

Objectives

At the end of this session, you will be able to:

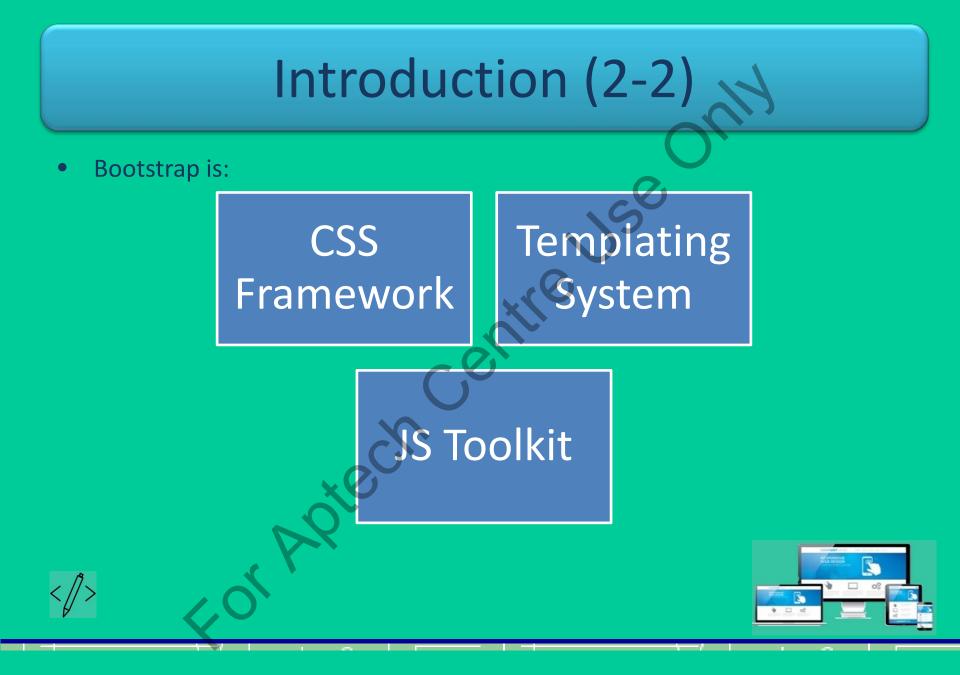
- Describe Bootstrap
- Explain the basic concepts of Bootstrap
- Describe the process of setting up Bootstrap
- Outline the file structure and the default source code in Bootstrap
- Use Bootstrap with CSS and JS
- Describe the significance of Bootstrap templates

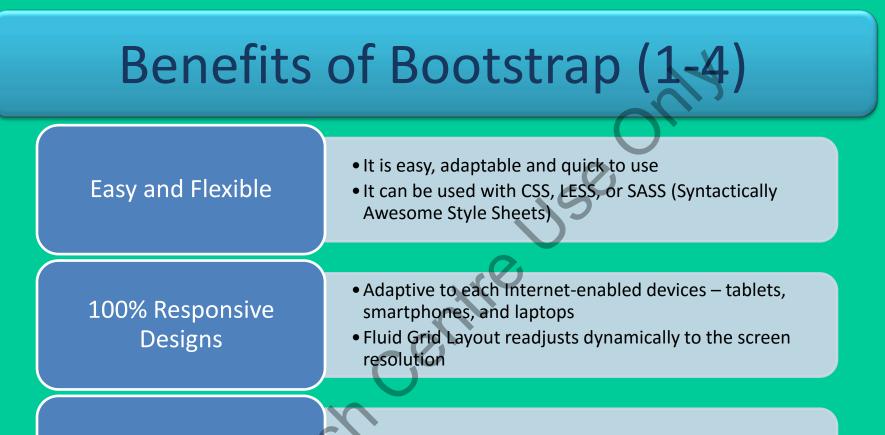


Introduction (1-2)

- Bootstrap is an open-source framework
- It is easy to use and understand
- It is also known as front-end Framework
- Used to make responsive Websites and Web applications
- It includes JS (JavaScript), CSS (Cascading Style Sheets), and HTML (Hyper Text Mark-up Language).
- It designs variety of components forms, layout, navigation, and JavaScript Extensions.





