

Q1. How can you create Nav elements in Bootstrap?

Bootstrap offers various options for styling navigation elements. All of these use the same markup and base class `.nav`. You need to perform the following steps to create Tabular Navigation or Tabs:

- Start with a basic unordered list with the base class of `.nav`
- Add class `.nav-tabs`

Q2. What are glyphsicons? How to use them?

Glyphicons are icon fonts which can be used in your web projects. Glyphicons Halflings are not free and require licensing. However, their creator has made them available for Bootstrap projects without any cost.

To use the icons, you just have to use the following code just about anywhere in your code. Leave a space between the icon and text for proper padding.

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

Q3. What are the steps to create basic or vertical forms?

The steps involved in creating vertical or basic forms are:

- Firstly, a role form can be added to the parent `<form>` element.
- Next, you have to add appropriate spacing by wrapping labels and control in `<div>` and using the function `'class .form-group'`.
- Finally, apply the function `'class .form-control'` to different elements such as text url `<input>` , `<textarea>` and `<select>`

Q4. What do you mean by Bootstrap well?

Bootstrap well is nothing but a container that makes the content appear sunken. Sometimes it may also give an inset effect on the webpage. Thus, a developer can create a well and also wrap the content in the well with the help of `<div>` and class `.well`. The content would appear as per your wish.

Q5. What are the input groups in Bootstrap?

Input groups are extended Form Controls. You can easily prepend and append text or buttons to the text-based inputs with the help of input groups. Also, you can add common elements to the user's input. For example, you can add the dollar symbol, the `@` for a Twitter username, or anything else that might be common for your application interface.

To prepend or append elements to a `.form-control` you need to do the following:

- Wrap it in a `<div>` with class `.input-group`
- In the next step, place your extra content inside a `` with class `.input-group-addon`.
- Now place this `` either before or after the `<input>` element.

Q6. What is Bootstrap breadcrumb?

Breadcrumbs are a great way to show hierarchy-based information for a site. In the case of blogs, breadcrumbs can show the dates of publishing, categories, or tags. They indicate the current page's location within a navigational hierarchy.

A breadcrumb in Bootstrap is simply an unordered list with a class of `.breadcrumb`. The separator is automatically added by CSS.

Q7. How to create thumbnails using Bootstrap?

To create thumbnails using Bootstrap you need to do the following:

- Add an `<a>` tag with the class of `.thumbnail` around an image.
- It will add four pixels of padding and a gray border.
- Now, on hover, an animated glow will outline the image.

Q8. What is a Bootstrap Container?

A bootstrap container is a class which is useful and creates a central 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.

Q9. What is pagination in bootstrap and how are they classified?

Pagination is the handling of an unordered list by bootstrap. If you want to handle pagination, bootstrap provides the following classes:

- `.pagination`: To get pagination on your page you have to add this class
- `.disabled`, `.active`: Customize links by `.disabled` for unclickable links and `.active` to indicate the current page
- `.pagination-lg`, `.pagination-sm`: Use these classes to get different size item

Q10. What are bootstrap alerts and how will you create them?

Bootstrap Alerts provide a way to style messages to the user. They provide contextual feedback messages for typical user actions. You can add an optional close icon to alert. Also, you can add a basic alert by creating a wrapper `<div>` and adding a class of `.alert` and one of the four contextual classes.

Q11. How will you create a Bootstrap Dismissal Alert?

You need to follow a few steps to build a dismissal alert:

- First, you have to add a basic alert by creating a wrapper `<div>` and adding a class of `.alert` and one of the four contextual classes.
- Also add optional `.alert-dismissible` to the above `<div>` class.
- Next, you have to add a close button.
- Finally, use the `<button>` element with the `data-dismiss = "alert"` data attribute.

Q12. What are the steps to create a progress bar using bootstrap?

To create a basic progress bar, you need to do the following:

- Add a `<div>` with a class of `.progress`.
- Next, inside the above `<div>`, add an empty `<div>` with a class of `.progress-bar`.
- Add a style attribute with the width expressed as a percentage. For example, `style = "40%";` indicates that the progress bar was at 40%.

Q13. What are the bootstrap media objects?

The media objects are abstract object styles for building various types of components like blog comments, Tweets, etc. It features a left-aligned or right-aligned image alongside the textual content. The goal of the media object is to make the code for developing these blocks of information drastically shorter. And, this goal is achieved by applying classes to some of the simple markups.

