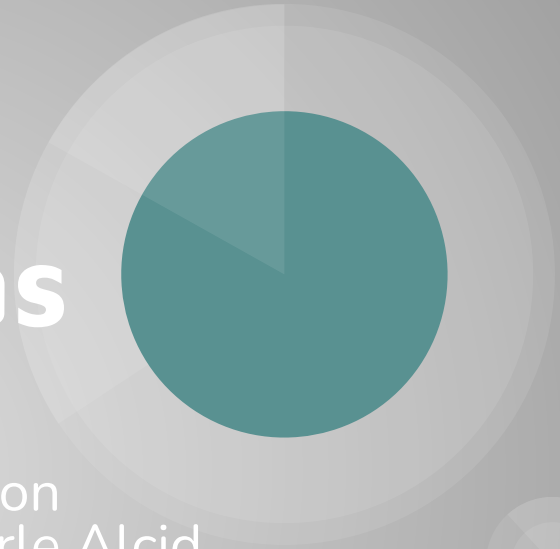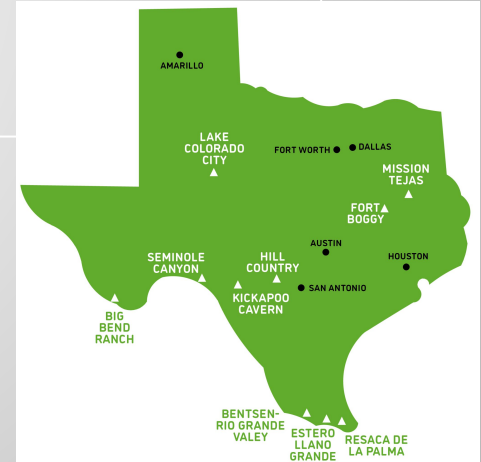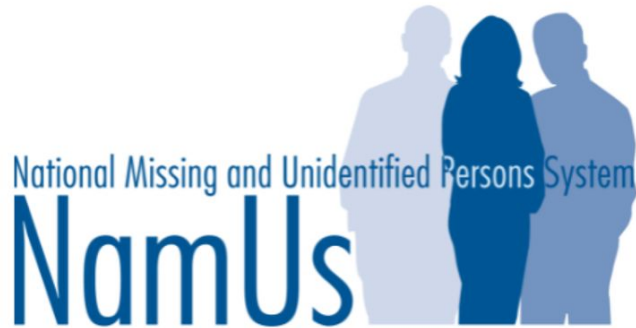# Cold Cases in Texas

By: Jose Gonzalez, Shannon Williams, Nancy Ulloa, Arle Alcid

Introduction

- National Missing and Unidentified Persons System
- The Charley Project
  - Public database for cold case missing persons from the United States.
  - Includes only unresolved cases for individuals that have been missing for at least one year

Data Scraping

- Charley Project web scraping
  - Beautiful Soup

Advanced Search

967 total results

Angela Abbrederis	Johnny Chumba Galvan
Guadalupe Acevedo	Jorge L. Galvan
Brent Marshall Acomb	Kristen Marie Galvan
Debra Marie Adams	Irma Yolanda Gamez
Michael Jefferson Adams	Angelica Maria Gandara
Louella Renee Addison	Ariel Fonseca Garcia
Adolfo Santo Agramonte	Edward Garcia Jr.
Nora Aguayo-Flores	Esteban Garcia
Wilver Eveli Aguilar	Hipolito Sanchez Garcia
Ruby Akers	Irene Theresa Garcia
Melissa Alaniz	Julio Cesar Garcia
Alwin Albright	Edy Daniel Garcia Alvarado

Missing

	Person Name	Missing Since	Missing From	Classification	Sex	Race	Date of Birth	Age	Height and Weight
0	Angela Abbrederis	04/02/1996	Dallas, Texas	Endangered Missing	Female	Asian, Biracial, White	10/25/1968 (55)	27 years old	5'7 - 5'9, 115 - 130 pounds
1	Guadalupe Acevedo	12/08/2004	Grand Prairie, Texas	Missing	Male	Hispanic	12/13/1953 (70)	50 years old	5'8, 150 pounds
2	Brent Marshall Acomb	01/24/2014	Houston, Texas	Endangered Missing	Male	White	12/15/1959 (64)	54 years old	5'10 - 6'0, 165 pounds

Data Cleaning

- MongoDB and geopy.geocoders
  - Latitude and Longitude Coordinates
    - 967 → 948

