



Bootstrap



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INTRODUCTION

- ▶ Bootstrap is a free, open-source, and one of the most popular front-end framework.
- ▶ Developed by  twitter for creating responsive web applications.
- ▶ It is a collection of CSS and JavaScript.
- ▶ Bootstrap is the 6th most starred project on Github, with more than  135,000 stars.

HISTORY

- ▶ Developed by Mark Otto and Jacob Thornton at  twitter.
- ▶ It was renamed from Twitter Blueprint to Bootstrap.
- ▶ Released as an open-source product on August 19, 2011 in Github.
- ▶ It consist of 3 major versions, Bootstrap 2, 3 & 4.

HISTORY

- ▶ Bootstrap v2.0

- ▶ Released on January 31, 2012.
- ▶ Built-in support for Glyphicons.
- ▶ Supports responsive web designing.

- ▶ Bootstrap v3.0

- ▶ Released on August 19, 2013.
- ▶ Redesigned components to use flat design and a mobile first approach.

HISTORY

- ▶ Bootstrap v4.0

- ▶ The first alpha version of Bootstrap 4 was released on August 19, 2015.
- ▶ The first beta version was released on August 10, 2017.
- ▶ Mark Otto suspended work on Bootstrap 3 to free-up time to work on Bootstrap 4.
- ▶ V4.0 was finalized January 18, 2018.

WHY BOOTSTRAP ?

- ▶ Mobile first approach.



- ▶ Browser support.



WHY BOOTSTRAP ?

- ▶ Easy to get started.



- ▶ Responsive design.



IT INCLUDES !

- ▶ It includes 3 files,
 - ▶ bootstrap.min.css
 - ▶ jquery.min.js
 - ▶ Bootstrap.min.js



How to use it ?

- ▶ We can include it either by using CDN or downloaded files.
- ▶ Syntax for using CDN (Content Distribution Network)

```
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">  
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>  
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
```

- ▶ Syntax for using downloaded files

```
<script type = "text/javascript" src = "jquery.min.js"> </script>  
<script type = "text/javascript" src = "bootstrap.min.js"> </script>  
<link rel = "stylesheet" type = "text/css" href = "bootstrap.min.css">
```

Containers

- ▶ It has a concept of containing elements to wrap site contents.

- ▶ There are two types of containers

- ▶ **.container**

- Class used for a responsive fixed width.

- ▶ **.container-fluid**

- Class used for a full-width container.

Containers

- ▶ Syntax for using **.container**

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

```
...
```

```
</div>
```

- ▶ Syntax for using **.container-fluid**

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

```
...
```

```
</div>
```

Grid

- ▶ It is a structure (Usually 2D) made up of series of intersecting straight (Vertical/Horizontal) lines.
- ▶ It is used to structure the contents.
- ▶ It is a very effective method to create a consistent layout rapidly & effectively using Html & CSS.
- ▶ Makes the website easy to scan & reduces the load on users.

Grid Structure



Grid Example

- ▶ It allows up to 12 columns across the page.
- ▶ We can divide the containers in rows and each row in columns with space multiple of 12.

```
<div class="container">
  <h1>Bootstrap Grid</h1>
  <div class="row">
    <div class="col-sm-4">.col-sm-4</div>
    <div class="col-sm-4">.col-sm-4</div>
    <div class="col-sm-4">.col-sm-4</div>
  </div>
</div>
```

Grid Working

- ▶ We can use any combination that the sum be equal to 12.
- ▶ Responsive Bootstraps' grid system with 3 columns

small screens

Bootstrap Grid
.col-sm-4
.col-sm-4
.col-sm-4

big screens

Bootstrap Grid
.col-sm-4 .col-sm-4 .col-sm-4



Working with Bootstrap !

