

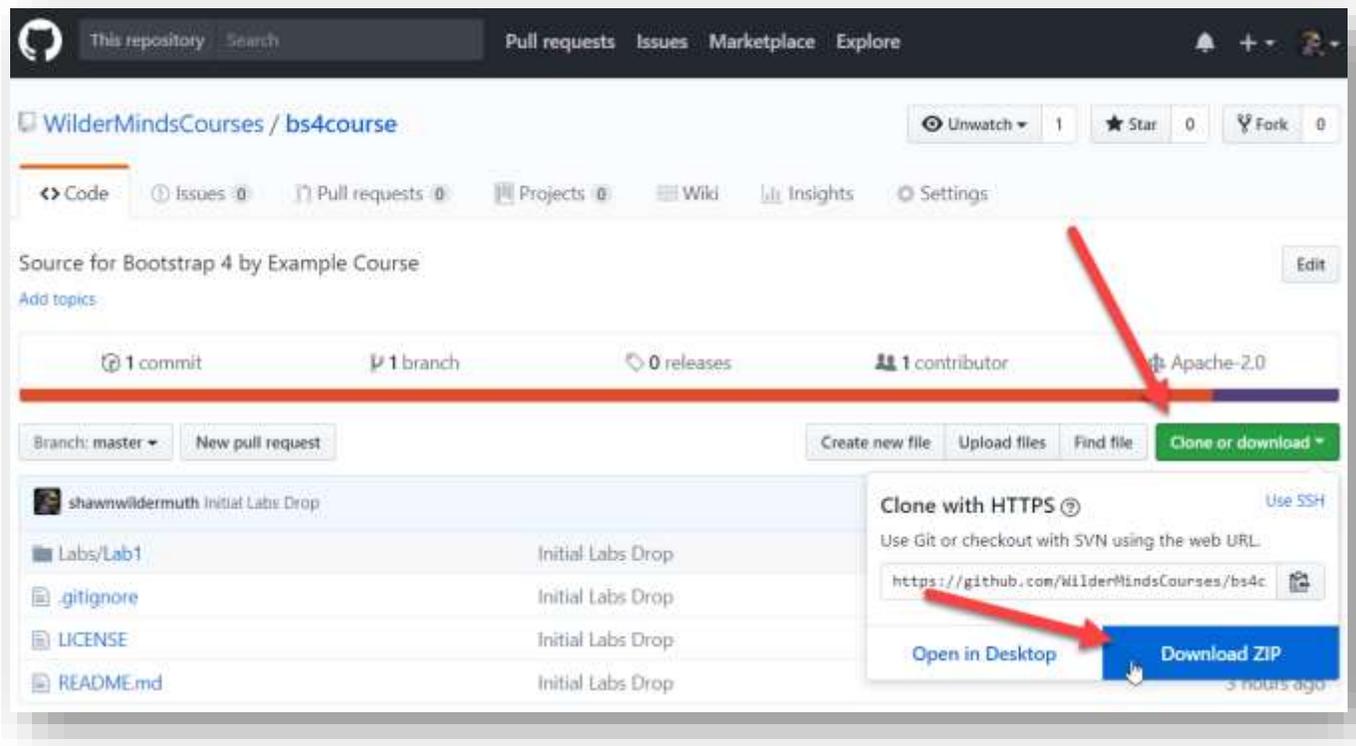


Bootstrap 4 by Example

Lab 1 Instructions

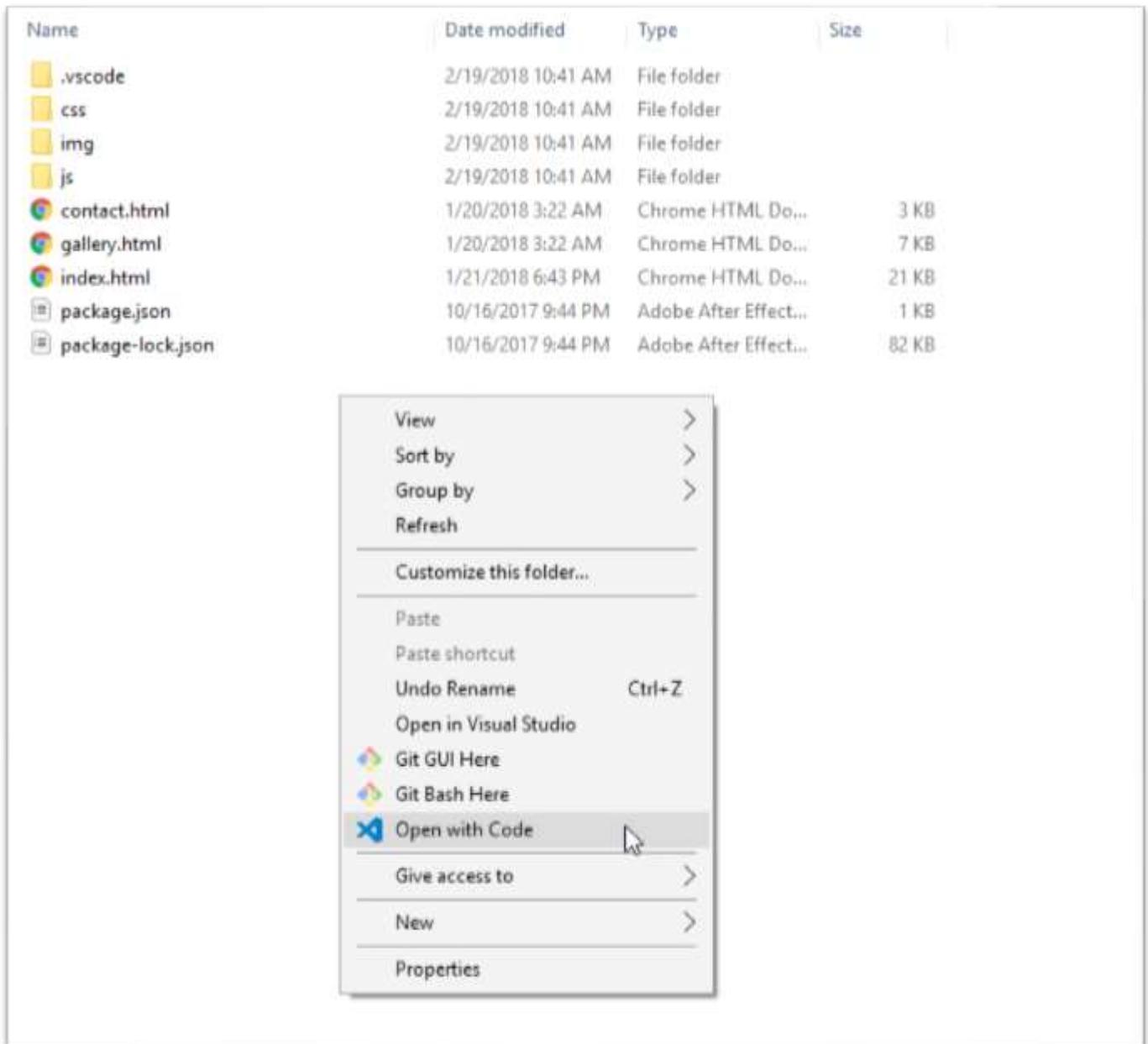
Shawn Wildermuth, Instructor

1. Get the Source Code
 - a. If you've already downloaded the source code for the course, please move onto section 2.
 - b. Open a browser and go to <https://github.com/WilderMindsCourses/bs4-course>
 - c. Click the "Clone or Download" Drop-down.
 - d. Click the "Download Zip" option.



- e. Save the .zip file wherever you want (or just to the Desktop if you prefer).
- f. Unzip the .zip file.

