



MODULE-6

TWITTER BOOTSTRAP 3

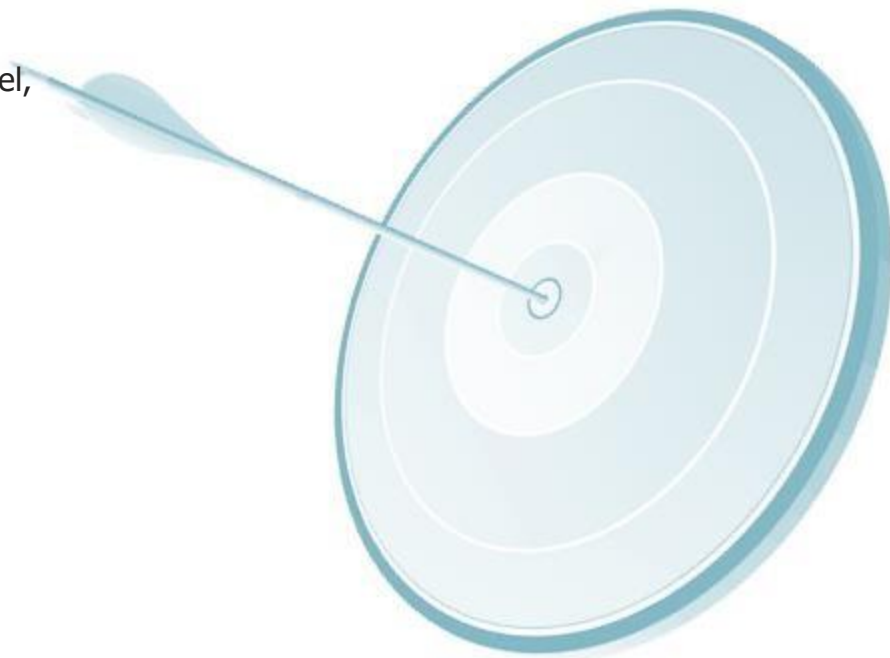
Course Topics

- [Module 1](#)
 - » Deploying the first Website to Amazon S3
- [Module 2](#)
 - » Creating web pages with HTML5
- [Module 3](#)
 - » Styling web pages using CSS
- [Module 4](#)
 - » CSS3 effects and animations
- [Module 5](#)
 - » Handling events with JavaScript
- [Module 6](#)
 - » **Twitter Bootstrap 3**
- [Module 7](#)
 - » Twitter Bootstrap 3 Project
- [Module 8](#)
 - » Bootstrap ScrollSpy, jQuery and jQuery UI
- [Module 9](#)
 - » Ajax, Google APIs, Social Plugins
- [Module 10](#)
 - » Project - Building Website Tour

Objectives

By the end of this module, you will be able to understand:

- Getting started with Twitter Bootstrap 3
- Bootstrap features like fixed drop down menu, carousel, text and image grids, custom thumbnails, bootstrap modal
- Using Font Awesome Icons



What is Twitter Bootstrap

→ Bootstrap's official page (<http://getbootstrap.com/>) says it all, Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web



Why you Need Bootstrap

- You might ask yourself why you need Bootstrap when you already know HTML,CSS and JavaScript.
- Its true that you can create websites without using Bootstrap or any other framework. But will that be most efficient way to build a website ?
- Bootstrap is built and maintained by top notch web developers around the world to make sure you get the best out of Bootstrap.
- Rather than building your website from the scratch its much better to use already built and tested components. Which makes the web development task fast and efficient



Bootstrap was built by Mark Otto and Jacob at Twitter. That's why its also called as Twitter Bootstrap. The current major version for Bootstrap is version 3 but soon version 4 is going to be released

Bootstrap Features

Below we mention some of the features that bootstrap provides :

- **Easy to get started** : No matter how great a framework is if it is not easy to learn it will not going to be adapted by the large community. Bootstrap is very easy to learn which makes it highly adapted web development framework
- **Speed of Development** : Undoubtedly one of the biggest advantages of using Bootstrap is the development speed that it offers
- **Long list of prebuilt components** : Bootstrap comes bundled with a lot of components like dropdown menus, carousel, custom thumbnails, image grids, scrollspy etc.

Bootstrap Features (Contd.)

- **Responsiveness** : Bootstrap is responsive and adapts very well to handheld devices. So by using Bootstrap you don't have to worry about how your page will appear on different sized devices. Bootstrap adapts to the change in platforms with super speed and efficiency
- **Large Community Support** : Bootstrap has a huge support community behind it so you can easily get help when you run into issues

Setting Bootstrap 3 in Your Application

- We are going to use Adobe Brackets IDE for creating our web projects. Its free and you can download it from <http://brackets.io/>
- To include Bootstrap 3 in your projects first download the bootstrap from <http://getbootstrap.com/> by clicking on Download Bootstrap button



Setting Bootstrap 3 in Your Application

→ After clicking on download button you will be redirected to download page click on Download Bootstrap button



Download

Bootstrap (currently v3.3.5) has a few easy ways to quickly get started, each one appealing to a different skill level and use case. Read through to see what suits your particular needs.

Bootstrap

Compiled and minified CSS, JavaScript, and fonts. No docs or original source files are included.

Download Bootstrap

Source code

Source Less, JavaScript, and font files, along with our docs. **Requires a Less compiler and some setup.**

Download source

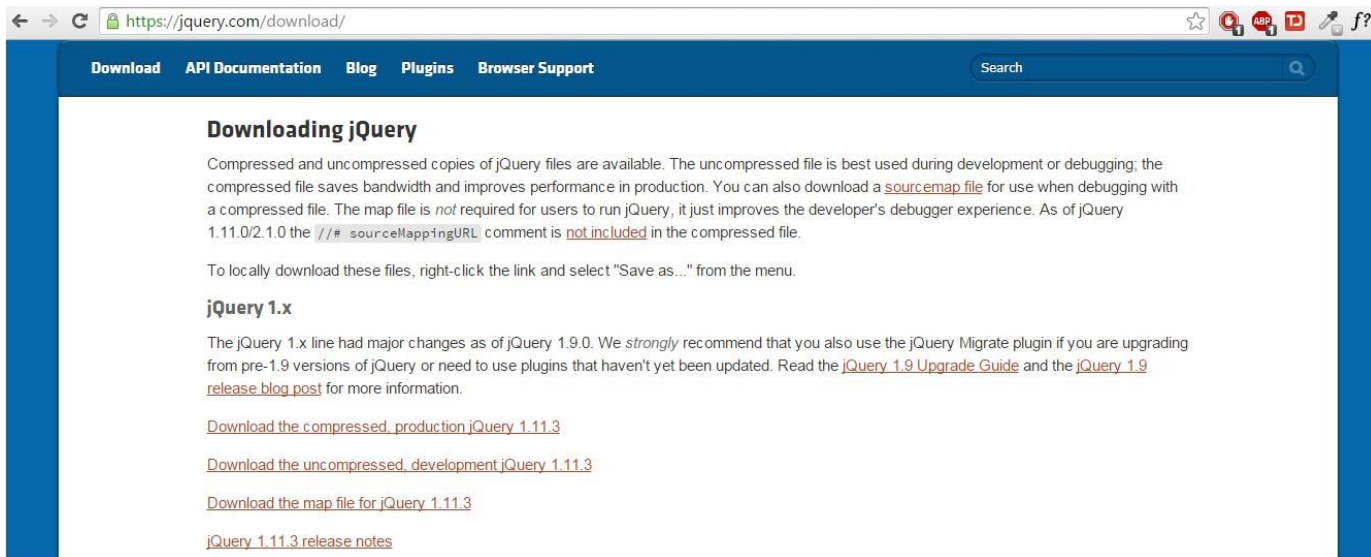
Sass

Bootstrap ported from Less to Sass for easy inclusion in Rails, Compass, or Sass-only projects.

Download Sass

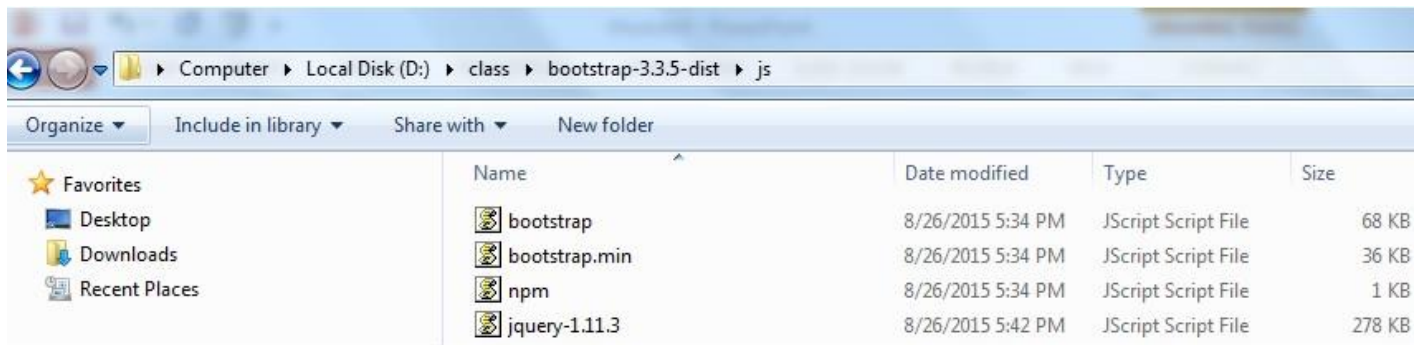
Setting Bootstrap 3 in Your Application (Contd.)

- Once downloaded extract the zip file
- One more thing that we require is jQuery which is a JavaScript library. To download the jQuery file get it from <https://jquery.com/download/> and click on [Download the uncompressed development jQuery 1.11.3](#) link



Setting Bootstrap 3 in Your Application (Contd.)

→ Once jQuery is downloaded, place the jQuery (.js) file in the js folder of extracted bootstrap

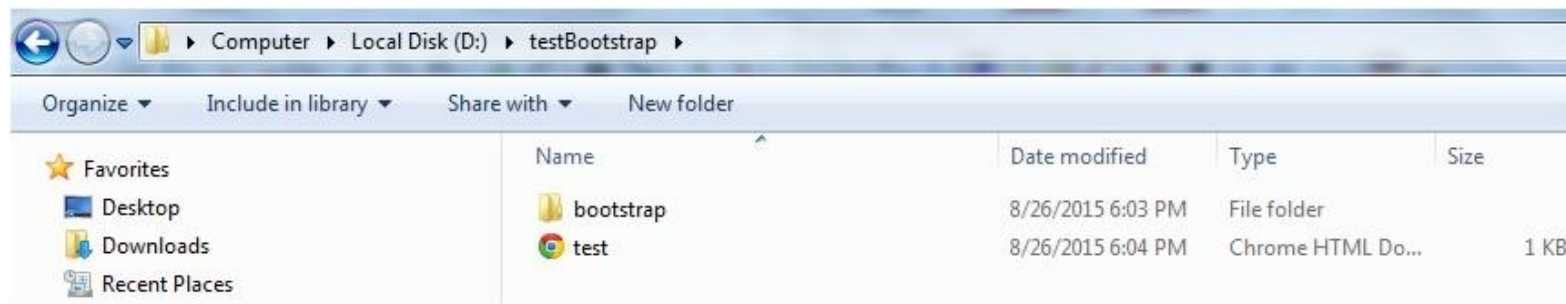


So your `js` directory will look like as above. Rename your folder `bootstrap-3.3.5-dist` to just `bootstrap` for readability

Its always a good approach to place the related files into same folder. e.g. all CSS files should be in one separate folder, all JS files should be in a separate folder

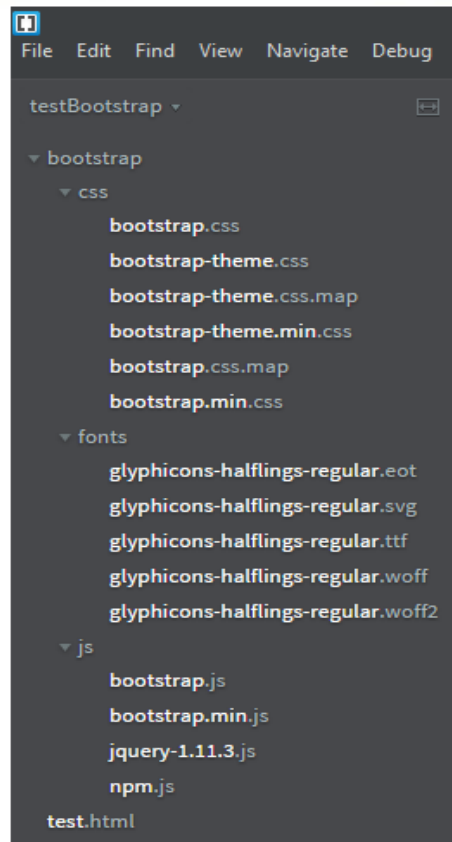
Testing Bootstrap 3

→ We have created a folder named testBootstrap which includes the [bootstrap](#) folder and [test.html](#) file



Testing Bootstrap 3 – Project Structure

→ Project structure will look like as shown in the snapshot



Testing Bootstrap 3

→ To test whether bootstrap is configured correctly or not type the below code in the test.html file

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="bootstrap/css/bootstrap.min.css">
<link rel="stylesheet" href="bootstrap/css/bootstrap-theme.min.css">
</head>

<body>
  <button class="btn btn-success">Bootstrap Button</button>
  <script src="bootstrap/js/bootstrap.min.js"></script>
</body>
</html>
```



- » Note that we haven't used jQuery file but it will be required when we will use JavaScript plugins
- » If you followed the previous steps correctly you will be able to see a green button styled using Bootstrap CSS
- » See the live example here <https://s3-ap-southeast-1.amazonaws.com/s3freebucket/testBootstrap/test.html>

A Quick Way to Get Started with Bootstrap

→ Rather than downloading and referencing the bootstrap files locally, we can reference the bootstrap files hosted on internet without downloading them locally

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap-theme.min.css">
</head>

<body>
  <button class="btn btn-success">Bootstrap Button</button>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></script>
</body>
</html>
```

