

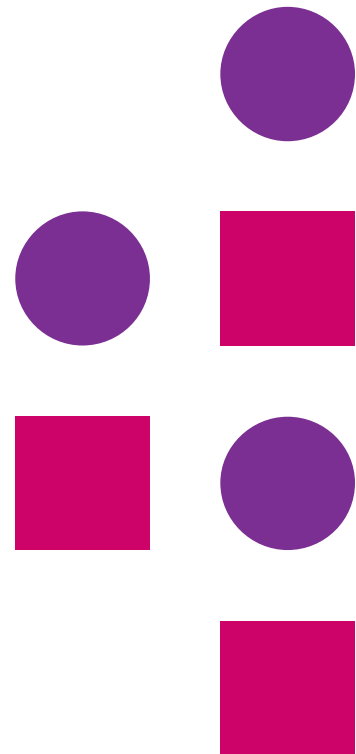
# Introduction

## Bootstrap



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- Introduction



# Introduction

(Bootstrap)

# Bootstrap

(what?)



- Bootstrap is HTML, CSS and JavaScript based framework for building responsive mobile-first sites and applications
- It is an open source project, source code is available under MIT license

You can download the code from <https://getbootstrap.com/>

# Bootstrap

## (Why?)

- Its easy to build responsive layouts with Bootstrap
- Bootstrap has ready-to-use components and utility classes
- Helps to maintain cross-browser compatibility
- Above points help organizations to reduce development and maintenance effort

# Bootstrap

## (Key features)

- Flexbox is enabled by default –
  - In general, this means a move away from floats
- Responsive Grid System –
  - It offers 12 column grid based responsive layout
- Base styled HTML elements –
  - Typography, Code, Tables, Forms, Buttons, Images and Icons

# Bootstrap

## (Key features ...)

- Extensive list of components –
  - Navigation Bar, Dropdowns, Button Groups, Alerts, Progress Bar and many more...
- “rem” as primary CSS unit
  - Though pixels are still used for media queries and grid behavior as device viewports are not affected by type size

# Bootstrap

## (Key features)

- CSS pre-processing –
  - Supports Less and Sass CSS extension languages to provide variables, nesting and mixins



# Bootstrap

## (Required libraries)

- Bootstrap require following libraries
  - bootstrap.css
  - bootstrap.js
  - popper.js
  - jquery.js
- Bootstrap uses jQuery and Popper.js for JavaScript components such as modals, tooltips, popovers etc.

# Bootstrap

## (First web page)

- Set html5 DOCTYPE, lang and charset
  - `<DOCTYPE html>`
  - `<html lang="en">`
  - `<meta charset="utf-8">`
- Set viewport
  - `<meta name="viewport" content="width=device-width, initial-scale=1">`

# Bootstrap

## (First web page)

### The libraries can be referred by including online links

- `<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">`

### Include following links in `<script>` tag (End of body)

- `src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"`
- `src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"`
- `src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"`

# Bootstrap

## (First web page)

- Include following lines in <body> of HTML file

```
<div class="container">  
  <h1>Hello Bootstrap world!</h1>  
  <p> This is my first Bootstrap program</P>  
</div>
```

- Now you are ready to rock!!
- Load the web page in browser

Web Stack Academy (P) Ltd

#83, Farah Towers,  
1st floor, MG Road,  
Bangalore - 560001

M: +91-80-4128 9576

T: +91-98862 69112

E: [info@www.webstackacademy.com](mailto:info@www.webstackacademy.com)

*Thank  
you*