



Bootstrap

- Bootstrap is the popular HTML, CSS and JavaScript framework for developing a responsive and mobile friendly website
- It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others.

What is a responsive website

- A website is called responsive website which can automatically adjust itself to look good on all devices, from smart phones to desktops etc.

Why use Bootstrap

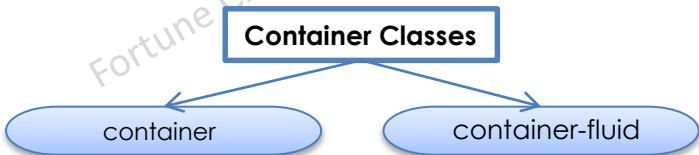
- It is very easy to use. Anybody having basic knowledge of HTML and CSS can use Bootstrap.
- It facilitates users to develop a responsive website.
- It is compatible on most of browsers like Chrome, Firefox, Internet Explorer, Safari and Opera etc.

Example

```
<html>
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>
  <div class="container-fluid">
    <h1>Hello World!</h1>
  </div>
</body>
</html>
```

Bootstrap Container

- container is used to set the content's margins dealing with the responsive behaviors of your layout.
- It contains the row elements and the row elements are the container of columns (known as grid system).
- The **container class** is used to create boxed content.



Container-fluid

```
<div class="container-fluid">  
  <h1>Container-fluid</h1>  
  <p>container-fluid content</p>  
</div>
```

Container

```
<div class="container">  
  <h1>Container</h1>  
  <p>container content</p>  
</div>
```

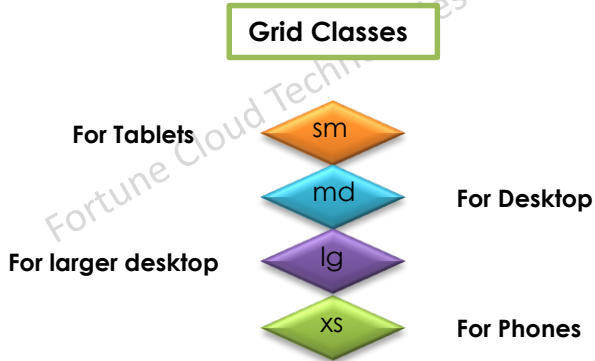
Grid System

- The Bootstrap Grid System allows up to 12 columns across the page.
- You can use all 12 columns individually or you can group the columns together

.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					

Grid System

- Bootstrap Grid System is responsive and the columns are re-arranged automatically according to the screen size.



Grid System

```
<div class="row">  
  <div class="col-sm-3">Division A</div>  
  <div class="col-sm-3">Division B</div>  
  <div class="col-sm-3">Division C</div>  
  <div class="col-sm-3">Division D</div>  
</div>
```

```
<div class="row">  
  <div class="col-sm-6">Division A</div>  
  <div class="col-sm-6">Division B</div>  
</div>
```

Button

```
<button type="button" class="btn btn-primary">Primary</button>
```

Primary

Secondary

Success

Danger

Warning

Info

Light

Dark

[Link](#)

Table

The **.table class** is used to add basic styling to a table.

```
<table class="table">  
  <tr>  
    <th>Id</th>  
    <th>Name</th>  
  </tr>  
  <tr>  
    <td>101</td>  
    <td>Abc</td>  
  </tr>  
  <tr>  
    <td>102</td>  
    <td>Xyz</td>  
  </tr>  
</table>
```

table table-striped

table table-bordered

table table-hover

Bootstrap Form Rules

- Always use `<form role="form">` (helps improve accessibility for people using screen readers)
- Wrap labels and form controls in `<div class="form-group">` (needed for optimum spacing)
- Add class `.form-control` to all textual `<input>`, `<textarea>`, and `<select>` elements

```
<div class="form-group">
  <label for="inputEmail1">Email address</label>
  <input type="email" class="form-control" id="inputEmail1" placeholder="Email">
</div>

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

<button type="submit" class="btn btn-default">Login</button>
```

Alert

- Bootstrap Alerts are used to provide an easy way to create predefined alert messages. Alert adds a style to your messages to make it more appealing to the users.
- There are four classes that are used within `<div>` element for alerts.

`.alert-success`

`.alert-info`

`.alert-warning`

`.alert-danger`

```
<div class="alert alert-success">  
  <strong>Success!</strong> Registration Successfully Completed  
</div>
```

Closing Alert

- If you want to close the alert message, you have to add an `.alert-dismissible` class to the alert container.

```
<div class="alert alert-success alert-dismissible ">  
  <button type="button" class="close" data-dismiss="alert">×</button>  
  <strong>Success!</strong> Registration Successfully Completed  
</div>
```

Panel

- A panel is a bordered box with some padding around its element.
- The panel components are used when you want to put your DOM component in a box.
- The **class .panel** is used within the <div> element to create Bootstrap panels. The content inside the panel has a **.panel-body class**.