→ Here we are referencing the bootstrap files hosted on maxcdn



Creating Fixed Navigation Bar with Bootstrap

Creating Fixed Navigation Bar with Bootstrap

```
<body>
  <!-- Creating a Fixed (top) Navigation Bar with Dropdown -->
  <div class="navbar navbar-default navbar-fixed-top">
    <div class="container">
      <div class="navbar-header">
        <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse">
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
        </button>
        <a href="#" class="navbar-brand">Exclusive</a>
      </div>
    </div>
  </div>

  <script src="bootstrap/js/jquery-1.11.3.js"></script>
  <script src="bootstrap/js/bootstrap.min.js"></script>

</body>
```

See the live example here <https://s3-ap-southeast-1.amazonaws.com/s3freebucket/testBootstrap/fixed-nabvar.html>

Creating Fixed Navigation Bar with Bootstrap

- Class `navbar-fixed-top` specifies we want to create fixed top navigation bar
- Class `container` is used to center and pad navbar content
- Class `navbar-header` groups the navigation bar elements
- Button class `navbar-toggle` to toggle the navbar on small screen
- Button `data-toggle="collapse"` is used to be able to collapse the navigation bar
- Span tags are used to create horizontal lines that will be displayed on small screen size as a button to toggle between navigation bar

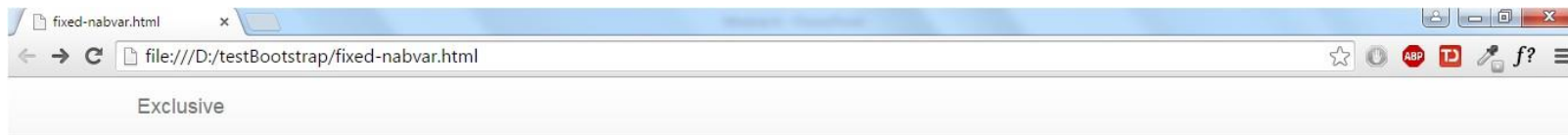


Note that this time we have included jQuery file also as it will be required to collapse the navigation bar. Make sure you load the jQuery file first and then bootstrap JS

Creating Fixed Navigation Bar with Bootstrap

→ Note that toggle button will only be displayed on small screen size

Output on Full Screen



Output on small screen and mobile devices



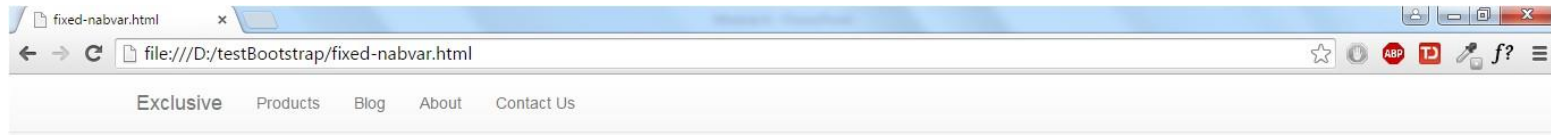
Creating Fixed Navigation Bar

- Note that we haven't yet created any links, we just created a navigation header
- Now we are going to put links to our navigation header
- Below is the code that will create 4 links placed on the navigation header
- Note the class navbar-collapse which is the same that we used for navigation bar's data-target property

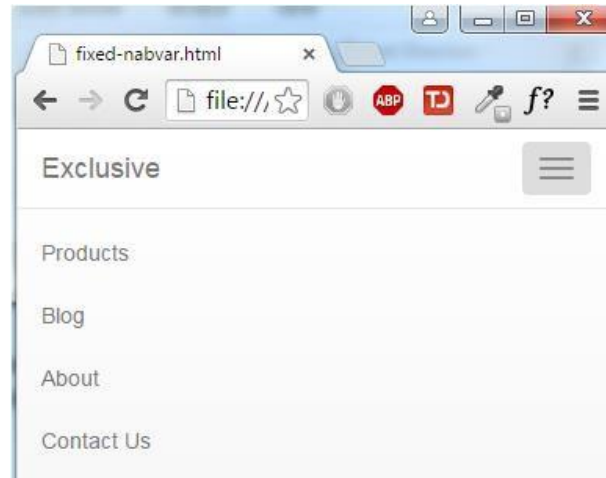
```
<div class="navbar-collapse collapse">
  <ul class="nav navbar-nav">
    <li><a href="#">Products</a></li>
    <li><a href="#">Blog</a></li>
    <li><a href="#">About</a></li>
    <li><a href="#">Contact Us</a></li>
  </ul>
</div>
```

Creating Fixed Navigation Bar (Contd.)

→ Navigation Bar on full screen



→ Navigation Bar on decreasing screen size



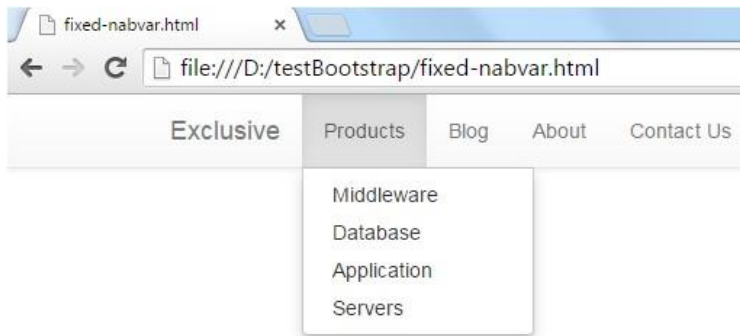
Fixed Navigation Bar – Adding Dropdown Menu

- We have four links Products, Blog, About, Contact Us . Now we are going to make the Products link a dropdown
- Below is the code, note that we have added four dropdown menu to Products link. Which will be displayed to user, on clicking the Products link

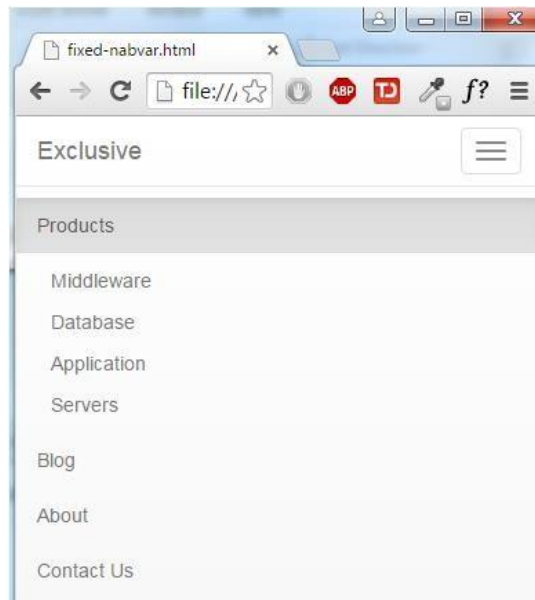
```
<li class="dropdown"><a href="#" class="dropdown-toggle" data-toggle="dropdown">Products</a>  
  <ul class="dropdown-menu">  
    <li><a href="#">Middleware</a></li>  
    <li><a href="#">Database</a></li>  
    <li><a href="#">Application</a></li>  
    <li><a href="#">Servers</a></li>  
  </ul>  
</li>
```

Fixed Navigation Bar – Adding Dropdown Menu

Navigation Bar on full screen



Navigation Bar on decreasing screen size



Fixed Navigation Bar – Adding Dropdown Menu

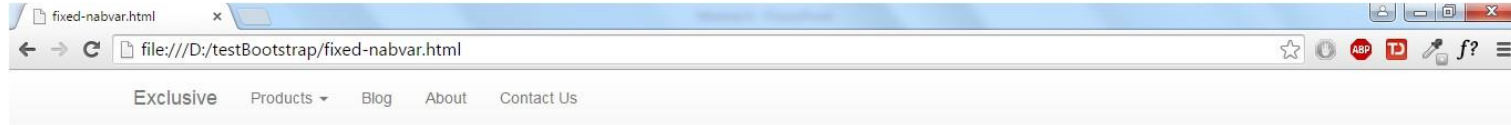
- Note that even though we have a dropdown menu but user will only get to know that it's a dropdown when he clicks on a link
- To make it obvious to the user that a link contains a dropdown menu we can show a down arrow with the link

```
<li class="dropdown"><a href="#" class="dropdown-toggle" data-toggle="dropdown">Products <b class="caret"></b></a>
```

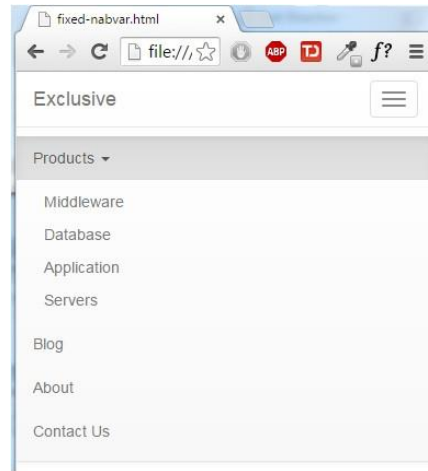
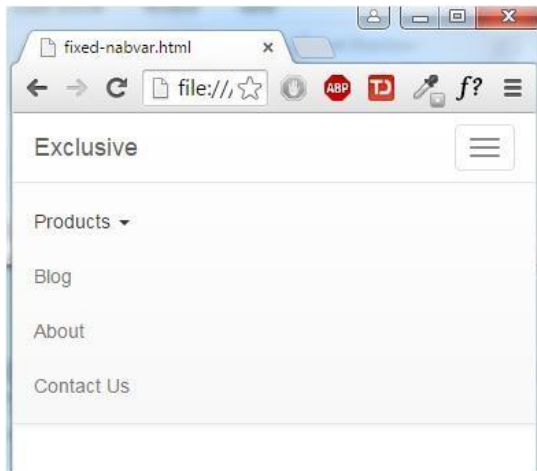
- All we need to do is add a B tag with the class caret next to the link Products

Fixed Navigation Bar – Adding Dropdown Menu

→ Navigation Bar on full screen size



→ Navigation Bar on decreasing screen size



Creating Carousel with Bootstrap

Carousel

- A Carousel is a component used for cycling through elements (mostly images) to create a slideshow. Bootstrap makes it very easy to create a carousel
- We are creating a carousel with id testCarousel by using the class [carousel slide](#)
- We also created an [ordered list of three](#) carousel indicators which will be used to move across different carousel images
- At the end we created actual carousel contain having an img element

```
<body>
  <br/><br/>
  <div id="testCarousel" class="carousel slide">

    <ol class="carousel-indicators">
      <li data-target="#testCarousel" data-slide-to="0" class="active" ></li>
      <li data-target="#testCarousel" data-slide-to="1"></li>
      <li data-target="#testCarousel" data-slide-to="2"></li>
    </ol>

    <div class="carousel-inner">
      <div class="item active">
        
      </div>
    </div>

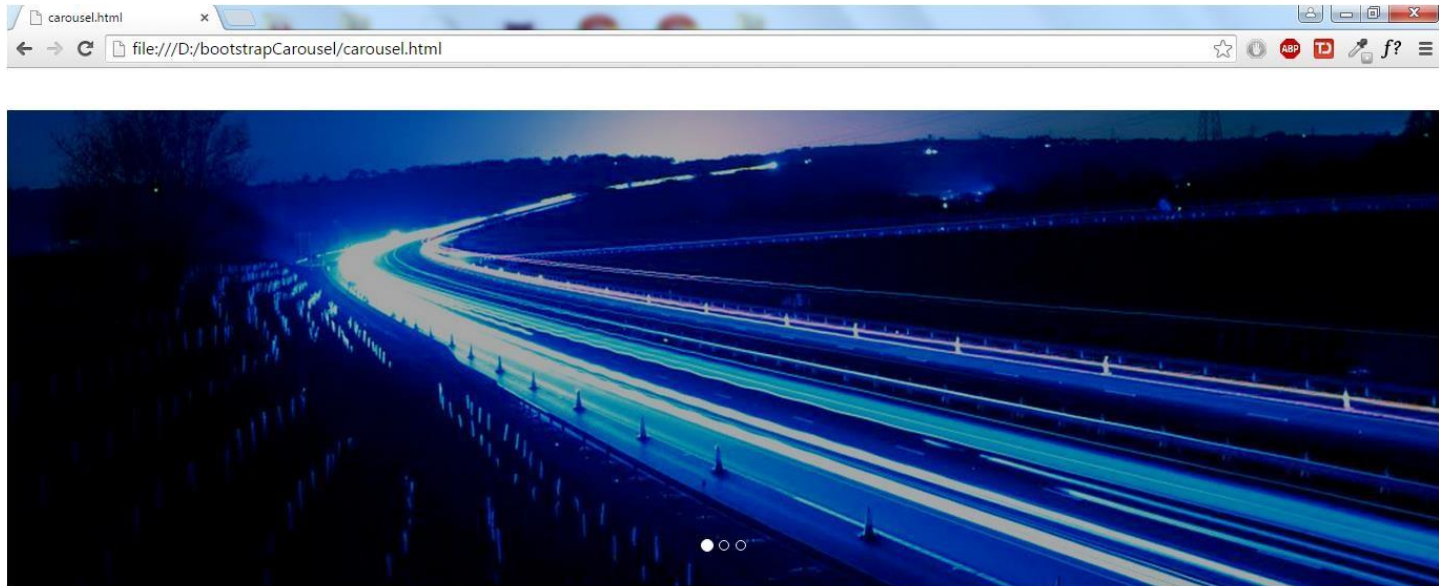
  </div>

  <script src="bootstrap/js/jquery-1.11.3.js"></script>
  <script src="bootstrap/js/bootstrap.min.js"></script>
</body>

</body>
```

Carousel (Contd.)