- g. Open the “labs/Lab1/before” directory in your favorite text editor (Visual Studio Code, Visual Studio 2017, Visual Studio for Mac, or other editor like Sublime):



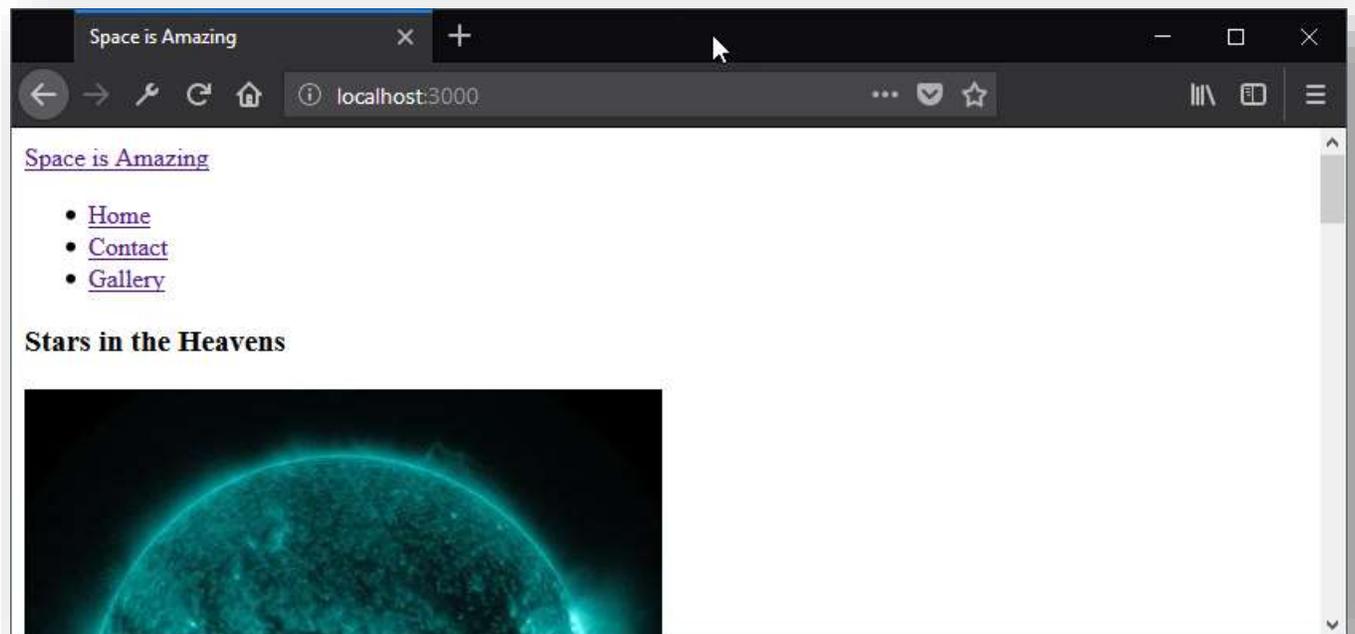
2. Start the project running
 - a. If you don't have npm/node installed, you'll need to do that step separately (<https://nodejs.org/en/>)
 - b. Open a console/terminal in the same directory as project.
 - c. Install the dependencies with npm: **"npm install"**:

```
D:\courses\BS4\BS4Course\Labs\Lab1\before>npm install
```

- d. Once it installs the dependencies, type **"npm start"** to start the site running:

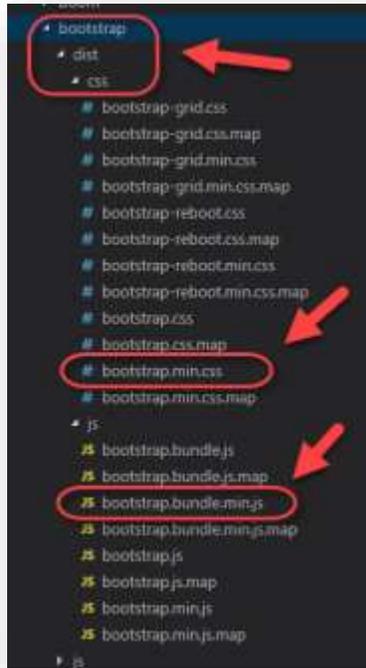
```
D:\courses\BS4\BS4Course\Labs\Lab1\before>npm start
```

- e. It should launch a browser, if it does not, open a browser at <http://localhost:3000/>



- f. Now you're ready!

