



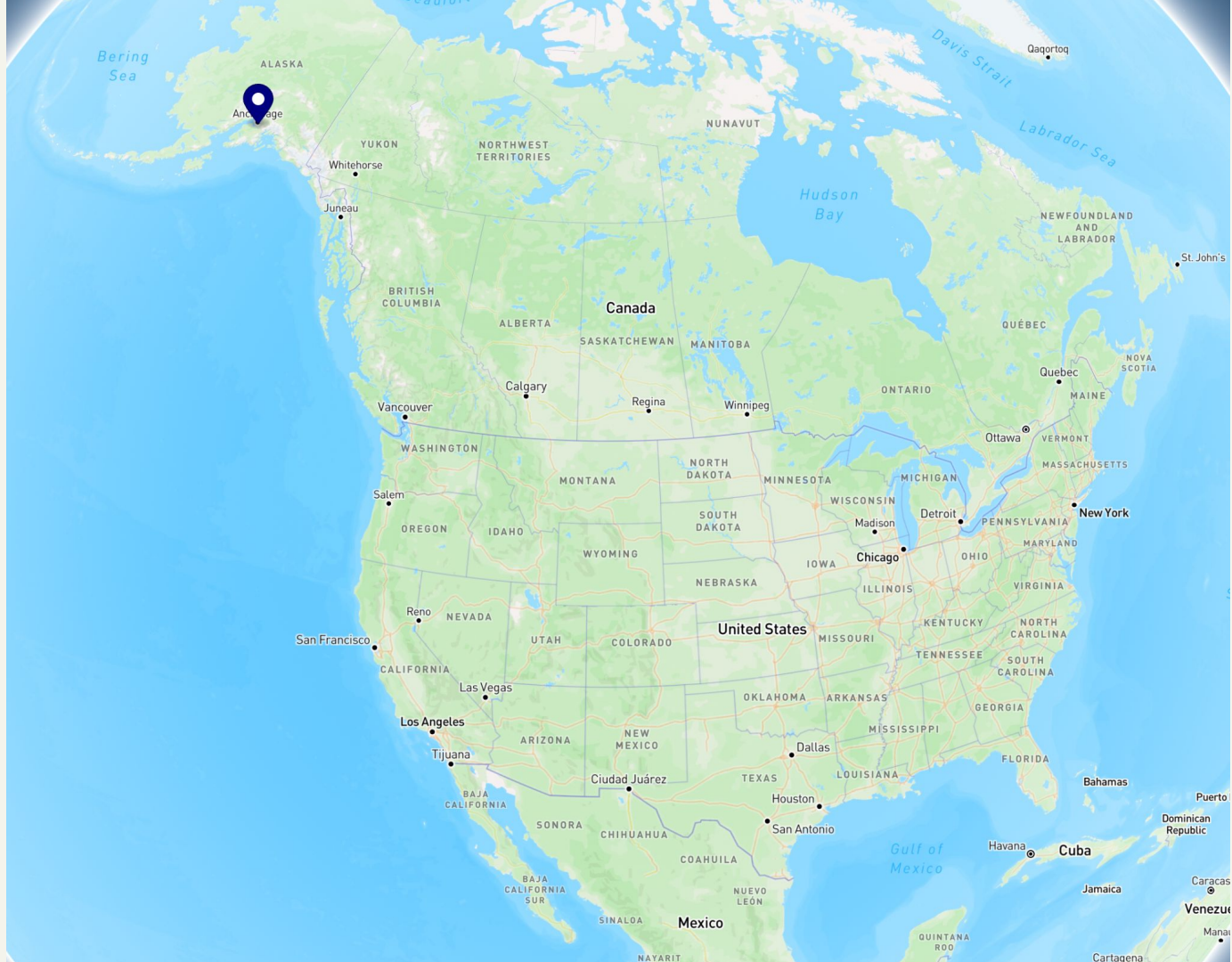
Mapbox Training Session #1



Introductions and logistics





- 
- **Radio journalism**
 - **data science & web dev**
 - **City innovation team**







- Links in Github 
- Codepen environment versus html page.
- Short break at 1 hour 
- Questions+speed  

Agenda :

Mapbox Basics

Project Structure

First Map

Map + Marker + Popup

..Break

Mapbox Studio intro

Mapbox Studio Custom data

[... next week?...




events..+ geojson + interactive



Some Inspiration!



Mapbox project basics

 What do you need to
get Mapbox working..

- API keys token
- importing Mapbox-gl
library
- project organization

- **api keys**
- importing library
- project organization

API key

Long unique string of numbers and letters that connects to an account for billing.

Can limit to certain Mapbox services.

Usually just set once when creating a map.



log in

and find API key

Import library .js file & .css file

Options:

- Download to computer
- Use CDN content delivery network
- Use package manager like NPM



Building a map

1. Create HTML Page
2. Import mapbox-GL library
3. Import Mapbox CSS
4. Create a div for the map

5. Create css for map div
6. Mapbox api key
7. Initialize map in JS.


```
#map {  
    position: absolute;  
    top: 0;  
    bottom: 0;  
    left: 0;  
    width: 100%;  
}
```

```
const map = new mapboxgl.Map({  
  container: 'map',  
  style:  
    'mapbox://styles/benmatheson/cljltxs4y001u01r993111mqr',  
  center: [-105.5, 25.1],  
  zoom: 3.4  
  
});
```



Demo






Activity:
first map



Goal - create first map.

 Center on your favorite
place you've traveled to

1. Create HTML Page
2. Import mapbox-GL library
3. Import Mapbox CSS
4. Create a div for the map

5. Create css for map div
6. Mapbox api key
7. Initialize map in JS.



**Next steps on
activity**



- Challenge #1 - switch to a new Mapbox style
- Challenge #2 - change to mercator or another projection
- Challenge #3 - add navigation.(found in documentation)

(demo)



**Customize our
first map with
marker**

```
// Create a default Marker and add it to the map.
```

```
const marker1 = new mapboxgl.Marker()  
  .setLngLat([-145.1, 61.2])  
  .addTo(map);
```




Repetition helps
build muscle memory

Goal - add three markers to
map 

Places you want to go?

Favorite team locations?

Favorite food origins?

 **short break?**



Important Concepts



Style (everything)

Data source (bringing in the data)

Layer (how it appears on screen – uses a data source)

...Mapbox Studio Tour

Simple Workflow

- upload data into studio
- configure a few key labels
- data driven styling
- Publish and use



Activity:

Quick style

customizing



- Turn layers on and off
- Change styling
- Add hillshade

*...demo upload of countries
file...*



Activity:

Mapbox studio

Data Upload

Simple Workflow

- upload data into studio
- configure a few key labels
- data driven styling
- Publish and use



volcanos.geojson

1. Download file
2. Upload in studio
3. Customize based on data..

Radius - fill - border

Bring it all together:

- **Publish style**
- **Configure map to show style**



Extra



⚡ ⚡ **geojson intro**



HTML5

Template

⚡ ⚡ iframes