Information Design

Professor Danne Woo infodesign.dannewoo.com

ARTS 269 Spring 2019 Tuesday 2:00PM – 5:50PM I-Building 201

Interactive Data Viz

Week 8: Data, the Web and Datavisual

Week 9: JavaScript and jQuery

Week 10: JavaScript and APIs

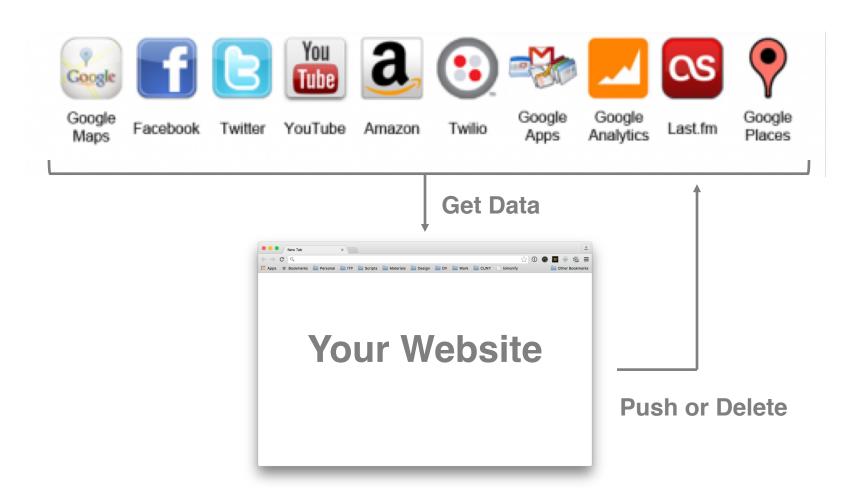
Week 11: In Class Work

Week 12: JavaScript and D3

Week 13: In Class Work

Week 14: Final

API – Application Programming Interface



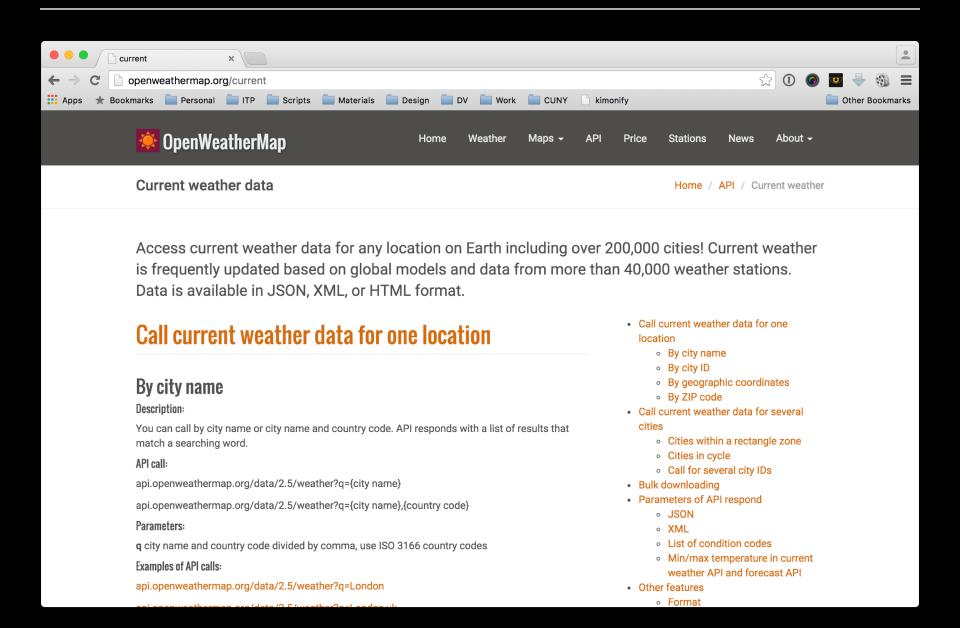
Access Key: ks93yb8231971jn2u3ib

Secret Key: hk245khbhbip4i56i7o3mdnroq

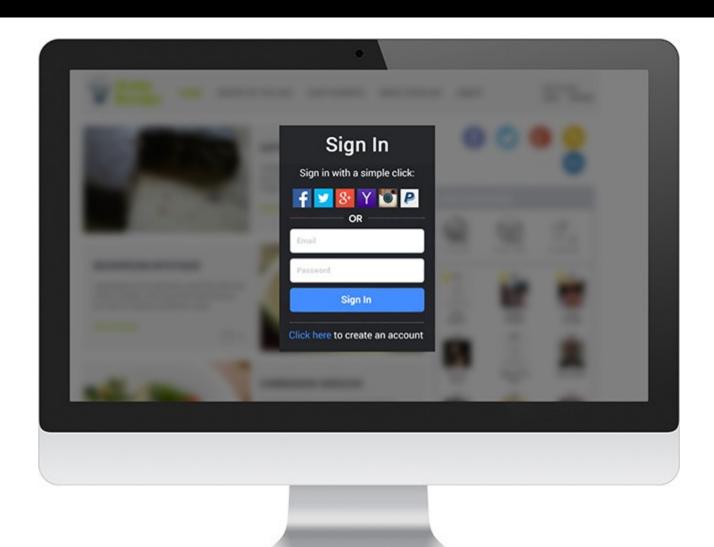
http://www.apiwebsite.com/...query...access key

http://api.openweathermap.org/data/2.5/weather? q=London,uk&appid=2de143494c0b295cca9337e 1e96b00e0

