

Module - 8) Bootstrap Basic And Advance

- What are the advantages of Bootstrap?

Answer:

Bootstrap is a css framework. It's very easy to learn. It contains lots of styling which one can apply css properties by adding appropriate class. We can also create responsive design with bootstrap very easily.

- What is a Bootstrap Container, and how does it work?

Answer:

Containers are used give some padding to all sides.

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">

    <!-- Bootstrap CSS -->
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.
css" rel="stylesheet"
integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWfspd3yD65Vohhpuu
COmLASjC" crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
    <h1>Hello, world!</h1>
    <div class="container">
      <h5>Centered Container</h5>
    </div>
```

```

    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle
.min.js"
integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsPlUyJoMp4YLEuNSfAP+JcXn/t
WtIaxVXM" crossorigin="anonymous"></script>

  </body>
</html>

```

Output:

Hello, world!

Centered Container

- What are the default Bootstrap text settings?

Answer:

Bootstrap 4 uses a **default font-size of 16px**, and its **line-height is 1.5**. The default font-family is "Helvetica Neue", Helvetica, Arial, sans-serif

```

<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
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    <meta name="viewport" content="width=device-width, initial-scale=1">

    <!-- Bootstrap CSS -->
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.
css" rel="stylesheet"
integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWFspd3yD65Vohhpuu
COMLASjC" crossorigin="anonymous">

```

```
<title>Hello, world!</title>
</head>
<body>
  <div class="container">
    <h1>h1 Bootstrap heading (2.5rem = 40px)</h1>
    <h2>h2 Bootstrap heading (2rem = 32px)</h2>
    <h3>h3 Bootstrap heading (1.75rem = 28px)</h3>
    <h4>h4 Bootstrap heading (1.5rem = 24px)</h4>
    <h5>h5 Bootstrap heading (1.25rem = 20px)</h5>
    <h6>h6 Bootstrap heading (1rem = 16px)</h6>
  </div>
</body>
</html>
```

Output:

h1 Bootstrap heading (2.5rem = 40px)

h2 Bootstrap heading (2rem = 32px)

h3 Bootstrap heading (1.75rem = 28px)

h4 Bootstrap heading (1.5rem = 24px)

h5 Bootstrap heading (1.25rem = 20px)

h6 Bootstrap heading (1rem = 16px)

- What do you know about the Bootstrap Grid System?

Answer:

By using bootstrap's grid system we can make responsive content. Bootstrap's grid system **uses a series of containers, rows, and columns to layout and align content.**

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
```

```
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- Bootstrap CSS -->
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.
css" rel="stylesheet"
integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWFspD3yD65Vohhpua
COMLASjC" crossorigin="anonymous">
<style>
    .row,.col{
        border: 1px solid black;
        background: rgba(255, 0, 0, 0.252);
    }
</style>
<title>Hello, world!</title>
</head>
<body>
    <div class="container">
        <div class="row">
            <div class="col">
                1 of 2
            </div>
            <div class="col">
                2 of 2
            </div>
        </div>
        <div class="row">
            <div class="col">
                1 of 3
            </div>
            <div class="col">
                2 of 3
            </div>
            <div class="col">
                3 of 3
            </div>
        </div>
    </div>
</body>
```

```
</html>
```

1 of 2		2 of 2	
1 of 3	2 of 3		3 of 3

- What is the difference between Bootstrap 4 and Bootstrap 5

Answer:

The form elements in Bootstrap 4 have defaulted to the browser-provided view. However, in Bootstrap 5, the form elements have a custom design that enables them to have a consistent look and feel in all browsers

- What is a Button Group, and what is the class for a basic Button Group?

