**Mapping Earthquakes**

Module 13-Mapping

**Purpose**

The purpose of this project is to visually show the differences between the magnitudes of earthquakes all over the world for the last seven days. To complete this project, use a URL for GeoJSON earthquake data from the USGS website and retrieve geographical coordinates and the magnitudes of earthquakes for the last seven days. Then add the data to a map. The approach is to use JavaScript and the D3.js library to retrieve the coordinates and magnitudes of the earthquakes from the GeoJSON data. The Leaflet library is to use to plot data on a Mapbox map through an API request and create interactivity for the earthquake data.

This map shows all the street of earthquake, tectonic and major earthquake on the globe. 24 hours report does not show any change on the map. The red popups represent a magnitude of above 5. The orange color popups are those from 5 and below.

Map

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The lines traced on the map is the tectonic plate of earthquakes in the world.

Map

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Map

Description automatically generated

Satellite of the tectonic plates of the world and how it surrounds the countries of the globe.

The red popups which represent the magnitude above 5, it overlaps the orange popups for those areas that experience frequent earthquakes. When earthquakes are highlighted and is added to the major areas of the earthquake there is an increase on the same places with magnitude less than 5. This shows how rampant in areas experiencing earthquakes.

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This map shows major earthquake areas around the world. When earthquakes are selected on the map these areas with the popups will increase with orange to show that they are areas which experiences in their countries.

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