11.22.16

Hexagons: shapes

Bounces: user experience, details makes it sharper

Map: Javascript, leaflet,

Flows: migration, interactive maps

Link things outside of the map to the map: can you do it with charts??

What is an API?

Where do you store your data? Pull data from an existing server somewhere else.

Send out a query and it pulls in information

Homework:

* jQuery
* leaflet
* leaflet2
* API homework

Photos: pull geocoded photos from an API from instagram, wouldn’t give it to the government.

API is a structured way to pull data in real time. I would like this data and these things, directly. This way you don’t need to access the data

Eagles taking out drones

Using API’s connecting data to another thing

Add id to each polygons

Connect the link to map, using a loop

The map and the data are the same. Connect them so they can link

.html (function) : change the html within the Li …

Application Programming Interface:

Predictable outputs by requesting an input

Ask Carto for tiles, using the code. Transaction

? in url then add parameters then add a security key

app\_token= put in the app token with parameters and then the unique key (filter), just want this parameter.

Pull whatever you just clicked

Mapbox: when you sign in, keys/tokens, register you, track your users, see who you are, make sure that you aren’t

Use their url, get the key and then ask for things that matter.

Use their documentation, to make sure you know how to access it.

App token you are given. & request1&request2 = spits back to you a json file

Build the request in d3 then access it from a web API file

Marketcluster allows you to combine overlapping dots

Leaflets marker cluster

Heatmap.js

Leaflet.animatedmarker

cartoDB.js

ESRI leaflet

Leaflet Control Geocoders

Leaflet. Draw

Truf.js

Plugins talk the leaflet language, work nicely.

D3 is an outside source

Uploaded to GIT

HOMEWORK FOR 11.22.16

* **Tuesday** JQuery Homework:
  + Add JQuery into Zombie Profile
  + Leaflet Tutorial
* **Module I:** Leaflet
  + **1)**  Create a geojson file using the zombie location data provided. Then create a map that uses the geojson file to show the location of all the zombies with pop-ups that provide all the zombies information (favorite food, etc).
  + **2)** Using the neighborhoods geojson file already provided, select a feature other than percentage in poverty, and create a choropleth layer like the one you did for poverty, but colored to be accurate with whatever other feature you selected. Add this layer to your zombie map from part 1 and add layer controls so you can turn either layer on or off.

**Already Added to Drop Box/github**

* Module I
  + Class Exercise
* Module II
  + Class Exercise: Cash ATM locations (Added to Drop Box)
  + Homework: Find examples of cool maps online
* **Module III**
  + Homework

**Homework 11.26.16**

**Class Exercise:** JQuery + Leaflet

**Part I:** Using your already existing zombie “Profile” page, please add at least 2 JQuery functions. For more info check here: <https://jqueryui.com/demos/> and here: <http://www.w3schools.com/jquery/jquery_selectors.asp>

(see live example at: <https://gitsavi.github.io/JQuery/> and code at: <https://github.com/GITSavi/JQuery> )

**~~Part II:~~** ~~Complete the introduction to Leaflet Tutorial here:~~ [~~http://leafletjs.com/examples/quick-start/~~](http://leafletjs.com/examples/quick-start/)

~~Please note that you will need to create a (free) MapBox account here:~~ [~~https://www.mapbox.com/~~](https://www.mapbox.com/) ~~in order to get your Token and ID for requesting tiles.~~

**Part III:** Using the map you created in Part II-

1) relocate the center of the map to New York City

2) add a marker at a location you decide that your zombie lives or is at currently

3) create a pop-up for your marker with your zombies name and “Favorites”

4) Add this map to your zombie profile page

**Home Work:** Leaflet

**1)** Create a geojson file using the zombie location data provided. Then create a map that uses the geojson file to show the location of all the zombies with pop-ups that provide all the zombies information (favorite food, etc).

**2)** Using the neighborhoods geojson file already provided, select a feature other than percentage in poverty, and create a choropleth layer like the one you did for poverty, but colored to be accurate with whatever other feature you selected. Add this layer to your zombie map from part 1 and add layer controls so you can turn either layer on or off.

[**https://mises.org/blog/which-states-rely-most-federal-spending**](https://mises.org/blog/which-states-rely-most-federal-spending)

**Mapbox:**

**L.tileLayer('https://api.tiles.mapbox.com/v4/{id}/{z}/{x}/{y}.png?access\_token={accessToken}', {**

**attribution: 'Map data &copy; <a href="http://openstreetmap.org">OpenStreetMap</a> contributors, <a href="http://creativecommons.org/licenses/by-sa/2.0/">CC-BY-SA</a>, Imagery © <a href="http://mapbox.com">Mapbox</a>',**

**maxZoom: 18,**

**id: 'mapbox.satellite',**

**accessToken: 'pk.eyJ1IjoibmVyaXNzYWNsYXJrZSIsImEiOiJjaXZtdWppZTgwMDBoMm9xYm5rbDZuN3EzIn0.NPn-rZJU98pnX\_lTUD3XPA'**

**}).addTo(mymap);**

**//different id options: mapbox.satellite; mapbox.mapbox-terrain-v2; mapbox.mapbox-streets-v7**

TIPS:

For the map of the US centered… use

var mymap = L.map('mapid').setView([41.2524, -95.9980], 4);

#mapid {

height: 600px;

width: 85%;

}

Insights:

* div.innerHTML += allows you to influence the html internally, using javascript
* Think about the logic. First create the largest function of what you want it to do, then define all of the inputs next.
* You don’t need to use d3 for everything, or leaflet for everything. Just something to use to help you be effective in javascript

Like with PBJ

Function put BreadwJelly & BreadwPeanutButter together

BreadwJelly =fjdkhreuithliw

Jelly=

Bread=

Tool= knife

BreadwPeanutButter =fhethruielthraihutl

Peanutbutter =

Bread=

Tool= knife

Questions:

* What is parseFloat?
* Why doesn’t Module II work on Chrome??
* What is L.DomUtil.create('div', 'legend'), DomUtil??
* What is the significance of the underscores? Why would you use them?
* Why doesn’t the marker move when you zoom in? Is there a way to fix that easily?
  + (Something to do with the CSS styling of the body??)
* How do you adjust the size of the select box?