3. Add Bootstrap 4 to your project
 - a. In the project folder, open up the **index.html** file.
 - b. Open the node_modules folder to find the bootstrap folder:



- c. In the bootstrap/dist/css folder find the bootstrap.min.css file.
- d. In the header of the index.html file, add a CSS link to that file above the site-wide CSS:

```
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<title>Space is Amazing</title>
```

```
<link rel="stylesheet" href="/node_modules/bootstrap/dist/css/bootstrap.min.css">
```

```
<link rel="stylesheet" href="/css/site.css">
```

```
</head>
```

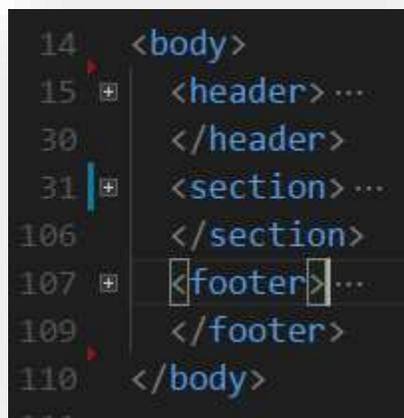
- e. In between the end body tag and the end HTML file add, both jQuery and Bootstrap .js files:

```
</body>
```

```
<script src="/node_modules/jquery/dist/jquery.slim.min.js"></script>
<script src="/node_modules/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
```

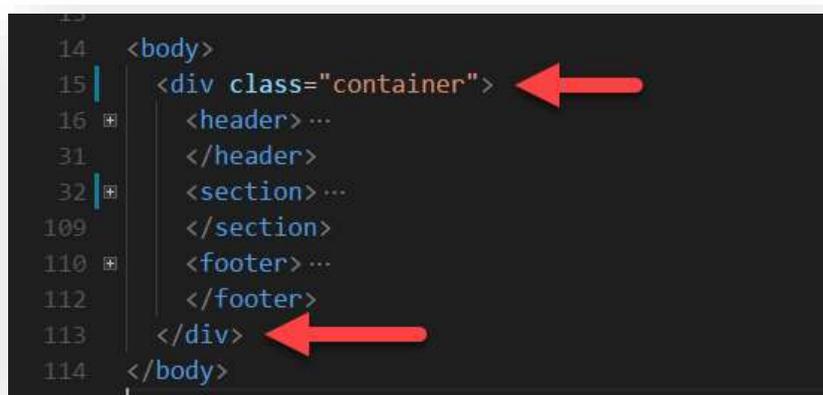
```
</html>
```

- f. Note that you only need the slim version of jQuery, but you might want the full version if you need other functionality in jQuery. But Bootstrap doesn't require it.
- g. Return to the browser and you should see that the font has changed (and that's about it).
- h. Notice that the body is made up of three main sections:

A screenshot of a code editor with a dark background. The code shows the structure of the body element. Line 14 is <body>. Line 15 is <header> ... with a plus sign icon to its left. Line 30 is </header>. Line 31 is <section> ... with a plus sign icon to its left. Line 106 is </section>. Line 107 is <footer> ... with a plus sign icon to its left. Line 109 is </footer>. Line 110 is </body>.