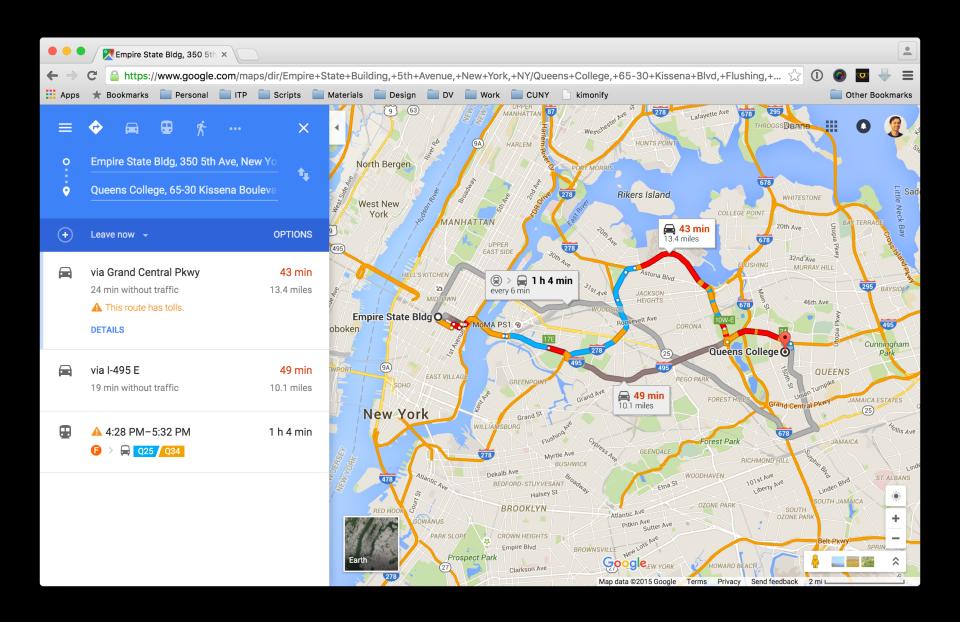
Documentation

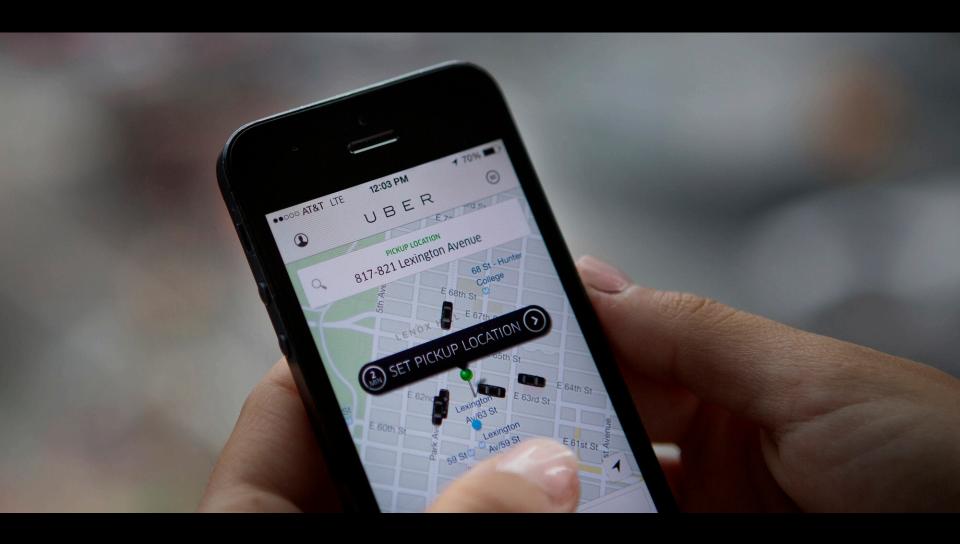


User Authentication

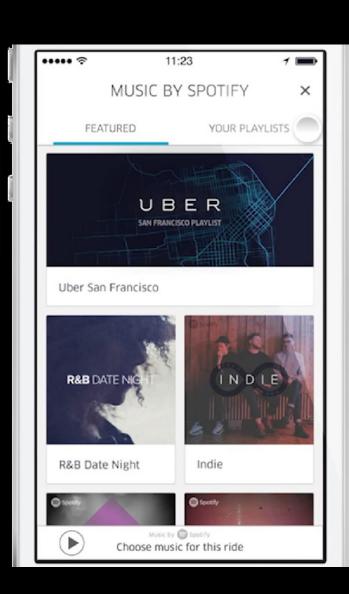


Google Maps API





 $\mathsf{U} \mathrel{\mathsf{B}} \mathsf{E} \mathrel{\mathsf{R}}$

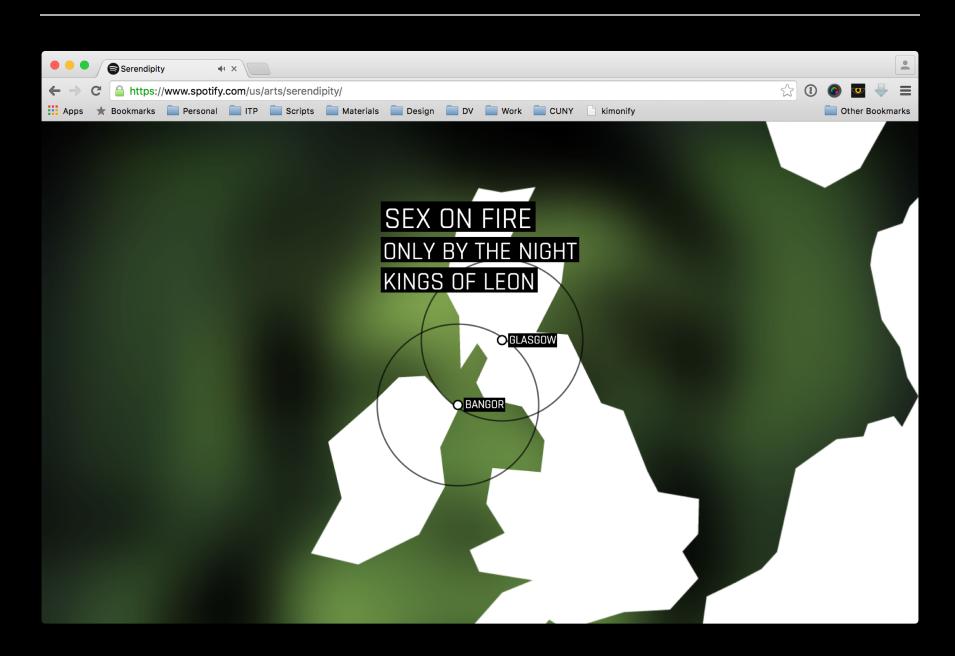




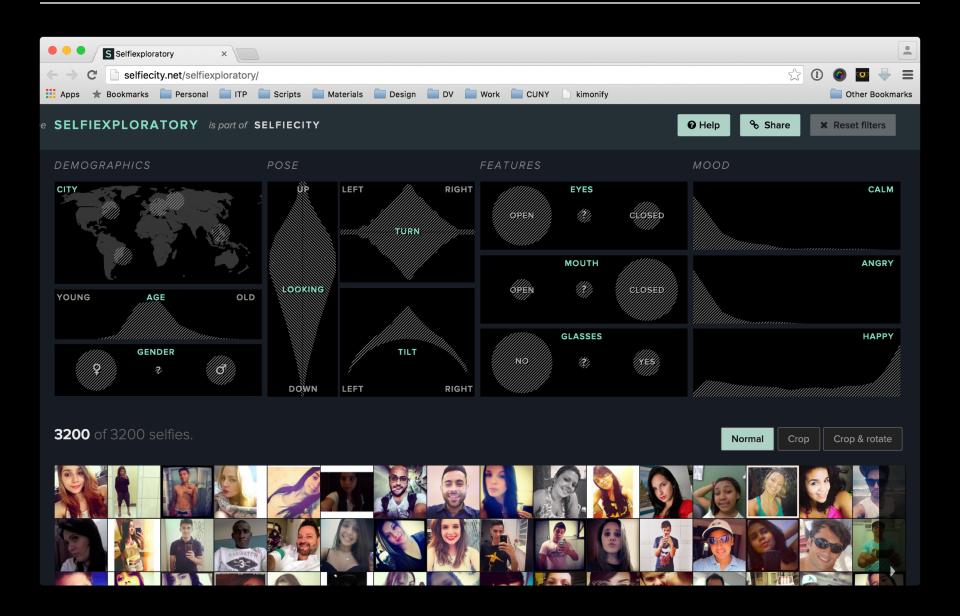
Uber + United App



Spotify and D3js

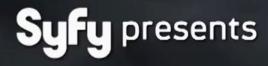


Instagram and Mechanical Turk

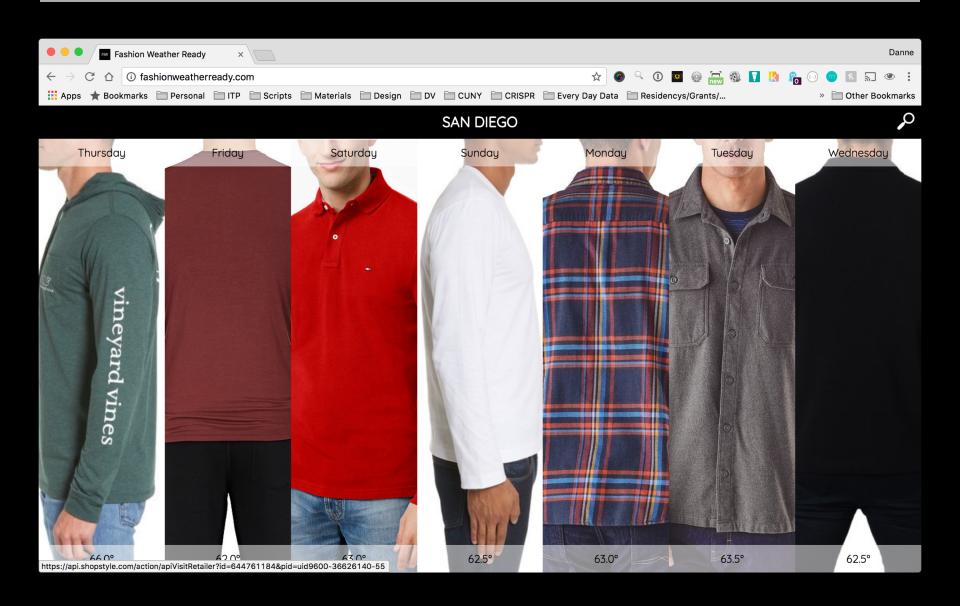




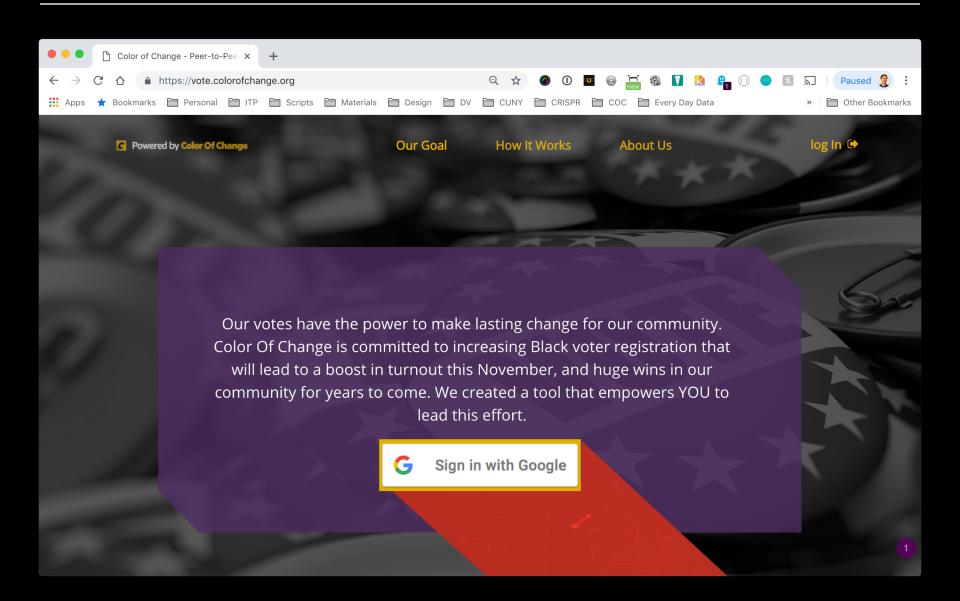




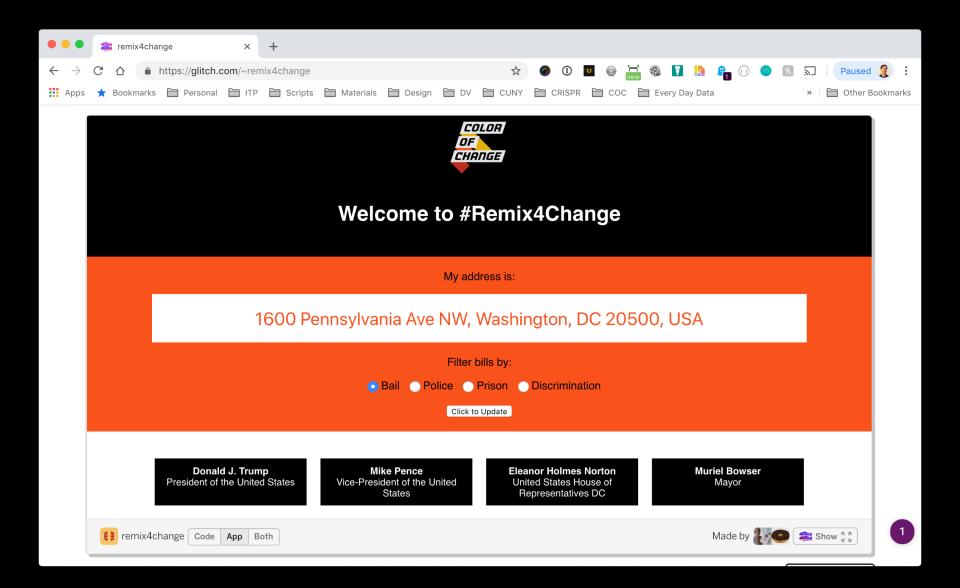
Fashion Weather Ready



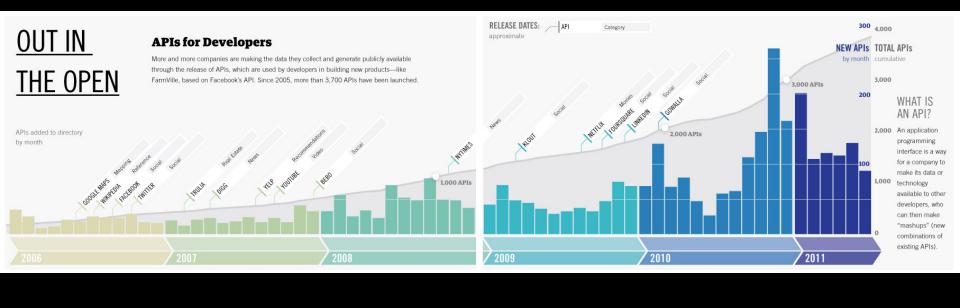
vote.colorofchange.org

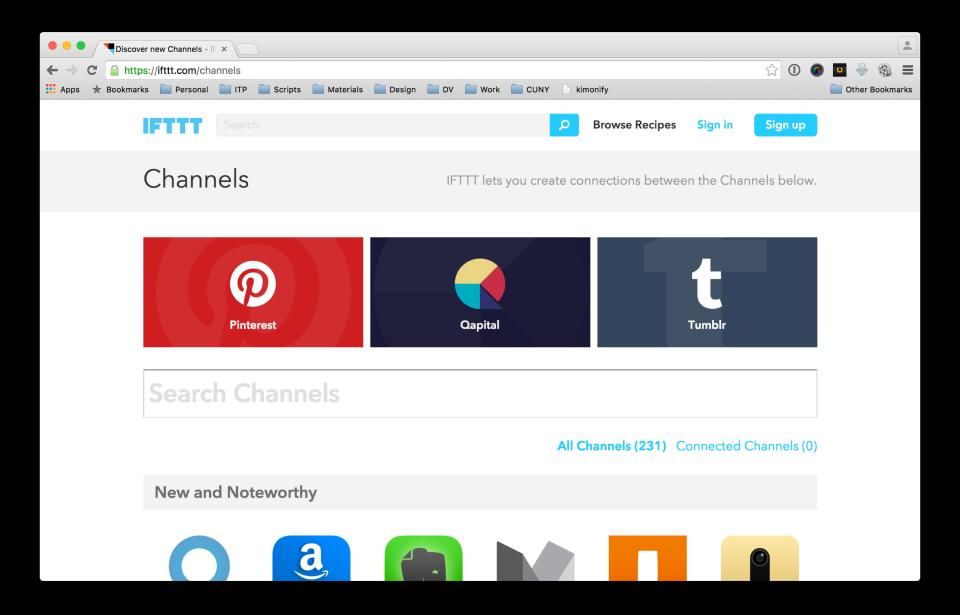


