

**Q #1) Define Bootstrap.**

**Answer:** Bootstrap is a front-end framework that is used for creating HTML, CSS, and JS web applications. Its layout is very responsive, easy and fast to use. It mostly focuses on building a mobile application with having design templates for creating UI like Dropdown, Forms, Buttons, Alerts Tab, etc.

**Q #2) Why Bootstrap is used for Mobile Web Development?**

**Answer:** It is used for Mobile Web development because it has responsive designs and templates which is easy to use.

**Q #3) Explain the features of Bootstrap.**

**Answer: Its Features include:**

- Open Source for use
- Compatibility with all browsers.
- Responsive designs
- Easy to use and fast.
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**Q #4) Define the key components of Bootstrap.**

**Answer: Its components include:**

- Scaffolding – It has the grid system, background, styles.
- JS Plugins – Contains JS and jQuery plugins.
- Customize – Can customize frameworks.
- CSS – Contains CSS files.
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**Q #5) What do you understand by Bootstrap container?**

**Answer:** Bootstrap container behaves like a container where you can put HTML code and it is a part within the page where the content of the site can be placed to make it responsive and fast.

**Q #6) What do you mean by Class loaders?**

**Answer:** ClassLoaders load java classes into JVM (Java Virtual Machine) and translate the classes into its correspondent binary form.

**Q #7) How many types of layouts are there in Bootstrap?**

**Answer:** There are two types of layouts in Bootstrap.

**They are:**

- Fluid Layout
- Fixed Layout

**Q #8) Define Fluid Layout.**

**Answer:** Fluid Layout is useful when you need to make an app which involves the full width of the screen i.e. Fluid Layout adjusts itself according to the browser size.

**Q #9) Define Fixed Layout.**

**Answer:** Fixed layout is responsive and easy to use but just like the fluid layout, it cannot adjust itself according to the browser size. Fixed Layout should be 940 px in most cases.

**Q #10) How can you display a code in Bootstrap?**

**Answer:** You can display the code in two ways i.e. by using the `<code>` tag and by using the `<pre>` tag.

**Q #11) When will you use `<code>` tag and `<pre>` tag?**

**Answer:** `<code>` tag is used to show the code inline and `<pre>` tag is used to show code with multiple lines.

**Q #12) What is a progress bar in bootstrap?**

**Answer:** Progress bar is used with HTML tag style in HTML element using `<progress>` keyword. In bootstrap we used html5 `<progress>` with CSS classes that have special features in bootstrap, that is only made for the progress bar.

**Q #13) Name the contextual classes that are used with the progressive bar in bootstrap.**

**Answer:** The contextual classes used with progressive bar are as follows.

- Progress-success
- Progress-info
- Progress-warning
- Progress-danger
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**Q #14) What are responsive utility classes in Bootstrap?**

**Answer:** Responsive utility classes in bootstrap are a set of classes which are used to conceal or exhibit the HTML elements based on screen resolution that discerns by media query in bootstrap.

**Example:** "hidden-md-down", It hides

**Q #15) What are the different button styles in Bootstrap?**

**Answer:** In bootstrap there are seven styles which we can use with the bootstrap button.

- .btn-default.
- .btn-primary
- .btn-success
- .btn-info
- .btn-warning.
- .btn-danger.
- .btn-link.
- 

**Q #16) What are Bootstrap alerts?**

**Answer:** This is used to create presume alert messages, which adds style to the messages to look more noticeable to the user.

There are four classes in alerts i.e .alert-success, .alert-info, .alert-warning, .alert-danger.

**Q #17) Define Bootstrap thumbnails.**

**Answer:** It is a way to use the layout images, videos, text etc. in a grid system. We can create thumbnails by adding a tag with the class **.thumbnails** around the image.

This will add four pixels of padding and a grey border.

**Q #18) Explain Modal plugin in Bootstrap.**

**Answer:** A model is an inherited window that is layered over its parent window. This is used to augment the user experience and adds different functionalities to the users.

