**Bootstrap**

* Most widely used HTML, CSS, and JS framework for developing responsive, mobile friendly website
* Includes lots of plugins for form, buttons, tables, validation, navigation etc
* Allows you to easily create responsive web designs
* Responsive design adjust automatically according to the device in which it is rendered
* Compatible with almost all modern browsers
* Download bootstrap framework from <http://getbootstrap.com/>
* OR
* Using Bootstrap CDN
* <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css" integrity="sha384-1q8mTJOASx8j1Au+a5WDVnPi2lkFfwwEAa8hDDdjZlpLegxhjVME1fgjWPGmkzs7" crossorigin="anonymous">  
    
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap-theme.min.css" integrity="sha384-fLW2N01lMqjakBkx3l/M9EahuwpSfeNvV63J5ezn3uZzapT0u7EYsXMjQV+0En5r" crossorigin="anonymous">  
    
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js" integrity="sha384-0mSbJDEHialfmuBBQP6A4Qrprq5OVfW37PRR3j5ELqxss1yVqOtnepnHVP9aJ7xS" crossorigin="anonymous"></script>

**First bootstrap page**

* Requires html5 doctype <!DOCTYPE html>
* Meta tag to be set to make mobile friendly
  + <meta name="viewport" content="width=device-width, initial-scale=1">
  + **width=device-width** : make the width of the page to follow screen width
  + **initial-scale=1 :** initial zoom level
* Require a container element to wrap all the contents
  + .container : provides a fixed with container
  + .container-fluid : provides a full width container
* <!DOCTYPE html>  
  <html>  
   <head>  
   <title>Bootstrap</title>  
   <meta name="viewport" content="width=device-width, initial-scale=1">  
   <link rel="stylesheet" href="bootstrap/css/bootstrap.min.css" />  
   <link rel="stylesheet" href="bootstrap/css/bootstrap-theme.css" />  
   </head>  
   <body>  
   <div class="container">  
   <h1>Bootstrap website</h1>  
   <p>This is my first webpage designed using bootstrap framework</p>  
   </div>  
   <script src="bootstrap/js/jquery.js"></script>  
   <script src="bootstrap/js/bootstrap.min.js"></script>  
   </body>  
  </html>

**Bootstrap Grids**

* Can divide a row into maximum upto 12 columns across the page
* You can also group them if you don't want to use all the 12 columns
* There are certain css class for dividing these columns across devices
  + xs : Extra small devices Phones (<768px)
  + sm : Small devices Tablets (≥768px)
  + md : Medium devices Desktops (≥992px)
  + lg : Large devices Desktops (≥1200px)
* Basic structure of a bootstrap grid
  + <div class="row">  
     <div class="col-classname-no of columns to span"></div>  
    </div>
  + <div class=”row”>  
     <div class=”col-md-6”></div>  
    </div>
* Mobile and desktop
  + <div class=”.col-xs-12 .col-md-8”></div>
* Mobile, tablet, desktop
  + <div class=”col-xs-12 .col-sm-6 .col-md-8”></div>
* Column wrapping : If more than 12 columns are placed in a single row each group of extra columns will move onto a new line.  
  + <div class=”col-md-9”></div>  
    <div class=”col-md-4”></div>
* Offsetting columns : Move columns to the right using .col-md-offset-\* classes
  + <div class="col-md-4"><div>  
    <div class="col-md-4 col-md-offset-4"></div>
* **Nested columns :** you can have nested columns, for that add a new **row**  and then have set of col-\*-\* columns inside.  
  + <div class=”row’>  
     <div class=”col-md-8”>  
     <div class=”row”>  
     <div class=”col-md-6”></div>  
     <div class=”col-md-6”></div>  
     </div>  
     </div>  
     <div class=”col-md-4”></div>  
    </div>
* **Changing orders**
  + Using .col-md-push-\* and .col-md-pull-\*
  + <div class="row">  
     <div class="col-md-9 col-md-push-3 divCls">Content panel</div>  
     <div class="col-md-3 col-md-pull-9 divCls">Right panel</div>  
     </div>