Remix4Change



API History





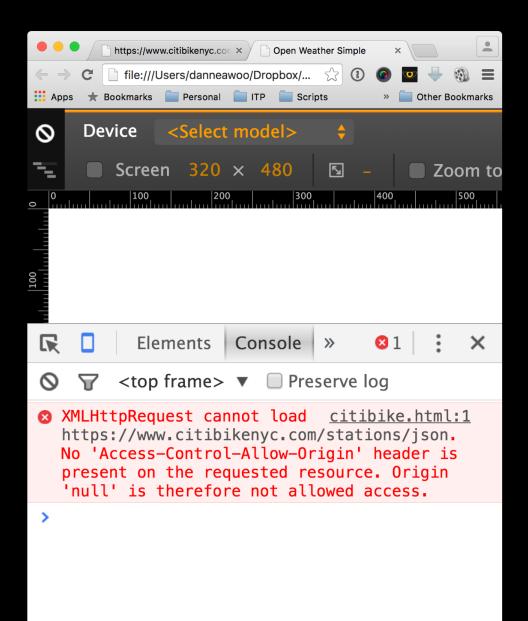
JSON Object Data Format

```
https://www.citibikenyc.com ×
            https://www.citibikenyc.com/stations/json
🔛 Apps 🖈 Bookmarks 🔝 Personal 📄 ITP 📄 Scripts 📄 Materials 📄 Design 📄 DV 📄 Work 📄 CUNY
                                                                                                                                    Other Bookmarks
₩ {
                                                                                                                                 Raw
                                                                                                                                          Parsed
