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Web UI

Lesson 3 - Bootstrap

Objectives

- Understand what Bootstrap is
- Learn how to download and install Bootstrap
- Understand the file structure of Bootstrap
- Become familiar with Bootstrap:
  - Scaffolding
  - Base CSS
  - Components
  - JavaScript plug-ins

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What is Bootstrap?

- Created by Twitter
- Open source
- CSS and JavaScript framework
- Designed to make web development faster and easier
- Uses jQuery for its JavaScript functionality

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Download and Installation

- Download the **compiled** version of Bootstrap
- Download the minified version of jQuery
- Include in your HTML files

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File Structure

The Bootstrap file system looks like this:

```
bootstrap/
  +-- css/
  |    +-- bootstrap.css
  |    +-- bootstrap.min.css
  +-- js/
  |    +-- bootstrap.js
  |    +-- bootstrap.min.js
  +-- img/
       +-- glyphicons-halflings.png
       +-- glyphicons-halflings-white.png
```

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Scaffolding

- Based on a 12-column grid
- Pages need to be HTML5 doctype
- Has both fixed and fluid grid systems
- Has both fixed and fluid layouts
- You can enable responsive design features (not on by default)

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Base CSS

- Alignment and emphasis classes
- Abbreviations (with hovers)
- Formatting for addresses
- Blockquotes, descriptions, code
- Tables, rows, and forms
- Buttons, images, and icons

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Components

- Many page components available:
  - Buttons
  - Navigation
  - Pagination
  - Labels and Badges
  - Thumbnails
  - Alerts
  - Progress bars

JavaScript Plugins

- bootstrap.js and bootstrap.min.js both contain all of the JavaScript plug-ins
- Many plug-ins available:
  - Transitions
  - Modal Dialog Boxes
  - Dropdowns
  - Tabs
  - Tooltips/Popovers/Alerts
  - Carousel
  - Typeahead

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Example: Glyphicons

- Small icons that you can embed in your site for things like labels, buttons, textboxes, etc.

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Example: Link Button

Example: Grid System

Example: Responsive Grid

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Example: Nested Columns

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Example: Page Styles

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Example: Buttons / Labels

Example: Glyphicons

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Example: Nav Bar

Example: Forms

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Conclusion

- Lots of options

- Bootstrap makes it much easier to create professional looking pages

- Explore your options, play with code, look for examples

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