# COURSEWARE

# Bootstrap Collapse

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## Overview

As well as providing all the tools to easily create a great looking navigation bar, bootstrap also provides a feature called **collapse**, which allows us to create a collapsable navigation bar.

## Tutorial

We already have a simple implementaton of a navigation bar using bootstrap.

```html
<body>
    <nav class="navbar navbar-light bg-light">
        <a href="link/to/page" class="navbar-brand">My Company</a>
        <ul class="navbar-nav">
            <li class="nav-item">
                <a href="link/to/login" class="nav-link">Login</a>
            </li>
            <li class="nav-item">
                <a href="link/to/home" class="nav-link">Home</a>
            </li>
            <li class="nav-item">
                <a href="link/to/memes" class="nav-link">Memes</a>
            </li>
        </ul>
    </nav>
</body>
```

In order for collapse to grab only the items we want, we need to surround the `<ul class="navbar-nav">` in a `<div class="collapse navbar-collapse">`

Like so:

```html
<body>
    <nav class="navbar navbar-light bg-light">
        <a href="link/to/page" class="navbar-brand">My Company</a>
        <div class="collapse navbar-collapse">
            <ul class="navbar-nav">
                <li class="nav-item">
                    <a href="link/to/login" class="nav-link">Login</a>
                </li>
                <li class="nav-item">
                    <a href="link/to/home" class="nav-link">Home</a>
                </li>
                <li class="nav-item">
                    <a href="link/to/memes" class="nav-link">Memes</a>
                </li>
            </ul>
        </div>
    </nav>
</body>
```

Now, if you test out this code, you'll see that our navigation bar is gone!
The problem is that we've made a collapsible navigation bar, but with no way to expand it.

So, let's add a button that will do this for us.
The buttons to do this in HTML would look out of place - Bootstrap's version is rather nicer:

```html
<button class="navbar-toggler" data-bs-toggle="collapse">
    <span class="navbar-toggler-icon"></span>
</button>
```

Let's implement this into our code:

```html
<body>
    <nav class="navbar navbar-light bg-light">
        <a href="link/to/page" class="navbar-brand">My Company</a>
        <button class="navbar-toggler" data-bs-toggle="collapse">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse">
            <ul class="navbar-nav">
                <li class="nav-item">
                    <a href="link/to/login" class="nav-link">Login</a>
                </li>
                <li class="nav-item">
                    <a href="link/to/home" class="nav-link">Home</a>
                </li>
                <li class="nav-item">
                    <a href="link/to/memes" class="nav-link">Memes</a>
                </li>
            </ul>
        </div>
    </nav>
</body>
```

We now need to assign a target for the button - we do this with the `data-bs-target` tag, and by assigning the same `id` to our `<div>`:

```html
<body>
    <nav class="navbar navbar-light bg-light">
        <a href="link/to/page" class="navbar-brand">My Company</a>
        <button class="navbar-toggler" data-bs-toggle="collapse" data-bs-target="#hasToMatch">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="hasToMatch">
            <ul class="navbar-nav">
                <li class="nav-item">
                    <a href="link/to/login" class="nav-link">Login</a>
                </li>
                <li class="nav-item">
                    <a href="link/to/home" class="nav-link">Home</a>
                </li>
                <li class="nav-item">
                    <a href="link/to/memes" class="nav-link">Memes</a>
                </li>
            </ul>
        </div>
    </nav>
</body>
```

Brilliant! We have now implemented our collapsible navigation bar.
The final step is to import our **JavaScript** packages.

The specific import you need will be dependent on the Bootstrap template you are using, so *please* check the relevant documentation for that template (they're easily-Googleable).
For the purposes of this tutorial, we'll use Bootstrap's bog-standard Getting Started scripts, which can be found here.

Remember: CSS gets imported in the `<head>` tag! JavaScript gets imported at the end of the `<body>` tag!

Pulling everything together, this should look something like the following:

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <title>Bootstrap Tutorial</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta1/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"
crossorigin="anonymous">
</head>

<body>
    <nav class="navbar navbar-light bg-light">
        <a href="link/to/page" class="navbar-brand">My Company</a>
        <button class="navbar-toggler" data-bs-toggle="collapse" data-bs-
target="#hasToMatch">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="hasToMatch">
            <ul class="navbar-nav">
                <li class="nav-item">
                    <a href="link/to/login" class="nav-link">Login</a>
                </li>
                <li class="nav-item">
                    <a href="link/to/home" class="nav-link">Home</a>
                </li>
                <li class="nav-item">
                    <a href="link/to/memes" class="nav-link">Memes</a>
                </li>
            </ul>
        </div>
    </nav>
     <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta1/dist/js/bootstrap.bundle.min.js"
        integrity="sha384-
ygbV9kiqUc6oa4msXn9868pTtWMgiQaeYH7/t7LECLbyPA2x65Kgf80OJFdroafW"
        crossorigin="anonymous"></script>
</body>

</html>
```

## Exercises

There are no exercises for this module.