Navigation

Bootstrap

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- Navigation

Navigation

(Bootstrap)

Bootstrap
(Navigation)

- Applications and websites have navigation bar for easy navigation across different content or web pages

- Bootstrap provides base and supporting classes for easy development of navigation bars

| B | Delhi | Bangalore | Mumbai | Search | Search |

Bootstrap
(Navigation Bar)

- Navigation bar is a navigation header which is placed at the top of the page

- Navigation bars are responsive, they collapse to vertically stack on mobile devices and become horizontal as viewport width increases

- Navigation bars and their contents are fluid by default

- Navigation bars can be toggled

Bootstrap
(Parts of Navigation Bar)

- A navigation bar has following components
  - Container
  - Header
  - Collapse
  - Utilities
- Container and header are applicable to BS3

Bootstrap
(Navigation - classes)

Class	Description
.navbar	The container class for creating basic navigation bar
.navbar-expand	• Always expanded navigation items and links • Do not use this class for vertical navigation bars
.navbar-expand-{bp}	To add responsive break points
.navbar-light	Theming class for light colours (used along with .bg-{value} classes or background-color)
.navbar-dark	Theming class for dark colours (used along with .bg-{value} classes or background-color)

Bootstrap
(Navigation - classes)

Class	Description
.navbar-header	Added to a container element that contains the navbar brand (logo or a header) and navbar toggle button
.navbar-brand	Added to a link or a header element inside the navbar to represent a logo or a header
.navbar-toggle	• Styles the button that should open the navbar on small screens • Often used together with three .icon-bar classes to indicate a toggleable menu icon (hamburger/bars)
.collapse	Toggle visibility; added the class to collapsible element
.navbar-collapse	To collapse the Navigation menu

Bootstrap
(Navigation - classes)

Class	Description
.navbar-nav	Wrapper class of the navigation items and links, added to 'unordered list' element
.nav-item	Navigation item class, added to 'list item' element
.nav-link	Navigation link class, added to 'anchor' element

Bootstrap
(Navigation – Component Alignment)

Class	Description
.navbar-left	To align the component left; applicable to Bootstrap v3
.navbar-right	To align the component right; applicable to Bootstrap v3
.ml-auto	To align the component left; applicable to Bootstrap v4
.mr-auto	To align the component right; applicable to Bootstrap v4

- Align nav links, forms, buttons, or text

Bootstrap
(Navigation Bar - Container)

- Navbar uses .container-fluid by default

- To make your navbar accessible be sure

  - To use <nav> element as the parent of navbar

  - Or, use <div> and add role="navigation"

- The role attribute identifies element for users of assistive technologies

- You have freedom to use .container-fluid or .container for divisions

- It depends on the width you need, no limitations

Bootstrap
(Navigation Bar - Container)

```html
<body>
<!-- Basic Navigation Bar, try with bg-light, bg-primary, bg- too -->
 <nav class="navbar navbar-dark bg-dark">
      <a class="navbar-brand" href="#">Navbar</a>
 </nav>
    <br>
 <nav class="navbar navbar-light" style="background-color: aqua">
      <a class="navbar-brand" href="#">Navbar</a>
 </nav>
</body>
```

Bootstrap
(Navigation Bar – Menu)

- Navbars require a wrapping .navbar with .navbar-expand-{sm | md | lg | xl } for responsive collapsing

- Links are added using HTML unordered list

  - tag with .navbar-nav class

  - tag with a .nav-item class

  - <a> tag with a .nav-link class

Bootstrap
(Navigation Bar – Menu)

```html
<ul class="navbar-nav">
   <li class="nav-item active"> <a class="nav-link" href="#">Home</a>
   </li>
   <li class="nav-item"> <a class="nav-link" href="#">Delhi</a>
   </li>
   <li class="nav-item"> <a class="nav-link" href="#">Mumbai</a>
   </li>
   <li class="nav-item"> <a class="nav-link disabled"
href="#">Disabled</a>
   </li>
</ul>
```

Bootstrap
(Parts of Navigation Bar - Header)

- The .navbar-header is the wrapper class for navigation header components

- It wraps both navbar brand and navbar toggle button and renders them properly

- .navbar-header class is applicable to Bootstrap v3

Bootstrap
(Parts of Navigation Bar - Header)

```html
<nav class="navbar navbar-light bg-light">
 <div class="navbar-header">
        <!-- Brand Logo -->
    <a class="navbar-brand" href="#">
    <img src="./images/bootstrap-solid.svg" width="30" height="30" alt="image">
    </a>
        <!-- Toggle button -->
    <button class="navbar-toggler" type="button" data-toggle="collapse">
        <span class="navbar-toggler-icon"></span>
    </button>
 </div>
</nav>
```

Bootstrap
(Navigation Bar – Header - Brand)

- Navbar Brand
  - Holds the brand logo or company name

Logo

Bootstrap
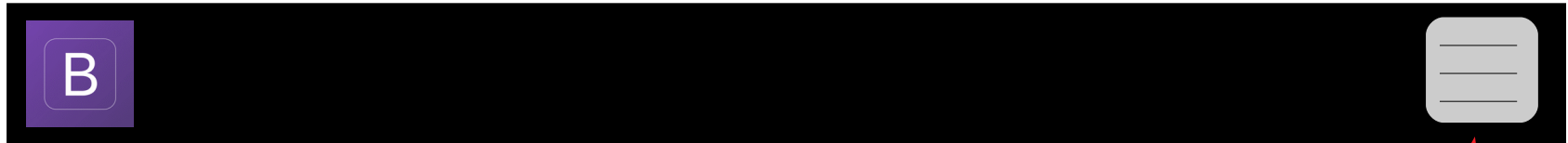## (Navigation Bar – Header - Toggle)

