1.What are the advantages of Bootstrap?

* Bootstrap 3, framework consists of Mobile first styles throughout the entire library instead them of in separate files.
* It is supported by all popular browsers.
* With just the knowledge of HTML and CSS, anyone can get started with Bootstrap.
* Bootstrap's responsive CSS adjusts to Desktops, Tablets, and Mobiles.

2.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.

There are two container classes in Bootstrap:

1. container
2. container-fluid

Example:-

1. <!DOCTYPE html**>**
2. **<html** lang="en"**>**
3. **<head>**
4. **<title>**Job**</title>**
5. **<link** rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css"**/>**
6. **</head>**
7. **<body>**
9. **<div** class="container"**>**
10. **<h1>**Container**</h1>**
11. **<p>**container content**</p>**
12. **</div>**
14. **<div** class="container-fluid"**>**
15. **<h1>**Container-fluid**</h1>**
16. **<p>**container-fluid content**</p>**
17. **</div>**
19. **<script** src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"**></script>**
20. **<script** src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"**></script>**
21. **</body>**
22. **</html>**

3.What are the default Bootstrap text settings?

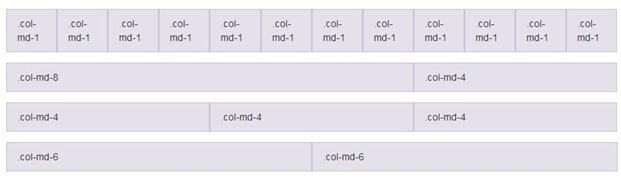
Bootstrap's global default font-size is 14px, with a line-height of 1.428.

This is applied to the <body> and all paragraphs.

In addition, all <p> elements have a bottom margin that equals half their computed line-height (10px by default).

4. What do you know about the Bootstrap Grid System?

The Bootstrap Grid System allows up to 12 columns across the page. You can use all 12 columns individually or you can groups the columns together to create wider columns.



Bootstrap Grid System is responsive and the columns are re-arranged automatically according to the screen size.

There are four classes in Bootstrap Grid System:

* xs (for phones)
* sm (for tablets)
* md (for desktops)
* lg (for larger desktops)

You can combine the above classes to create more dynamic and flexible layouts.

5.What is the difference between Bootstrap 4 and Bootstrap 5

**Main Differences Between Bootstrap 4 and Bootstrap 5**

Bootstrap 5 has several improvements and upgrades that Bootstrap 4 lacks, and some of these upgrades are discussed in this section:

**Extended color palette**

One of the limitations of Bootstrap 4 is that the [color options](https://html-online.com/articles/rgb-color-code-picker/) are limited. However, on Bootstrap 5, there are more color options added to [the color palette](https://rgbcolorcode.com/). This ensures that developer can choose from several available shades of color.

**jQuery Deprecation**

[jQuery](https://html-online.com/articles/category/jquery/) has been used by Bootstrap as a dependency from the beginning to offer several dynamic features such as dropdowns ⮟, carousel , and menu ≡ expansion.  
However, many developers didn’t like the forced dependency on jQuery as they preferred to use Bootstrap alongside modern [JavaScript frameworks](https://html-online.com/articles/javascript-frameworks-for-front-end-development/) like Vue.js and React. Therefore, Bootstrap 5 drops jQuery and removes the forced dependency.

However, it’s important to note that this doesn’t imply that Bootstrap 5 doesn’t have any JavaScript dependency. Several behaviors with Bootstrap 5, such as slider, drop-down, popover, etc., depending on Popper and its vanilla JavaScript module. While you’re not required to [add jQuery](https://htmlcheatsheet.com/jquery/), you’re still allowed to add it if you’re working on a project that depends on it.

**Floating Labels**

The Bootstrap 5 version also supports [floating Labels](https://getbootstrap.com/docs/5.0/forms/floating-labels/) for the input fields [in forms](https://html-css-js.com/html/tags/#form). This means that you can use the form-floating class to ensure a floating label is enabled. After entering some values into the input fields, they automatically adjust their position to the floated area.

