# **Bootstrap Tutorial**

Twitter Bootstrap is the most popular front end framework in the recent time. It is sleek, intuitive, and powerful mobile first front-end framework for faster and easier web development. It uses HTML, CSS and Javascript. This tutorial will teach you the basics of Bootstrap Framework using which you can create web projects with ease. The tutorial is divided into sections such as Bootstrap Basic Structure, Bootstrap CSS, Bootstrap Layout Components and Bootstrap Plugins. Each of these sections contain related topics with simple and useful examples.

### **Audience**

This tutorial has been prepared for anyone who has a basic knowledge of HTML and CSS and has an urge to develop websites. After completing this tutorial you will find yourself at a moderate level of expertise in developing web projects using Twitter Bootstrap.

# **Prerequisites**

Before you start proceeding with this tutorial, we are assuming that you are already aware about the basics of HTML and CSS. If you are not well aware of these concepts then we will suggest you to go through our short tutorial on HTML Tutorial and CSS Tutorial.

# **Execute Bootstrap Online**

You do not need to have your own environment to start learning Bootstrap programming! We have set up an on-line compiler for you that can be used to compile and execute the programs on-line.

For most of the examples available in this tutorial, you will find a Try it option at the top right corner of the code box. Use it to verify the programs and check the outcome with different options. Feel free to modify any example and execute it online.

```
<meta name = "viewport" content = "width = device-width, initial-scale = 1">
      <title>Bootstrap 101 Template</title>
      <!-- Bootstrap -->
      <link href =</pre>
"//maxcdn.bootstrapcdn.com/bootstrap/3.3.1/css/bootstrap.min.css" rel =
"stylesheet">
      <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media
queries -->
      <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
            <!--[if lt IE 9]>
      <script src =
"https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
      <script src =</pre>
"https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
      <![endif]-->
   </head>
      <body>
      <h1>Hello, world!</h1>
      <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
      <script src =</pre>
"https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
            <!-- Include all compiled plugins (below), or include individual files
as needed -->
      <script src =</pre>
"//maxcdn.bootstrapcdn.com/bootstrap/3.3.1/js/bootstrap.min.js"></script>
         </body>
</html>
```

#### What is Twitter Bootstrap?

Bootstrap is a sleek, intuitive, and powerful, mobile first front-end framework for faster and easier web development. It uses HTML, CSS and Javascript.

# **History**

Bootstrap was developed by *Mark Otto* and *Jacob Thornton* at *Twitter*. It was released as an open source product in August 2011 on GitHub.

#### Why Use Bootstrap?

- **Mobile first approach** Bootstrap 3, framework consists of Mobile first styles throughout the entire library instead them of in separate files.
- **Browser Support** It is supported by all popular browsers.



- **Easy to get started** With just the knowledge of HTML and CSS anyone can get started with Bootstrap. Also the Bootstrap official site has a good documentation.
- Responsive design Bootstrap's responsive CSS adjusts to Desktops, Tablets and Mobiles. More about the responsive design is in the chapter <u>Bootstrap Responsive Design</u>.



- Provides a clean and uniform solution for building an interface for developers.
- It contains beautiful and functional built-in components which are easy to customize.
- It also provides web based customization.
- And best of all it is an open source.

# What Bootstrap Package Includes?

 Scaffolding – Bootstrap provides a basic structure with Grid System, link styles, and background. This is is covered in detail in the section Bootstrap Basic Structure

- **CSS** Bootstrap comes with the feature of global CSS settings, fundamental HTML elements styled and enhanced with extensible classes, and an advanced grid system. This is covered in detail in the section **Bootstrap with CSS**.
- **Components** Bootstrap contains over a dozen reusable components built to provide iconography, dropdowns, navigation, alerts, pop-overs, and much more. This is covered in detail in the section **Layout Components**.
- **JavaScript Plugins** Bootstrap contains over a dozen custom jQuery plugins. You can easily include them all, or one by one. This is covered in details in the section **Bootstrap Plugins**.
- **Customize** You can customize Bootstrap's components, LESS variables, and jQuery plugins to get your very own version.

#### **Try it Option Online**

You really do not need to set up your own environment to start learning Bootstrap. Reason is very simple, we already have set up Bootstrap environment online, so that you can execute all the available examples online at the same time when you are doing your theory work. This gives you confidence in what you are reading and to check the result with different options. Feel free to modify any example and execute it online.