Answer:

“Button Groups” in Bootstrap is a class of name **“btn-group”** which is used to create a series of buttons in groups (without spaces) vertically or horizontally. Syntax: This is the basic syntax of the button group class where each button has its own class of “btn”

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1,
shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.
css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/
dAiS6JXm" crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
```

```

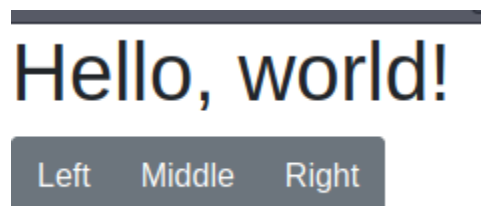
<h1>Hello, world!</h1>

<div class="btn-group" role="group" aria-label="Basic example">
  <button type="button" class="btn btn-secondary">Left</button>
  <button type="button" class="btn btn-secondary">Middle</button>
  <button type="button" class="btn btn-secondary">Right</button>
</div>

<!-- Optional JavaScript -->
<!-- jQuery first, then Popper.js, then Bootstrap JS -->
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93
hXpG5KkN" crossorigin="anonymous"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXu
svfa0b4Q" crossorigin="anonymous"></script>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+
76PVCmYl" crossorigin="anonymous"></script>
</body>
</html>

```

Output:



- In Bootstrap 4, what is flexbox?

Answer:

Quickly manage the layout, alignment, and sizing of grid columns, navigation, components, and more with a full suite of responsive flexbox utilities.

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1,
shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.
css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/
dAiS6JXm" crossorigin="anonymous">
    <style>
      .p-2{
        border: 2px solid black;
        background-color: bisque;
      }
    </style>
    <title>Hello, world!</title>
  </head>
  <body>
    <h1>Hello, world!</h1>

    <div class="d-flex flex-row">
      <div class="p-2">Flex item 1</div>
      <div class="p-2">Flex item 2</div>
      <div class="p-2">Flex item 3</div>
    </div>
    <div class="d-flex flex-row-reverse">
      <div class="p-2">Flex item 1</div>
      <div class="p-2">Flex item 2</div>
      <div class="p-2">Flex item 3</div>
```

```

    </div>
    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93
hXpG5KkN" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXu
svfa0b4Q" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
"
integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+
76PVCmYl" crossorigin="anonymous"></script>
  </body>
</html>

```

Output:

Hello, world!

Flex item 1	Flex item 2	Flex item 3
-------------	-------------	-------------

Flex item 3	Flex item 2	Flex item 1
-------------	-------------	-------------

- How can one create an alert in Bootstrap?

Answer:

Alerts are available for any length of text, as well as an optional dismiss button

```

<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1,
shrink-to-fit=no">

    <!-- Bootstrap CSS -->

```



```

    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.
css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/
dAiS6JXm" crossorigin="anonymous">

    <title>Hello, world!</title>
</head>
<body>

    <div class="alert alert-primary" role="alert">
        This is a primary alert-check it out!
    </div>
    <div class="alert alert-secondary" role="alert">
        This is a secondary alert-check it out!
    </div>
    <div class="alert alert-success" role="alert">
        This is a success alert-check it out!
    </div>
    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93
hXpG5KkN" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXu
svfa0b4Q" crossorigin="anonymous"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
"
integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpilMquVdAyjUar5+
76PVCmYl" crossorigin="anonymous"></script>
</body>
</html>

```

Output:

This is a primary alert—check it out!

This is a secondary alert—check it out!

This is a success alert—check it out!

- What is a bootstrap card and how would you create one?

Answer:

Bootstrap's cards provide a flexible and extensible content container with multiple variants and options.

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1,
shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.
css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/
dAiS6JXm" crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>

    <div class="card" style="width: 18rem;">
      
      <div class="card-body">
        <h5 class="card-title">Card title</h5>
        <p class="card-text">Some quick example text to build on the card
title and make up the bulk of the card's content.</p>
```

```

        <a href="#" class="btn btn-primary">Go somewhere</a>
    </div>
</div>
<!-- Optional JavaScript -->
<!-- jQuery first, then Popper.js, then Bootstrap JS -->
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93
hXpG5KkN" crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXu
svfa0b4Q" crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js
"
integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpilMquVdAyjUar5+
76PVCmYl" crossorigin="anonymous"></script>
</body>
</html>

```

Output:



Card title

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

[Go somewhere](#)