Model windows are created with the help of the modal plugin.

**Q #19) Which class is used for pagination in Bootstrap?**

**Answer:** To add pagination on the webpage we have to use the class **.pagination**.

**Q #20) Explain what is Bootstrap collapsing elements.**

**Answer:** It allows you to collapse any particular element without using any JavaScript code.

To use this feature in bootstrap you have to add data-toggle="collapse" to the controller element along with a data target to automatically assign the control of a collapsible element. We can use this by writing **.collapse(options)** etc.

**Q #21) What is Bootstrap Well?**

**Answer:** Bootstrap well is a form of container which thrives or makes the content to look recessed on the web page. It also wraps the content by using **.well** class.

**Q #22) Explain the uses of carousel plugin in Bootstrap.**

**Answer:** Carousel plugin in bootstrap is used to make sliders in the web pages or your site. There are several carousel plugins that are used in bootstrap to display large contents within a small space by adding sliders.

**Example:** **.carousel(options)**, **.carousel('pause')**, **.carousel(cycle')**, **.carousel('prev')**, **.carousel('next')**.

**Q #23) What will be the output of the below code and why?**

```
<div class="progress">

<div class="progress-bar progress-bar-success" style="width: 65%">

<span class="sr-only">75% successfully completed</span>

</div>

<div class="progress-bar progress-bar-warning" style="width: 20%">

<span class="sr-only">30% completed with warnings</span>

</div>

<div class="progress-bar progress-bar-danger" style="width: 15%">

<span class="sr-only">15% did not complete</span>

</div>

</div>
```

**Answer:** If we place multiple bars with the same **.progress** parent element, Bootstrap will pile them into one single progress bar. As we know, in bootstrap the sum of the progress bar is 100 %. So, the progress bar will give the result as full width and fully populated.

**Q #24) How can we customize links of pagination in Bootstrap?**

**Answer:** We can customize the links by using **.disabled** for unclickable links and **.active** for indicating the current page.

**Q #25) Explain input group in Bootstrap.**

**Answer:** Input group in bootstrap are put out from controls. By using an input group, we can easily add prepended and appended text or button to the text-based inputs. We can prepend and append elements to a **.form-control** by taking all the elements in a `<div>` under a class **.input-group**. After that, place your extra content inside a `<span>` in same `<div>` by using class **.input-group-addon** after this you can place the `<span>` element either before or after the input element.

**Q #26) Write the ways to create a tabbed navigation menu in Bootstrap.**

**Answer:** We can create a tabbed navigation by making a basic unordered list with the base class of **.nav** and after this, we can add class **.nav-tabs**.

**Q #27) In Bootstrap, how can you create a pills navigation menu?**

**Answer:** Pills navigation menu in bootstrap is created by making an unordered list at first with the base class of **.nav** and after this add the class **.nav-pills**.

**Q #28) How navbar works in Bootstrap?**

**Answer:** In bootstrap, navbar is an eminent feature to make responsive meta component that works as navigation headers for your application and site. In mobile view, navbar collapses and become horizontal as the available viewport width increases.

#### Q #29) How we can create a navbar in Bootstrap?

**Answer:** To create a navbar in a bootstrap at first, we have to add the classes **.navbar**, **.navbar-default** to the <nav> tag. After this, we have to add the role="navigation" to the above element, and this will help in accessibility.

We have added a header class **.nav-header** to the <div> element, which will include an <a> element with a class navbar brand. From this, we will get a text with a larger size.

#### Q #30) What is Bootstrap breadcrumb?

**Answer:** Bootstrap breadcrumb is an efficient way to show hierarchy-based information for a site. This can show the dates of publishing, categories or tags in a blog. They also tell the user about the current page location within a navigational hierarchy.

So we can say that Bootstrap breadcrumb is simply an unordered list with a class of **.breadcrumb**.