Bootstrap Tables

- ▶ There are 4 main classes for tables
 - ▶ table
 - ▶ table-striped
 - ▶ table-bordered
 - ▶ table-hover

table

Basic table style with just some light padding and horizontal dividers.

```
<table class = "table"> ... </table>
```

Bootstrap Tables

table-striped

Used to get zebra-striping to any rows with in the `<tbody>`

```
<table class = "table table-striped"> ... </table>
```

table-bordered

Used to get borders surrounding every element and rounded corners around the entire table.

```
<table class = "table table-bordered"> ... </table>
```

Bootstrap Tables

table-hover

Used to get a light grey background to rows while the mouse cursor come over it.

```
<table class = "table table-hover"> ... </table>
```

table-condensed

Used to make tables more compact by cutting cell padding in half.

```
<table class = "table table-condensed"> ... </table>
```

Table – Contextual Classes

- ▶ It is used to color table rows / individual cells.
- ▶ There are 5 contextual-classes
 - ▶ active
 - ▶ success
 - ▶ info
 - ▶ warning
 - ▶ danger

Table - Responsive

- By wrapping any <table> in table-responsive class we can make a responsive table.

```
<div class = "table-responsive">  
  <table class = "table">  
    ....  
  </table>  
</div>
```

Bootstrap Images

► It consist of 3 main classes

- img-rounded
- img-circle
- img-thumbnail

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

Bootstrap Images



Image - Responsive

- ▶ We can also make responsive images by using **img-fluid** class.

```
<img src = "... " class = "img-fluid" alt = "Responsive_Image" />
```

Bootstrap alerts

- ▶ It provides an easy way to create predefined alert messages.
- ▶ They are created with the **alert** class followed by the one of the 4 contextual classes.

alert-success

alert-info

alert-warning

alert-danger

Alert - Example

```
<div class="container">
  <h1>Bootstrap Alerts</h1>

  <div class="alert alert-success">
    <strong>Success!</strong> Indicates a successful or positive action.
  </div>

  <div class="alert alert-info">
    <strong>Info!</strong> Indicates a neutral informative change or action.
  </div>

  <div class="alert alert-warning">
    <strong>Warning!</strong> Indicates a warning that might need attention.
  </div>

  <div class="alert alert-danger">
    <strong>Danger!</strong> Indicates a dangerous or potentially negative action.
  </div>
</div>
```

Alert - Example

Success! Indicates a successful or positive action.

Info! Indicates a neutral informative change or action.

Warning! Indicates a warning that might need attention.

Danger! Indicates a dangerous or potentially negative action.

Bootstrap Buttons

- ▶ Bootstrap provides 7 styles of buttons. We can use the `btn` class to obtain it.

`btn-default`

`btn-primary`

`btn-success`

`btn-info`

`btn-warning`

`btn-danger`

`btn-link`

Buttons - Example

```
<div class="container">  
  <h1>Bootstrap Button</h1>  
  
  <button type="button" class="btn btn-default">Default</button>  
  <button type="button" class="btn btn-primary">Primary</button>  
  <button type="button" class="btn btn-success">Success</button>  
  <button type="button" class="btn btn-info">Info</button>  
  <button type="button" class="btn btn-warning">Warning</button>  
  <button type="button" class="btn btn-danger">Danger</button>  
  <button type="button" class="btn btn-link">Link</button>  
  
</div>
```

Bootstrap Button

Default

Primary

Success

Info

Warning

Danger

Link

Spinners

- ▶ It is used to create a spinner/loader.
- ▶ We can use the **spinner-border** class to create it.
- ▶ Syntax is,
`<div class="spinner-border"> </div>`
- ▶ By using contextual class we can change the color of the spinner accordingly.

Spinners

C

C C C C C C C C C

C C Loading... C Loading... Loading..

Bootstrap - Panels

- ▶ It is a bordered box with some padding around it's content that can be used to highlight or separated from information.
- ▶ Like other classes it is also used with contextual classes.

panel-default

panel-success

panel-warning

panel-primary

panel-info

panel-danger

Panels - Example

```
<div class="container">  
  <h1>Bootstrap Panel</h1>  
  
  <div class="panel panel-success">  
    <div class="panel-heading">Panel Heading</div>  
    <div class="panel-body">Panel Content</div>  
    <div class="panel-footer">Panel Footer</div>  
  </div>
```

Panel Heading

Panel Content

Panel Footer

Inline Forms

- ▶ It is used align all the elements of form in a line and left aligned.
- ▶ Add the class **form-inline** in `<form>` tag.
- ▶ This only applies to form within viewports that are at least 768px wide.



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Bootstrap - Themes & Templates

- ▶ We can find and download several themes & templates.
 - ▶ A theme consist of customized CSS.
 - ▶ A template consist of one or more predesigned Html pages, which often make use of theme.
- ▶ Both are collection of bootstrap elements (Grid, buttons, panels, etc.).

<https://startbootstrap.com/template-categories/all/>



Do you have any doubts ?



Thank You !