

Introduction To Bootstrap

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What is Bootstrap

- Most popular frontend framework.
- Used for creating User Interfaces.
- Prewritten code written in HTML, CSS and Javascript
- Application ranges from web development, mobile development etc
- Easy, simple and very responsive

History

- Developed: Mark Otto and Jacob Thornton at Twitter
- Released: Open source product in August 2011 on GitHub
- 2014: Number one project on GitHub

Versions

v4.x

Current major release and its minor versions. Last update was v4.5.3.

4.5	Latest
4.4	
4.3	
4.2	
4.1	
4.0	

v3.x

Our previous major release and its minor versions. Last update was v3.4.1.

3.4
3.3

v2.x

Every minor and patch release from v2 is listed below.

2.3.2
2.3.1
2.3.0
2.2.2
2.2.1
2.2.0
2.1.1

v1.x

Every minor and patch release from v1 is listed below.

1.4.0
1.3.0
1.2.0
1.1.1
1.1.0
1.0.0

Including Bootstrap

- Download and link
 - download the file and add bootstrap.css to your project's html.
- Link to a CDN
 - Easier and Simpler
 - Copy paste the url
 - Less faster
 - CDN- it is the hoisted version.
 - add its link in your html

Adding files:

Bootstrap

```
<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css"
integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2"
crossorigin="anonymous">
```

JavaScript

```
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-9/reFTGAW83EW2RDu2S0VKA1Zap3H66lZ81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.min.js"
integrity="sha384-wlQ4orYjBQndcko6MimVbzy0tgp4pWB4lZ7lr30WKz0vr/aWKhXdBNmNb5D92v7s"
crossorigin="anonymous"></script>
```

Container

- Contain
- Pad
- Center the content

How to include it?

```
<p class="container">Lorem ipsum dolor sit amet, consectetur adipisicing elit,  
sed do eiusmod </p>
```


Buttons

- Actions in forms
- Dialogs etc

How to include it?

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

Typography

- Headings
- Body Text
- Lists

How to include it?

- `<h1>Heading</h1>`
- `<p class="h1">Heading</p>`
- `<h1 class="display-1">Heading</h1>`

Utilities

- Border
- Color
- Display
- Position
- Size
- Spacing
- Text

Border

How to include it?

- ``
- ``
- ``
- ``

Color

How to include it?

- `<p class="text-primary">.text-primary</p>`
- `<p class="text-secondary">.text-secondary</p>`
- `<p>Primary link</p>`
- `<p>Secondary link</p>`
- `<div class="p-3 mb-2 bg-primary text-white">.bg-primary</div>`
- `<div class="p-3 mb-2 bg-secondary text-white">.bg-secondary</div>`

Badges

How to include it?

- `<button type="button" class="btn btn-primary">`
 Notifications `4`
 `</button>`
- `<button type="button" class="btn btn-primary">`
 Profile `9`
 `unread messages`
 `</button>`

Grid System

Primary feature of bootstrap

Every container in bootstrap can be divided into 12 columns and then elements can take out of 12 columns

Grid must always be inside container

- then div of class="row" where there are 12 columns to pick from
- every column will have class="col-size-no", if no class is assigned then it will occupy entire 12 col
- there are 4 variations of size: xs, sm, md, lg

Grid System

```
<div class="container">  
  <div class="row">  
    <div class="col-md-6">hello</div>  
    <div class="col-md-6">world</div>  
  </div>
```


Thank You