

Q : 1

**What are the advantages of Bootstrap?**

Using the Bootstrap framework saves time in many ways by taking advantage of reusable code for Navbars, Dropdowns, Labels, Alerts, List groups, and JavaScript plugins.

Using the framework offers these design benefits:

* Easy to prevent repetitions among multiple projects
* Responsive design that can be used to adapt screen sizes and choose what shows and what doesn't on any given device
* Maintaining consistency among projects when using multiple developer teams
* Quick design of prototypes
* Cross-browser compatibility
* Easy initiation
* Responsiveness
* Highly customizable
* Extremely user-centric
* Top-notch support
* Cross-browser compatibility

Etc…..

Q : 2

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

**Bootstrap Containers** are the most basic layout element in Bootstrap.

Bootstrap Containers are very essential and basic building blocks of bootstrap that wrap a page’s content.

It’s responsible for setting and aligning content within it according to viewport or given device.

Containers are defined within the container class (.container).

In other words, we can say that containers are established the width for the layout to give the content.

Elements and content are added within the container.

**Containers are used for many purposes such as –**

* It requires use with the default grid system.
* To establish width for the layout to give web content.
* To provide responsive fixed behavior of any web project.
* To sets the content margin dealing with the responsive behavior of your layout.

Bootstrap has the default class or predefined class is ***“.container”***& ***“.container-fluid”***class for  layout.

Containers are used to contain, pad, and (sometimes) centre the content within them. While containers can be nested, most layouts do not require a nested container.

Basically, there are three types of container classes available in bootstrap:

1. Default-Container(container)
2. Responsive-Container (along with sm, md, lg, xl, xxl)
3. Fluid-Container(container-fluid)

Q : 4

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

**Bootstrap Default Settings:**

Bootstrap 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).**

Q: 5

**What do you know about the Bootstrap Grid System?**

**Grid system**

Use our powerful mobile-first flexbox grid to build layouts of all shapes and sizes thanks to a twelve column system, five default responsive tiers, Sass variables and mixings, and dozens of predefined classes.

Bootstrap’s grid system uses a series of containers, rows, and columns to layout and align content. It’s built with [**flexbox**](https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Flexible_Box_Layout/Using_CSS_flexible_boxes) and is fully responsive. Below is an example and an in-depth look at how the grid comes together.

**Example:**

<div class="container">

<div class="**row**"> (row has default 12 col acquires)

<div class="**col-4**"></div> (col-auto)

<div class="**col**-**4**"></div> (col-auto)

<div class="**col**-**4**"></div> (col-auto)

</div>

</div>

**Output:**

Q: 6

**What is the difference between Bootstrap 4 and Bootstrap 5?**

Key Differences Between **Bootstrap 4** and **Bootstrap 5**:

Bootstrap 5 has removed the jQuery dependency, aiming for a more modern and lightweight approach. Utility Classes: Bootstrap 5 introduces more utility classes, making it easier to apply styles directly in the HTML without the need for custom CSS.

| **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 colors. | Extra colors added with the looks, A card improved color palette. there are various shades available to choose. |
| **Form elements** | Radio buttons, checkboxes have different look in different OS and browsers. The form uses whatever default browsers provide. | The look of form elements will not change, on different OS or browser. The forms can be customized and form controls can be added, they would not depend on browser. |
| **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 have its own SVG icons |
| **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. |
| **flexbox grid** | 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. | advanced grid system is made available , also columns don’t have relative positions. |

Q: 7

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

A "Button Group" is a collection of buttons displayed together on a single line, visually indicating that they are related actions, in Bootstrap, the class for a basic button group is "**btn-group**" - simply wrap your series of buttons with the "**.btn-group**" class to create a button group.

.btn-default

.btn-primary

.btn-success

.btn-info

.btn-warning

.btn-danger

.btn-link

**Example:**

<div class="**btn-group**">  
<button class="**btn btn-primary**">Go</button> <button class="**btn btn-success**">Go</button>

<button class="**btn btn**- **secondary** ">Go</button>  
</div>

**Output:**

Go

Go

Go

Q: 8

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

To Create Thumbnails, Add an <> tag with the class of .thumbnail  around an image.

ex: Class=” thumbnail**”**

**Example:**

<div class=**"container"**>

<div class = **"row"**>

<div class = **"col-4**">

<a href = "#" class = **"thumbnail"**>

<img src = ".." alt = ""></a>

</div>

<div class = **"row"**>

<div class = **"col-4"**>

<a href = "#" class = **"thumbnail"**>

<img src = ".." alt = ""></a>

</div>

<div class = **"row"**>

<div class = **"col-4"**>

<a href = "#" class = **"thumbnail"**>

<img src = ".." alt = ""></a>

</div>

</div>

</div>

**Output:**

Image

Image

Image

IMG

Q: 9

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

One of the easiest ways to build responsive, mobile-first CSS projects on the web is to use the **Flexbox features** inside of **Bootstrap**.

Introduced in **Bootstrap 4**, **Flexbox** (Flexible Box Layout) is a **one-dimensional layout** model in CSS that allows developers to design complex flexible layouts with ease.

Quickly manage the layout, alignment, and sizing of grid columns, navigation, components, and more with a full suite of responsive flexbox utilities. For more complex implementations, custom CSS may be necessary.

Classes Of Flex in Bootstrap:

d-flex

d-inline-flex

flex-column

justify-content-around, between, centre

align-items-start, end, centre etc….

You can use flex all properties easily with class name in BS.

**Example:**

<div class="d-flex flex-column justify-content-center align-items-center p-2">

<span>Jay</span>

<span>A</span>

<span>Dholakiya</span>

</div>

**Output:**

**Jay**

**A**

**Dholakiya**

Q: 10

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

Alerts

Provide contextual feedback messages for typical user actions with the handful of available and flexible alert messages.

**Example:**

<div class="alert alert-primary" role="alert">

Hii…Hello Good Morning!

</div>

<div class="alert alert-success" role="alert">

Hii…Hello Good Morning!

</div>

<div class="alert alert-warning" role="alert">

Hii…Hello Good Morning!

</div>

**Output:**

Hii…Hello Good Morning!

Hii…Hello Good Morning!

Hii…Hello Good Morning!

Q: 11

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

Cards

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

Cards are built with as little markup and styles as possible, but still manage to deliver a ton of control and customization. Built with flexbox, they offer easy alignment and mix well with other Bootstrap components.



