

Bootstrap

- **What are the advantage of bootstrap?**

There are so many advantages of bootstrap some are written under.

- Responsiveness
- Highly customizable
- Cross-browser Compatibility
- Extremely user-centric
- Top-notch support
- JavaScript plugins to your rescue
- Far-reaching popularity
- Ample documentation
- Update at the doorstep
- Easy initiation

- **What is Bootstrap Container and how does it Work ?**

There are two types of container class in Bootstrap 1).container , 2).container-fluid

- `<div class = "container"></div>`
-> it is acquire 80% of width of screen.
- `<div class = "container-fluid"></div>`
-> it is acquire 100% of width of screen.

- **What are the default Bootstrap text settings ?**

Bootstrap uses a default font-size of 16px, 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 uses a series of containers, rows, and columns to layout and align content. It's built with flexbox and is fully responsive .

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

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 ?**

In the alpha-1 version of bootstrap 5 some classes removed are:

form – row

form – inline

list – inline

card – deck

Some of the added classes:

gx-* (classes control the horizontal/column gutter width)

gy-* (classes control the vertical/row gutter width)

g-* (classes control the horizontal & vertical gutter width)

rows-cols-auto

Difference between bootstrap 4 and bootstrap 5

BASIS OF	BOOTSTRAP 4	BOOTSTRAP 5
Grid system	It has 5 tier (xs, sm, md, lg, xl).	It has 6 tier (xs, sm, md, lg, xl, xxl).
Color	It has limited color.	Extra colors added with the looks, A card improved color palette. there are various shades available to choose
Jquery	It has jquery and all related plugins.	Jquery is removed and switched to vanilla JS with some working plugins
Internet explorer	Bootstrap 4 supports both	Bootstrap 5 doesn't

	IE 10 and 11.	support IE 10 and 11
Form events	Radio buttons, checkboxes have different	The look of form elements will not change,

	look in different OS and browsers. The form uses whatever default browsers provide	on different OS or browser. The forms can be customized and form controls can be added, they would not depend on browser.
Utilities API	We cannot modify utilities in bootstrap 4	Bootstrap 5 gave freedom to modify and also create our own utility
Vertical classes	Columns can be positioned relative	Columns cannot be positioned relative
Bootstrap Icons	Bootstrap 4 doesn't have its own SVG icons, we have to use font-awesome for icons	Bootstrap 5 has its own SVG icons
Jumbotron	It supports	It doesn't support jumbotron
Card deck	The card deck is used to create a set of cards with equal width and height.	Card deck class is removed in bootstrap
Navbar	We have inline-block property and we will get white dropdown as default for dropdown-menu-dark class	Inline-block property is removed and we will get black dropdown as default for dropdown-menu-dark class
Static Site Generator	Bootstrap 4 uses Jekyll software.	Bootstrap 5 uses Hugo software as it is fast static site generator.
flexbox grid	this makes easier to implement vertical designs, and the columns and rows can easily be implemented. the classes justify-center-content can	advanced grid system is made available, also columns don't have relative positions

	directly be used to align according to the requirement.	
RTL Support	It does not enable RTL(Right to Left) switching	It enables RTL(Right to Left) switching
Offcanvas Component	It does not support Offcanvas Component.	It supports Offcanvas Component(that is it is available now).
Gutter	We use .glutter with font-size in px.	We use .g* with font-size in rem

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

“Button Groups” in Bootstrap is a class of name “**btn-group**” which is used to create series of buttons in groups (without spaces) vertically or horizontally.

This is the basic syntax of the button group class where each button has its own class of “btn”

The basic class of button is “**btn**”

There are some class of buttons

.btn-default
.btn-primary
.btn-success

.btn-info
.btn-warning
.btn-danger
.btn-link

- **How can you use Bootstrap to make thumbnails ?**

Bootstrap's **.thumbnail** class is used to show linked images in grids (grid system).

A thumbnail is created using class . thumbnail within the element <a>

To create thumbnails following this three step.

