



WEBSITE DESIGN WITH BOOTSTRAP

SESSION 4: BOOTSTRAP

06/02/2026

Intro to Bootstrap

- Bootstrap is the world's most popular free CSS framework for rapid web development.
- Bootstrap provides HTML and CSS design templates for common website layouts and elements, such as buttons, navigation, carousels, and many more.
- You can choose between different versions: 3 – 5.

Why Use Bootstrap

- Easy to set up and use.
- Responsive features.
- Mobile-first design approach.
- Compatible with all modern browsers (Chrome, Firefox, Edge, Safari, and Opera)

Setting Up Bootstrap

- Bootstrap is completely free to download and use.
- There are two common methods to using Bootstrap:
 - Downloaded from the official website
 - Linking via CDN (Content Delivery Network)

Example: Bootstrap Quickstart

```
//  
<!DOCTYPE html>  
<html>  
<head>  
  <title>Page Title</title>  
  <meta name="viewport" content="width=device-width, initial-scale=1">  
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"  
rel="stylesheet">  
  <script  
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></  
script>  
</head>  
<body>  
  <h1 id="display-1">This is a Heading</h1>  
  <p>This is a paragraph.</p>  
</body>  
</html>
```

//

BOOTSTRAP LAYOUTS: CONTAINERS & GRIDS



Bootstrap Containers

- Bootstrap containers are used to wrap and align page contents.
- There are two main container classes:
 - **.container** provides a responsive, fixed width container.
 - **.container-fluid** provides a full-width container that spans the entire width of the viewport.

Example: Bootstrap Containers

```
//  
<!DOCTYPE html>  
<html>  
<head>  
  <title>Page Title</title>  
  <meta name="viewport" content="width=device-width, initial-scale=1">  
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"  
rel="stylesheet">  
  <script  
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></  
script>  
</head>  
<body>  
  <div class="container">  
    <h1 id="display-1">This is a Heading</h1>  
    <p>This is a paragraph.</p>  
  </div>  
</body>  
</html>
```

//



Bootstrap Grids

- Bootstrap grids are a layout system used to organise content using rows and columns.
- They are used to create responsive, flexible layouts for web pages.
- They allow content to be arranged and aligned consistently across different screen sizes and devices.

Example: Bootstrap Grids

//

```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
  <div class="container">
    <div class="row bg-light p-2 mb-2">
      <div class="col bg-primary text-white p-3">Column 1</div>
      <div class="col bg-success text-white p-3">Column 2</div>
      <div class="col bg-danger text-white p-3">Column 3</div>
    </div>
  </div>
</body>
</html>
```

//



BOOTSTRAP COMPONENTS



Overview

- Bootstrap components are pre-designed, reusable user interface (UI) elements provided by Bootstrap that help developers build responsive and interactive web pages quickly.
- Components can be customized using classes, CSS, and JavaScript.
- They help maintain consistent design and layout across a website.

Common Bootstrap Components

Buttons – `<button class="btn btn-primary">Click Me</button>`

Navbar – responsive menus for site navigation

Forms – styled input fields, checkboxes, radio buttons

Cards – content containers with headers, images, and footers

Modals – pop-up dialog boxes

Alerts – messages to notify users

Dropdowns – menus that expand when clicked