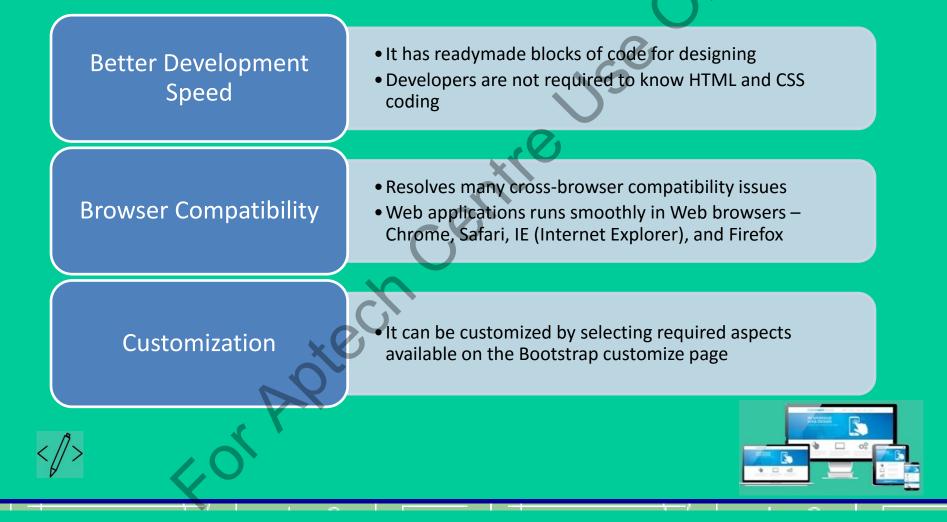


Great Grid System

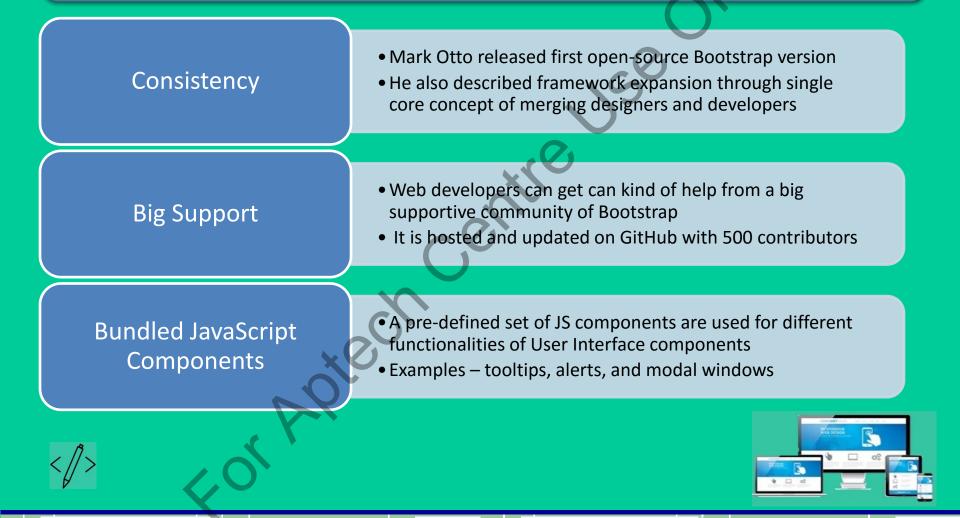
- Implements 12 columns responsive grid
- Supports offset and nested elements