**Typography**

* **Heading tags**
  + <h1>h1 tag - 36px </h1>  
    <h2>h2 tag - 30px </h2>  
    <h3>h3 tag - 24px </h3>  
    <h4>h4 tag - 18px </h4>  
    <h5>h5 tag - 14px </h5>  
    <h6>h6 tag - 12px </h6>
  + If you want to add a secondary text you could use <small></small> tag inside all the heading tags
* **Body :** By default the font-size is 14px with a line-height of 1.428 to be exact.
* **Lead :** Makes the content of an element stand out from the rest.
* **Inline text elements :**
  + Marked text : <mark>
  + Deleted text : <del>
  + Strike text : <s>
  + Underlined text : <u>
  + Small text <small>
  + Bold text : <strong>
  + Italics : <em>
* **Alignment classes :**
  + Text align left : text-left
  + Text align right : text-right
  + Text align center : text-center
  + Text align justify : text-justify
  + Text align with no wrap : text-nowrap
* **Transformation classes :**
  + Lowercase : text-lowercase
  + Uppercase : text-uppercase
  + Capitalize : text-capitalize

**Tables**

* For applying basic bootstrap style for a table use **.table** class
* Tables with Striped rows use **.table-striped** along with table class.
* Bordered tables use **.table-bordered** class
* Apply style on mouse over use **.table-hover**
* Condensed table, reduces table padding by half and have a compact feel use **table-condensed** class
* **Contextual classes :** use to color individual table rows / cells
  + .active
  + .success
  + .info
  + .warning
  + .danger
* **Responsive :** use **.table-responsive** class which adds a horizontal scrollbar while viewing a devices which are less than 768px
  + <div class="table-responsive">  
     <table class="table">  
     </table>  
    </div>

**Images**

* img-rounded : for rounded corners
* img-circle : for circular shape
* img-thumbnail : for thumbnail shape
* img-responsive : to fit image in all resolutions

**Wells**

* Applies a rounded corner to the element with a light grey background
* <div class=”well”>This is to demonstrate class well</div>
* Above example create a well of normal size
* **well well-sm** for small size
* well well-lg for larger size

**Alerts**

* Provides you with predefined alert messages
* .alert-success
* .alert-info
* .alert-warning
* .alert-danger

**Buttons**

* .btn-default
* .btn-primary
* .btn-success
* .btn-info
* .btn-warning
* .btn-danger
* .btn-link
* Different sizes for buttons :
  + .btn-lg
  + .btn-md
  + .btn-sm
  + .btn-xs
* Active / Disabled
  + btn active
  + btn disabled

**Helper classes**

* **Contextual colors :** Convey meaning through colors.
  + text-muted
  + text-primary
  + text-success
  + text-info
  + text-warning
  + text-danger
* **Contextual backgrounds** : Conveys meaning through background colors
  + bg-primary
  + bg-success
  + bg-info
  + bg-warning
  + bg-danger
* **Floats :** Floats an element to left / right
  + pull-left
  + pull-right
* **Show / hide contents**
  + .show
  + .hide

**Responsive Utilities**

* .visible-xs : devices(<768px)
* .visible-sm : devices(≥768px)
* .visible-md : devices(≥992px)
* .visible-lg : devices(≥1200px)
* .hidden-xs : devices(<768px)
* .hidden-sm : devices(≥768px)
* .hidden-md : devices(≥992px)
* .hidden-lg : devices(≥1200px)

**Bootstrap Glyphicons**

* Bootstrap provides a set of icons which can be used with text, buttons, forms etc
* To get the complete list of icons it supports visit http://getbootstrap.com/components/
* Syntax for using Glyphicons
  + <span class="glyphicon glyphicon-name"></span>
  + <span class=”glyphicon glyphicon-envelope”></span>

**Dropdowns**

<div class="dropdown">  
 <button class="btn btn-primary" type="button" data-toggle="dropdown">  
 Dropdown <span class="glyphicon glyphicon-menu-down"></span>  
 </button>  
 <ul class="dropdown-menu dropdown-menu-right">  
 <li><a href="#">Menu 1</a></li>  
 <li class=”dropdown-header”><a href="#">Menu 1</a></li>  
 <li class="divider"><a href="#">Menu 1</a></li>  
 <li><a href="#">Menu 1</a></li>  
 <li class=”disabled”><a href="#">Menu 1</a></li>  
 </ul>  
 </div>

**Button groups**

<div class="btn-group">  
 <button class="btn btn-primary">Button</button>  
 <button class="btn btn-danger">Button</button>  
 <button class="btn btn-success">Button</button>  
 <button class="btn btn-info">Button</button>  
 </div>

You can combine multiple btn-groups using btn-toolbar

Button groups can have size large lg, small sm, extra small xs

Button group by default is horizontal, to make it vertical using **btn-group-vertical**

**List Groups**

<ul class="list-group">  
 <li class="list-group-item active">Messages <span class="badge">10</span></li>  
 <li class="list-group-item">Request</li>  
 </ul>

