Chapter 1 - Using JQuery

What is JQuery?

Javascript is the third main client side technology (along with HTML and CSS). Unlike HTML and CSS, which are markup languages, Javascript is a programming language - you can use it to do calculations (and pretty much anything you want!). This means that you could also use it as a server-side language, e.g. NodeJS.

JavaScript can be quite complicated to learn, and tedious for basic functionalities. jQuery is a JavaScript library that is useful for building interactive webpages.

Recap: A library is an implementation of an API; it is a set of functions that a developer can call, usually organised into classes. It contains the compiled code that implements the functions and protocols (maintains usage state).

jQuery is so common in webpages that, for beginners, 'learning JavaScript' has in many cases become 'learning jQuery'. This is the approach that we're going to take in this course.

If you want to use Bootstrap and JQuery

If you're trying to use the [Bootstrap JQuery plugins](#), you need to include both the JQuery library and Bootstrap's Javascript, so add this code:

```
<!-- jQuery library -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>

<!-- Latest compiled Bootstrap JavaScript -->
<script src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></script>
```

W3Schools has good documentation of getting started with Bootstrap:
http://www.w3schools.com/bootstrap/bootstrap_get_started.asp

Activity

1. Open up your Sam's Sarnies site you've been working on in Sublime Text and include the code to add JQuery and the Bootstrap JavaScript in the <head>
    a. (if you already included it last week, skip ahead to the next exercise)

Chapter 2 - Things you can use JQuery for

Drop-down menus

Check you've included the Bootstrap and JQuery stuff above, then look at this section:
http://getbootstrap.com/javascript/#dropdowns

Popup boxes

In web development, popups usually refer to those things that come up in separate little windows on your computer, whereas the boxes that popup inside the website are known as 'modals'. Check you've included the Bootstrap and JQuery stuff above, then look at this section:
http://getbootstrap.com/javascript/#modals

Image slideshows/carousels

Lots of sites include big revolving images at the top of the page, or maybe images of a product you can click through to see more of. Bootstrap already has some of these options included. Check you've included the Bootstrap and JQuery stuff above, then look at this section:

http://getbootstrap.com/javascript/#carousel

Activity

2. Add an image carousel to the Sam's Sarnies site you worked on last week
   a. (if you want to use the pug images, you can find them here: https://drive.google.com/folderview?id=0Bwo5bTC_RuNia2EzQjFXa0Y0RDQ&usp=sharing)
3. Either from the list above, or from the bootstrap documentation (http://getbootstrap.com/javascript), try adding another feature using JQuery to your Sam's Sarnies site

Chapter 3 - Projects

Feel free to have a look at the main syllabus document for Week 4 and ask us any questions you have.

We've also created (and will add to) a **document of additional ideas** for things you can include in your project using JavaScript/JQuery or more advanced HTML/CSS:

https://docs.google.com/document/d/1u8yT5evLWzAW3O9TGAfFhd7olPRDWc1bhTmXeaNBXVY/edit?usp=sharing

Competition Guidelines

The CF:G competition is a chance for students to put into practice the skills learnt on the course. Students can work individually or in groups of 2-3 to create a landing page for a website.

The criteria for the competition are:

- A visually appealing design - good use of CSS, HTML elements, and Twitter Bootstrap
- Good formatting
    - Code split into the appropriate files
    - Files indented properly
- A live website (Github page, Heroku or own domain)
- Extras e.g.
    - A contact form (for example name and email)
    - Social buttons
    - As many different HTML elements you can manage

    Interactive elements (like forms) on the website don't need to be functional, but should be present if they need to be for the visual aspect of the design.
- (optional) Good organisation
    - Version control using GitHub
    - Sensible commit messages

Some of the winning entries from last term's competition can be found [here](#).

There'll be prizes of Amazon vouchers for the winning team and a chance to be pitched alongside the winning entries from courses around the U.K. for a grand prize.