Project #3 Proposal

# **Meteorite Landings Analysis**

Possible Data Sets:

<https://data.nasa.gov/resource/gh4g-9sfh.json> ← nasa json

https://www.kaggle.com/code/ambarish/fun-with-meteorites-landings-w-maps

What track: Visualization

Subject: Meteorite landings on Earth

Data sources: NASA

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Data Set

The dataset contains the following variables:

* **name**: the name of the meteorite (typically a location, often modified with a number, year, composition, etc)
* **id**: a unique identifier for the meteorite
* **nametype**: one of:  
  -- *valid*: a typical meteorite  
  -- *relict*: a meteorite that has been highly degraded by weather on Earth
* **recclass**: the class of the meteorite; one of a large number of classes based on physical, chemical, and other characteristics (see the Wikipedia article on [meteorite classification](https://en.wikipedia.org/wiki/Meteorite_classification) for a primer)
* **mass**: the mass of the meteorite, in grams
* **fall**: whether the meteorite was seen falling, or was discovered after its impact; one of:  
  -- *Fell*: the meteorite's fall was observed  
  -- *Found*: the meteorite's fall was not observed
* **year**: the year the meteorite fell, or the year it was found (depending on the value of **fell**)
* **reclat**: the latitude of the meteorite's landing
* **reclong**: the longitude of the meteorite's landing
* **GeoLocation**: a parentheses-enclose, comma-separated tuple that combines **reclat** and **reclong**

What are we doing with data: We would do an exploratory data analysis to find :

1)How does the geographical distribution of observed falls differ from that of found meteorites?

2)Are there any geographical differences or differences over time in the class of meteorites that have fallen to Earth?

3)The type of Meteorite data and Year .

4)The chemical composition of the meteorite.

5)General analysis of meteorites based on the mass information.

6)Number of meteorites that are recorded as fallen; connection to Geo locations.

7)Analysis of meteorites based on classers; relation between meteorite class and mass.