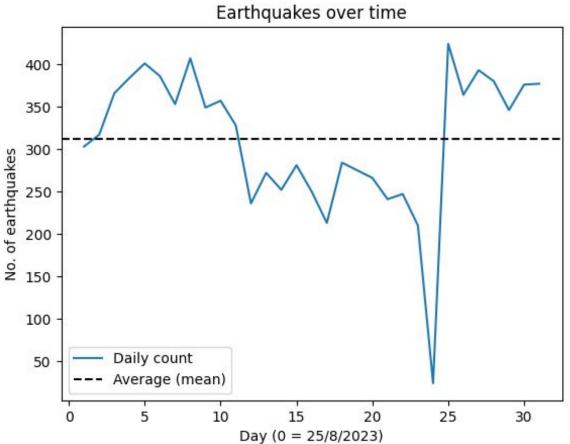
Earthquakes

A data visualisation assignment using a data taken from USGS (U.S Geological Survey)

Temporal Trends



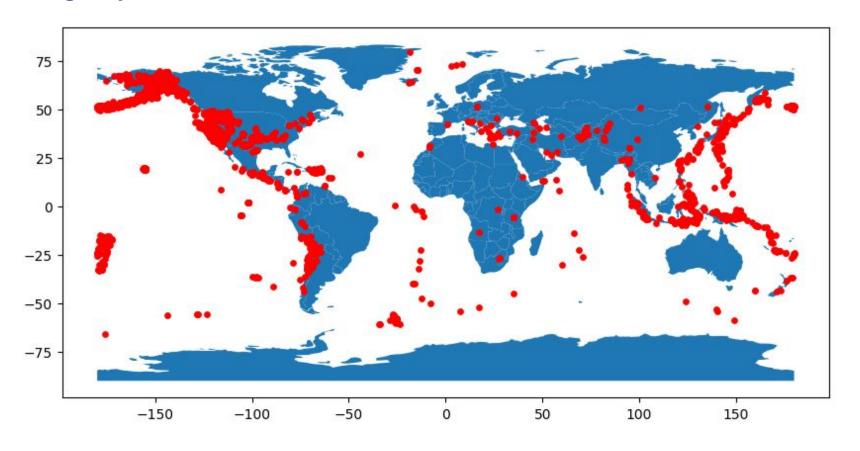


Average over 300 earthquakes per day!

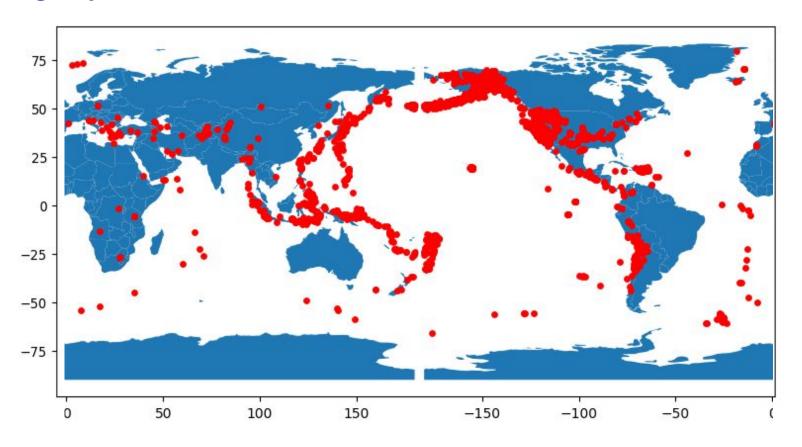




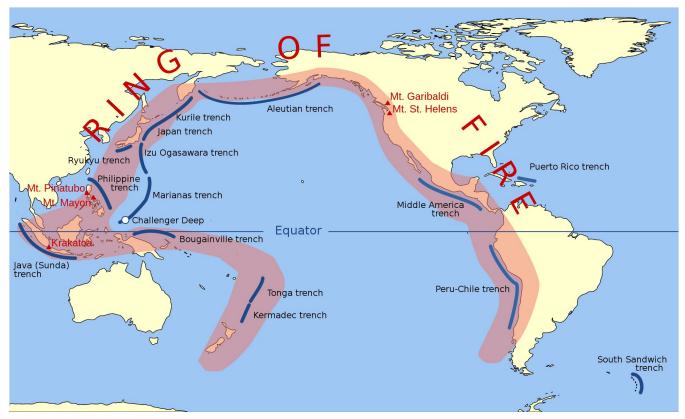
Geographical Distribution



Geographical Distribution



Geographical Distribution - Ring of Fire



Source: Gringer, Wikipedia

What's the impact?