**Panels**

* Panel in bootstrap is a boxed container with some padding around the content
* You can specify heading for each panel
  + <div class="panel panel-default">  
     <div class="panel-heading">Panel with panel-default class</div>  
     <div class="panel-body">Panel Content</div>  
     </div>
* Different variants of panels
  + panel-primary
  + panel-success
  + panel-info
  + panel-warning
  + Panel-danger
* You can also have panel groups by having a container element with class .**panel-group**

**Modals**

* **Modal using attributes**
  + <button class="btn btn-primary" data-toggle="modal" data-target="#open\_modal">Open modal</button>  
     <div class="modal" id="open\_modal">  
     <div class="modal-dialog">  
     <div class="modal-content">  
     <div class="modal-header">  
     <span class="close" data-dismiss="modal">x</span>  
     <h4 class="modal-title">My modal</h4>  
     </div>  
     <div class="modal-body">Modal content comes here..Modal content comes here..Modal content comes here..Modal content comes here..Modal content comes here..</div>  
     <div class="modal-footer">  
     <button class="btn btn-primary">Save</button>  
     <button class="btn" data-dismiss="modal">Cancel</button>  
     </div>  
     </div>  
     </div>  
     </div>
* **Modal using javascript**
  + jQuery('#show\_modal\_via\_js').click(function(){  
     jQuery('#custom\_modal\_cntr').modal();  
     });

**Forms and input groups**

* Individual form elements has some default styling
* Bootstrap provides **.form-control** class which has width set **100%**
* **.form-group** class to group individual form elements.
* .input-groups extend form controls by adding text or buttons before, after, or on both sides
* Form layout class .form-inline, form, form-horizontal
* <form>  
   <div class="form-group">  
   <label>Username</label>  
   <input type="text" class="form-control" />  
   </div>  
   <div class="form-group">  
   <label>Password</label>  
   <input type="text" class="form-control" />  
   </div>  
   <div class="form-group">  
   <div class="input-group">  
   <div class="input-group-addon">$</div>  
   <input type="text" class="form-control" placeholder="Fees" />  
   </div>  
   </div>  
   <button class="btn btn-default">Submit</button>  
   </form>

**Navbar**

<nav class="navbar navbar-default">  
 <div class="container-fluid">  
 <div class="navbar-header">  
 <button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#navbar\_example">  
 <span class="icon-bar"></span>  
 <span class="icon-bar"></span>  
 <span class="icon-bar"></span>  
 </button>  
 <a class="navbar-brand">Marlabs</a>  
 </div>  
 <div class="collapse navbar-collapse" id="navbar\_example">  
 <ul class="nav navbar-nav">  
 <li class="active">  
 <a href="#">Link 1</a>  
 </li>  
 <li>  
 <a href="#">Link 2</a>  
 </li>  
 <li>  
 <a href="#">Link 3</a>  
 </li>  
 <li class="dropdown">  
 <a href="#" class="dropdown-toggle" data-toggle="dropdown">Dropdown menu <span class="caret"></span></a>  
 <ul class="dropdown-menu">  
 <li>  
 <a href="#">Menu item 1</a>  
 </li>  
 <li class="divider"></li>  
 <li>  
 <a href="#">Menu item 2</a>  
 </li>  
 <li class="divider"></li>  
 <li>  
 <a href="#">Menu item 3</a>  
 </li>  
 </ul>  
 </li>  
 </ul>  
 <form class="navbar-form navbar-right">  
 <div class="form-group">  
 <input type="text" class="form-control" placeholder="Search.." />  
 </div>  
 <button class="btn btn-default">Search</button>  
 </form>  
 </div>  
 </div>  
 </nav>

**Tabs**

<ul class="nav nav-tabs">  
 <li class="active">  
 <a href="#tab1" data-toggle="tab">Tab 1</a>  
 </li>  
 <li>  
 <a href="#tab2" data-toggle="tab">Tab 2</a>  
 </li>  
 <li>  
 <a href="#tab3" data-toggle="tab">Tab 3</a>  
 </li>  
 </ul>  
 <div class="tab-content">  
 <div class="tab-pane active" id="tab1">Tab 1 content comes here...</div>  
 <div class="tab-pane" id="tab2">Tab 2 content comes here...</div>  
 <div class="tab-pane" id="tab3">Tab 3 content comes here...</div>  
 </div>

**Collapsible**

<button data-toggle="collapse" href="#" data-target="#collapse\_cntr" class="btn btn-primary">Collapse</button>

<div class="collapse" id="collapse\_cntr">Data coming from collapsible container</div>