Global Landslide Catalog Project

For this project, we created plots with data from the Global Landslide Catalog to visualize the distribution of landslides across the world and show their most common causes. We will also look at which regions have more destructive/deadly landslides.

## A map of the world Description automatically generated

Map showing the distubution of landslides recorded in this dataset

## Dataset Columns:

Dates/Time: event\_date / event\_time / month

Scale

landslide\_size converted to landslide\_size\_num /

fatality\_count / injury\_count

Location

Longitude / latitude

**Other Information:**

landslide\_category /landslide\_trigger /

landslide\_setting /country\_name / storm\_name

# Plots:

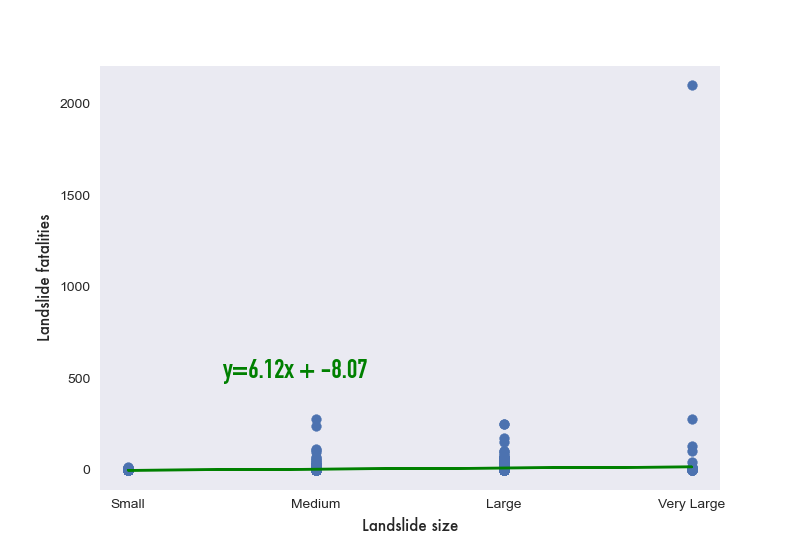
A graph showing injury injuries

Description automatically generated

**landslide\_injuries |** **fatality\_count**

**r value: 0.11674872630789888**

There was no correlation between injuries and fatalities. This would seem to be because the dataset isn’t recording all injuries, since more landslides in this dataset have recorded fatalities than injuries.

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**landslide\_size |** **fatality\_count**

r value: 0.11674872630789888

There was no correlation between Landslide size and fatalities. This might be because landslide size isn’t measured in very precise terms.

A graph showing the number of states and the country

Description automatically generated with medium confidence

Tracking Monthly/Seasonal Changes – month

This shows which time of the year landslides are most common in the top three countries represented in the dataset.

A graph with blue bars

Description automatically generated

Comparing Countries - country\_name

This chart shows the average number of fatalities per landslide of some of the most well represented countries in the dataset.

A pie chart with different colored circles

Description automatically generated

Comparing Landslide Causes - landslide\_trigger

Pie chart showing the most common causes of landslides

A map of the world

Description automatically generated

Map of landslide fatalities - fatality\_count

# Conclusion:

Because of the nature of the dataset,, we were unable to find any correlations to get further insights about landslides around the world. Instead, we looked at finding ways to visualize the global landslide data and show interesting trends and statistics.