- You can see the output in below snapshot , it shows an image with three indicators. Indicators shows where you are in an image carousel
- Note that we have used an image with size 1500 by 500 to fill the entire screen

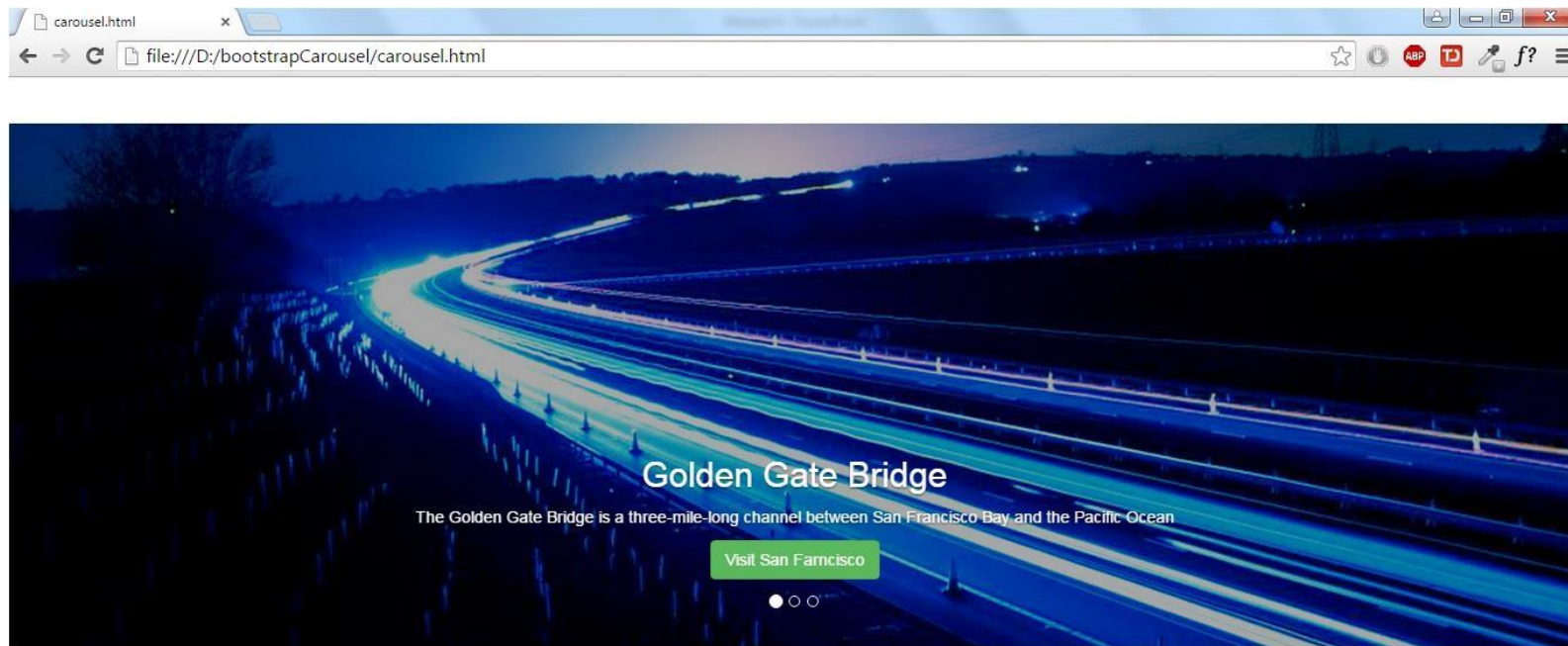


Carousel (Contd.)

- Most of the time while using Carousel you will also like to show some text to describe the image and a link to redirect the user to a different page. This can easily be done as shown below
- Note that we have added a div with class `container` which contains a header and two paragraphs, last paragraph containing a link

```
<div class="carousel-inner">
  <div class="item active">
    
    <div class="container">
      <div class="carousel-caption">
        <h2>Golden Gate Bridge</h2>
        <p>The Golden Gate Bridge is a three-mile-long channel between San Francisco Bay and the Pacific Ocean</p>
        <p><a class="btn btn-large btn-success">Visit San Farnciso</a></p>
      </div>
    </div>
  </div>
</div>
```

Carousel (Contd.)



Adding Carousel Controls

→ Left Carousel Control

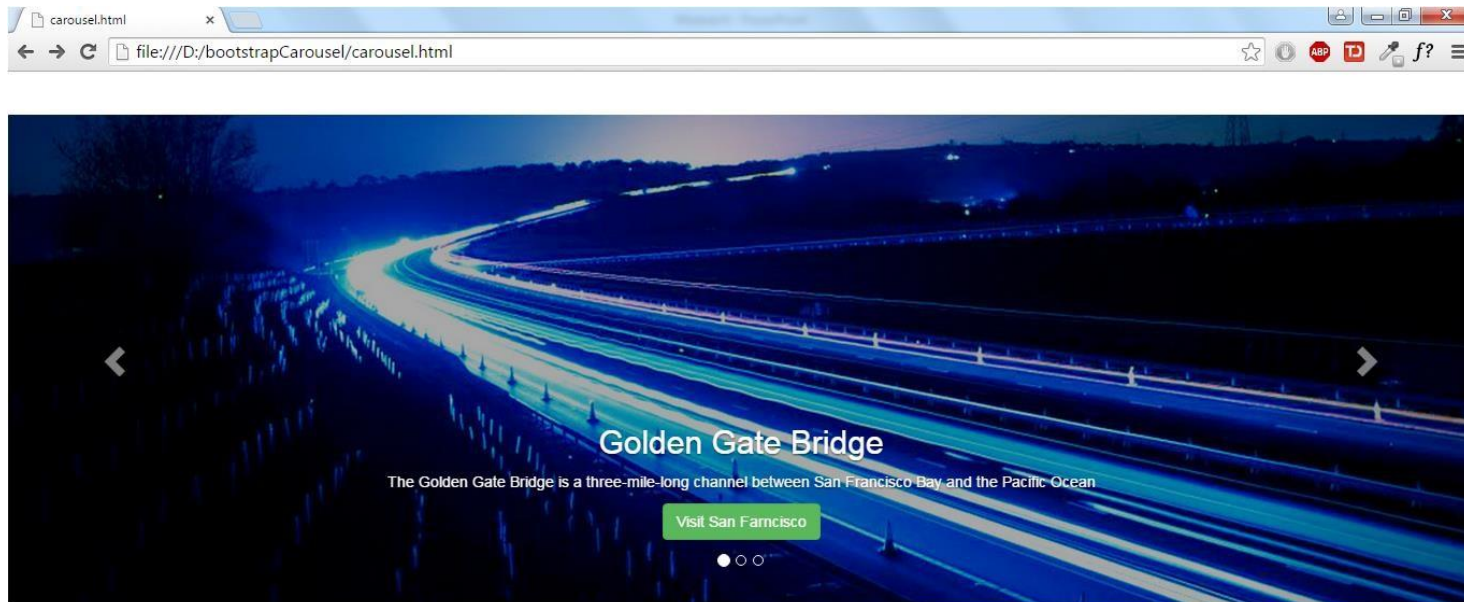
```
<a class="left carousel-control" href="#testCarousel" data-slide="prev">  
  <span class="glyphicon glyphicon-chevron-left"></span>  
</a>
```

→ Right Carousel Control

```
<a class="right carousel-control" href="#testCarousel" data-slide="next">  
  <span class="glyphicon glyphicon-chevron-right"></span>  
</a>
```

Adding Carousel Controls (Contd.)

→ Carousel with left and right Controls



Adding Carousel Controls (Contd.)

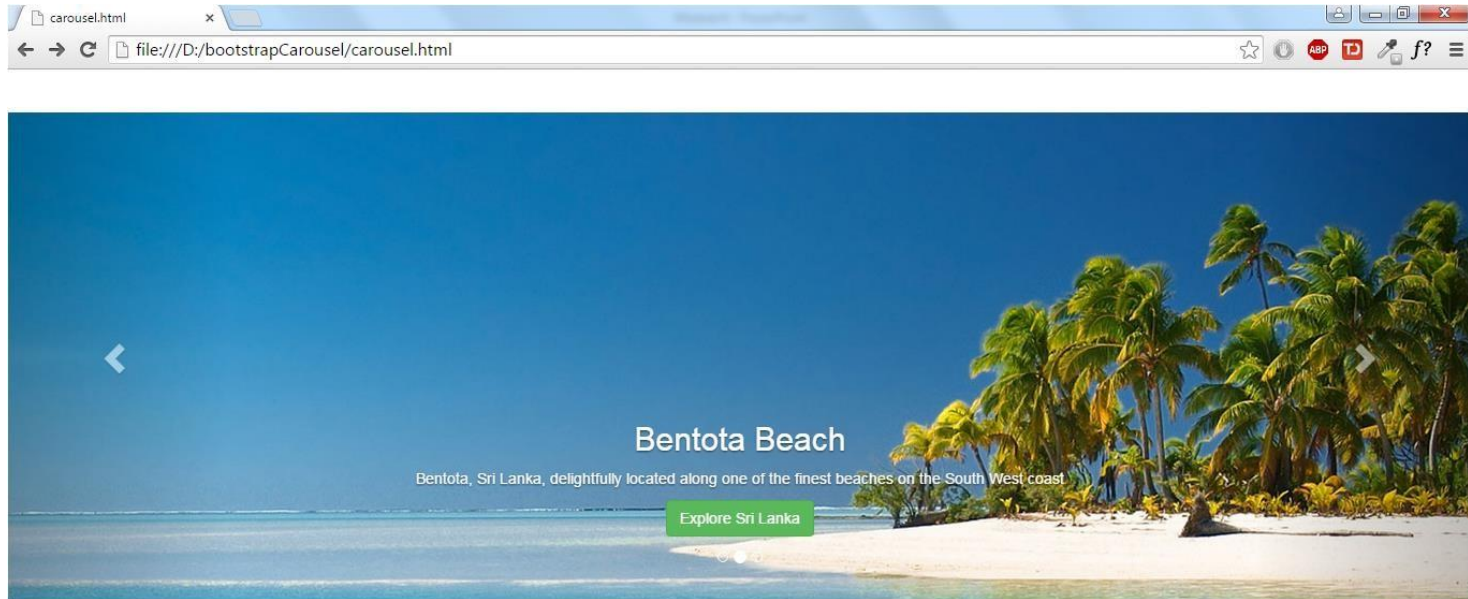
→ Lets add two more div tags within `carousel-inner` div as shown below. Note that we have removed the `active` class from the next two divs

```
<div class="item">
  
  <div class="container">
    <div class="carousel-caption">
      <h2>Bentota Beach</h2>
      <p>Bentota, Sri Lanka, delightfully located along one of the finest beaches on the South West coast</p>
      <p><a class="btn btn-large btn-success">Explore Sri Lanka</a></p>
    </div>
  </div>
</div>

<div class="item">
  
  <div class="container">
    <div class="carousel-caption">
      <h2>Eiffel Tower</h2>
      <p>Discover Paris and the Eiffel Tower</p>
      <p><a class="btn btn-large btn-success">Love in Paris</a></p>
    </div>
  </div>
</div>
```

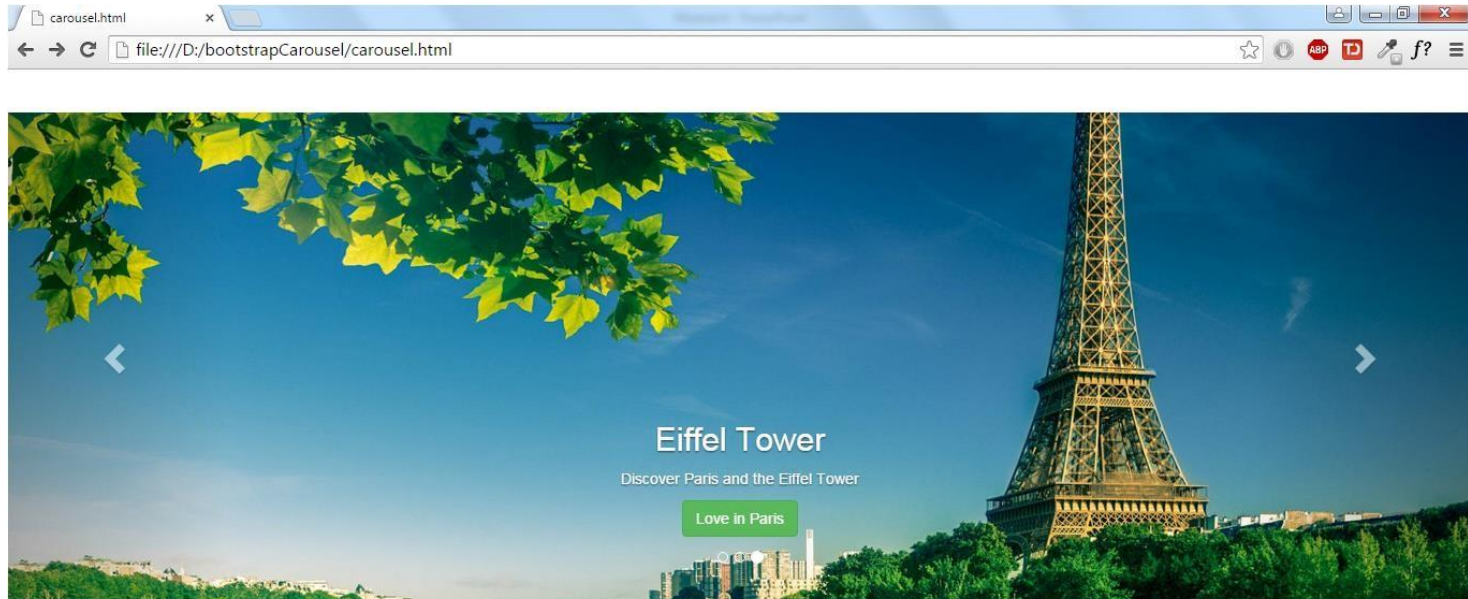
Adding Carousel Controls (Contd.)

→ Class Slide 2



Adding Carousel Controls (Contd.)

