

Module (Bootstrap Basic & Advanced) – 6

- What are the advantages of Bootstrap?

Bootstrap offers many advantages for web designers and developers, such as saving time and effort by providing ready-made components and styles that can be customized and combined. It also ensures consistency and compatibility, as it follows a standard design and coding convention, and uses a mobile-first approach.

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

In Bootstrap, container is used to set the content's margins dealing with the responsive behaviors of your layout. It contains the row elements and the row elements are the container of columns (known as grid system). The container class is used to create boxed content.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle.min
.js"></script>
</head>
<body>

<div class="container">
  <h1>My First Bootstrap Page</h1>
  <p>This part is inside a .container class.</p>
  <p>The .container class provides a responsive fixed width container.</p>
  <p>Resize the browser window to see that the container width will change at
different breakpoints.</p>
</div>

</body>
</html>
```

My First Bootstrap Page

This part is inside a `.container` class.

The `.container` class provides a responsive fixed width container.

Resize the browser window to see that the container width will change at different breakpoints.

- What are the default Bootstrap text settings?

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.

In addition, all `<p>` elements have `margin-top: 0` and `margin-bottom: 1rem` (16px by default).

- What do you know about the Bootstrap Grid System?

Bootstrap's grid system allows up to 12 columns across the page.

If you do not want to use all 12 column individually, you can group the columns together to create wider columns

span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1
span 4				span 4				span 4			
span 4				span 8							
span 6						span 6					
span 12											

The Bootstrap grid system has four classes:

- `xs` (for phones - screens less than 768px wide)
- `sm` (for tablets - screens equal to or greater than 768px wide)
- `md` (for small laptops - screens equal to or greater than 992px wide)
- `lg` (for laptops and desktops - screens equal to or greater than 1200px wide)

- What is the difference between Bootstrap 4 and Bootstrap 5

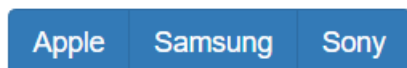
Bootstrap 4 uses Jekyll software. Bootstrap 5 uses Hugo software as it is fast static site generator. this makes easier to implement vertical designs, and the columns and rows can easily be

implemented. the classes justify-center-content can directly be used to align according to the requirement.

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

Button Group

The .btn-group class creates a button group:



- How can you use Bootstrap to make thumbnails?

Thumbnail Image: A thumbnail is a small image that represents a larger image. Bootstrap has an easy way to do this with thumbnails.

Bootstrap's .thumbnail class is used to show linked images in grids (grid system), a thumbnail is created using class .

- In Bootstrap 4, what is flexbox?

```
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  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css"
>
  <script
src="https://cdn.jsdelivr.net/npm/jquery@3.6.4/dist/jquery.slim.min.js"></scri
pt>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></s
cript>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min
.js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Flex</h2>
```

```

    <p>To create a flexbox container and transform direct children into flex
items, use the d-flex class:</p>
    <div class="d-flex p-3 bg-secondary text-white">
      <div class="p-2 bg-info">Flex item 1</div>
      <div class="p-2 bg-warning">Flex item 2</div>
      <div class="p-2 bg-primary">Flex item 3</div>
    </div>
  </div>

</body>
</html>

```

Flex

To create a flexbox container and transform direct children into flex items, use the d-flex class:



- How can one create an alert in Bootstrap?

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></scrip
t>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></sc
ript>
</head>
<body>

<div class="container">
  <h2>Alerts</h2>
  <div class="alert alert-success">
    <strong>Success!</strong> This alert box could indicate a successful or
positive action.
  </div>
  <div class="alert alert-info">

```

```

    <strong>Info!</strong> This alert box could indicate a neutral informative
change or action.
  </div>
  <div class="alert alert-warning">
    <strong>Warning!</strong> This alert box could indicate a warning that
might need attention.
  </div>
  <div class="alert alert-danger">
    <strong>Danger!</strong> This alert box could indicate a dangerous or
potentially negative action.
  </div>
</div>

</body>
</html>

```

Alerts

Success! This alert box could indicate a successful or positive action.

Info! This alert box could indicate a neutral informative change or action.

Warning! This alert box could indicate a warning that might need attention.

Danger! This alert box could indicate a dangerous or potentially negative action.

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

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css"
>
  <script
src="https://cdn.jsdelivr.net/npm/jquery@3.6.4/dist/jquery.slim.min.js"></scri
pt>

```

```
<script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></s
cript>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min
.js"></script>
</head>
<body>

<div class="container">
  <h2>Card Image</h2>
  <p>Image at the top (card-img-top):</p>
  <div class="card" style="width:400px">
    
    <div class="card-body">
      <h4 class="card-title">John Doe</h4>
      <p class="card-text">Some example text some example text. John Doe is an
architect and engineer</p>
      <a href="#" class="btn btn-primary">See Profile</a>
    </div>
  </div>
  <br>

  <p>Image at the bottom (card-img-bottom):</p>
  <div class="card" style="width:400px">
    <div class="card-body">
      <h4 class="card-title">Jane Doe</h4>
      <p class="card-text">Some example text some example text. Jane Doe is an
architect and engineer</p>
      <a href="#" class="btn btn-primary">See Profile</a>
    </div>
    
  </div>
</div>

</body>
</html>
```

Card Image

Image at the top (card-img-top):



card

card image

[See Profile](#)