Try the following example using **Try it** option available at the top right corner of the below sample code box –

```
<!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
      <!--[if lt IE 9]>
      <script src =</pre>
"https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
      <script src =</pre>
"https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
      <![endif]-->
   </head>
   <body>
      <h1>Hello, world!</h1>
         <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
      <script src =
"https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
      <!-- Include all compiled plugins (below), or include individual files as
needed -->
      <script src =</pre>
"//maxcdn.bootstrapcdn.com/bootstrap/3.3.1/js/bootstrap.min.js"></script>
   </body>
</html>
```

For most of the examples given in this tutorial, you will find **Try it**option, so just make use of it and enjoy your learning.

It is very easy to setup and start using Bootstrap. This chapter will explain how to download and setup Bootstrap. We will also discuss the Bootstrap file structure, and demonstrate its usage with an example.

# **Download Bootstrap**

You can download the latest version of Bootstrap from <a href="http://getbootstrap.com/">http://getbootstrap.com/</a>. When you click on this link, you will get to see a screen as below —



Here you can see two buttons -

- Download Bootstrap Clicking this, you can download the precompiled and minified versions of Bootstrap CSS, JavaScript, and fonts. No documentation or original source code files are included.
- Download Source Clicking this, you can get the latest Bootstrap LESS and JavaScript source code directly from GitHub.

If you work with Bootstrap's uncompiled source code, you need to compile the LESS files to produce usable CSS files. For compiling LESS files into CSS, Bootstrap officially supports only <u>Recess</u>, which is Twitter's CSS hinter based on <u>less.js</u>.

For better understanding and ease of use, we shall use precompiled version of Bootstrap throughout the tutorial. As the files are complied and minified you don't have to bother every time including separate files for individual functionality. At the time of writing this tutorial the latest version (Bootstrap 3) was downloaded.

# File structure Precompiled Bootstrap

Once the compiled version Bootstrap is downloaded, extract the ZIP file, and you will see the following file/directory structure —

```
bootstrap/

css/
bootstrap.css
bootstrap.min.css
bootstrap-theme.css
bootstrap-theme.min.css

js/
bootstrap.js
bootstrap.min.js

fonts/
glyphicons-halflings-regular.eot
glyphicons-halflings-regular.svg
glyphicons-halflings-regular.tff
glyphicons-halflings-regular.tff
```

As you can see, there are compiled CSS and JS (bootstrap.\*), as well as compiled and minified CSS and JS (bootstrap.min.\*). Fonts from Glyphicons are included, as it is the optional Bootstrap theme.

#### **Bootstrap Source Code**

If you have downloaded the Bootstrap source code then the file structure would be as follows —

```
less/
js/
fonts/
dist/
css/
js/
fonts/
docs-assets/
examples/
*.html
```

- The files under *less*/, *js*/, and *fonts*/ are the source code for Bootstrap CSS, JS, and icon fonts (respectively).
- The dist/ folder includes everything listed in the precompiled download section above.
- docs-assets/, examples/, and all \*.html files are Bootstrap documentation.

#### **HTML Template**

A basic HTML template using Bootstrap would look like this -

```
<!-- Bootstrap -->
      <link href = "css/bootstrap.min.css" rel = "stylesheet">
      <!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media
queries -->
      <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
      <!--[if lt IE 9]>
      <script src =</pre>
"https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>
"https://oss.maxcdn.com/libs/respond.js/1.3.0/respond.min.js"></script>
      <![endif]-->
   </head>
   <body>
      <h1>Hello, world!</h1>
      <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
      <script src = "https://code.jquery.com/jquery.js"></script>
      <!-- Include all compiled plugins (below), or include individual files as
needed -->
      <script src = "js/bootstrap.min.js"></script>
   </body>
</html>
```

Here you can see the **jquery.js**, **bootstrap.min.js** and **bootstrap.min.css** files that are included to make a normal HTM file to the Bootstrapped Template. Just make sure to include jQuery library before you include Bootstrap library.

More details about each of the elements in this above piece of code will be discussed in the chapter Bootstrap CSS Overview.

This template structure is already included as part of the **Try it** (online compiler) tool. Hence in all the examples (in the following chapters) of this tutorial you will only see the contents of the <body> element. Once you click on the **Try it** option available at the top right corner of example, and you will see the entire code.

#### **Example**

Now let's try an example using the above template. Try the following example using Try it option available at the top right corner of the below sample code box on our website —

<h1>Hello, world!</h1>

# Bootstrap - Grid System

Advertisements

Previous Page
Next Page

In this chapter we shall discuss the Bootstrap Grid System.

