**Project 3**

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**Project Track:** Science

**Subject Theme:** Meteorites, Fireballs, and Bolides

**Data Sources:**

* NASA Open Data Portal: Fireball and Bolide Reports:

<https://data.nasa.gov/Space-Science/Fireball-And-Bolide-Reports/mc52-syum>

* NASA Open Data Portal: Fireball and Bolide Table

<https://data.nasa.gov/Space-Science/Fireball-And-Bolide-Reports/mc52-syum/data>

* NASA Open Data Portal: Fireball and Bolide JSON download

<https://data.nasa.gov/api/views/mc52-syum/rows.json?accessType=DOWNLOAD>

* NASA Open Data Portal: Meteorite Landings

<https://data.nasa.gov/Space-Science/Meteorite-Landings/gh4g-9sfh>

* NASA Open Data Portal: Meteorite Landings Table

<https://data.nasa.gov/Space-Science/Meteorite-Landings/gh4g-9sfh/data>

* NASA Open Data Portal: Meteorite Landings JSON download

<https://data.nasa.gov/api/views/gh4g-9sfh/rows.json?accessType=DOWNLOAD>

* NASA Science: Asteroids, Comets & Meteors

<https://solarsystem.nasa.gov/asteroids-comets-and-meteors/overview/>

* NASA Science: Meteors & Meteorites

<https://solarsystem.nasa.gov/asteroids-comets-and-meteors/meteors-and-meteorites/overview/?page=0&per_page=40&order=id+asc&search=&condition_1=meteor_shower%3Abody_type>

**Description of Findings:**

* Our team will explore the NASA recorded Data to track if any changes over time in Meteor and Fireball occurrence through plotting data by year.
* Our visualizations aim to distinguish unique characteristics, such as mass and total radiated energy, as well as cited location of the space objects.

**Visualizations:**

* Dropdown menu for users to select a year
* Bar graph that display the number of meteorite landings and fireball sightings for each year, and highlights the year chosen by the user in a different color (or something)
* Map that displays the location of meteorite landings and fireball sightings for the chosen year in 2 separate layers (size of the markers based on meteorite’s mass and fireball’s radiation level)
* Images of the largest meteorite and fireball for that year, with a description of their name and stats underneath the description
* Gauges that display the velocity and altitude of the largest fireball for that year