→ Class Slide 3



Bootstrap Text Grids

Bootstrap Grids

- Bootstrap uses grid system which allows up to 12 columns across the page in a row
 - » With 12 column there are various combinations in which you can use bootstrap grids
 - » You can display 12 column each with size 1 , 2 columns each with size 6, 1 column with size 12 etc
- Class [container](#) is used to center and pad navbar content
- Bootstrap Grid System

span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1
span 4				span 4				span 4			
span 4				span 8							
span 6						span 6					
span 12											

Using Bootstrap Grids

- Use rows to create horizontal groups of columns by using class `container` or `container-fluid`
- Content is placed within columns, and only columns may be immediate children of rows. Use classes `col-md-4`, `col-md-6` etc. while defining a column

Bootstrap Grids – 3 Columns of same size

→ 3 columns of same size 4

```
<div class="container">
  <div class="row">
    <div class="col-md-4">
      <h1>Column 1 Header</h1>
      <p>
        Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's
        standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a
        type specimen book
      </p>
    </div>
    <div class="col-md-4">
      <h1>Column 2 Header</h1>
      <p>
        Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's
        standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a
        type specimen book
      </p>
    </div>
    <div class="col-md-4">
      <h1>Column 3 Header</h1>
      <p>
        Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's
        standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a
        type specimen book
      </p>
    </div>
  </div>
</div>
```

Bootstrap Grids – 3 Columns of same size

→ 3 columns of same size 4

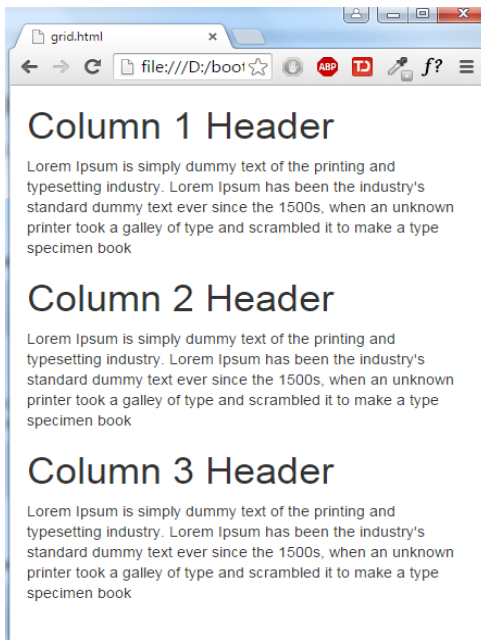
→ Class `container` is used to center and pad navbar content



→ See the live demo here <https://s3-ap-southeast-1.amazonaws.com/s3freebucket/bootstrapGrids/grid.html>

Bootstrap Grids – Scaling of Columns

- The great thing about Bootstrap Grid system is that it automatically scales according to device size
- If you are seeing the same page on a mobile device bootstrap columns will stack one over other as shown below
- Stacked columns on a small screen



Bootstrap Grids – 2 Columns with Different Size

→Below we have created two columns one with size 4 and another with size 8

```
<div class="container">

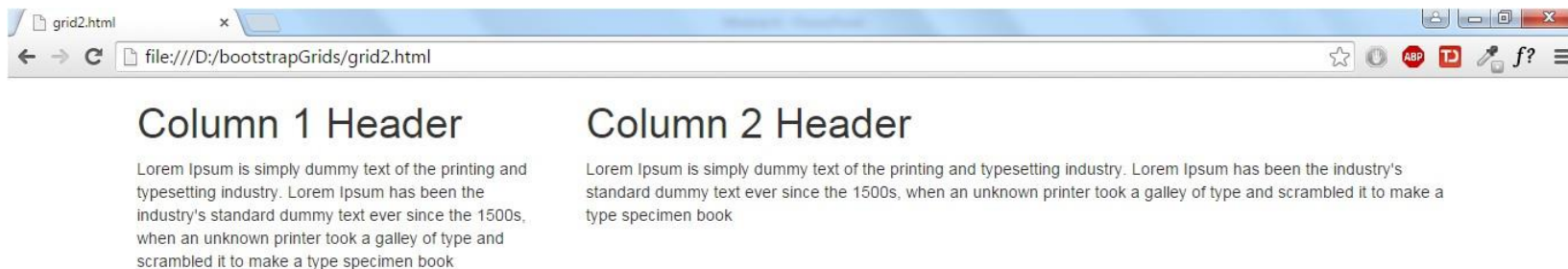
  <div class="row">
    <div class="col-md-4">
      <h1>Column 1 Header</h1>
      <p>
        Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's
        standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a
        type specimen book
      </p>
    </div>

    <div class="col-md-8">
      <h1>Column 2 Header</h1>
      <p>
        Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's
        standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a
        type specimen book
      </p>
    </div>

  </div>
</div>
```

Bootstrap Grids – 2 Columns with Different Size

→Below we have created two columns one with size 4 and another with size 8



→See the live demo here <https://s3-ap-southeast-1.amazonaws.com/s3freebucket/bootstrapGrids/grid2.html>

Bootstrap Grids – 4 Columns with Same Size

→Below we have created 4 columns each with size 3

```
<div class="container">

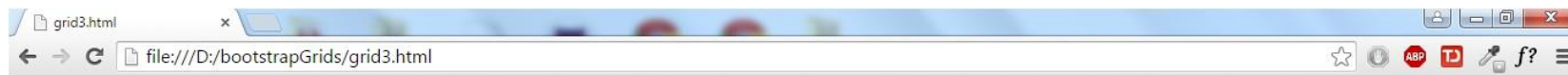
  <div class="row">
    <div class="col-md-3">
      <h1>Cappuccino</h1>
      <p>
        A cappuccino is an Italian coffee drink which is traditionally prepared with espresso, hot milk and steamed milk foam. Cream may be used instead of milk and is often topped with cinnamon. It is typically smaller in volume than a caffe latte, with a thicker layer of micro foam
      </p>
    </div>

    <div class="col-md-3">
      <h1>Espresso</h1>
      <p>
        Espresso is coffee brewed by forcing a small amount of nearly boiling water under pressure through finely ground coffee beans. Espresso is generally thicker than coffee brewed by other methods, has a higher concentration of suspended and dissolved solids, and has crema on top (a foam with a creamy consistency)
      </p>
    </div>

    <div class="col-md-3">
      <h1>Caffe Latte</h1>
      <p>
        A caffe latte is a single shot of espresso to three parts of steamed milk. How to have it: Sugar your latte to taste and enjoy your latte with cookies or a sponge cake.
      </p>
    </div>

    <div class="col-md-3">
      <h1>Caffe Mocha</h1>
      <p>
        This is a cappuccino or a caffe latte with chocolate syrup or powder added. How to have it: You can top it with cocoa powder or grated chocolate. It can also be garnished with whipped cream.
      </p>
    </div>
  </div>
</div>
```

Bootstrap Grids – 4 Columns with Same Size



Cappuccino

A cappuccino is an Italian coffee drink which is traditionally prepared with espresso, hot milk and steamed milk foam. Cream may be used instead of milk and is often topped with cinnamon. It is typically smaller in volume than a caffe latte, with a thicker layer of micro foam

Espresso

Espresso is coffee brewed by forcing a small amount of nearly boiling water under pressure through finely ground coffee beans. Espresso is generally thicker than coffee brewed by other methods, has a higher concentration of suspended and dissolved solids, and has crema on top (a foam with a creamy consistency)

Caffe Latte

A caffe latte is a single shot of espresso to three parts of steamed milk. How to have it: Sugar your latte to taste and enjoy your latte with cookies or a sponge cake.

Caffe Mocha

This is a cappuccino or a caffe latte with chocolate syrup or powder added. How to have it: You can top it with cocoa powder or grated chocolate. It can also be garnished with whipped cream.

Bootstrap Grids – Single Column with Size 12

→When we need just a single column in a row, no grid classes are necessary for full width elements

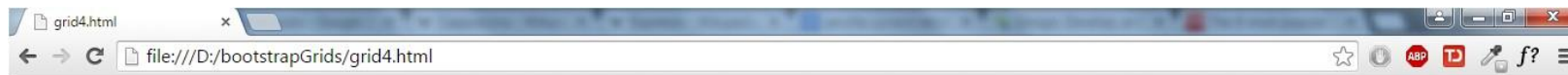
→Below we are creating a single column that will take entire row

```
<div class="container">

  <div class="row">
    <div>
      <h1>Cappuccino</h1>
      <p>
        A cappuccino is an Italian coffee drink which is traditionally prepared with espresso, hot milk and steamed milk foam. Cream may be used instead of milk and is often topped with cinnamon. It is typically smaller in volume than a caffe latte, with a thicker layer of micro foam
      </p>
    </div>
  </div>

</div>
```

Bootstrap Grids – Single Column with Size 12



Cappuccino

A cappuccino is an Italian coffee drink which is traditionally prepared with espresso, hot milk and steamed milk foam. Cream may be used instead of milk and is often topped with cinnamon. It is typically smaller in volume than a caffe latte, with a thicker layer of micro foam

Using Font Awesome Icons

Font Awesome Icons

- Rather than using images as icons, Font awesome icons can be used.
- Font Awesome provides scalable vector icons that can instantly be customized using CSS
- Complete list of font awesome icons is available here <https://fontawesome.github.io/Font-Awesome/icons/>

Using Font Awesome Icons

→To use font awesome icons in your project you just need to use the font awesome css. So put following line in the head section of your webpage

```
<link href="https://netdna.bootstrapcdn.com/font-awesome/3.2.1/css/font-awesome.css" type="text/css" rel="stylesheet" />
```

→See the live demo here <https://s3-ap-southeast-1.amazonaws.com/s3freebucket/bootstrapGrids/font-awesome.html>

Using Font Awesome Icons (Contd.)

→ Here we have added Font awesome icons for linkedIN, twitter, facebook, youtube and google+

```
<!DOCTYPE HTML>
<html>

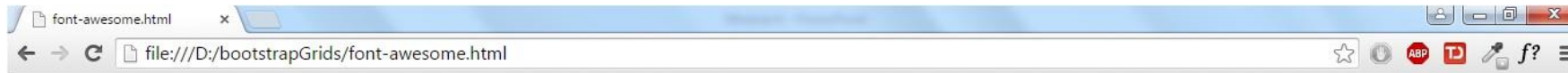
  <head>
    <link rel="stylesheet" href="bootstrap/css/bootstrap.min.css" />
    <link href="https://netdna.bootstrapcdn.com/font-awesome/3.2.1/css/font-awesome.css" type="text/css" rel="stylesheet" />
  </head>

  <body>
    <br/><br/>
    <div class="container">
      <div class="row">
        <div class="col-md-12">
          <div class="well">
            <i class="icon-linkedin"></i>
            <i class="icon-twitter"></i>
            <i class="icon-facebook"></i>
            <i class="icon-youtube"></i>
            <i class="icon-google-plus"></i>
          </div>
        </div>
      </div>
    </div>

    <script src="bootstrap/js/jquery-1.11.3.js"></script>
    <script src="bootstrap/js/bootstrap.min.js"></script>
  </body>
</html>
```

Using Font Awesome Icons (Contd.)

- Even though we are able to display icons but we have to customize the icons a bit to change font size and other properties
- We can customize the font awesome icons by using an external CSS file



in   

Customizing Font Awesome Icons

→ Here we have applied an external stylesheet to change the font-size to 55px

```
<link rel="stylesheet" href="bootstrap/css/custom.css" />
```

```
<div class="container">
  <div class="row">
    <div class="col-md-12">
      <div class="well">
        <i class="bigIcon icon-linkedin"></i>
        <i class="bigIcon icon-twitter"></i>
        <i class="bigIcon icon-facebook"></i>
        <i class="bigIcon icon-youtube"></i>
        <i class="bigIcon icon-google-plus"></i>
      </div>
    </div>
  </div>
</div>
```

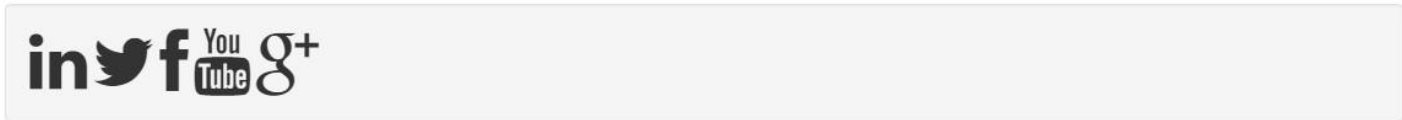
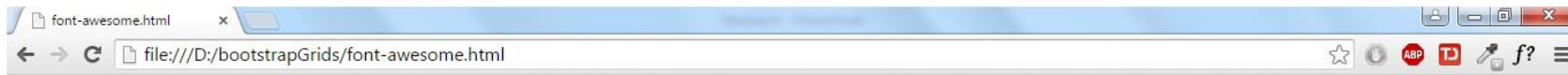
```
.bigIcon{
    font-size:55px;
}
```

custom.css

Customizing Font Awesome Icons (Contd.)

→ Lets add some padding between font awesome icons

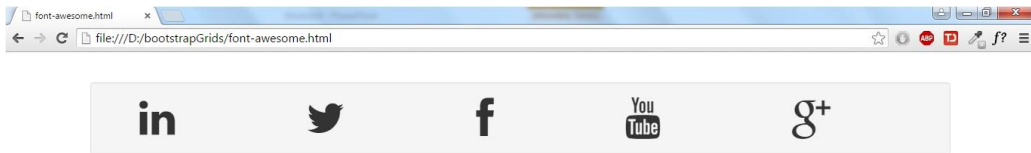
After increasing the font-size



Customizing Font Awesome Icons (Contd.)

→Note that still we can not click on the icons, so lets make our font-awesome icons a link

After left and right padding



```
.bigIcon{  
    font-size:55px;  
    padding-left: 45px;  
    padding-right: 125px;  
}
```

Customizing Font Awesome Icons (Contd.)