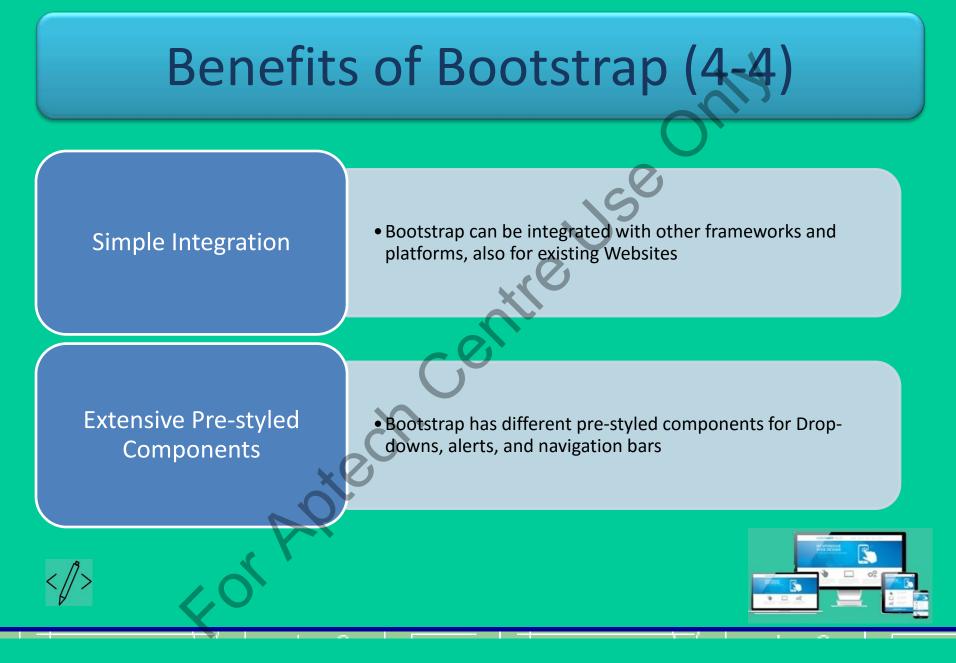


Benefits of Bootstrap (2-4)



Benefits of Bootstrap (3-4)





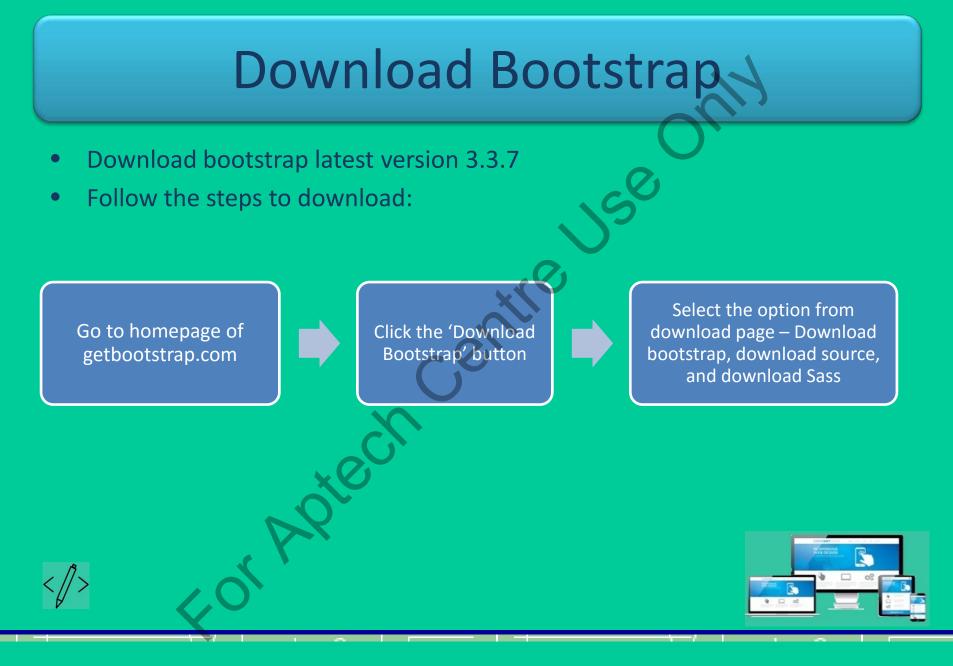


- Easy to download, install, and set up
- Two ways to start:

Download from getbootstrap.com

Include it from Content Delivery Network (CDN)





Content Delivery Network (CDN)

- Content Delivery Network (CDN) is a network of distributed servers
- Delivers Webpages or Web content to various user locations
- It is for those developers who do not want to host the framework
- Closer the server, faster the network
- Benefit of fast and quick loads



File Structure and Source Code

- A ZIP file contains the directories and files
- Extracted files are: structured CSS, JavaScript, and font directories
- Web developers uses desired components and plugins by drag-drop on a Webpage
- **Bootstrap.*.maps** contains **CSS** source maps
- Includes Glyphicon fonts and bootstrap theme (optional)



