

UNDERSTANDING CSS BOOTSTRAP

FULL STACK SKILLS BOOTCAMP

SIMPLIFYING WEB DEVELOPMENT WITH BOOTSTRAP

- **Lesson Overview:**
- In this lesson, we will be introduced to:
 1. CSS Bootstrap layouts and utility classes
 2. Customisation of Bootstrap default styles
 3. Using Bootstrap pre-made components

Accordion Example

Accordion Item #1

This is the first item's accordion body. It is shown by default, until the collapse plugin adds the appropriate class that we use to style each element.

Accordion Item #2

Card Example

150 x 150

Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Go somewhere

WHAT IS BOOTSTRAP?

- **What is Bootstrap?**

A popular open-source CSS framework for building responsive, mobile-first websites.

- **Why use Bootstrap?**

Speeds up development, offers pre-built components, and provides responsive design out-of-the-box.



BOOTSTRAP LAYOUT: THE GRID SYSTEM

- **What is the Bootstrap Grid System?**

- A responsive, flexible layout system based on a 12-column grid.

- **Key Concepts:**

- **Rows and Columns:** Used to create structure.
- **Breakpoints:** Responsive layout for various devices (xs, sm, md, lg, xl).

BOOTSTRAP GRID EXAMPLE

- **Basic Structure:**

- **Explanation:**

.container:

Wraps content to create margins and padding.

- .row:

Defines a row of content.

- .col-md-6:

Creates two equal-width columns on medium-sized screens (and larger).

```
<div class="container">
  <div class="row">
    <div class="col-md-6">Column 1</div>
    <div class="col-md-6">Column 2</div>
  </div>
</div>
```

UTILITY CLASSES

- **What are Utility Classes?**

Predefined Bootstrap classes that simplify applying common styles (e.g., spacing, display, colors).

- **Examples:**

.text-center, .p-3, .bg-light, .d-flex.

- **Use Case:**

Quickly apply styles without writing custom CSS.

Demo...

```
<aside class="col-md-3 bg-light p-4">
  <h2>Sidebar</h2>
  <p>This is the sidebar content.</p>
</aside>
```

BOOTSTRAP CUSTOMIZATION: COLORS & FONTS

▪ Built-in Colors & Fonts:

- Bootstrap offers a set of predefined colors (e.g., primary, secondary, success).
- Standard typography with built-in fonts (e.g., font size, weight).

```
<button class="btn btn-primary me-2">Prim  
<button class="btn btn-secondary me-2">Se  
<button class="btn btn-danger me-2">Dange  
<button class="btn btn-lg btn-success">La
```

OVERRIDING BOOTSTRAP WITH CUSTOM STYLES

- **Customizing Bootstrap:**

You can override Bootstrap's default styles by adding your own CSS file after the Bootstrap link in the HTML.

```
<link href="bootstrap.css" rel="stylesheet">  
<link href="custom.css" rel="stylesheet">
```


CUSTOMIZING COLORS EXAMPLE

- Customizing Colors Example:

Use Case: Apply custom branding or specific design elements.

```
.btn-primary {  
  background-color: #0056b3;  
  border-color: #004085;  
}
```

CUSTOM FONTS EXAMPLE

- **How to Change Fonts:**

You can apply custom fonts by adding them to your CSS file

- **Use Case:** Branding-specific fonts that aren't included in Bootstrap by default.

Demo...

```
body {  
  font-family: 'Roboto', sans-serif;  
}
```

USING BOOTSTRAP COMPONENTS

- **What are Bootstrap Components?**
 - Pre-built UI elements like buttons, navbars, modals, carousels, and cards.
 - Easy to implement, responsive, and customizable.

Progress Bar Example



Spinners Example



EXAMPLES OF BOOTSTRAP COMPONENTS

- Button

```
<button type="button" class="btn btn-primary">Primary Button</button>
```

- Navbar

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">  
  <a class="navbar-brand" href="#">Navbar</a>  
</nav>
```

WHY BOOTSTRAP COMPONENTS SPEED UP DEVELOPMENT

- **Consistency:**
Ensures design consistency across the site.
- **Time Saving:**
Pre-built components reduce the need to write complex CSS from scratch.
- **Responsiveness:**
Components adapt to different screen sizes by default.
- **Ease of Customization:** All components can be customized with Bootstrap's utility classes or your custom CSS.

CONCLUSION

- **Grid System:**
Create responsive layouts using Bootstrap's columns and rows.
- **Customisation:**
Modify colors, fonts, and styles easily with your custom CSS.
- **Components:**
Use pre-built UI elements to speed up development.
- **Official Bootstrap Documentation:**
<https://getbootstrap.com/>

QUESTIONS?