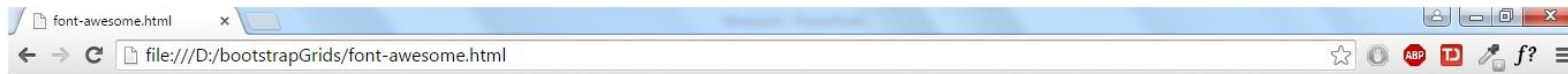
→Note that we have put our icon tags inside a tags and set the target attribute to `_blank` which will open the link in a new tab on clicking the icon

```
<div class="container">
  <div class="row">
    <div class="col-md-12">
      <div class="well">
        <a target="_blank" href="https://www.linkedin.com/company/edureka"><i class="bigIcon icon-linkedin"></i></a>
        <a target="_blank" href="https://twitter.com/edurekaIN"><i class="bigIcon icon-twitter"></i></a>
        <a target="_blank" href="https://www.facebook.com/edurekaIN"><i class="bigIcon icon-facebook"></i></a>
        <a target="_blank" href="https://www.youtube.com/user/edurekaIN"><i class="bigIcon icon-youtube"></i></a>
        <a target="_blank" href="https://plus.google.com/+edurekaIN/"><i class="bigIcon icon-google-plus"></i></a>
      </div>
    </div>
  </div>
</div>
```


Customizing Font Awesome Icons (Contd.)

→Now icons look much better than before, only problem is when you hover your mouse on an icon, an underline is shown

→To get rid of that you can set the text-decoration property to none as shown below

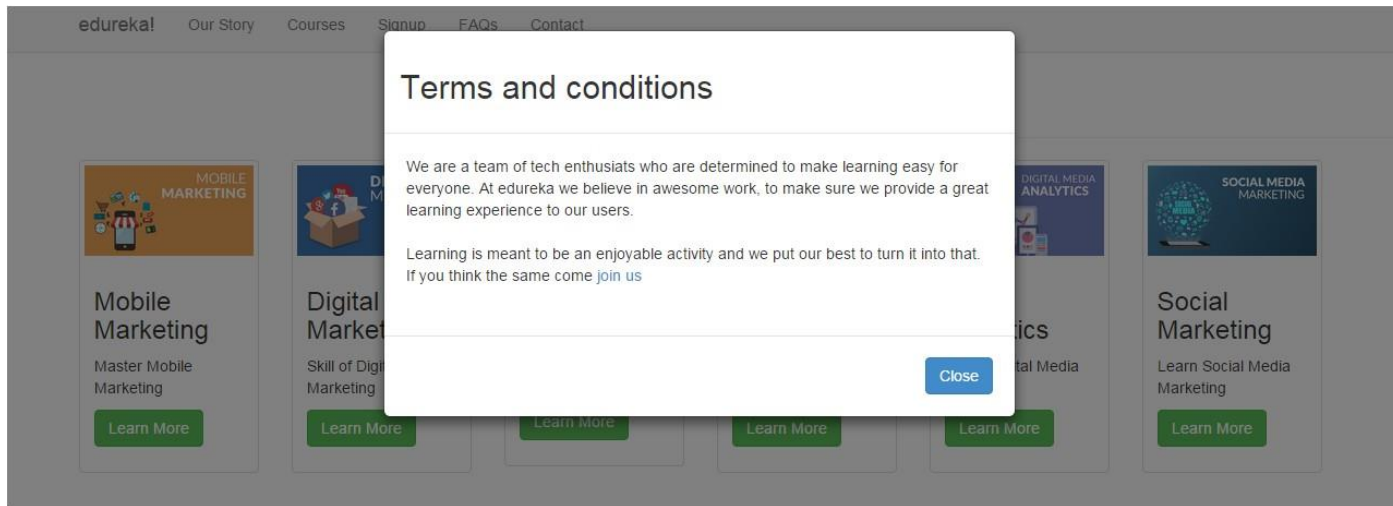


```
a:hover{  
  text-decoration: none;  
}
```

Using Bootstrap Modal

Bootstrap Modal

→Bootstrap modals are dialog prompts which is displayed on top of the current page by fading the current page

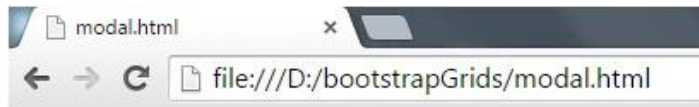


Bootstrap Modal

Creating Bootstrap Modal

→Below we created a simple paragraph with a link , on clicking the link we will display the bootstrap modal

```
<div class="container">
  <div class="row">
    <div class="col-md-12">
      <p>
        Copyright &copy; 2010-2015
        <a data-toggle="modal" href="#testModal">Privacy Policy</a>
      </p>
    </div>
  </div>
</div>
```



Copyright © 2010-2015 [Privacy Policy](#)

→On clicking Privacy Policy link we will display the bootstrap modal

Creating Bootstrap Modal (Contd.)


→Below we have defined the modal with id `testModal` which will be displayed on clicking the `Privacy Policy` link as it is the href for the `a` tag

```
<div class="container">
  <div class="row">
    <div class="col-md-12">
      <p>
        Copyright &copy; 2010-2015
        <a data-toggle="modal" href="#testModal">Privacy Policy</a>
      </p>
    </div>

    <div class="modal fade" id="testModal" role="dialog" aria-hidden="true">
      <div class="modal-dialog">

      </div>
    </div>

  </div>
</div>
```



Note the use of `aria-hidden` attribute which is set to `true` as modal will only be visible when user clicks the link

Creating Bootstrap Modal (Contd.)

→Now If you click the Privacy Policy link it will fade the screen and modal (`testModal`) will appear

→Note that we haven't put any content in our modal yet. So lets do that



Creating Bootstrap Modal (Contd.)

→Below we have defined modal content which includes modal header, modal body and modal footer

```
<div class="modal-dialog">
  <div class="modal-content">
    <div class="modal-header">
      <h2>Privacy Policy</h2>
    </div>

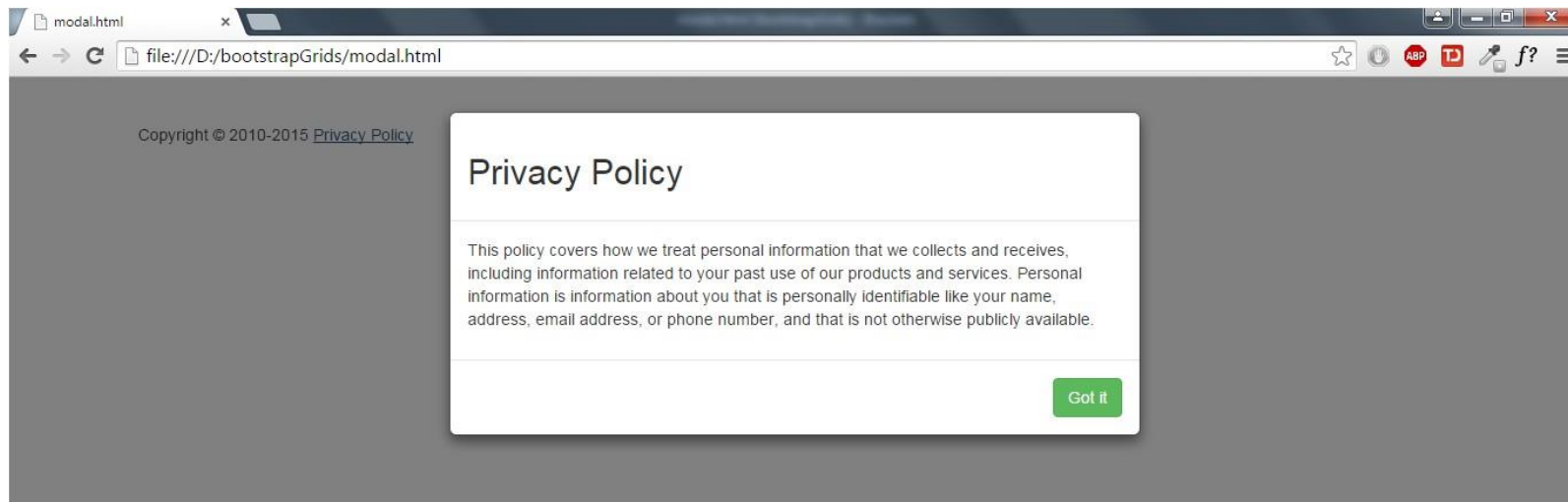
    <div class="modal-body">
      <p>This policy covers how we treat personal information that we collect and receive, including
        information related to your past use of our products and services. Personal information is information
        about you that is personally identifiable like your name, address, email address, or phone number, and that
        is not otherwise publicly available.
      </p>
    </div>

    <div class="modal-footer">
      <button type="button" class="btn btn-success" data-dismiss="modal">Got it</button>
    </div>
  </div>
</div>
```

→Note that on clicking the modal footer button it will dismiss the modal

Creating Bootstrap Modal (Contd.)

→Bootstrap Modal

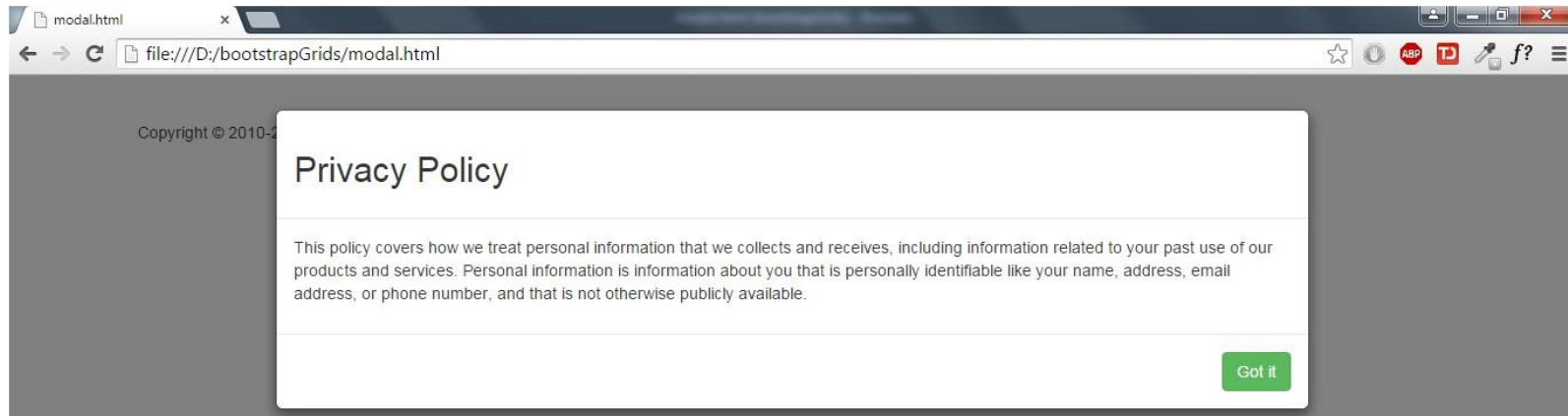


Changing the size of Modal – Large Modal

→You can also change the modal dialog size to small and large by using `modal-sm` and `modal-lg` class

```
<div class="modal-dialog modal-lg">
```

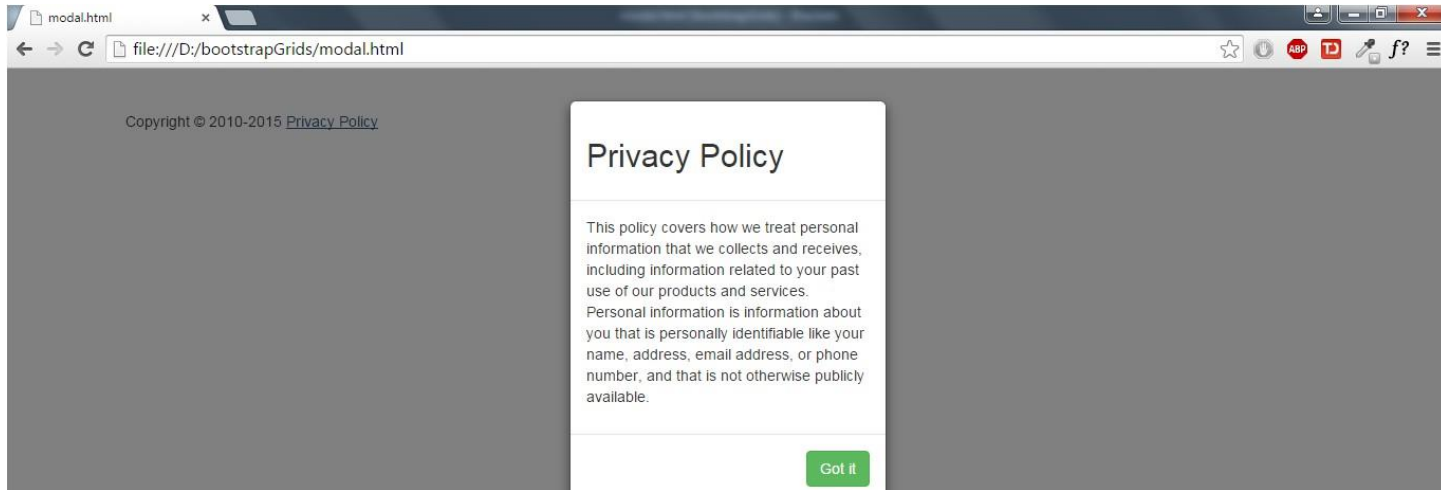
Large Modal



Changing the size of Modal – Small Modal

```
<div class="modal-dialog modal-sm">
```

Small Modal



Horizontal Bootstrap Form

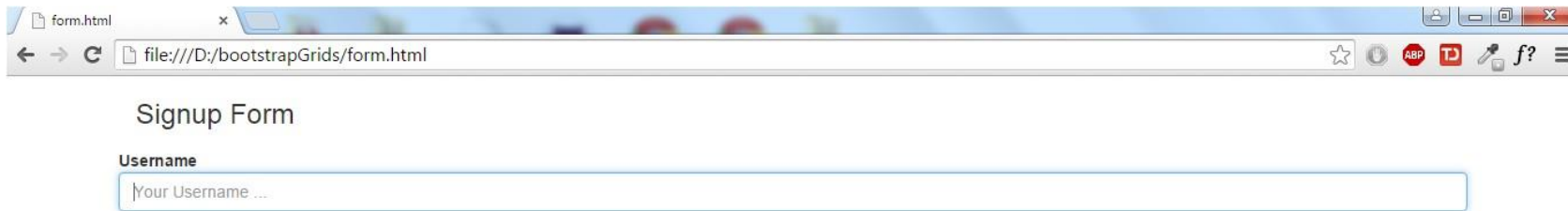
Bootstrap Forms

- Bootstrap provides awesome looking forms which can be used to create login forms, contact form, signup form etc.
- We will create a horizontal form with labels for each form element
- Note that we have used `form-horizontal` class for the form and set the role to `form`
- Each form element will be defined under a div with class `form-group`

```
<body>
  <div class="container">
    <div class="row">
      <div class="col-md-12">
        <h3> Signup Form</h3>
        <form class="form-horizontal" role="form">
          <div class="form-group">
            <label for="username" class="control-label">Username</label>
            <div class="">
              <input type="text" placeholder="Your Username ..." class="form-control"/>
            </div>
          </div>
        </form>
      </div>
    </div>
  </div>
  <script src="bootstrap/js/jquery-1.11.3.js"></script>
  <script src="bootstrap/js/bootstrap.min.js"></script>
</body>
```

Bootstrap Forms (Contd.)