#### Q #31) What are labels in Bootstrap?

**Answer:** Bootstrap labels are used for offering counts, tips or other things to provide markup on web pages. To use the label in Bootstrap we use the class **.labels** to indicate the labels.

#### Q #32) What are badges in Bootstrap?

**Answer:** Badges are homogeneous to labels, the main difference between them is corners are more rounded. The main work of badges in the bootstrap is to highlight new or unread items. To use badges just add <span class="badge"> to links and bootstrap navs.

#### Q #33) What is a jumbotron in Bootstrap?

**Answer:** It is used to increase the size of headings and to add a lot of margins for landing page content. To create a jumbotron we have to create a container <div> with the class of **.jumbotron**.

#### Q #34) How can we make image responsive in Bootstrap?

**Answer:** After the updates in Bootstrap, currently the feature to make an image responsive has been added, we can do this by adding a class **.img-responsive** to the <img> tag. This class makes the width max-width =100%; and height=auto; to the image so that it matches nicely to the parent element.

#### Q #35) What do you mean by normalize in Bootstrap?

**Answer:** Bootstrap normalize is a small CSS file which is used to make cross-browser consistency.

#### Q #36) What is lead body copy in Bootstrap?

**Answer:** It is used to add some ascent to the paragraph if we add class="lead". This will enlarge the font size and a taller line height.

#### Q #37) What are panels in Bootstrap?

**Answer:** Panels are components that are used when you want to put your DOM component in a box. So, to retrieve a basic panel we just need to add class.panel to the <div> element. We can also add class.panel-default to this element.

#### Q #38) How will you create a Bootstrap panel with heading?

**Answer:** There are two ways by which we can add panel heading.

First is, we can directly use **.panel-heading** class to add heading container in a panel and the second way is by using any heading tag like <h1> to <h6> with a **.panel-title** class to give more styles on the heading.

#### Q #39) What is a scrollspy plugin in Bootstrap?

**Answer:** It is an auto-updating nav plugin which allows in fetching section of the page based on the scroll position. This can be done by the **.active class** to the navbar based scroll position.

#### Q #40) What is the work of affix plugin in Bootstrap?

**Answer:** This plugin allows a <div> to be attached to a location on the page.

Use of the social icon in a page is an example for this in which we see that the icons will start in a location, but when the page hits on a certain mark it will block the <div> in place and will stop the scrolling for rest of the page.

**Q #41) What is grid system in Bootstrap?**

**Answer:** By using the grid system, we can make up to 12 columns across a page. There are different classes which have been defined for this for the UI purpose.

**Q #42) What are Grid classes in the Bootstrap?**

**Answer:** There are four grid classes in Bootstrap.

**They are:**

- xs (It is used for phone screens less than 768px wide).
- sm (It is used for the tablet screens which are greater than 768px wide).
- md (It is for small laptop screen of size equal to or greater than 992px wide).
- LG ( It is for laptop and desktop screens which are equal to greater than 1200px wide).
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**Q #43) What are global styles that are used in Bootstrap Default Typography?**

**Answer:** In Bootstrap the global default font-size is 14px and the line height is 1.428. The default font changes to Helvetica and Arial are with sans-serif fallback and all these styles are applicable for both body and all paragraphs.

**Q #44) What will be the output of the below code?**

```
<div  
  
class="row">  
  
  
<div class="col-xs-12 col-md-3">.col-xs-12 .col-md-3</div>  
  
</div>
```

**Answer:** The output of this will give the grids for extra small devices as we can see in the snippet col-xs-12 that has been used and it will also give the grids for desktop devices and above as the class col-md-3 has been used.

**Q #45) What dependencies does Bootstrap require to work properly?**

**Answer:** jQuery is the only dependency that bootstrap requires for working properly and this is only for JavaScript plugins in bootstrap.

**Q #46) Explain what the below code will do?**

```
<a href="#">Home <span class="badge">36</span></a>
```

**Answer:** This code will produce a link with an inline badge which will give an important notification to the user like number received, message received or the number of requests etc.

