

Basic Information

- **Project Title:** Examining the Consistency of UFO Sighting Reports
- **Group Members:**
 - Asa Adomatis, asaa@clermson.edu, C32722636
 - Ellie Painter, rapaint@clermson.edu, C24975483
 - Emily Wilber, emwilbe@clermson.edu, C18656247
- **Repo:** <https://github.com/AsaAdomatis/CPSC-4030-Project>

Background and Motivation

- **Motivation:** Personal interest in UFO conspiracy and recent news events about UFOs/UAPs like the military released videos and the Mexican aliens.
- **Reasoning:** See if there's any patterns or consistencies within sightings to analyze how valid sightings are.

Project Objectives

- **Primary Goal:** Are there consistent patterns in UFO sightings Reports?
- **Secondary Goals:**
 - Is there a consistent location or set of locations UFO sightings are likely to happen at?
 - Is there a consistent time where UFO sightings are likely to happen at?
 - Do similar sightings have a consistent description of the encounter?

Data

- **NUFORC Data:**
 - Link: <https://www.kaggle.com/datasets/NUFORC/ufo-sightings/versions/1/data>
 - Alternative: <https://data.world/timothyrenner/ufo-sightings>
 - This source is up to date, but not as well cleaned.
- **Shape Files for US Counties and States:**
 - Link: <https://www.census.gov/geographies/mapping-files/time-series/geo/carto-boundary-file.html>

Data Processing

- **Data Clean-Up:**
 - The alternate dataset (2022) needs duration data to be converted from an unformatted string to a discrete number.
- **Derived Quantities:**
 - A county attribute that's derived from long. lat. or coordinates
 - A more generalized shape attribute to group things like oval, and circle together
- **Data Processing Implementation:**
 - We will use Python to convert the lat. long. data into county data

Visualization Design

- **Consistent Location:**
 - Choropleth of county
 - Choropleth of state
- **Consistent Time:**
 - Sightings by Year
 - Sightings by Duration
- **Consistent Shape:** Sightings by Shape

Must-Have Features

- Filter each visualization by time frame
- Filter each visualization by shape
- Filter each visualization by state/county

Optional Features

- Interact with data points on the geography and get additional description of the event
- Look at location visualization by county or by individual state

Project Schedule

- **Week 1 (10/2):**
 - Thursday: **Project Proposal**
- **Week 2 (10/9):**
 - To-Do:
 - Complete Website
 - Create alternates for visualization and refine them from feedback
 - Clean 2022 data duration times
 - Derive County information from city on lat./long. coords
 - Derive generalized
- **Week 3 (10/16):**
 - Tuesday: Fall Break
 - To-Do:
 - 1 Visualization in D3js
- **Week 4 (10/23):**
 - To-Do:
 - 2nd & 3rd Visualization in D3js
- **Week 5 (10/30):**
 - Sunday: **Project Prototype**
 - To-Do:
 - Final Visualization in D3js
 - Hook Visualizations up to Website
- **Week 6 (11/6):**
 - To-Do:

- Work on first half and a little more of visualizations for Peer Eval
- **Week 7 (11/13):**
 - To-Do:
 - Work on second half of visualizations
 - Write Peer Eval
 - Sunday: **Peer Evaluation**
- **Week 8 (11/20):**
 - To-Do:
 - Fix issues from Peer Evaluation
- **Week 9 (11/27):**
 - To-Do:
 - Fix issues from Peer Evaluation
- **Week 10 (12/4):**
 - Tuesday and Thursday: **Oral Presentation**
 - To-Do:
 - Fix any final issues from commentary on the Oral Presentation
- **Week 11 (12/11):**
 - Monday: **Final Delivery**
 - Monday: **Peer Assessment**