#### What is a Grid?

As put by wikepedia -

In graphic design, a grid is a structure (usually two-dimensional) made up of a series of intersecting straight (vertical, horizontal) lines used to structure the content. It is widely used to design layout and content structure in print design. In web design, it is a very effective method to create a consistent layout rapidly and effectively using HTML and CSS.

To put in simple words, grids in web design organise and structure content, makes the websites easy to scan and reduces the cognitive load on users.

#### What is Bootstrap Grid System?

As put by the official documentation of Bootstrap for grid system -

Bootstrap includes a responsive, mobile first fluid grid system that appropriately scales up to 12 columns as the device or viewport size increases. It includes predefined classes for easy layout options, as well as powerful mixins for generating more semantic layouts.

Let us understand the above statement. Bootstrap 3 is mobile first in the sense that the code for Bootstrap now starts by targeting smaller screens like mobile devices, tablets, and then "expands" components and grids for larger screens such as laptops, desktops.

#### **Mobile First Strategy**

Content

o Determine what is most important.

#### Layout

- Design to smaller widths first.
- Base CSS address mobile device first; media queries address for tablet, desktops.

#### • Progressive Enhancement

Add elements as screen size increases.

# **Working of Bootstrap Grid System**

Grid systems are used for creating page layouts through a series of rows and columns that house your content. Here's how the Bootstrap grid system works –

- Rows must be placed within a .container class for proper alignment and padding.
- Use rows to create horizontal groups of columns.
- Content should be placed within the columns, and only columns may be the immediate children of rows.
- 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.
- Columns create gutters (gaps between column content) via padding. That
  padding is offset in rows for the first and the last column via negative margin
  on .rows.
- 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.

# **Media Queries**

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.

Media Queries in Bootstrap allow you to move, show and hide content based on the viewport size. Following media queries are used in LESS files to create the key breakpoints in the Bootstrap grid system.

```
/* 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) { ... }
```

Occasionally these are expanded to include a **max-width** to limit CSS to a narrower set of devices.

```
@media (max-width: @screen-xs-max) { ... }
@media (min-width: @screen-sm-min) and (max-width: @screen-sm-max) { ... }
@media (min-width: @screen-md-min) and (max-width: @screen-md-max) { ... }
@media (min-width: @screen-lg-min) { ... }
```

Media queries have two parts, a device specification and then a size rule. In the above case, the following rule is set —

Let us consider this line -

```
@media (min-width: @screen-sm-min) and (max-width: @screen-sm-max) { ... }
```

For all devices no matter what kind with *min-width:* @screen-sm-min if the width of the screen gets smaller than @screen-sm-max, then do something.

#### **Grid options**

The following table summarizes aspects of how Bootstrap grid system works across multiple devices —

	Extra small devices Phones (<768px)	Small devices Tablets (≥768px)	Medium devices Desktops (≥992px)	Large devices Desktops (≥1200px)
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints	Collapsed to start, horizontal above breakpoints	Collapsed to start, horizontal above breakpoints
Max container width	None (auto)	750px	970px	1170px

Class prefix	.col-xs-	.col-sm-	.col-md-	.col-lg-
# of columns	12	12	12	12
Max column width	Auto	60px	78px	95px
Gutter width	30px (15px on each side of a column)	30px (15px on each side of a column)	30px (15px on each side of a column)	30px (15px on each side of a column)
Nestable	Yes	Yes	Yes	Yes
Offsets	Yes	Yes	Yes	Yes
Column ordering	Yes	Yes	Yes	Yes

#### **Basic Grid Structure**

Following is basic structure of Bootstrap grid –

Let us see some simple grid examples -

- <u>Example Stacked-to-horizontal</u>
- Example Medium and Large Device
- Example Mobile, tablet, desktops

# **Responsive column resets**

With the four tiers of grids available, you are bound to run into issues where at certain breakpoints, the columns don't clear quite right as one is taller than the other. To fix that, use a combination of a class **.clearfix** and the <u>responsive utility classes</u> as shown in the following example —

```
<div class = "container">
  <div class = "row" >
     <div class = "col-xs-6 col-sm-3" style = "background-color: #dedef8;</pre>
        box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
        Lorem ipsum dolor sit amet, consectetur adipisicing elit.
     </div>
     <div class = "col-xs-6 col-sm-3" style = "background-color: #dedef8;</pre>
        box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
        Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
           eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut
           enim ad minim veniam, quis nostrud exercitation ullamco laboris
           nisi ut aliquip ex ea commodo consequat.
         Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
           eiusmod tempor incididunt ut.
     </div>
     <div class = "clearfix visible-xs"></div>
     <div class = "col-xs-6 col-sm-3" style = "background-color: #dedef8;</pre>
        box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
        Vt enim ad minim veniam, quis nostrud exercitation ullamco
           laboris nisi ut aliquip ex ea commodo consequat.
     </div>
```

This will produce the following result –

Resize your viewport or check it out on your phone for a desired result of this example.