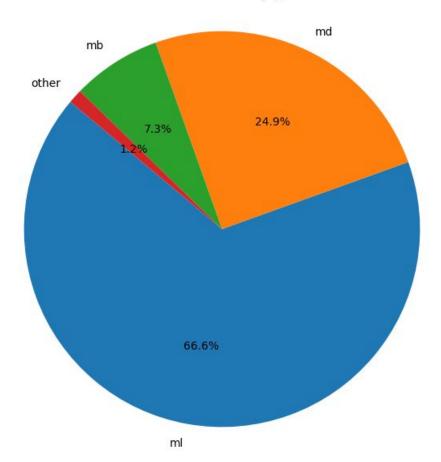






- 67% measured with ML scale.
- 25% MD scale

Breakdown of magType

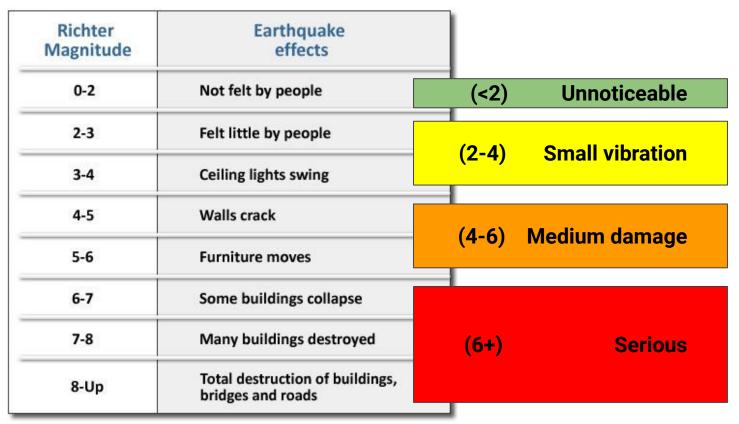


To compare damages - we'll only look at ML values.

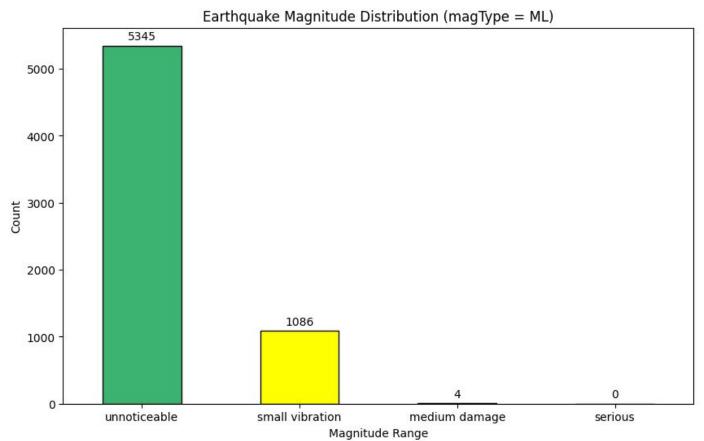
Keeps it fair

Richter Magnitude	Earthquake effects
0-2	Not felt by people
2-3	Felt little by people
3-4	Ceiling lights swing
4-5	Walls crack
5-6	Furniture moves
6-7	Some buildings collapse
7-8	Many buildings destroyed
8-Up	Total destruction of buildings, bridges and roads

Source: elizabethturp.co.uk



Source: elizabethturp.co.uk







The majority of earthquakes are unnoticeable to humans.

From the ML-measured earthquakes:

- 0 caused serious damage
- 4 in medium damage range

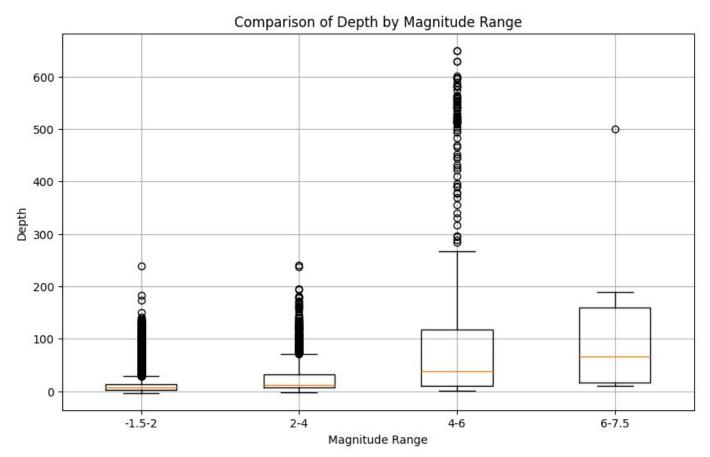




Correlations



Depth vs Magnitude Analysis



Thanks for watching!