File Structure of Precompiled Bootstrap Version

-entre

bootstrap/

- +-- css/
- +-- bootstrap.css
- +-- bootstrap.css.map
- +-- bootstrap.min.css
- +-- bootstrap.min.css.map
- +-- bootstrap-theme.css
- +-- bootstrap-theme.css.map
- +-- bootstrap-theme.min.css
- +-- bootstrap-theme.min.css.map
- +-- js/
- +-- bootstrap.js
- +-- bootstrap.min.js
- +-- fonts/
- +-- glyphicons-halflings-regular.eot
- +-- glyphicons-halflings-regular.svg
- + glyphicons-halflings-regular.ttf
- -- glyphicons-halflings-regular.woff
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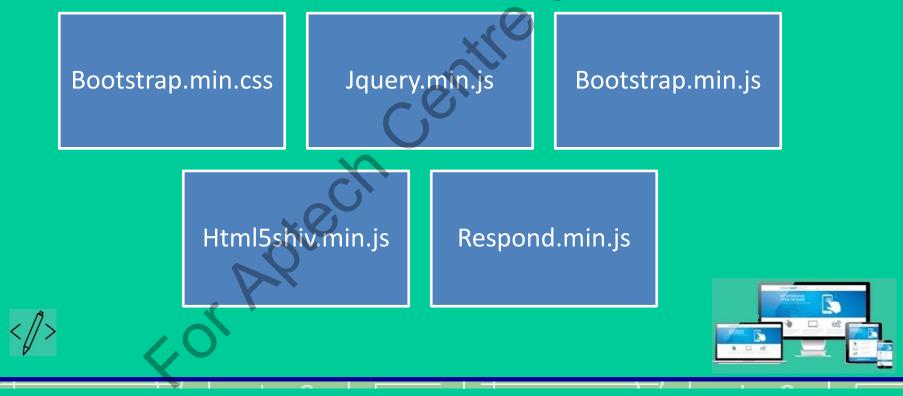
Bootstrap File Structure

• Bootstrap File Structure has following categories:

	Scaffolding	CSS	Components	JavaScript Plugins	
	 Basic grid structure Simple layouts Background Link Styles 	 Global CSS settings Advanced Grid System Basic HTML elements styles 	 Styles for reusable components Alerts, tabs, and page headers 	 Customs and interactive jQuery plugins Modals, tooltips, and popovers 	
<i>[</i>]>	< or	Re			

Default Bootstrap Template

- Conversion from HTML file into Bootstrapped file
- Include JQuery library before Bootstrap library
- Template includes following files:



MaxCDN Code

<!-- Compiled and minified CSS -->
link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">

<!-- Optional theme -->
k rel="stylesheet" href="https://maxcdn.bootstrapedn.com/bootstrap/3.3.7/css/bootstraptheme.min.css">

<!-- Compiled and minified jQuery -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.0/jquery.min.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></scrip

<!-- Compiled and minified JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script>



Bootstrap with CSS

- Bootstrap 2 had discretionary mobile-friendly styles
- Bootstrap 3 is mobile-friendly entirely
- A container element contains all the Website contents and grid system
- Two types of containers:

