

IS590 OM Assessment Report

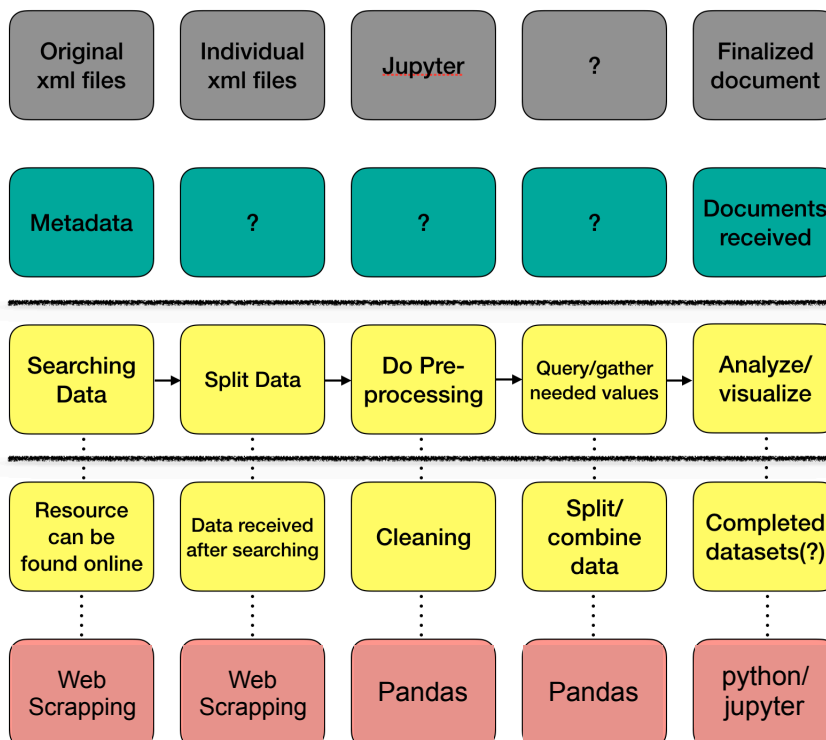
What characteristics can we see by exploring the relationships between occurred UFO events and the area/climatic traits among the US?

- Introduction

The question/title is about observing UFO issues with connecting the issues' area and climate trait. The proposer decided to include geographical, climate, and population information since she believes it would be interesting to see how UFO events versus population information, UFO event versus area information (by state), and UFO events versus climate information display different entities/domains with the tendency over time.

Based on this, the talk is designed for people who are interested in UFO events and would like to see how they form within the US. People who have basic statistics and data analysis knowledge would be benefitted more than people who do not have the knowledge. After the talk, the presenter expects people to see the event evaluation/analysis interesting and are willing to work on topics similar to the talk.

- Pre-analysis



Along with my research procedure, here are the steps that helped me with the pre-analysis work.

Basically, my work started with searching data/resources, after this, I decided the way that I would like to use for obtaining data (most of them are web scrapping). Then, I cleaned the data and tried to combine what I have so far so that I can get the final document I'll need. My design of the dataset has changed once due to the need for better complexity, but the results seem to combine most of the data I have.

- The advantage of this dataset
 - ~ This dataset combined not only governmental data but data holds by general publics
 - ~ The dataset contains comprehensive UFO events, population, and climate data by state from 1949 - 2013.
 - ~ The dataset contains at least 60,000 rows, which is worthy for people to explore.
- Based on the result (shows below), what research questions can this dataset help to answer?
 - ~ Are UFO events happened regularly within specific states?
 - ~ For those states that regularly witness UFO, do they have any specific features? (e.g. less population, higher rainfall rate.)
 - ~ Can we get A U.S. map about happened UFO event by state?
 - ~ Are there any UFO form tendency regarding to any US features? (e.g. circle form usually appears in states that have more population.)

Sample result (transpose columns/rows)

TIME	10/10/1949
CITY	SAN MARCOS
STATE	TEXAS
FORM	CYLINDER
EVENT TIME (SEC)	2700
DESCRIPTION	THIS EVENT TOOK PLACE IN EARLY FALL AROUND 1949-50. IT OCCURRED AFTER A BOY SCOUT MEETING IN THE BAPTIST CHURCH. THE BAPTIST CHURCH SIT
X COODINATE	29.8830556
Y COODINATE	-97.9411111
STATE ABBR	TX
T VALUE	64.2°F
T RANK	17
T MEAN	-0.5°F
P VALUE	33.01 "
P RANK	57
P MEAN	5.71 "
POPULATION	7623000