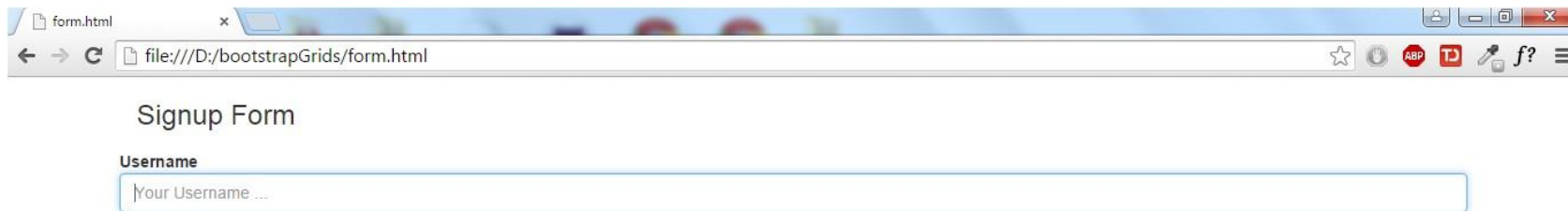
→ Note that form text input element is quite long and the label Username is above the input element. Next we will decrease the size of input element and set the label to appear before the input element not above it



The screenshot shows a web browser window with the address bar displaying 'file:///D:/bootstrapGrids/form.html'. The page content includes the title 'Signup Form' and a form element with the label 'Username' positioned above a long text input field. The input field contains the placeholder text 'Your Username ...'.

Bootstrap Forms (Contd.)

- Note that form text input element is quite long and the label Username is above the input element
- Next we will decrease the size of input element and set the label to appear before the input element not above it

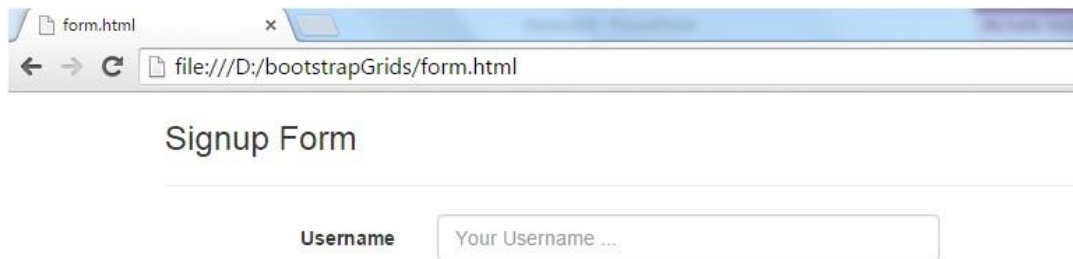


The screenshot shows a web browser window with the title 'form.html' and the address bar displaying 'file:///D:/bootstrapGrids/form.html'. The page content includes the heading 'Signup Form' and a label 'Username' positioned above a long, rectangular text input field. The input field contains the placeholder text 'Your Username ...'.

Bootstrap Forms (Contd.)

→ We have used the class `col-sm-2` for the label and `col-sm-4` for input element

```
<form class="form-horizontal" role="form">
  <div class="form-group">
    <label for="username" class="col-sm-2 control-label">Username</label>
    <div class="col-sm-4">
      <input type="text" placeholder="Your Username ..." class="form-control"/>
    </div>
  </div>
</form>
```

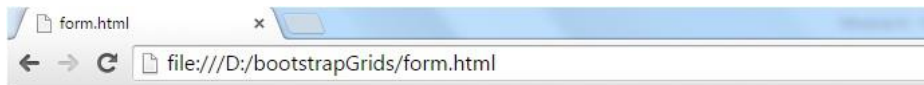


The screenshot shows a web browser window with a single tab titled 'form.html'. The address bar displays the file path 'file:///D:/bootstrapGrids/form.html'. The page content features a 'Signup Form' heading followed by a horizontal form group. This group contains a 'Username' label and a text input field with the placeholder text 'Your Username ...'.

Bootstrap Forms (Contd.)

```
<div class="form-group">
  <label for="email" class="col-sm-2 control-label">Email</label>
  <div class="col-sm-4">
    <input type="email" placeholder="Your Email ..." class="form-control"/>
  </div>
</div>
```

Email Element



Signup Form

Username

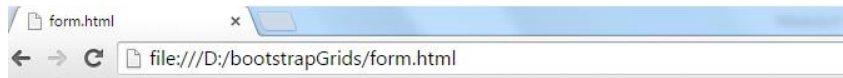
Email

Note that by default labels are right aligned

Bootstrap Forms (Contd.)

```
<div class="form-group">
  <label for="password" class="col-sm-2 control-label">Password</label>
  <div class="col-sm-4">
    <input type="password" placeholder="Password ..." class="form-control"/>
  </div>
</div>
```

Password Element



Signup Form

Username

Email

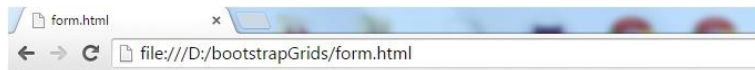
Password

Note that by default labels are right aligned

Bootstrap Forms (Contd.)

```
<div class="form-group">
<label for="how-you-know" class="col-sm-2 control-label">How you find us</label>
  <div class="col-sm-4">
    <select class="form-control">
      <option>Friend</option>
      <option>Facebook</option>
      <option>News</option>
      <option>Google Search Results</option>
    </select>
  </div>
</div>
```

Dropdown Element



Signup Form

Username	<input type="text" value="Your Username"/>
Email	<input type="text" value="Your Email"/>
Password	<input type="password" value="Password"/>
How you find us	<div>Google Search Results ▾</div>

Bootstrap Forms (Contd.)

→Radio-inline class will inline the radio labels

```
<div class="form-group">
  <label for="gender" class="col-sm-2 control-label">Gender</label>
  <div class="col-sm-4">

    <label class="radio-inline">
      <input type="radio" name="radio" value="male"/> Male
    </label>

    <label class="radio-inline">
      <input type="radio" name="radio" value="female"/> Female
    </label>

  </div>
</div>
```



Note that we have set the name attribute of both the radio buttons to same value (e.g. radio) otherwise user will be able to select both the radio buttons

Radio Button Element

form.html x

file:///D:/bootstrapGrids/form.html

Signup Form

Username

Email

Password

How you find us

Gender ☒ Male ☐ Female

Bootstrap Forms (Contd.)

→For checkboxes we use `checkbox-inline` class

```
<div class="form-group">
  <label for="skills" class="col-sm-2 control-label">Skills</label>
  <div class="col-sm-10">

    <label class="checkbox-inline">
      <input type="checkbox" value="option1"/> J2SE
    </label>

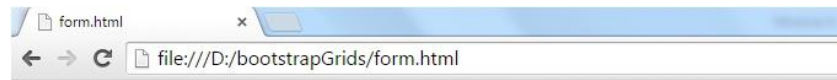
    <label class="checkbox-inline">
      <input type="checkbox" value="option2"/> J2EE
    </label>

    <label class="checkbox-inline">
      <input type="checkbox" value="option2"/> PHP
    </label>

    <label class="checkbox-inline">
      <input type="checkbox" value="option1"/> Python
    </label>

    <label class="checkbox-inline">
      <input type="checkbox" value="option1"/> Ruby
    </label>

  </div>
</div>
```



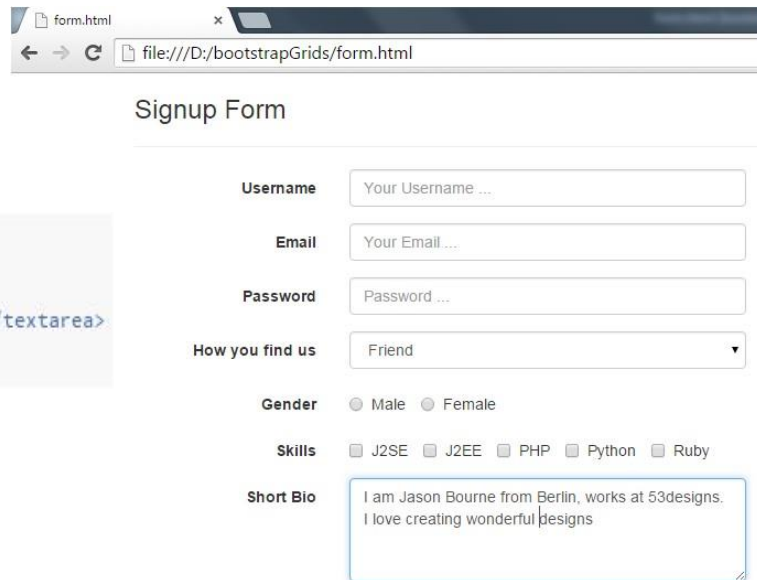
Signup Form

Username	<input type="text" value="Your Username ..."/>
Email	<input type="text" value="Your Email ..."/>
Password	<input type="password" value="Password ..."/>
How you find us	<input type="text" value="Friend"/>
Gender	<input type="radio"/> Male <input type="radio"/> Female
Skills	<input checked="" type="checkbox"/> J2SE <input checked="" type="checkbox"/> J2EE <input checked="" type="checkbox"/> PHP <input checked="" type="checkbox"/> Python <input checked="" type="checkbox"/> Ruby

Bootstrap Forms (Contd.)

- Here we have used textarea, asking user to type a short bio
- You can increase the size of textarea by increasing the number of rows

```
<div class="form-group">
  <label for="message" class="col-sm-2 control-label">Short Bio</label>
  <div class="col-sm-4">
    <textarea class="form-control" rows="4" placeholder="Introduce yourself ..."></textarea>
  </div>
</div>
```



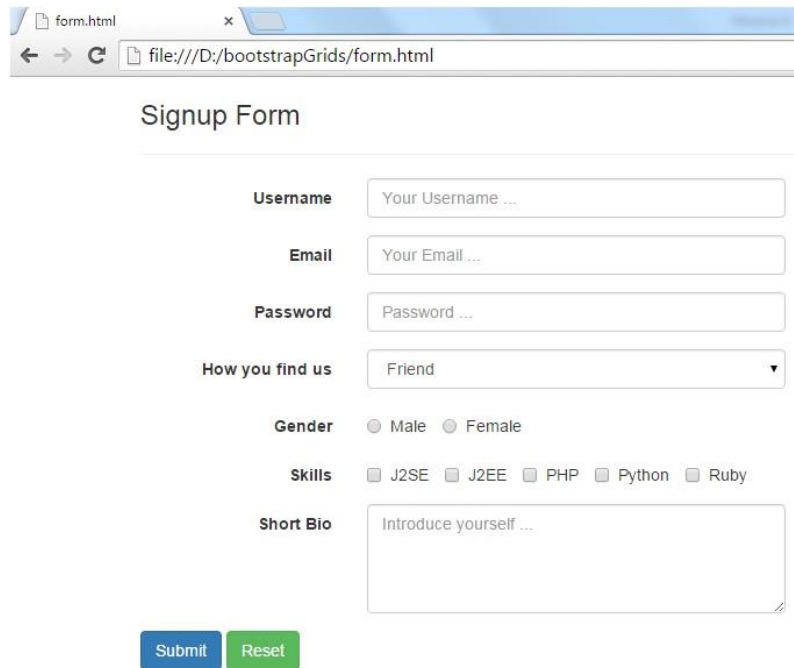
The screenshot shows a web browser window with the address bar displaying 'file:///D:/bootstrapGrids/form.html'. The page title is 'Signup Form'. The form contains the following fields:

- Username:** A text input field with the placeholder text 'Your Username ...'.
- Email:** A text input field with the placeholder text 'Your Email ...'.
- Password:** A text input field with the placeholder text 'Password ...'.
- How you find us:** A dropdown menu with 'Friend' selected.
- Gender:** Two radio buttons labeled 'Male' and 'Female'.
- Skills:** Four checkboxes labeled 'J2SE', 'J2EE', 'PHP', and 'Python', followed by 'Ruby'.
- Short Bio:** A large text area with the placeholder text 'Introduce yourself ...'. The text area contains the text: 'I am Jason Bourne from Berlin, works at 53designs. I love creating wonderful designs'.

Bootstrap Forms (Contd.)

- Here we have shown two buttons one for submit and another one to reset the form values
- But both the buttons are not aligned according to the form
- Lets give some offset to align the buttons

```
<div class="form-group">
  <div class="col-sm-6">
    <button type="submit" class="btn btn-primary">Submit</button>
    <button type="reset" class="btn btn-success">Reset</button>
  </div>
</div>
```



The screenshot shows a web browser window with the address bar displaying 'file:///D:/bootstrapGrids/form.html'. The page title is 'Signup Form'. The form contains the following fields:

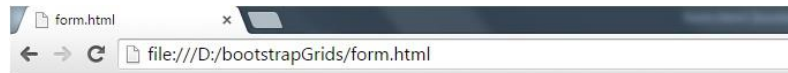
- Username:** A text input field with placeholder text 'Your Username ...'.
- Email:** A text input field with placeholder text 'Your Email ...'.
- Password:** A text input field with placeholder text 'Password ...'.
- How you find us:** A dropdown menu with 'Friend' selected.
- Gender:** Two radio buttons labeled 'Male' and 'Female'.
- Skills:** Four checkboxes labeled 'J2SE', 'J2EE', 'PHP', 'Python', and 'Ruby'.
- Short Bio:** A text area with placeholder text 'Introduce yourself ...'.