#### **Offset Columns**

Offsets are a useful feature for more specialized layouts. They can be used to push columns over for more spacing, (for example). The **.col-xs** = \* classes don't support offsets, but they are easily replicated by using an empty cell.

To use offsets on large displays, use the **.offset-md-\* class** classes. These classes increase the left margin of a column by \* columns where \* range from 1 to 11.

In the following example, we have <div class = "col-md-6">..</div>, We will center this using class .col-md-offset-3.

```
<div class = "container">
    <h1>Hello, world!</h1>
    <div class = "row" >
        <div class = "col-xs-6 col-md-offset-3" style = "background-color: #dedef8;
        box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
        Lorem ipsum dolor sit amet, consectetur adipisicing elit.
        </div>
```

```
</div>
```

This will produce the following result -

#### **Nesting columns**

To nest your content with the default grid, add a new **.row** and set of **.col-md-\*** columns within an existing **.col-md-\*** column. Nested rows should include a set of columns that add up to 12.

In the following example, the layout has two columns, with the second one being split into four boxes over two rows.

```
<div class = "container">
   <h1>Hello, world!</h1>
   <div class = "row">
      <div class = "col-md-3" style = "background-color: #dedef8;</pre>
        box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
        <h4>First Column</h4>
         Lorem ipsum dolor sit amet, consectetur adipisicing elit.
      </div>
      <div class = "col-md-9" style = "background-color: #dedef8;</pre>
        box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
         <h4>Second Column- Split into 4 boxes</h4>
         <div class = "row">
            <div class = "col-md-6" style = "background-color: #B18904;</pre>
               box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
               Consectetur art party Tonx culpa semiotics.
                  Pinterest assumenda minim organic quis.
            </div>
            <div class = "col-md-6" style = "background-color: #B18904;</pre>
               box-shadow: inset 1px -1px 1px #444, inset -1px 1px 1px #444;">
               sed do eiusmod tempor incididunt ut labore et dolore magna
```

```
aliqua. Ut enim ad minim veniam, quis nostrud exercitation
                 ullamco laboris nisi ut aliquip ex ea commodo consequat.
            </div>
         </div>
         <div class = "row">
            <div class = "col-md-6" style = "background-color: #B18904;</pre>
               box-shadow: inset 1px -1px 1px #444, inset -1px 1px #px #444;">
               quis nostrud exercitation ullamco laboris nisi ut aliquip
                 ex ea commodo consequat.
            </div>
            <div class = "col-md-6" style = "background-color: #B18904;</pre>
               box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
               Lorem ipsum dolor sit amet, consectetur adipisicing elit,
                 sed do eiusmod tempor incididunt ut labore et dolore magna
                 aliqua. Ut enim ad minim.
            </div>
         </div>
      </div>
   </div>
</div>
```

This will produce the following result -

# **Column Ordering**

Another nice feature of Bootstrap grid system is that you can easily write the columns in an order, and show them in another one. You can easily change the order of built-in grid columns with .col-md-push-\* and .col-md-pull-\*modifier classes where \* range from 1 to 11.

In the following example we have two columns layout with left column being the narrowest and acting as a sidebar. We will swap the order of these columns using **.col-md-push-\*** and **.col-md-pull-\*** classes.

```
<div class = "container">
```

```
<h1>Hello, world!</h1>
   <div class = "row">
     Before Ordering
     <div class = "col-md-4" style = "background-color: #dedef8;</pre>
        box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
        I am on left
      </div>
     <div class = "col-md-8" style = "background-color: #dedef8;</pre>
        box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
        I am on right
      </div>
   </div>
   <br>
   <div class = "row">
     After Ordering
     <div class = "col-md-4 col-md-push-8" style = "background-color: #dedef8;</pre>
        box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
        I was on left
     </div>
     <div class = "col-md-8 col-md-pull-4" style = "background-color: #dedef8;</pre>
        box-shadow: inset 1px -1px 1px #444, inset -1px 1px #444;">
        I was on right
     </div>
   </div>
</div>
```

This will produce the following result –

# Bootstrap - CSS Overview

Advertisements

# Previous Page Next Page

This chapter provides an overview of the key pieces of Bootstrap's infrastructure, including Bootstrap's approach to better, faster, stronger web development.