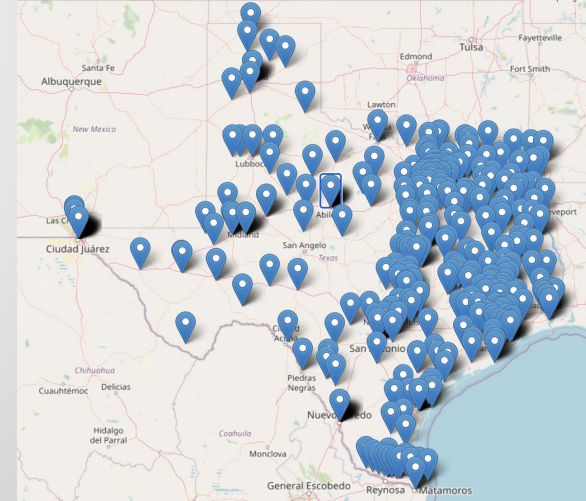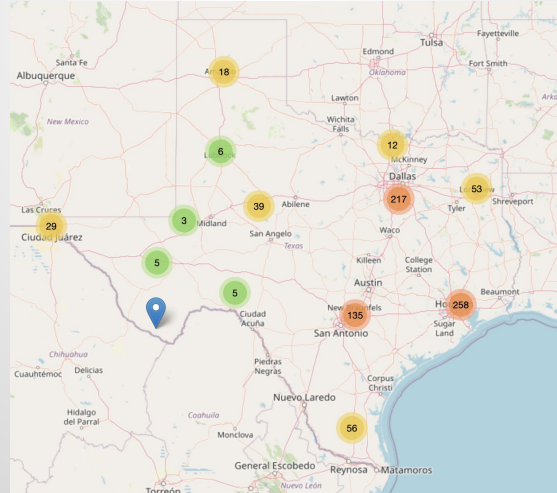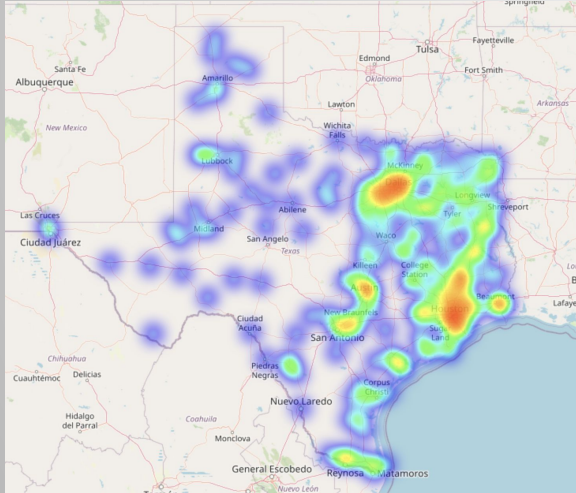|	Latitude	Longitude
	32.44645	-99.7475905
s	32.44645	-99.7475905
s	32.7762719	-96.7968559
	30.2711286	-97.7436995
	26.204114	-98.2300605
	29.7589382	-95.3676974
	27.2987386	-97.8143004
	29.6910753	-95.2092076

Data Cleaning Continued

- Pandas
  - Remove N/A
    - 948 → 841
  - Split columns containing multiple variables
  - Altered data types
    - Strings → Integers

cleaned

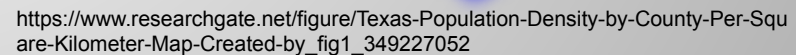| Person Name	Missing Since	Month Missing	Day Missing	Year Missing	Missing_Location	Classification	Sex	Race	Date of Birth	Missing Age	Current Age	Height	Weight	Latitude	Longitude
Debra Marie Adams	03/01/1989	3	1	1989	Abilene, Texas	Missing	Female	White	11/14/1967	22	56	5'5	110 pounds	32.44645	-99.7475905
Michael Jefferson Adams	06/08/1987	6	8	1987	Abilene, Texas	Endangered Missing	Male	White	03/28/1969	18	54	6'0 - 6'1	145 - 150 pounds	32.44645	-99.7475905
Angela Abbrederis	04/02/1996	4	2	1996	Dallas, Texas	Endangered Missing	Female	Asian, Biracial, White	10/25/1968	27	55	5'7 - 5'9	115 - 130 pounds	32.7762719	-96.7968559
Louella Renee Addison	09/13/2019	9	13	2019	Austin, Texas	Endangered Missing	Female	Black	08/09/1966	53	57	5'0	120 - 150 pounds	30.2711286	-97.7436995

Flask API and Visualizations

- Libraries
  - Flask_pymongo
  - Flask_cors

So what?

Conclusion

- Most missing cases occur in densely populated cities.
  - 112 Houston
  - 48 Dallas
  - 41 San Antonio
  - 33 Austin
- There appears to be more migrant missing cases near South Texas.
  - Closest to the border

Limitations

- It is likely that not all missing persons cases are reported
  - Ex. Homeless people
- The locations of missing people are not exact
- Were limited to Texas only, rather than the whole U.S.

References

https://charleyproject.org/case-searches/geographical-cases?region=Texas

https://www.researchgate.net/figure/Texas-Population-Density-by-County-Per-Square-Kilometer-Map-Created-by_fig1_349227052

https://tpwd.texas.gov/state-parks/nearby

https://namus.nij.ojp.gov/library/reports-and-statistics

Questions?