**Q #46) What are the two codes that are used for code display in Bootstrap?**

**Answer:** The codes are <code> tag and <pre> tag.

**Q #47) What is the difference between Bootstrap and Foundation?**

**Answer:** Bootstrap uses very fewer preprocessors as it supports less and it allows the designing and development for both mobile and desktop. On the other hand, Foundation supports sass processors and it is used only for mobile UI designing.

**Q #48) What are Glyphicons in Bootstrap?**

**Answer:** By this, we can use the icon simply anywhere in your code.

```
<span class="glyphicon glyphicon-search"></span>
```

**Q #49) What is a transition plugin in Bootstrap?**

**Answer:** It provides simple transition effects like sliding or fading in modals.

**Q #50) Explain the concept of creating a vertical or basic form in Bootstrap.**

**Answer:** For this first we have to add a role form to the parent `<form>` element then we have to wrap labels and controls in a `<div>` with class `.form-group` and then we have to add a class of `.form-control` to all text url `<input>`, `<textarea>` and `<select>` elements.

**1. Explain what media object in Bootstrap is and what are their types?**

Media objects in Bootstrap enables to put media object like image, video or audio to the left or right of the content blocks. Media element can be created using the class `.media` and the source is specified in using the class `.media-object`. Media-objects are of two types,

They are of two types

- `.media`
- `.media-list`
- 

**2. Explain what is Bootstrap well?**

Bootstrap well is a container `<div>` that makes the content to appear sunken or an inset effect on the page. In order to create a well, wrap the content that you would like to appear in the well with a `<div>` containing the class of `.well`.

**3. Explain what is Bootstrap Container?**

Bootstrap container is a class which is useful and creates a centred area within the page where our site content can be put within. The advantage of the bootstrap `.container` is that it is responsive and will place all our other HTML code.

**3. In Bootstrap what are the two ways you can display the code?**

In bootstrap you can display code in two ways

- `<code>` tag : If you are going to display code inline, you should use `<code>` tag
- `<pre>` tag: If you want to display the code as a standalone block element or it has multiple lines then you should use `<pre>` tag

**4. What is the use of Jumbotron in Bootstrap?**

In bootstrap, Jumbotron is generally used for content that you want to highlight like some slogan or marketing headline etc. in other words it is used to enlarge the size of the headings and to add a margin for landing page content

To use the Jumbotron in Bootstrap

- Create a container `<div>` with the class of `.jumbotron`

**5. What function you can use to wrap a page content?**

To wrap a page content you can use **.container** and using that you can also center the content.

**6. What are the types of layout available in Bootstrap?**

In Bootstrap there are two types of Layout available

- Fluid Layout: Fluid layout is used when you want to create a app that is 100% wide and use up all the width of the screen
- Fixed Layout: For a standard screen you will use fixed layout (940 px) option

**7. What are the key components of Bootstrap?**

The key components of Bootstrap are

- CSS : It comes with plenty of CSS files
- Scaffolding : It provides a basic structure with Grid system , link styles and background
- Layout Components : List of layout components
- JavaScript Plugins: It contains many jQuery and JavaScript plugins
- Customize: To get your own version of framework you can customize your components

#### **8. Explain why to choose Bootstrap for building the websites?**

There are few reason why we choose Bootstrap for building websites

- Mobile Support: For mobile devices it provides full support in one single file rather than in separate file. It supports the responsive design including adjusting the CSS based on the different types of device, size of the screen etc. It reduces extra effort for developers.
- Easy to learn: Writing application in bootstrap is easy if you know CSS and HTML
- Browser Support: It supports all the popular browsers like Firefox, Opera, Safari, IE etc.

#### **9. Explain what is Bootstrap?**

Bootstrap is a HTML, CSS, and JS framework for building the rich web applications with minimal effort. This framework emphasis more on building mobile web applications.