Panel contains three parts

panel header

panel content

panel footer

Panel

```
<div class="panel panel-primary">  
  <div class="panel-heading">  
    <h3 class="panel-title">Panel title</h3>  
  </div>  
  
  <div class="panel-body">  
    Panel content  
  </div>  
  
  <div class="panel-footer">  
    Panel footer  
  </div>  
</div>
```

```
<div class="panel-group">
  <div class="panel panel-default">
    <div class="panel-heading">
      <h4 class="panel-title">
        <a data-toggle="collapse" href="#collapse1">Collapsible panel</a>
      </h4>
    </div>
    <div id="collapse1" class="panel-collapse collapse">
      <div class="panel-body">Panel Body</div>
      <div class="panel-footer">Panel Footer</div>
    </div>
  </div>
</div>
```

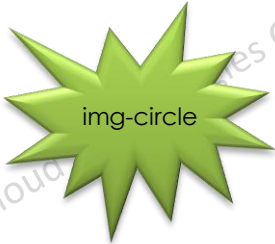
Image

Classes



img-rounded

- It adds border-radius
- image rounded corners



img-circle

- It makes the entire image round by adding border-radius



img-thumbnail

- It adds a bit of padding and a gray border.

Image

```

```

```

```

```

```

Glyphicons

- Glyphicons are the icon fonts that are used in web projects.

Syntax

```
<span class="glyphicon glyphicon-name"></span>
```

Note: To create the desired Glyphicon, the "name" part of the syntax must be replaced accordingly.

Examples

```
<span class="glyphicon glyphicon-envelope"></span>
```

```
<span class="glyphicon glyphicon-earphone"></span>
```

```
<span class="glyphicon glyphicon-log-in"></span>
```

```
<span class="glyphicon glyphicon-log-out"></span>
```

```
<span class="glyphicon glyphicon-save"></span>
```

Carousel slider

- The Bootstrap carousel is a flexible, responsive way that is used to add a slider to your webpage.
- It is very responsive and flexible enough to allow, images, iframes, videos, or any other type of content that you want to add.

```
<div id="myCarousel" class="carousel slide" data-ride="carousel">
  <div class="carousel-inner" role="listbox">
    <div class="item active">
      
    </div>
    <div class="item">
      
    </div>
  </div>

  <a class="left carousel-control" href="#myCarousel" role="button" data-slide="prev">
    <span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="right carousel-control" href="#myCarousel" role="button" data-slide="next">
    <span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>
```


Progress Bar

- The progress bar shows how far a user is in a process.

Colored Progress Bar

progress-bar-success

progress-bar-info

progress-bar-danger

progress-bar-warning

```
<div class="progress">  
  <div class="progress-bar progress-bar-success" role="progressbar" aria-valuenow="50"  
    aria-valuemin="0" aria-valuemax="100" style="width:50%">  
    50% Complete (success)  
  </div>  
</div>
```

Animated Progress Bar

- Use class **.active** to create animated progress bar.

```
<div class="progress">  
  <div class="progress-bar progress-bar-striped active" role="progressbar"  
    aria-valuenow="70" aria-valuemin="0" aria-valuemax="100" style="width:70%">  
    70%  
  </div>  
</div>
```

```
<nav class="navbar navbar-inverse">
  <div class="container-fluid">
    <div class="navbar-header">
      <button type="button" class="navbar-toggle" data-
toggle="collapse" data-target="#myNavbar">
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
```

```
<div class="collapse navbar-collapse" id="myNavbar">
  <ul class="nav navbar-nav">
    <li class="active"><a href="#">Home</a></li>
    <li class="dropdown">
      <a class="dropdown-toggle" data-toggle="dropdown" href="#">Categories
    <span class="caret"></span></a>
      <ul class="dropdown-menu">
        <li><a href="#">Page 1-1</a></li>
        <li><a href="#">Page 1-2</a></li>
      </ul>
    </li>
  </ul>
</div>
</div>
</nav>
```

Modal

- The bootstrap modal plugin is a dialog box / popup window that is displayed on top of the current page.

```
<button type="button" class="btn btn-info btn-lg" data-toggle="modal" data-target="#myModal">Open Modal</button>
```

```
<div class="modal fade" id="myModal" role="dialog">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <button type="button" class="close" data-dismiss="modal">×</button>
        <h4 class="modal-title">Modal Header</h4>
      </div>
      <div class="modal-body">
        <p>Write your text in the modal.</p>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
      </div>
    </div>
  </div>
</div>
```