- Navbar Toggle - handles collapsing the navbar content

- Navbar (except navbar brand) will be hidden by default on mobile screens

- When web page is displayed on mobile screen, the only visible pieces will be the navbar brand and the toggle button

- You should click toggle button to view navigation controls

- The button itself is hidden on larger screens (by default, it's hidden on screens larger than 768px)

Bootstrap
(Navigation Bar – Header - Toggle)

| B | Home | Delhi | Mumbai | Disabled |

On Desktop

| B | | | ☰ |

On Mobile

Toggle button

Bootstrap
(Navigation Bar – Header - Toggle)

- The button is defined by the two classes .navbar-toggler .collapse

- Be sure to add data-toggle="collapse", this attribute tells JavaScript that it controls the collapsing behaviour

- The data-toggle attribute needs to be accompanied with its target

Bootstrap
(Navigation Bar – Header - Toggle)

- The data-target="" should contain the id of the box wrapping hidden components

- So if you'll wrap your components in a box with id="example", then data-target of the button should be data-target="#example"

- The aria-expanded="" attribute defines the initial state of the hidden components for screen readers

- If it's false that means it's hidden, if true it's visible

Bootstrap
(Navigation Bar – Collapse)

- The navbar collapse is the component which wraps the remain components of the navbar (such as navbar menu, navbar buttons, , forms etc)

- In other words, it wraps all navbar components except .navbar-header

- It's defined by the two classes .collapse and .navbar-collapse

Bootstrap
(Navigation Bar – Collapse)

- Contrary to the navbar toggle button, navbar collapse is visible by default on larger screens and hidden on smaller ones

- On smaller screens, it is switched from hidden to visible and vice versa by clicking navbar toggle button

Bootstrap
(Navigation Bar – Collapse)

```html
<div class="collapse navbar-collapse" id="my-menu">
   <ul class="navbar-nav">
      <li class="nav-item active">
         <a class="nav-link" href="#">Home</a>
      </li>
      <li class="nav-item">
         <a class="nav-link" href="#">Delhi</a>
      </li>
   </ul>
</div> <!-- Collapse End -->
```

Bootstrap
(Navigation Bar - Dropdown)

- A dropdown menu is a toggleable menu that allows the user to choose one value from a predefined list

Class	Description
.dropdown	Base wrapper class for dropdown menu
.dropdown-toggle	Added to button or link for toggle control
.dropdown-menu	Added to element to build the dropdown menu
.dropdown-item	Added for item in the menu list

Bootstrap
(Navigation Bar - Dropdown)

```html
<!-- Wrapper class -->
<li class="nav-item dropdown">
    <!-- Toggle control -->
    <a class="nav-link dropdown-toggle" href="#" id="my-dropdown" data-toggle="dropdown">Dropdown</a>
    <!-- Build menu here -->
    <div class="dropdown-menu">
        <a class="dropdown-item" href="#">Action A</a>
        <a class="dropdown-item" href="#">Action B</a>
        <a class="dropdown-item" href="#">Action C</a>
    </div>
</li>
```

Bootstrap
(Navigation Bar - Vertical)

- Do not use .navbar-expand class

```html
<nav class="navbar navbar-light bg-light">
   <ul class="navbar-nav">
      <li class="nav-item active">
         <a class="nav-link" href="#">Home</a>
      </li>
      <li class="nav-item">
         <a class="nav-link" href="#">Delhi</a>
      </li>
   </ul>
</nav>
```

Bootstrap
(Navigation Bar - Colored)

- Use any of the .bg-color classes to change the background color of the navbar

  - .bg-primary, .bg-success, .bg-info, .bg-warning, .bg-danger, .bg-secondary, .bg-dark and .bg-light

- Set custom color with style="background-color: aqua"

- Add a white text color to all links in the navbar with the .navbar-dark class

- Or use the .navbar-light class to add a black text color

Bootstrap
(Navigation Bar - Utilities)

- Bootstrap provides some pre-defined classes that control alignment and the positioning of navigation bar and its components

    - Positioning

    - Alignment

    - Themes

Bootstrap
(Navigation Bar – Utilities - Positioning)

- Fixed navigation bar stays visible in a fixed position (top or bottom) independent of the page scroll

- .fixed-top class fixes the navigation bar at top

- .fixed-bottom class fixes the navigation bar at bottom

- .sticky-top class fixes the navbar at the top of the page when you scroll past it

Bootstrap
(Navigation Bar – Utilities - Alignment)

- Align nav links, forms, buttons, or text, using

  - .navbar-left or .navbar-right utility classes for BS3

  - Both classes will add a CSS float in the specified direction

  - Classes .ml-auto and .mr-auto along with .justify-content-* for BS4

Bootstrap
(Navigation Bar – Utilities - Themes)

- .navbar-dark : for dark color theme and white text

- .navbar-light : for light color theme and black text

- Use bg-* classes to set the color of the navigation bar

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Thank you

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