

Breakroom: Project Setup

Due: By next class

Grading: 20 points possible

This exercise covers downloading assets for the course web project, some initial set up, and uploading the project files to a web host. But before doing so, there are 3 key pieces of software you will need and all are free: a browser, a code editor, and a program called Scout. For the browser, I am recommending the use of Google Chrome. Chrome has a great feature for developers called Developer Tools (DevTools for short) that should soon prove indispensable to you and that I will make extensive use of throughout the course. For code editors, I recommend using Brackets, an open source Adobe effort. It's free and I'll be using it exclusively for my demos. Note using Brackets is not a requirement, you can use whatever code editor you are comfortable with. Lastly, Scout is a graphical tool for working with Sass, a CSS preprocessing language that you will learn in the coming weeks.

Breakroom is the name of the web project for this course. It is made up of six pages: home, about, services, portfolio, blog, and contact. The breakroom project folder you will download contains the following:

breakroom

- **index.html** header and footer template file
- **images** image assets
- **partials** individual page content loaded into index.html
 - home.html
 - about.html
 - services.html
 - portfolio.html
 - blog.html
 - contact.html
- **screenshots** individual page mockups

These project assets form the basis for what will eventually become a single page web application that harnesses two powerful frameworks: Twitter Bootstrap and AngularJS. Bootstrap will provide the foundation for front-end layouts and styling, AngularJS power the single page application behaviour. To these you will add custom CSS specific to the Breakroom design and a smattering of JavaScript.

Exercise details:

- Download project assets and place in local directory
- Add link to Twitter Bootstrap CSS framework via CDN
- Add link to Font Awesome icon library via CDN
- Add link to jQuery JavaScript library via CDN
- Add link to AngularJS framework via CDN
- Upload project assets to web host and create remote directory

Directions

Download project assets from Dropbox

1. Launch a browser and go to: <https://www.dropbox.com/s/3y97sfuz6bh120s/breakroom.zip?dl=0>
2. Click the Download button and move the uncompressed *breakroom* folder from the download location to your mobile drive or a local folder on your workstation.

Content Delivery Networks

The next series of steps will have you link the main project file, *index.html*, to a series of frameworks and libraries. These resources are hosted remotely on content delivery networks (CDN), which are servers designed to deliver hosted code libraries fast to the end user.

Link Bootstrap CSS framework

3. Launch a code editor and open *index.html*.
4. Between the head tags, add a link to the Twitter Bootstrap CDN:

```
<link href="https://maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
rel="stylesheet">
```

Link Font Awesome icon library

Font Awesome is a font-based icon library that the Breakroom design makes extensive use of.

5. Next, below the Bootstrap link, add a link to the Font Awesome CDN:

```
<link
href="https://maxcdn.bootstrapcdn.com/font-awesome/4.2.0/css/font-awesome.min.css"
rel="stylesheet">
```

Link jQuery JavaScript library

jQuery is a JavaScript library that uses CSS selector syntax to target and manipulate web page markup. It is also a requirement to use some of Bootstrap's JavaScript components like the carousel (which we are going to use).

Notes

- The links to JavaScript resources get placed at the bottom of *index.html*, just before the body close tag
- The jQuery link needs to be placed first, before links to other JS resources that are dependent on jQuery

6. At the bottom of *index.html*, just before the *body* close tag, add the following link to the jQuery CDN:

```
<script src="http://code.jquery.com/jquery.js"></script>
</body>
```

Link Bootstrap JavaScripts components library

7. Between the jQuery link and the closed *body* tag, add the following link to the Bootstrap JavaScript components CDN:

```
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
>
```

Link AngularJS library

8. Between the Bootstrap JavaScript link and the closed *body* tag, add the following links to the following AngularJS resources:

```
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.2.25/angular.min.js"></script>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.2.25/angular-route.min.js">
</script>
```

Transfer project folder to web host

You are free to use your own private web host to house the course project. If you do not have one, one option to consider is Neocities, a free web host. They only provide 20mb of storage space but that should be sufficient for this project: <https://neocities.org>

9. Use an FTP client like Fugu or Filezilla to transfer your project folder to your remote account.

Test it!

10. Launch a web browser, go to your project URL, and make sure that your index page displays.

Notify instructor when exercise is complete

11. Email me the URL to your remote *breakroom* project.

For next class

- Article <http://csswizardry.com/2014/08/advice-to-budding-front-end-developers/>
- Bootstrap <http://getbootstrap.com> (look over website)
- Font Awesome <http://fontawesome.github.io/Font-Awesome> (look over website)
- AngularJS <https://angularjs.org> (look over website)