At the bottom of the form, there are two buttons: a blue 'Submit' button and a green 'Reset' button.

Bootstrap Forms (Contd.)

→Note that we have used `col-sm-offset-3` to give the offset

```
<div class="form-group">
  <div class="col-sm-offset-3 col-sm-6">
    <button type="submit" class="btn btn-primary">Submit</button>
    <button type="reset" class="btn btn-success">Reset</button>
  </div>
</div>
```



Signup Form

Username	<input type="text" value="Your Username ..."/>
Email	<input type="text" value="Your Email ..."/>
Password	<input type="password" value="Password ..."/>
How you find us	<input type="text" value="Friend"/>
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female
Skills	<input type="checkbox"/> J2SE <input type="checkbox"/> J2EE <input type="checkbox"/> PHP <input type="checkbox"/> Python <input type="checkbox"/> Ruby
Short Bio	<input type="text" value="Introduce yourself ..."/>

Inline Bootstrap Form

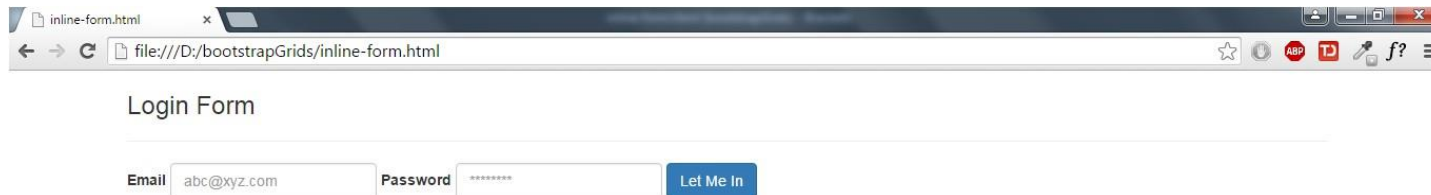
Bootstrap Inline Form

- Note the use of class `form-inline` and HTTP method `post` to send the confidential data to server
- Inline forms are best suited when we need just small bit of info from user e.g. username and password

```
<form class="form-inline" action="#" method="post">
  <div class="form-group">
    <label for="input1">Email</label>
    <input type="email" class="form-control" id="input1" placeholder="abc@xyz.com">
  </div>

  <div class="form-group">
    <label for="input2">Password</label>
    <input type="password" class="form-control" id="input2" placeholder="*****">
  </div>

  <button type="submit" class="btn btn-primary">Let Me In</button>
</form>
```



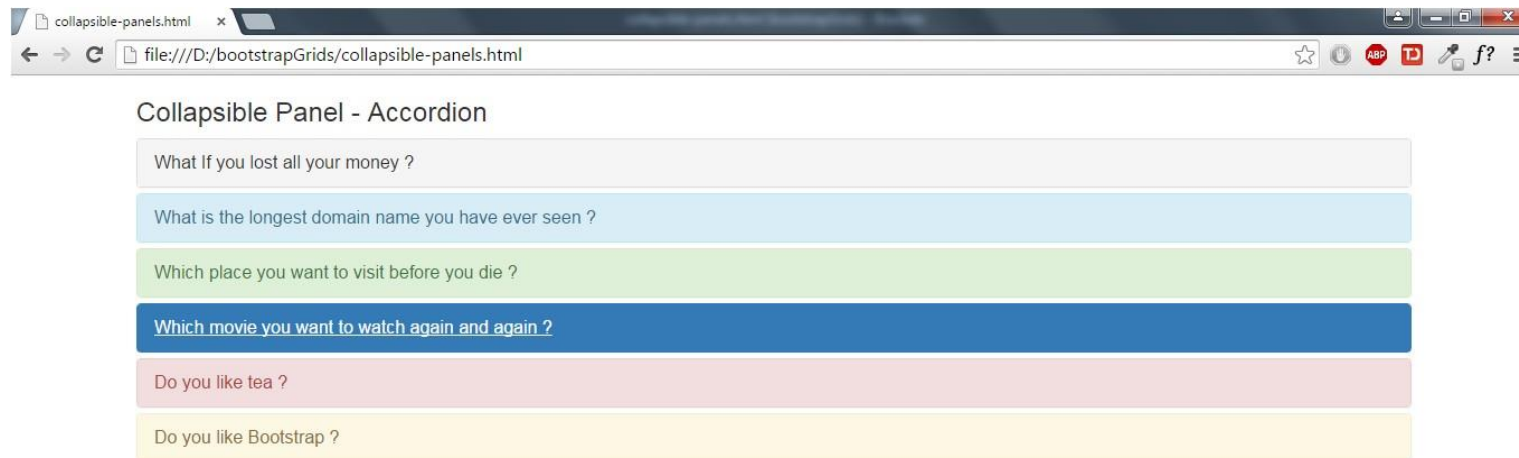
The screenshot shows a web browser window with the address bar displaying 'file:///D:/bootstrapGrids/inline-form.html'. The page content is titled 'Login Form'. Below the title, there is an inline form with two input fields: 'Email' with the placeholder 'abc@xyz.com' and 'Password' with the placeholder '*****'. To the right of these fields is a blue button labeled 'Let Me In'.

Bootstrap Collapsible Panel - Accordion

Bootstrap Collapsible Panel – Accordion

→ Suppose you want to create a quiz application where each question is followed by an answer. But answer should only be shown when user clicks on a question. This is a perfect scenario to use collapsible panel.

→ Bootstrap provides a very easy way to show collapsible panels in a web page



Bootstrap Collapsible Panel – Accordion (Contd.)

→We have created a div with class `panel-group` which will group all the panels

→Inside the panel-group div we have defined another div with class `panel-default` which contains the panel-heading div.

```
<div class="container">
  <div class="row">
    <div class="col-md-12">


      <h3>Collapsible Panel - Accordion</h3>

      <div class="panel-group" id="accordion">

        <div class="panel panel-default">
          <div class="panel-heading">
            <div class="panel-title">
              <a data-toggle="collapse" data-parent="#accordion" href="#q1"> What If you lost all your money ?</a>
            </div>
          </div>
        </div>

      </div>

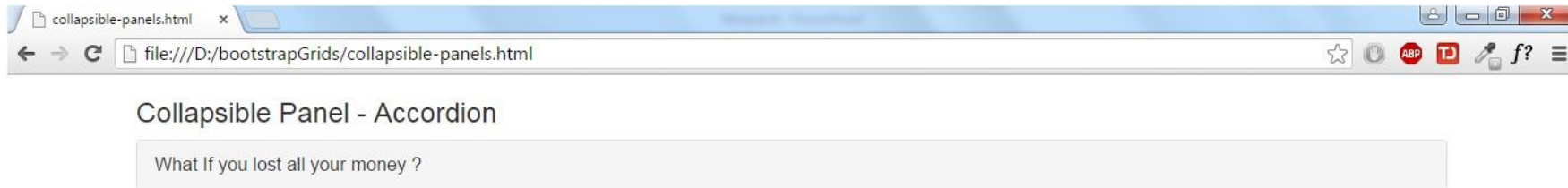
    </div>
  </div>
</div>
```



Note that we have set `data-toggle` to `collapse` and `href` to `id q1` which means on clicking the question an element with `id q1` will be displayed

Bootstrap Collapsible Panel – Accordion (Contd.)

- Currently we have only one panel inside the panel group
- And on clicking the link “What If you lost all your money” nothing will happen as we haven’t defined the target element with matching id of `q1`



Bootstrap Collapsible Panel – Accordion (Contd.)

→ Below we have defined a div with id `q1` which contains another div with class `panel-body` which will be shown on clicking the question

```
<div class="panel-group" id="accordion">

  <div class="panel panel-default">
    <div class="panel-heading">
      <div class="panel-title">
        <a data-toggle="collapse" data-parent="#accordion" href="#q1"> What If you lost all your money ?</a>
      </div>
    </div>

    <div class="panel-collapse collapse" id="q1">
      <div class="panel-body">
        Not a big deal, I will earn it again ...
      </div>
    </div>
  </div>

</div>
```

Bootstrap Collapsible Panel – Accordion (Contd.)

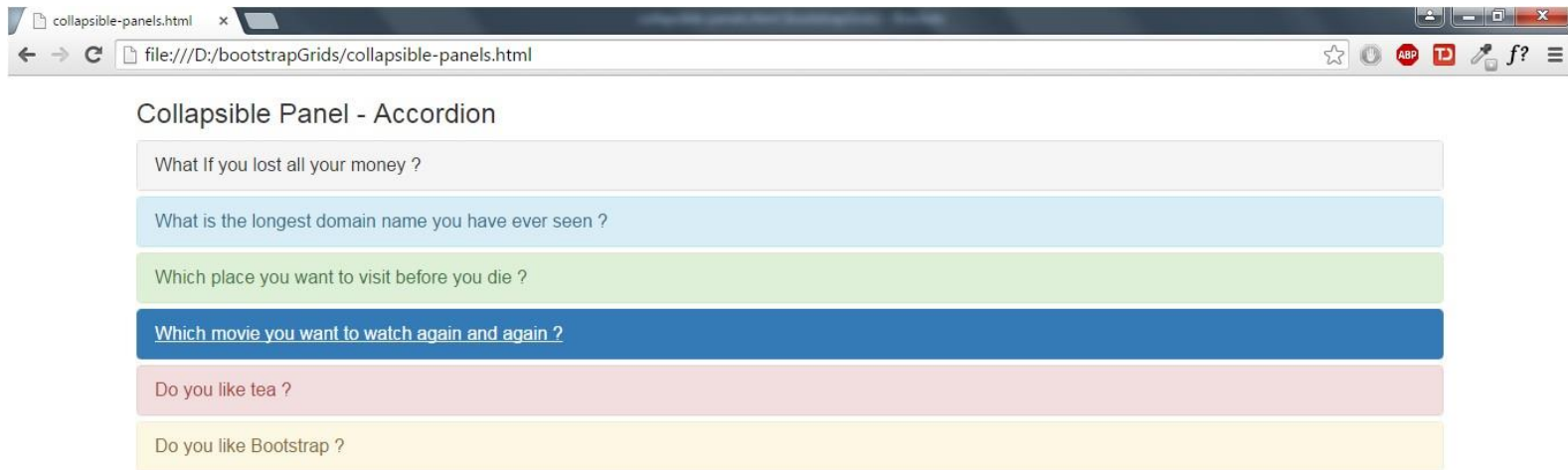
→If you want the panel to be opened by default (without clicking the question panel) , you can achieve that using in class with the target element, as shown below



```
<div class="panel-collapse collapse in" id="q1">
```

Bootstrap Collapsible Panel – Accordion (Contd.)

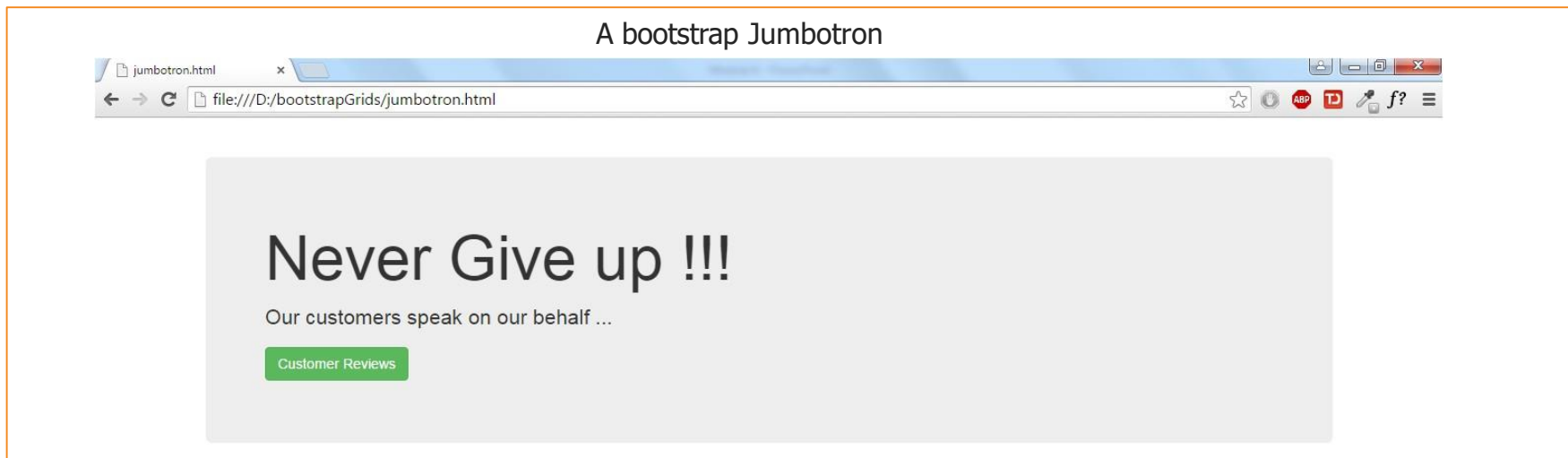
→Note that we can change the color of our panels by using different classes like `panel-primary`, `panel-danger`, `panel-warning`, `panel-info`, `panel-success`, `panel-default` as shown above



Bootstrap Jumbotron

Bootstrap Jumbotron

- A **Jumbotron** is a big box of content used for getting the attention of the user
- Jumbotron should be used for advertisement purpose. Bootstrap provides a very easy way to create a Jumbotron



Bootstrap Jumbotron (Contd.)