      "executionTime": "2015-11-16 10:34:23 PM",
    ▼ "stationBeanList": [
             "id": 72,
             "stationName": "W 52 St & 11 Ave",
             "availableDocks": 33,
             "totalDocks": 39,
             "latitude": 40.76727216,
             "longitude": -73.99392888,
             "statusValue": "In Service",
             "statusKey": 1,
             "availableBikes": 5,
             "stAddress1": "W 52 St & 11 Ave",
             "stAddress2": "",
             "city": "",
             "postalCode": "",
             "location": "",
             "altitude": "",
             "testStation": false,
             "lastCommunicationTime": "2015-11-16 10:32:13 PM",
              "landMark": ""
          },
        ₩ {
             "id": 79,
             "stationName": "Franklin St & W Broadway",
             "availableDocks": 12,
             "totalDocks": 33,
             "latitude": 40.71911552,
             "longitude": -74.00666661,
             "statusValue": "In Service",
             "statusKey": 1,
             "availableBikes": 19,
             "stAddress1": "Franklin St & W Broadway",
             "stAddress2": "",
             "city": "",
              "postalCode": "",
```

```
$.ajax({
     url: "http://www.apiwebsite.com",
     type: "get",
     dataType: "jsonp",
     data: data that is sent to the server,
     success: function(data) {
          // Do something with the data.
          console.log(data);
     },
     error: function(data) {
          // Error message displays here.
          console.log(data);
});
```

jQuery getJSON

```
$.getJSON( "http://www.apiwebsite.com", function(data) {
    // Do something with the data.
    console.log(data);
});
```









Explore the world of APIs. Think of a website or topic that you are interested in and try and find an open API where you can pull that data into your own website.

Start to think about what you want to build for your final project. This can be an interactive version of your midterm, a website around your personal data or a creative way to use data from APIs.