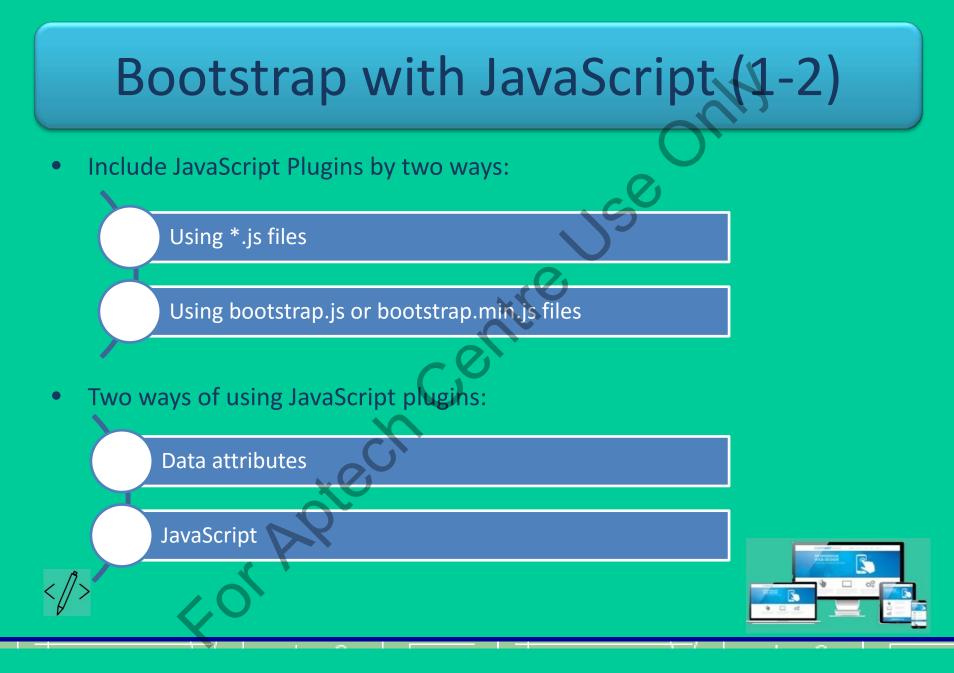
Fixed

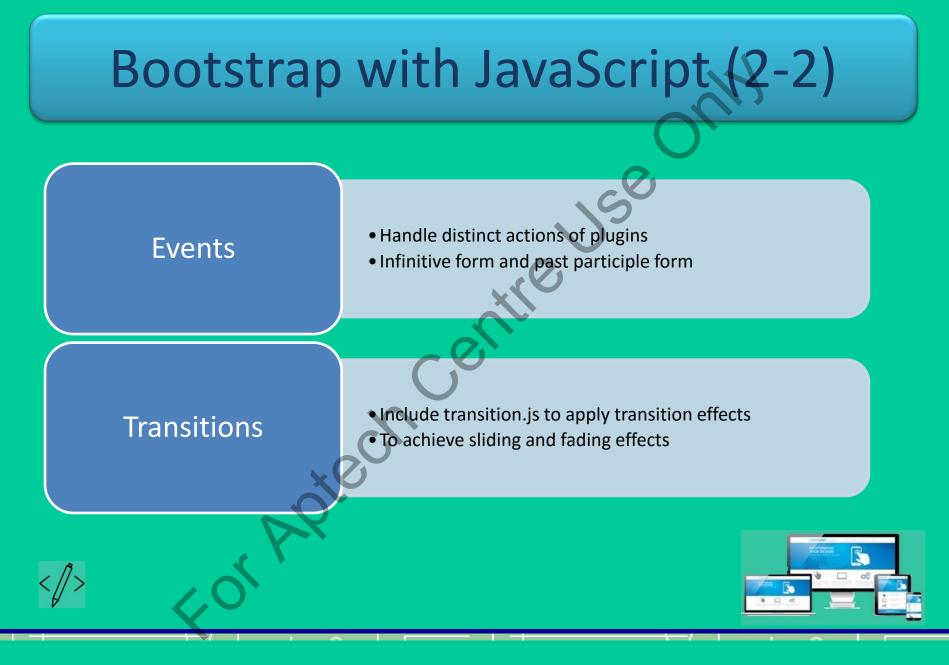
- Preset width of viewport
- Does not change the width
- Easy to use and personalize
- Width in pixels
- .container class in <div> tag

Fluid

- Covers the width of whole viewport
- Changes the width as per change in the screen size
- Width is in percentage
- .container-fluid class in <div> tag







Templates in Bootstrap

- A mock Website designed using Bootstrap framework
- Components JS code, CSS code, HTML pages, fonts, and images
- Used for e-commerce site, corporate portal, blog, or static page
- Blog Bootstrap template page:

Blog Post Title	6
by Start Bootstrap	Blog Categories
O Posted on August 28, 2013 at 10:00 PM	Category Name Category Name
	Category Name Category Name Category Name Category Name
	Category Name Category Name
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Read More >	

Summary (1-3)

- Bootstrap is an open-source Web framework for quickly developing front-end and responsive applications.
- Bootstrap uses CSS, HTML, JavaScript, and Query design interactive Webpages.
- Customization, browser compatibility, fully responsive pages, and an assortment of built-in components are the major benefits of Bootstrap.
- There are two ways to start using Bootstrap namely, downloading its files from getbootstrap.com or including them from a CDN.



Summary (2-3)

- The structure of the precompiled Bootstrap version includes the css, js, and fonts directories offering components and plugins for drag-n-drop usage.
- The basic HTML Bootstrapped template includes bootstrap.min.css,
 jquery.min.js, bootstrap.min.js, and the jQuery library prior to the Bootstrap
 library.
- The default Bootstrapped template contains the viewport meta tag to make a Webpage responsive



Summary (3-3)

- Bootstrap 3 is mobile first, which means the mobile-friendly styles are present throughout the library rather than in isolated files.
- Bootstrap comes with two types of containers namely, fixed width and full width containers.
- There are two ways of using JavaScript plugins namely, through data attributes and via JavaScript.
- Bootstrap template are sample Webpages designed for using the bootstrap framework.