Add an `<a>` tag with the class of **.thumbnail** around an image.
This adds four pixels of padding and a gray border.
On hover, an animated glow outlines the image

- **In Bootstrap 4, what is flexbox ?**

Bootstrap 4 now uses flexbox, instead of floats, to handle the layout.
The Flexible Box Layout Module, makes it easier to design flexible responsive layout structure without using float or positioning.
This reason to use flexbox instead of floats.

- **How can one create an alert in Bootstrap ?**

Bootstrap provides an easy way to create predefined alert messages:

In Bootstrap alert are created using **.alert** class.

There are four type of alert created by bootstrap.

.alert-Success: This alert box indicates a successful or positive action.

.alert-info: This alert box indicates a neutral informative change or action.

.alert-warning: This alert box indicates a warning that might need attention.

.alert-danger: This alert box indicates a dangerous or potentially negative action.

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

In Bootstrap , A card is a flexible and extensible content container.
It includes options for headers and footers, a wide variety of content, contextual background colors, and powerful display option.

```
<!DOCTYPE html>
<html>
<head>
  <meta charset='utf-8'>
  <meta http-equiv='X-UA-Compatible' content='IE=edge'>
  <title>Bootstrap card</title>
```

```

<meta name='viewport' content='width=device-width, initial-
  scale=1'>
<link
  href="_ HYPERLINK
  "https://cdn.jsdelivr.net/npm/bootstrap%405.1.3/dist/css/boots" HYPERLINK
  "https://cdn.jsdelivr.net/npm/bootstrap%405.1.3/dist/css/boots" HYPERLINK
  "https://cdn.jsdelivr.net/npm/bootstrap%405.1.3/dist/css/boots"https://cdn.
  jsdelivr.net/npm/bootstrap@5.1.3/dist/css/boots"trap.min.css"
  rel="stylesheet" integrity="sha384-
  1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
  crossorigin="anonymous">
<link rel="stylesheet"
  href="https://cdn.jsdelivr.net/npm/bootstrap-
  icons@1.10.3/font/bootstrap-icons.css">
<style>
  *{
    margin: 0;
    padding: 0;
    box-sizing: border-box;

  }
  .card-body{
    background-color: lightgray;border-
    radius: 10px;
  }
  .card-body img{
    background-color: darkolivegreen;border-
    radius: 7px 7px 0 0;
  }
</style>
<script
  src="_ HYPERLINK
  "https://cdn.jsdelivr.net/npm/%40popperjs/core%402.10.2/dist/umd/"
  HYPERLINK
  "https://cdn.jsdelivr.net/npm/%40popperjs/core%402.10.2/dist/umd/"
  HYPERLINK
  "https://cdn.jsdelivr.net/npm/%40popperjs/core%402.10.2/dist/umd/"https://c
  dn.jsdelivr.net/npm/@popperjs/core@2.10.2/dist/umd/popper.min.js"
  integrity="sha384-
  7+zcNj/IqJ95wo16oMtfSKbZ9ccEh31e0z1HGyDuCQ6wgnyJNSYdrPa03rtR1zdB"
  crossorigin="anonymous"></script>
<script
  src="_ HYPERLINK
  "https://cdn.jsdelivr.net/npm/bootstrap%405.1.3/dist/js/bootstr" HYPERLINK

```

```

"https://cdn.jsdelivr.net/npm/bootstrap%405.1.3/dist/js/bootstr" HYPERLINK
"https://cdn.jsdelivr.net/npm/bootstrap%405.1.3/dist/js/bootstr"https://cdn
.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.min.js"
integrity="sha384-
QJHtvGhmr9X0IpI6YVutG+2Q0K9T+ZnN4kzFN1RtK3zEFEIsxhlmWl5/YESvpZ13"
crossorigin="anonymous"></script>
</head>
<body>

<div class="container">
  <div class="card-body col-md-4 col-sm-8 mx-auto mt-5">
    
    <h2 class="mt-4 text-black">Richard Taylor</h2>
    <h4 class="mt-4 text-black">CEO of D&D group ofcompany</h4>
    <button type="button" class="mt-4 btn btn-lg bg-primarytext-
      white">See Profile</button>
  </div>
</div>

</body>
</html>

```