→To create a Jumbotron we use the class `jumbotron` as shown below

→Note that we have a h1 header, some text and a link as content in our Jumbotron

```
<div class="container">
  <div class="row">
    <div class="col-md-12">

      <div class="jumbotron">
        <h1>Never Give up !!!</h1>
        <p>
          Our customers speak on our behalf ...
        </p>
        <p>
          <a href="#" class="btn btn-success">Customer Reviews</a>
        </p>
      </div>
    </div>
  </div>
</div>
```

Bootstrap Image Classes

Bootstrap Image Classes

→Bootstrap provides `img-rounded`, `img-circle` and `img-thumbnail` class to style the images

```
<div class="container">
  <div class="row">
    <div class="col-md-4">
      
    </div>

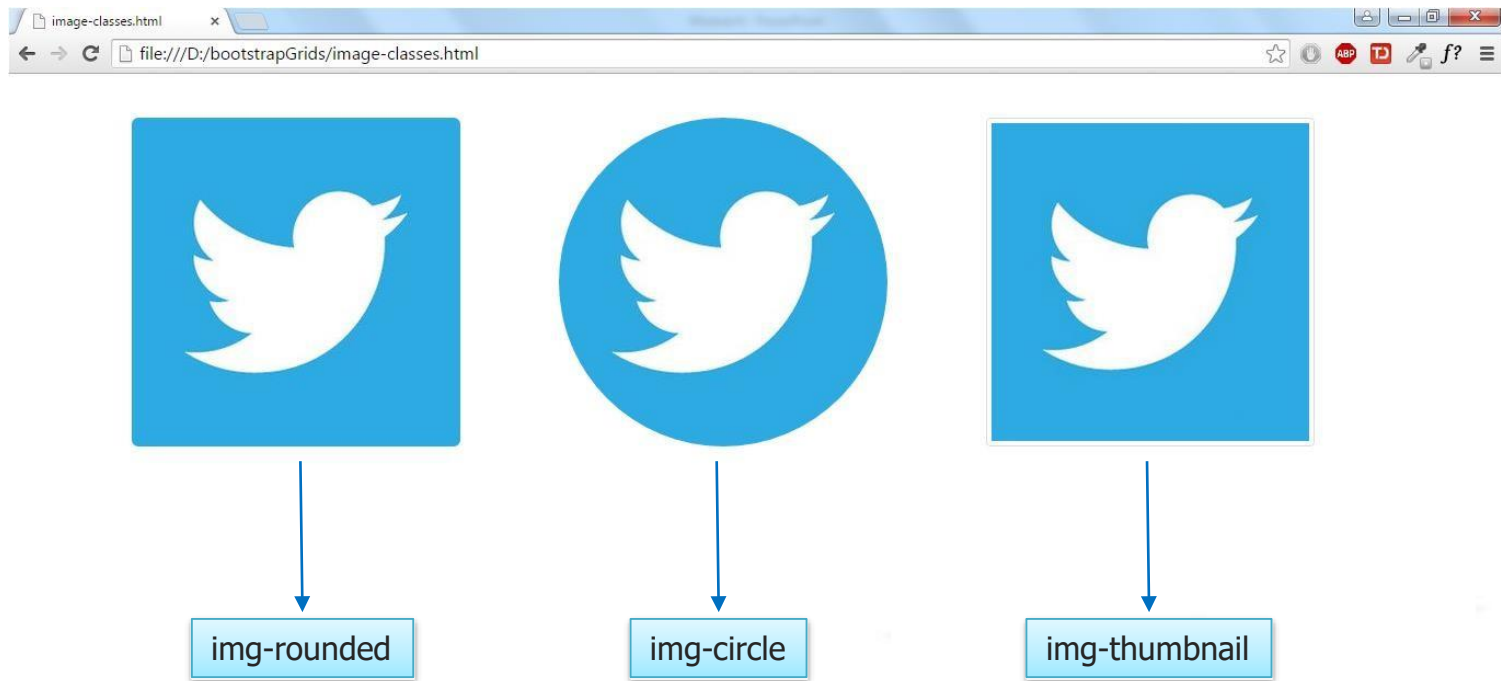
    <div class="col-md-4">
      
    </div>

    <div class="col-md-4">
      
    </div>
  </div>
</div>
```

→See the live demo here <https://s3-ap-southeast-1.amazonaws.com/s3freebucket/bootstrapGrids/image-classes.html>

Bootstrap Image Classes (Contd.)

→Note the border around image styled using img-thumbnail class



Bootstrap Thumbnails

Bootstrap Simple Thumbnails

→An image thumbnail is a small sized image of an original image. While loading large size images in a web page it takes a lot of time, to give the users a better experience we can use thumbnails which are small sized images with a link.

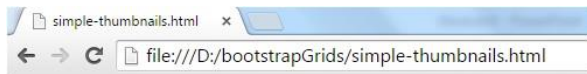
→See the live demo here <https://s3-ap-southeast-1.amazonaws.com/s3freebucket/bootstrapGrids/simple-thumbnails.html>

```
<div class="container">
  <div class="row">
    <h2>Bootstrap Simple Thumbnails </h2>
  </div>

  <div class="row">
    <div class="col-md-4">
      <a href="#" class="thumbnail">
        
      </a>
    </div>
  </div>
</div>
```


Bootstrap Simple Thumbnails (Contd.)

→Creating a simple thumbnail with bootstrap is very easy. Use the class `thumbnail` to show an image with a link



Bootstrap Simple Thumbnails



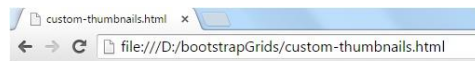
Note the border around thumbnail image

Bootstrap Custom Thumbnails (Contd.)

→ Bootstrap provides more than just a simple thumbnail, you can customize the thumbnails to include image caption having some text and a link

```
<div class="container">
  <div class="row">
    <h2>Bootstrap Custom Thumbnails </h2>
  </div>

  <div class="row">
    <div class="col-md-4">
      <div class="thumbnail">
        
        <div class="caption">
          <h2>Java 8</h2>
          <p>Learn what's new in Java 8</p>
          <p><a href="http://www.edureka.co/java-8" class="btn btn-success">Know More</a></p>
        </div>
      </div>
    </div>
  </div>
</div>
```



Bootstrap Custom Thumbnails



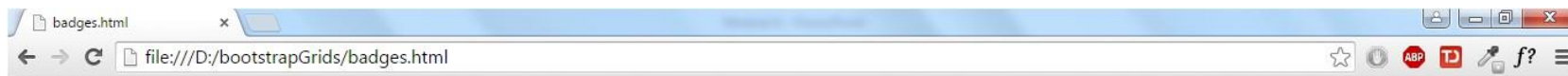
→ Note that our custom thumbnail contains an image with a caption having a heading, some text and a link

Bootstrap Badges

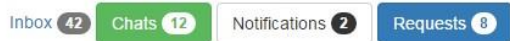
Bootstrap Badges

→Bootstrap provides a great way to highlight new or unread items (e.g. messages, friend requests etc.) by adding a `` to links, buttons etc.

→Below snapshot shows four badges for Inbox, Chats, Notifications and Requests



Bootstrap Badges



→See the live demo here <https://s3-ap-southeast-1.amazonaws.com/s3freebucket/bootstrapGrids/badges.html>

Bootstrap Badges (Contd.)

→Note the use of class badge with links and buttons

```
<div class="container">
  <div class="row">
    <h2>Bootstrap Badges </h2><hr/>
  </div>

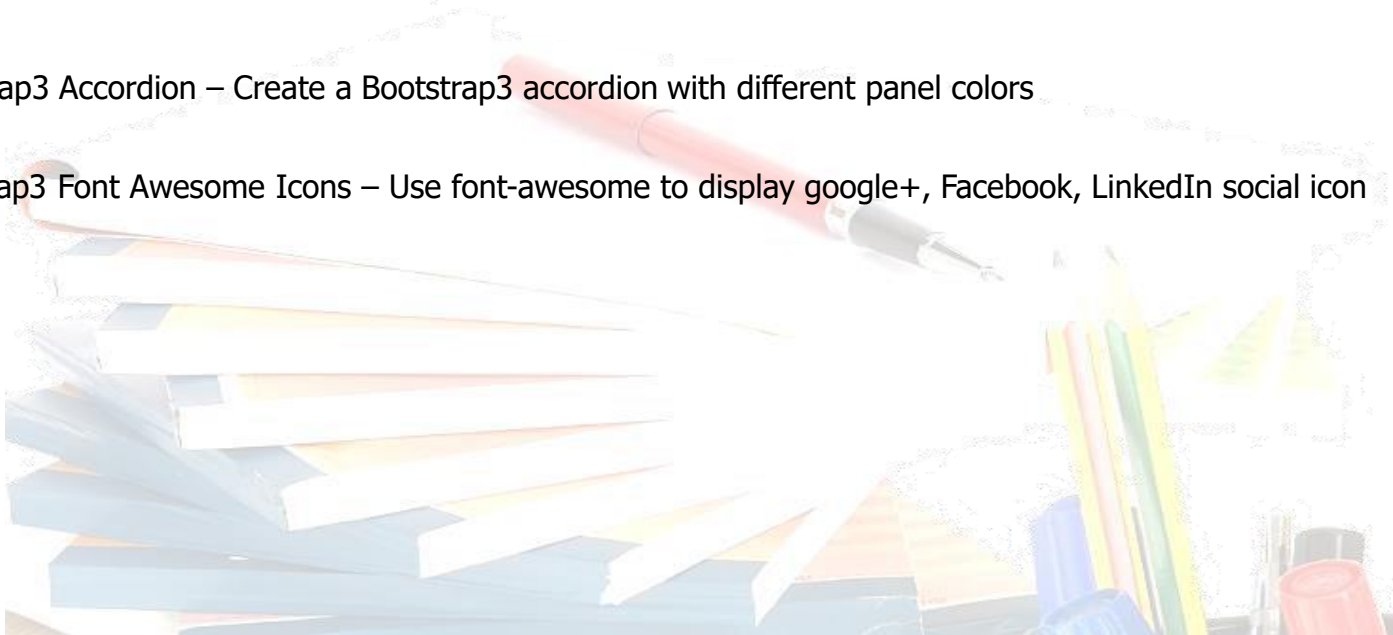
  <div class="row">
    <a href="#">Inbox <span class="badge">42</span></a>
    <button class="btn btn-success" type="button">Chats <span class="badge">12</span></button>
    <button class="btn btn-default" type="button">Notifications <span class="badge">2</span></button>
    <button class="btn btn-primary" type="button">Requests <span class="badge">8</span></button>
  </div>
</div>
```

QUESTIONS



Assignment

- Bootstrap3 Top Fixed Dropdown Navigation Bar – Create a Bootstrap3 top fixed dropdown navigation bar having Products, Blog, About, Contact Us menu. With Products menu having Middleware, Database, Application, Servers as submenu also provide the brand icon on navigation bar
- Bootstrap3 Accordion – Create a Bootstrap3 accordion with different panel colors
- Bootstrap3 Font Awesome Icons – Use font-awesome to display google+, Facebook, LinkedIn social icon



Further Reading

- <http://getbootstrap.com/components/>
- <https://bootstrapbay.com/blog/bootstrap-3-carousel-tutorial/>
- <http://www.codemag.com/article/1501031>
- <http://fontawesome.bootstrapcheatsheets.com/>



Pre-work for Next Class

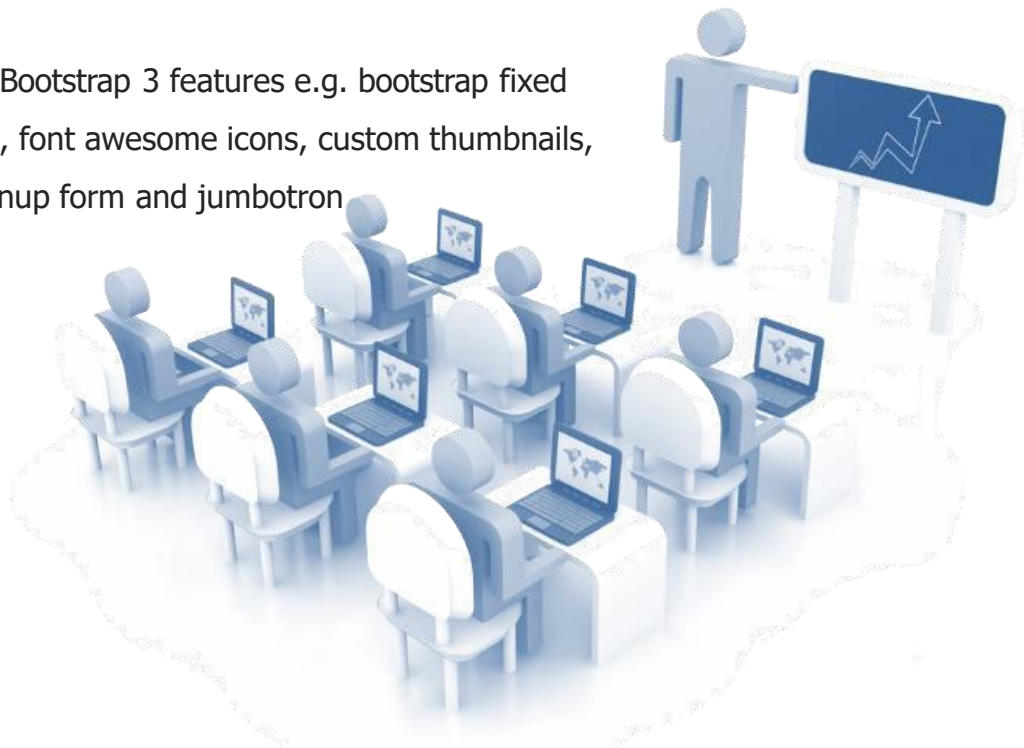
→ Practice all different Bootstrap components taught in the class



Agenda for the Next Class

By the end of next module, you will be able to:

→ Building a real world website using Twitter Bootstrap 3 features e.g. bootstrap fixed dropdown menu, carousel, bootstrap modal, font awesome icons, custom thumbnails, text and image grids, accordions, signin/signup form and jumbotron



Survey

Your feedback is important to us, be it a compliment, a suggestion or a complaint. It helps us to make the course better!

Please spare few minutes to take the survey after the webinar.

Thank you!