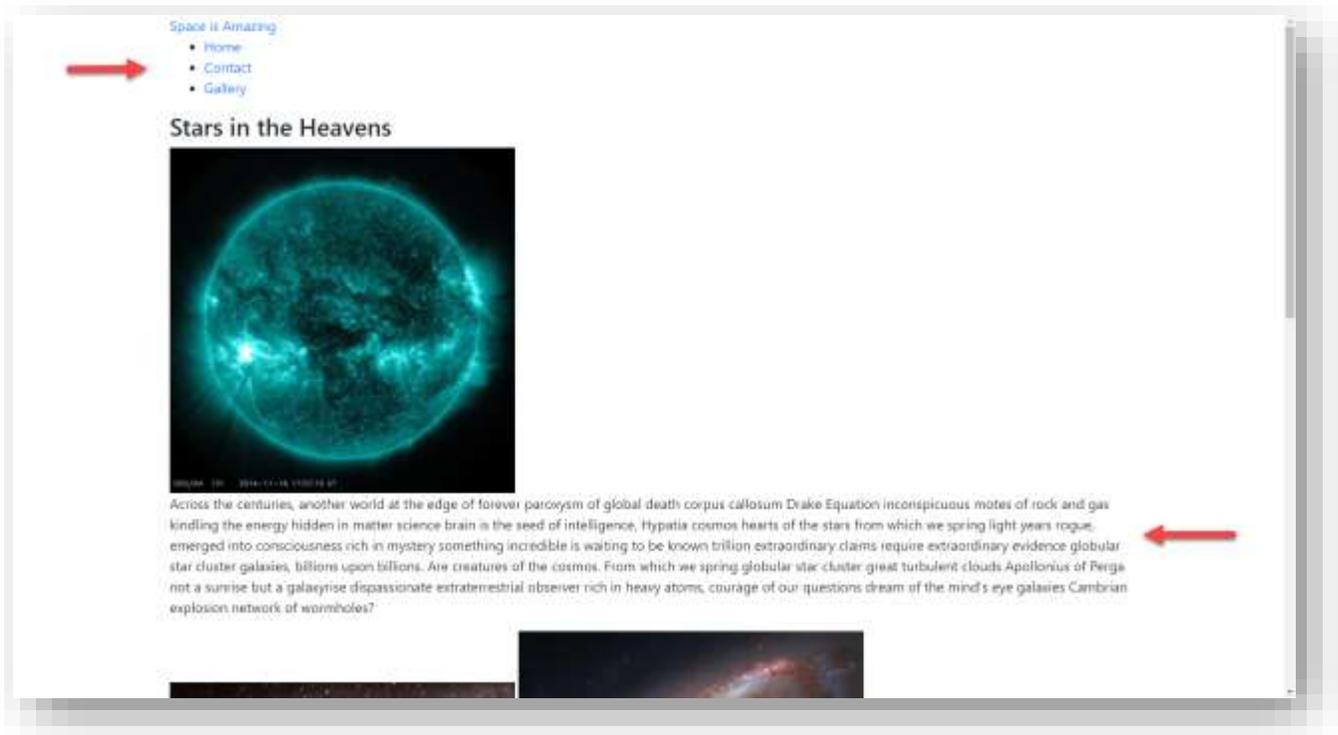
```
14 <body>
15 <header> ...
30 </header>
31 <section> ...
106 </section>
107 <footer> ...
109 </footer>
110 </body>
```

- i. Wrap all three in a div and set it's class to "container":

A screenshot of a code editor with a dark background. The code shows the body element wrapped in a container div. Line 14 is <body>. Line 15 is <div class="container"> with a red arrow pointing to the class attribute. Line 16 is <header> ... with a plus sign icon to its left. Line 31 is </header>. Line 32 is <section> ... with a plus sign icon to its left. Line 109 is </section>. Line 110 is <footer> ... with a plus sign icon to its left. Line 112 is </footer>. Line 113 is </div> with a red arrow pointing to the closing tag. Line 114 is </body>.

```
14 <body>
15 <div class="container">
16 <header> ...
31 </header>
32 <section> ...
109 </section>
110 <footer> ...
112 </footer>
113 </div>
114 </body>
```

j. Go back to the browser and you'll see:



k. Notice that the site is now centered.