Q14. What are the steps to create an animated progress bar using bootstrap?

The steps to create an animated progress bar are as follows:

- Add a `<div>` with a class of `.progress` and `.progress-striped`. Also add class `.active` to `.progress-striped`.
- Next, inside the above `<div>`, add an empty `<div>` with a class of `.progress-bar`.

- Add a style attribute with the width expressed as a percentage. For example, style = "60%"; indicates that the progress bar was at 60%.

Q15. What do you mean by column ordering in Bootstrap?

Column ordering is one of the most interesting features found in bootstrap. By using appropriate functions, the columns can be written easily and also in a defined order. You can also show them in another column. In order to change or alter the order of the column easily, the functions `.col-md-push-*` and `.col-md-pull-*` can be used.

Q16. What is the Bootstrap Grid System?

The Bootstrap Grid System is a responsive, mobile-first system that scales up to 12 columns as per the increase in the device or viewport size. The system features predefined classes for easy layout options and powerful mix-ins for generating effectively semantic layouts.

Q17. What Are Bootstrap Media Queries?

Media Queries in Bootstrap allow you to move, show and hide content based on viewport size. Here is an example to show the basic structure of Bootstrap grid:

```
<div class = "container">
  <div class = "row">
    <div class = "col-*-*"></div>
    <div class = "col-*-*"></div>
  </div>

  <div class = "row">...</div>
</div>

<div class = "container">....
```

Q18. What is Normalize in Bootstrap?

Bootstrap uses Normalize to establish cross-browser consistency.

Normalize.css is a modern, HTML5-ready alternative to CSS resets. It is a small CSS file that provides better cross-browser consistency in the default styling of HTML elements.

Q19. What are Bootstrap panels? Explain how to create a Bootstrap panel with a heading.

Bootstrap panel components are used for putting your DOM component in a box. To get a basic panel, simply add `.panel` and `.panel-default` classes to the `<div>` element. There are two ways of adding panel heading to a Bootstrap panel:

- Use any of the `<h1>`, `<h2>`, `<h3>`, `<h4>`, `<h5>`, or `<h6>` tags with a `.panel-title` class
- You can also use the `.panel-heading` class

Q20. What is the purpose of using the Scrollspy plugin?

The purpose of using the Scrollspy plugin in Bootstrap is that it allows you to target certain sections of the page based on the scroll position. Thereafter, you can add `.active` classes, based on the scroll position, to the Bootstrap navbar.

Q21. Why do we use the affix plugin in Bootstrap?

We use the affix plugin in Bootstrap for affixing a `<div>` to some certain location on a webpage. The plugin also allows toggling pinning on and off for the affixed `<div>`. Social icons are the most popular example of using the affix plugin in Bootstrap.

The affixed `<div>` starts from a particular location on the webpage and scrolls with it. However, after a certain mark, it will be locked in place, thus stopping scrolling with the rest of the webpage.

Q22. What is the Bootstrap Panel?

When there is a need for putting the contents in a bordered box with some padding around, the panel components are used. They can be created with the `.panel` class and content inside the panel consists of a `.panel-body` class. For creating a basic panel, you need to add class `.panel` to the `<div>` element and add class `.panel-default` to this element.

Q23. What is Button group and which class is used for basic button group?

Button groups allow multiple buttons to be stacked together on a single line. You can use this when you want to place items like alignment buttons together.

For basic button group, `.btn-group` class is used. Here, you can wrap a series of buttons with class `.btn` in `.btn-group`.

Q24. What will be the default Bootstrap look of the alert created with this following code:

```
div class="alert" role="alert">Warning! I'm missing something.</div>
```

Alert messages are used to provide feedback message and they usually require the attention of the user. Here it is important to note that Bootstrap Alerts don't have default class. If a contextual class such as `.alert-success`, `.alert-info`, `.alert-warning`, or `.alert-danger`, is not provided, a default gray alert will be created.

Q25. Why do we need to use Bootstrap?

Bootstrap provides major benefits to a developer. Some of them include:



- It is a free and open-source Web Designing Framework.
- Bootstrap has the support of all the web browsers like Internet Explorer, Google Chrome, Firefox, Opera, Safari, etc.
- It is a very powerful mobile first front-end framework.
- Also, it is very easy to start as one needs to have an idea of HTML and CSS only to work with it.
- We can design a responsive website through it which adjust to desktop, tablet, and mobile.
- It comprises functional built-in components which are easy to customize