in the <head>, notice change in webpage
- 3. Add jumbotron class to the header and notice change
- 4. Add container class to the inner div inside header
- 5. Add class row to the nested div after container class
- 6. Add col-xs-12 col-sm-8 for the first div and col-xs-12 col-sm-4 for the second div

### Format Content

- 1. Add container class to the <div> after header
- 2. Add row class to the inner divs
- 3. And, specify col for xs and sm for header and content within each row.
- 4. Similarly, use it for footer.

# Navigation Bar

WebsiteName Home

Page 1

Page 2

# Glyphicons

- <span class="glyphicon glyphicon-home" aria-hidden="true"></span>
- 250 glyphs are available in bootstrap

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# **Other bootstrap Features**

#### Rounded Corners:



Circle:



Thumbnail:



#### credit : w3schools