<**form** class="form-floating">

  <**input** type="email" class="form-control" id="floatingInputValue" placeholder="name@html-online.com" value="test@example.com">

  <**label** for="floatingInputValue">Input with value</**label**>

</**form**>

**Browser support**

Bootstrap 4 supported Internet Explorer 10 and 11. However, there’s no such support for Internet Explorer on Bootstrap 5. It’s understandable since Microsoft has moved its effort towards Edge browser. Edge now uses the open source chromium engine, so it has the modern CSS and JavaScript features that the latest versions of Firefox and Chrome have.

Hence, the Bootstrap team dropped its support for Internet Explorer in the Bootstrap 5 version so that they can provide modern features, such as faster JavaScript, better APIs, and CSS variables.

**Bootstrap Icons**

The former Bootstrap version didn’t have a library for SVG icons. Developers had to settle for third-party libraries such as [Font Awesome](https://fontawesome.com/) to enable them use icons. However, this issue has been handled in Bootstrap 5, with its SVG library having over 1000 icons. The latest version release of this icon library is also present in the web font version.RTL Support

The RTL (Right-to-Left) support is also a new addition to Bootstrap 5. This allows you to develop the type of content that you need to write from the right-hand side of your page to the left-hand side. Consequently, it’s now easy to develop websites in certain languages such as Arabic, Urdu, Persian, Pashto and Sindhi. To write in these languages, you have to go from right to left on the page, hence it demands a specific style setting to accommodate your overall design

**Enhanced Grid System**

Bootstrap 5 retains the grid system, but enhances it by introducing an extra grid tier called xx1 to minimize the efforts needed to create responsive pages on higher resolution displays. The columns in version 5 lack the default relative position, and vertical spacing is addressed by adding classes. This means that it’ll require lesser effort to move [grid structure](https://getbootstrap.com/docs/4.0/layout/grid/) between the old and the new version.

**Site Generation**

Bootstrap 5 now uses [Hugo](https://gohugo.io/) for generating static sites instead of [Jekyll](https://jekyllrb.com/) (which it used previously). Hugo is faster and more popular as a site generator and can be implemented on Go.

**Placeholder Components**

With Bootstrap 5, it’s possible to load placeholders on the pages. This allows you to use the space meant for the components by putting placeholders in their stead while the actual content is still loading.

**Enhanced Form Elements**

Bootstrap 4’s [form elements](https://html-css-js.com/html/generator/form/) are known to default to the view provided by the browser. However, Bootstrap 5’s form elements come with a custom design that ensures a consistent look and feel on all browsers. It also introduces [new form controls](https://getbootstrap.com/docs/4.0/components/forms/) based on standard and semantic form controls. This ensures that developers don’t have to add extra markups for the form controls.

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

Multiple buttons can be placed together on a single line using button groups. You can use this to group objects together, such as alignment buttons.  
  
The .btn-group class is used for basic button groups. You can use the class .btn to wrap a set of buttons in .btn-group.

7.How can you use Bootstrap to make thumbnails?

To create thumbnails using Bootstrap −**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. Now that we have a basic thumbnail, it's possible to add any kind of HTML content like headings, paragraphs, or buttons into thumbnails.

8. In Bootstrap 4, what is flexbox?

**In**[**Bootstrap 4**](https://www.javatpoint.com/bootstrap-4)**, flex box is used to control the layout and alignment specification of Bootstrap 4 components. This box makes it easier to design flexible responsive layout structures without using float or positioning attributes.**

9.How can one create an alert in Bootstrap?

* To create alert box add .alert class to <div> tag.
* Add contextual classes within the alert box using .alert-success , alert-success , .alert-danger , .alert-warning.

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

A card in Bootstrap 4 is a bordered box with some padding around its content. It includes options for headers, footers, content, colors, etc.

<!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@3.6.1/dist/jquery.slim.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <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">

    <img class="card-img-top" src="img\_avatar1.png" alt="Card image" style="width:100%">

    <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>

</body>

</html>

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