Lab 3: Building a UI for an API

# The objective of this lab is to

* Use AJAX to call an interface
* Learn JSON
* Create a User Interface for someone else’s back-end
* The idea is show the interaction between HTML, and someone else’s backend data.

# Requirements

* Use an **external** JS file
  + Reminder: <http://www.w3schools.com/tags/att_script_src.asp>
* You must use an API that actually has an AJAX call.
  + Example: you cannot use google maps
  + *This is an unacceptable guide:* [*https://developers.google.com/maps/documentation/javascript/examples/map-simple*](https://developers.google.com/maps/documentation/javascript/examples/map-simple)

# Order of Completing the lab:

#### Step 1: Before you write ANY new HTML:

1. Determine what API you will be using.
   1. Possible starting spot for a list:
      1. <https://github.com/abhishekbanthia/Awesome-APIs>
      2. <https://github.com/toddmotto/public-apis>
      3. <https://www.reddit.com/r/webdev/comments/3wrswc/what_are_some_fun_apis_to_play_with/>
2. Figure out what this API has. What interesting things can you do with it?
3. **Ask if you are not sure if it is a strong enough API**

#### Step 2: Test AJAX Call

1. Can you actually call this other service? This can be an issue with HTTP vs HTTPS.
   1. Note, if you cannot use normal AJAX, you can use a php file, and call get\_file\_contents on the API page.
   2. If you get a mixed content error, look into CORS chrome extension.

#### Step 3: Build UI

1. Create your actual UI.
   1. Query your interface.
   2. Make something that you would find useful ☺.

#### Timeframe:

* Steps 1 and 2: done by March 10th.
* Build UI: Done by March 17th.