# **HTML5** doctype

Bootstrap makes use of certain HTML elements and CSS properties that require the use of the HTML5 doctype. Hence include the below piece of code for HTML5 doctype at the beginning of all your projects using Bootstrap.

```
<!DOCTYPE html>
<html>

....
</html>
```

#### **Mobile First**

Since Bootstrap 3 has been launched, Bootstrap has become mobile first. It means 'mobile first' styles can be found throughout the entire library instead of them in separate files. You need to add the **viewport meta** tag to the **<head>** element, to ensure proper rendering and touch zooming on mobile devices.

```
<meta name = "viewport" content = "width = device-width, initial-scale = 1.0">
```

- width property controls the width of the device. Setting it to device-width will
  make sure that it is rendered across various devices (mobiles, desktops,
  tablets...) properly.
- *initial-scale* = 1.0 ensures that when loaded, your web page will be rendered at a 1:1 scale, and no zooming will be applied out of the box.

Add **user-scalable = no** to the **content** attribute to disable zooming capabilities on mobile devices as shown below. Users are only able to scroll and not zoom with this change, and results in your site feeling a bit more like a native application.

```
<meta name = "viewport" content = "width = device-width, initial-scale = 1.0,
maximum-scale = 1.0, user-scalable = no">
```

Normally maximum-scale = 1.0 is used along with user-scalable = no. As mentioned above user-scalable = no may give users an experience more like a native app, hence Bootstrap doesn't recommend using this attribute.

# **Responsive Images**

Bootstrap 3 allows you to make the images responsive by adding a class .img-responsive to the <img> tag. This class applies max-width: 100%; and height: auto; to the image so that it scales nicely to the parent element.

```
<img src = "..." class = "img-responsive" alt = "Responsive image">
```

# **Typography and Links**

Bootstrap sets a basic global display (background), typography, and link styles –

- **Basic Global display** Sets *background-color: #fff;* on the *<body>*element.
- **Typography** Uses the *@font-family-base*, *@font-size-base*, and *@line-height-base* attributes as the typographic base.
- **Link styles** Sets the global link color via attribute *@link-color* and apply link underlines only on *:hover*.

If you intend to use LESS code, you may find all these within scaffolding.less.

#### **Normalize**

Bootstrap uses Normalize to establish cross browser consistency.

Normalize.css is a modern, HTML5-ready alternative to CSS resets. It is a small CSS file that provides better cross-browser consistency in the default styling of HTML elements.

#### **Containers**

Use class **.container** to wrap a page's content and easily center the content's as shown below.

```
<div class = "container">
...
```

Take a look at the **.container** class in *bootstrap.css* file –

```
.container {
   padding-right: 15px;
   padding-left: 15px;
   margin-right: auto;
   margin-left: auto;
}
```

Note that, due to padding and fixed widths, containers are not nestable by default.

Take a look at bootstrap.css file -

```
@media (min-width: 768px) {
    .container {
       width: 750px;
    }
}
```

Here you can see that CSS has media-queries for containers with **width**. This helps for applying responsiveness and within those the container class is modified accordingly to render the grid system properly.

# Bootstrap - Typography

Advertisements

Previous Page
Next Page

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. Let see learn each one of these in the following sections.

# **Headings**

All HTML headings (h1 to h6) are styled in Bootstrap. An example is shown below —

```
<h1>I'm Heading1 h1</h1>
<h2>I'm Heading2 h2</h2>
<h3>I'm Heading3 h3</h3>
<h4>I'm Heading4 h4</h4>
<h5>I'm Heading5 h5</h5>
<h6>I'm Heading6 h6</h6>
```

The above code segment with Bootstrap will produce following result –

#### **Inline Subheadings**

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 as shown in the example below —

```
<h1>I'm Heading1 h1. <small>I'm secondary Heading1 h1</small></h1>
<h2>I'm Heading2 h2. <small>I'm secondary Heading2 h2</small></h2>
<h3>I'm Heading3 h3. <small>I'm secondary Heading3 h3</small></h3>
<h4>I'm Heading4 h4. <small>I'm secondary Heading4 h4</small></h4>
<h5>I'm Heading5 h5. <small>I'm secondary Heading5 h5</small></h5>
<h6>I'm Heading6 h6. <small>I'm secondary Heading1 h6</small></h6>
```

