

Bootstrap 4 Navbar

The Navbar in Bootstrap 4 is a versatile component for creating navigational headers in web applications. It provides a range of styles and behaviors to create responsive navigation menus. Here's an overview of its features and usage:

Basic Structure

A basic Bootstrap 4 Navbar consists of the `.navbar` class with additional utility classes to define its appearance and behavior.

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle
navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav">
      <li class="nav-item active">
        <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Features</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Pricing</a>
      </li>
      <li class="nav-item">
        <a class="nav-link disabled" href="#">Disabled</a>
      </li>
    </ul>
  </div>
</nav>
```

Key Classes and Attributes

`.navbar`: The main container for the navbar.

`.navbar-expand-lg`: Makes the navbar responsive, collapsing on smaller screens.

`.navbar-light` / `.navbar-dark``**: Defines the color scheme of the navbar.

`.bg-light` / `.bg-dark``**: Applies background colors.

`.navbar-brand``**: Used for the brand/logo link.

`.navbar-toggler``**: The button for toggling the collapsed menu.

`.collapse` / `.navbar-collapse``**: Wrapping the collapsible menu items.

`.navbar-nav``**: The container for the navigation links.

`.nav-item``**: Individual navigation items.

`.nav-link``**: Styling for the navigation links.

Responsive Behavior

The ``.navbar-expand-lg`` class makes the navbar responsive. It expands the navbar on large screens and collapses it on smaller screens. The navbar toggler button, identified with the ``.navbar-toggler`` class, controls the collapse and expansion of the navbar.

Customization

Bootstrap 4 provides utility classes for further customization:

Color Schemes: ``.navbar-light`` and ``.navbar-dark`` for different color schemes.

Backgrounds: ``.bg-primary``, ``.bg-secondary``, ``.bg-success``, etc., for background colors.

Alignment: ``.ml-auto`` and ``.mr-auto`` for aligning navbar items.

Navbar with Forms and Other Elements

You can include forms, buttons, text, and other elements within the navbar.

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup" aria-
expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
    <div class="navbar-nav">
      <a class="nav-item nav-link active" href="#">Home <span class="sr-
```

```

only">(current)</span></a>
  <a class="nav-item nav-link" href="#">Features</a>
  <a class="nav-item nav-link" href="#">Pricing</a>
  <a class="nav-item nav-link disabled" href="#">Disabled</a>
</div>
<form class="form-inline ml-auto">
  <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-
label="Search">
  <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>
</form>
</div>
</nav>

```

Dropdowns in Navbar

Dropdowns can be easily integrated into the navbar.

```

<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNavDropdown" aria-controls="navbarNavDropdown" aria-
expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNavDropdown">
    <ul class="navbar-nav">
      <li class="nav-item active">
        <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Features</a>
      </li>
      <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdownMenuLink"
role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
          Dropdown
        </a>
        <div class="dropdown-menu" aria-labelledby="navbarDropdownMenuLink">
          <a class="dropdown-item" href="#">Action</a>
          <a class="dropdown-item" href="#">Another action</a>
          <a class="dropdown-item" href="#">Something else here</a>
        </div>
      </li>
    </ul>
  </div>

```

```
</li>
</ul>
</div>
</nav>
```

Final Notes

Customizing with CSS: While Bootstrap provides many utility classes, further customization can be achieved with custom CSS.

JavaScript Dependencies: Ensure you include Bootstrap's JavaScript and its dependencies (jQuery and Popper.js) for interactive components like the navbar toggler and dropdowns to function properly.