



COURSE_NAME: WEB DEVELOPMENT
COURSE_INSTRUCTOR: ABDULLAH MAHMOOD

BOOTSTRAP BASICS

```
4 <title>Bootstrap Example</title>
5 <meta charset="utf-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1">
7 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
8 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
```

- `<head>`: Contains metadata about the HTML document and links to external resources.
- `<title>Bootstrap Example</title>`: Sets the title of the webpage, displayed on the browser tab.
- `<meta charset="utf-8">`: Specifies the character encoding as UTF-8, which supports most characters and symbols.
- `<meta name="viewport" content="width=device-width, initial-scale=1">`: Ensures proper rendering and touch zooming on mobile devices. `width=device-width` sets the width to match the screen's width. `initial-scale=1` sets the initial zoom level when the page is first loaded.
- `<link href="...bootstrap.min.css" rel="stylesheet">`: Links to the Bootstrap CSS file, enabling Bootstrap styles in the document.
- `<script src="...bootstrap.bundle.min.js"></script>`: Links to the Bootstrap JavaScript bundle, which includes JavaScript features such as tooltips and modals.



COURSE_NAME: WEB DEVELOPMENT
COURSE_INSTRUCTOR: ABDULLAH MAHMOOD

```
<div class="container p-5 my-5 border">
  <h1>My First Bootstrap Page</h1>
  <p>This container has a border and some extra padding and margins.</p>
</div>

<div class="container p-5 my-5 bg-dark text-white">
  <h1>My First Bootstrap Page</h1>
  <p>This container has a dark background color and a white text, and some extra padding and margins.</p>
</div>

<div class="container p-5 my-5 bg-primary text-white">
  <h1>My First Bootstrap Page</h1>
  <p>This container has a blue background color and a white text, and some extra padding and margins.</p>
</div>
```

`<body>`: Contains the content of the webpage.

- `<div class="container p-5 my-5 border">`: Creates a `div` container with Bootstrap's `.container` class, which centers the content and adds padding (`p-5`) and margin (`my-5`). `border` adds a border around the container.
- `<h1>My First Bootstrap Page</h1>`: Header element inside the container with the text "My First Bootstrap Page".
- `<p>`: A paragraph element describing the container's styling.

The code repeats the structure with slight variations:

- `bg-dark text-white`: Adds a dark background and white text.
- `bg-primary text-white`: Adds a blue background (Bootstrap primary color) and white text.

```
27 <!-- Responsive Containers-->
28 <div class="container pt-3">
29   <h1>Responsive Containers</h1>
30   <p>Resize the browser window to see the effect.</p>
31 </div>
32
33 <div class="container-sm border"><h1>My First Bootstrap Page</h1>
34   <p>This container has a blue background color and a white text, and some extra padding and margins.</p></div>
35 <div class="container-md mt-3 border"><h1>My First Bootstrap Page</h1></div>
36 <div class="container-lg mt-3 border"><h1>My First Bootstrap Page</h1></div>
37 <div class="container-xl mt-3 border"><h1>My First Bootstrap Page</h1></div>
38 <div class="container-xxl mt-3 border"><h1>My First Bootstrap Page</h1></div>
```



COURSE_NAME: WEB DEVELOPMENT

COURSE_INSTRUCTOR: ABDULLAH MAHMOOD

- `container-sm`, `container-md`, `container-lg`, `container-xl`, `container-xxl`: These classes create containers with varying maximum widths based on the screen size. The container adjusts its width based on the screen size:

- `container-sm`: Small screen.
 - `container-md`: Medium screen.
 - `container-lg`: Large screen.
 - `container-xl`: Extra large screen.
 - `container-xxl`: Extra-extra large screen.
- `pt-3`: Adds padding to the top of the container.
- `mt-3`: Adds margin at the top of the container.
- `border`: Adds a border to each container.

Visual Comparison:

- **`.container`**: Creates a centered block of content with margins on larger screens.
- **`.container-fluid`**: Content stretches across the entire width of the screen with no margins on the sides.