The above code segment with Bootstrap will produce following result –

# **Lead Body Copy**

To add some emphasis to a paragraph, add class = "lead". This will give you a larger font size, lighter weight, and a taller line height as in the following example –

```
<h2>Lead Example</h2>
This is an example paragraph demonstrating
    the use of lead body copy. This is an example paragraph
    demonstrating the use of lead body copy. This is an example
```

```
paragraph demonstrating the use of lead body copy. This is an example paragraph demonstrating the use of lead body copy.

This is an example paragraph demonstrating the use of lead body copy.
```

#### **Emphasis**

HTML's default emphasis tags such as <small> sets text at 85% the size of the parent, <strong> emphasizes a text with heavier font-weight, and <em> emphasizes a text in italics.

Bootstrap offers a few classes that can be used to provide emphasis on texts as seen in the following example —

```
<small>This content is within tag</small><br>
<strong>This content is within tag</strong><br>
<em>This content is within tag and is rendered as italics</em><br>
class = "text-left">Left aligned text.
class = "text-center">Center aligned text.
class = "text-muted">This content is muted
class = "text-primary">This content carries a primary class
class = "text-success">This content carries a success class
class = "text-info">This content carries a warning class
class = "text-warning">This content carries a danger class
class = "text-danger">This content carries a danger class
```

#### **Abbreviations**

The HTML <abbr> element provides markup for abbreviations or acronyms, like WWW or HTTP. Bootstrap styles <abbr> elements with a light dotted border along the bottom and reveals the full text on hover (as long as you add that text to the <abbr> title attribute). To get a a slightly smaller font size add .initialism to <abbr>.

```
<abbr title = "World Wide Web">WWW</abbr><br>
<abbr title = "Real Simple Syndication" class = "initialism">RSS</abbr>
```

#### **Addresses**

Using <address> tag you can display the contact information on your web page. Since the <address> defaults to display: block; you'll need to use

Tags to add line breaks to the enclosed address text.

```
<address>
    <strong>Some Company, Inc.</strong><br>
        007 street<br>
        Some City, State XXXXXX<br>
        <abbr title = "Phone">P:</abbr> (123) 456-7890
</address>
<address>
        <strong>Full Name</strong><br>
        <a href = "mailto:#">mailto@somedomain.com</a>
</address>
</address>
```

# **Blockquotes**

You can use the default <blockquote> around any HTML text. Other options include, adding a <small> tag for identifying the source of the quote and right-aligning the blockquote using class .pull-right. The following example demonstrates all these features —

```
<blockquote>
  This is a default blockquote example. This is a default
      blockquote example. This is a default blockquote
      example.This is a default blockquote example. This is a
      default blockquote example.

</blockquote>

This is a blockquote with a source title.

      <small>Someone famous in <cite title = "Source Title">Source Title</cite></small>

</blockquote>
```

#### **Lists**

Bootstrap supports ordered lists, unordered lists, and definition lists.

- Ordered lists An ordered list is a list that falls in some sort of sequential order and is prefaced by numbers.
- **Unordered lists** An unordered list is a list that doesn't have any particular order and is traditionally styled with bullets. If you do not want the bullets to appear, then you can remove the styling by using the class .list-unstyled. You can also place all list items on a single line using the class .list-inline.
- Definition lists In this type of list, each list item can consist of both the <dt> and the <dd> elements. <dt> stands for definition term, and like a dictionary, this is the term (or phrase) that is being defined. Subsequently, the <dd> is the definition of the <dt>. You can make terms and descriptions in <dl> line up side-by-side using class dl-horizontal.

The following example demonstrates each of these types –

```
<h4>Example of Ordered List</h4>

>li>Item 1
>li>Item 2
>li>Item 3
>li>Item 4

<h4>Example of UnOrdered List</h4>

Item 1
Item 2
Item 3
Item 4
Item 4
Item 4
Item 4
Item 4
Item 4
```

```
<h4>Example of Unstyled List</h4>
Item 1
  Item 2
  Item 3
  Item 4
<h4>Example of Inline List</h4>
Item 1
  Item 2
  Item 3
  Item 4
<h4>Example of Definition List</h4
<d1>
  <dt>Description 1</dt>
  <dd>Item 1</dd>
  <dt>Description 2</dt>
  <dd>Item 2</dd>
</dl>
<h4>Example of Horizontal Definition List</h4>
<dl class = "dl-horizontal">
  <dt>Description 1</dt>
  <dd>Item 1</dd>
  <dt>Description 2</dt>
  <dd>Item 2</dd>
</dl>
```