WSA | Forward looking IT finishing school

Introduction

Bootstrap

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- Introduction

Introduction

(Bootstrap)

What is Bootstrap?

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

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

Why use Bootstrap

Mobile first approach: Since Bootstrap 3, the framework consists of Mobile first styles throughout the entire library instead 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 Desktop, Tablets and Mobiles.

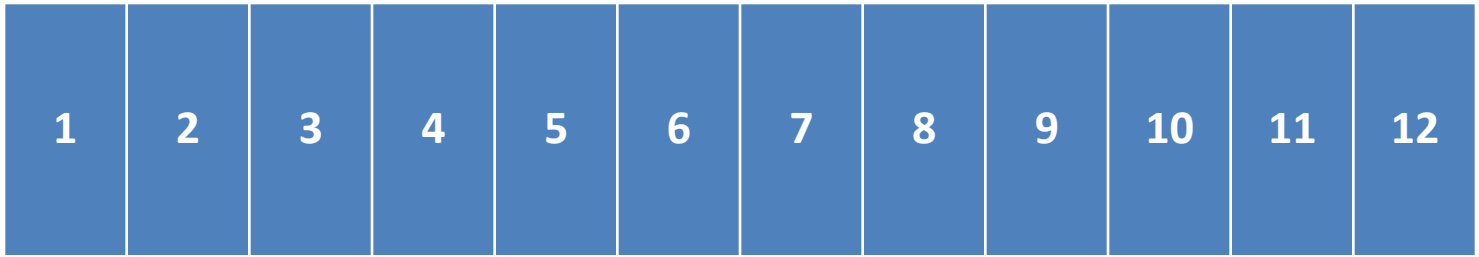
Bootstrap
(Key features)

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



Bootstrap
(Key features ...)

Extensive list of components:

- Navigation Bar, Dropdowns, Button Groups, Alerts, Progress Bar and many more...

“rem” as primary unit:

- Though pixels are still used for media queries and grid behavior as device viewports are not affected by type size.

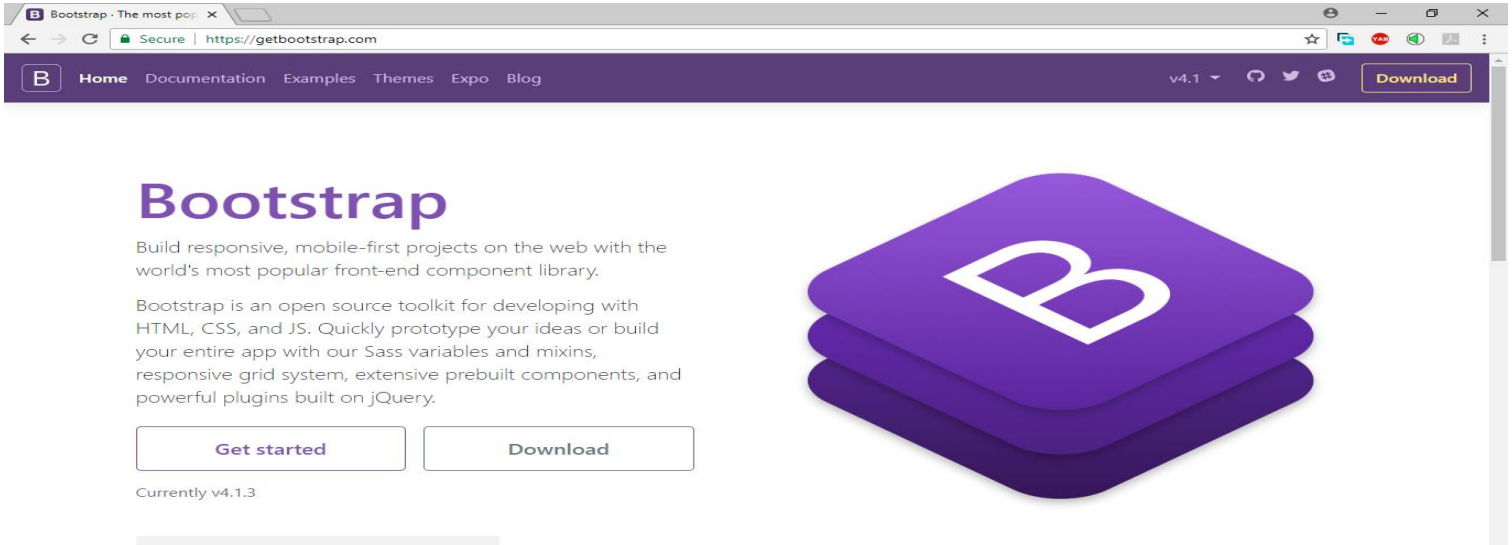
CSS pre-processing:

- Supports Less and Sass CSS extension languages to provide variables, nesting and mixings.

Bootstrap
(Environment setup)

Download Bootstrap:

- Download the latest version of Bootstrap from https://getbootstrap.com/



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)

The libraries can be referred by using local source folder as well

- <link rel="stylesheet" href="./../bootstrap/4.0.0/css/bootstrap.min.css">

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

```
<script src="./../jquery/jquery-3.3.1.slim.min.js" ></script>
<script src="./../popper.js/1.13.0/umd/popper.min.js" ></script>
<script src="./../bootstrap/4.0.0/js/bootstrap.min.js"></script>
```

Bootstrap
(First web page)

Include following lines in <body> of HTML file

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

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

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