

Module 15 Challenge - Leaflet

SMU DS – Raj Agrawal

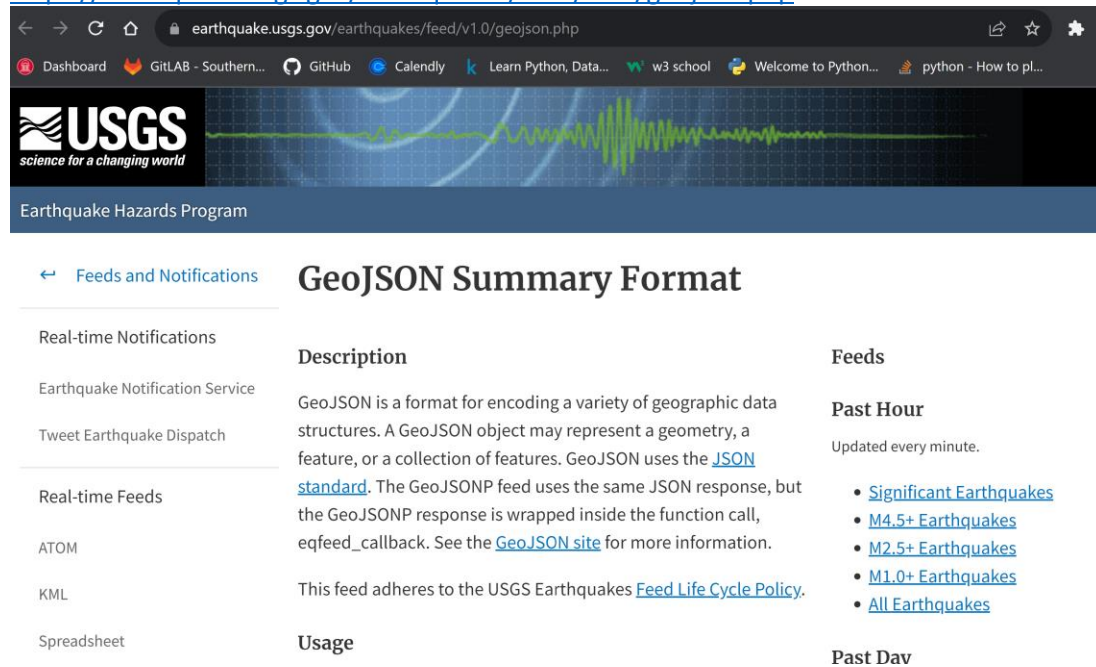
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Repository – https://github.com/RajAgrawal99/SMU_DS_Bootcamp_March2023_RA.git

Folder – leaflet-challenge

Data source

<https://earthquake.usgs.gov/earthquakes/feed/v1.0/geojson.php>



USGS science for a changing world

Earthquake Hazards Program

GeoJSON Summary Format

← Feeds and Notifications

Real-time Notifications

Earthquake Notification Service

Tweet Earthquake Dispatch

Real-time Feeds

ATOM

KML

Spreadsheet

Description

GeoJSON is a format for encoding a variety of geographic data structures. A GeoJSON object may represent a geometry, a feature, or a collection of features. GeoJSON uses the [JSON standard](#). The GeoJSONP feed uses the same JSON response, but the GeoJSONP response is wrapped inside the function call, eqfeed_callback. See the [GeoJSON site](#) for more information.

This feed adheres to the USGS Earthquakes [Feed Life Cycle Policy](#).

Usage

Feeds

Past Hour

Updated every minute.

- [Significant Earthquakes](#)
- [M4.5+ Earthquakes](#)
- [M2.5+ Earthquakes](#)
- [M1.0+ Earthquakes](#)
- [All Earthquakes](#)

Past Day

Sample index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Leaflet Step-1</title>
```

Sample logic.js

```
// SMU DS leaflet-challenge Part 1: Create the Earthquake Visualization
function clickListener() {
  let filter = document.getElementById('earthquake_filter').value;
  // STEP 0: GET THE DATA
  // Store our API endpoint as queryUrl.
  let queryUrl = `https://earthquake.usgs.gov/earthquakes/feed/v1.0/summary/all_${filter}.geojson`;
  let url2 =
    "https://raw.githubusercontent.com/fraxen/tectonicplates/master/GeoJSON/PB2002_boundaries.json";
```

Part 1: Create the Earthquake Visualization

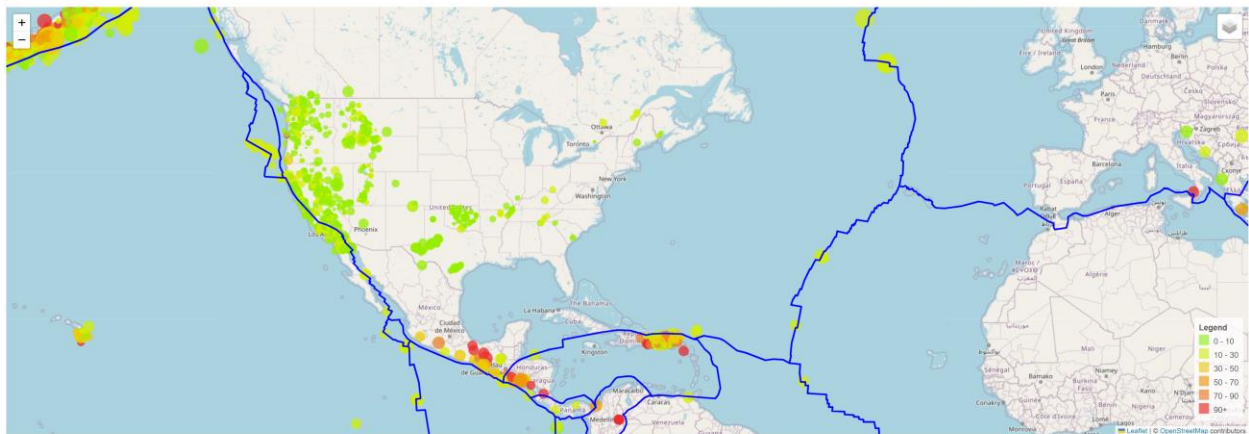
1. Imported and visualize the data by doing the following:
 - Using Leaflet, created a map that plots all the earthquakes from your dataset based on their longitude and latitude.
 - data markers reflect the magnitude of the earthquake by their size and the depth of the earthquake by color. Earthquakes with higher magnitudes should appear larger, and earthquakes with greater depth should appear darker in color.
 - Included popups that provide additional information about the earthquake when its associated marker is clicked.
 - Created a legend that will provide context for your map data.

 127.0.0.1:5500/leaflet-challenge/Starter_Code/index.html

Earthquake Map

Use the filter below to choose the time frame for your earthquakes. All data sourced from [USGS](#).

Past Month 



README.md file added to the folder