

Data Analytics Bootcamp

Project 1:

Hate Crimes in the United States

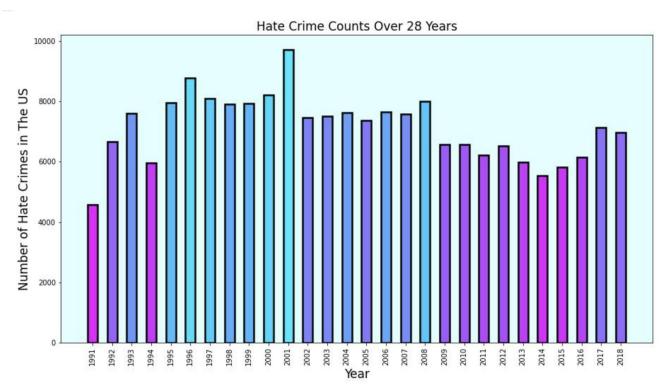
Group 3

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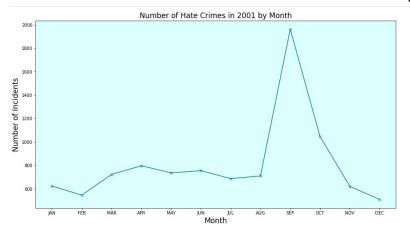
Introduction

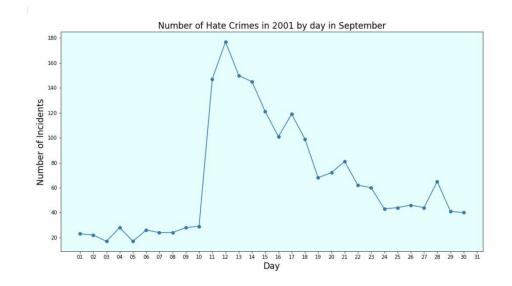
```
# Clean up the data
# Drop columns of data not needed
clean crime = crime data df.drop(columns=["ORI", "PUB AGENCY UNIT", "JUVENILE VICTIM COUNT", "ADULT VICTIM COUNT", "ADULT OFFENDER COUNT",
# Dropping "Guam", "Federal", "District of Columbia" from clean crime to keep only the named continental states
state drop = ["Guam", "Federal", "District of Columbia"]
clean crime = clean crime["Clean crime["STATE NAME"].isin(state drop)]
#Split Ofense names into main and sub categories to only look at the main offense
clean crime[["MAIN OFFENSE", "SUB OFFENSE"]] = clean crime["OFFENSE NAME"].str.split('/', n=1, expand= True)
clean crime["MAIN OFFENSE"] = clean crime["MAIN OFFENSE"].str.split(';', n=1, expand= True)
# Split the incident date into year, month, and day
dates = clean crime['INCIDENT DATE'].str.split("-", n = 2, expand = True)
# Add new columns to the cleaned dataframe and droped the original date column
clean crime["DAY"]= dates[0]
clean crime["MONTH"]= dates[1]
clean crime["LAT"] = ""
clean crime["LNG"] = ""
clean crime.drop(columns =["INCIDENT DATE"], inplace = True)
# Rename the year column and replace offender race to only the main category and change the order of the columns to have all 3 date column
clean crime.rename(columns={'DATA YEAR': 'YEAR'}, inplace=True)
clean crime['OFFENDER RACE'] = clean crime['OFFENDER RACE'].replace(['American Indian or Alaska Native', 'Asian', 'Native Hawaiian or Otl
clean crime= clean crime[['STATE NAME','STATE ABBR','PUB AGENCY NAME','LAT','LNG','YEAR',"MONTH","DAY",'MAIN OFFENSE','BIAS DESC','OFFENDI
#display new dataframe
# clean crime
```

What year had the highest number of hate crimes?

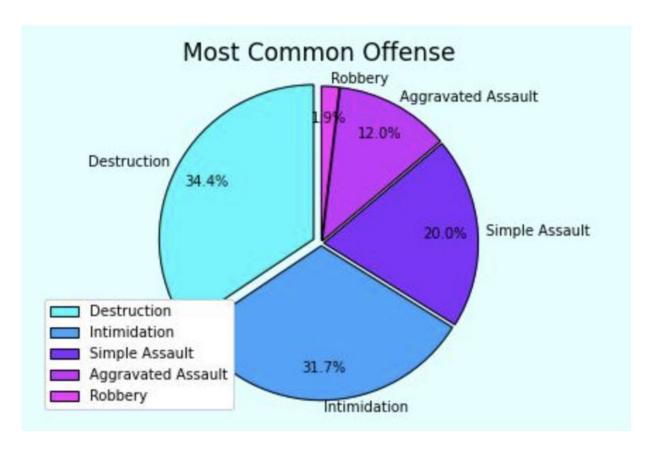


Did hate crimes spiked after 09/11/2001?

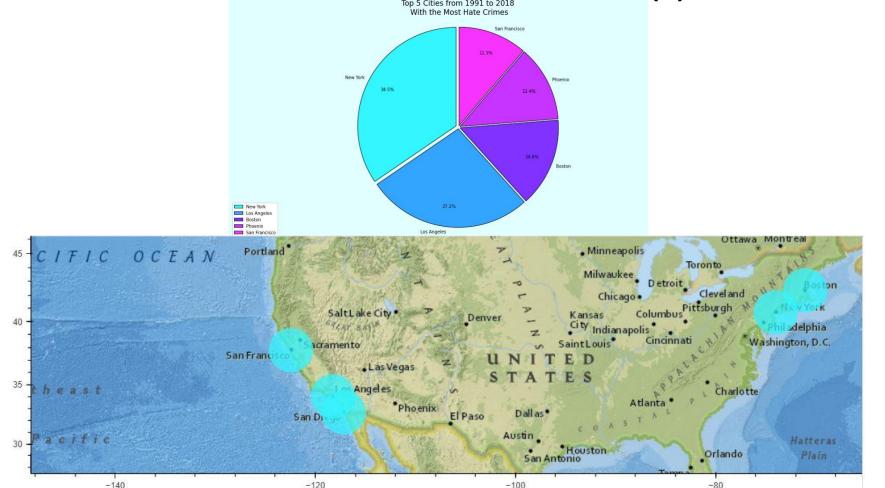




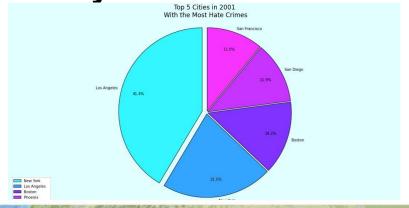
Which hate crime was most prevalent?

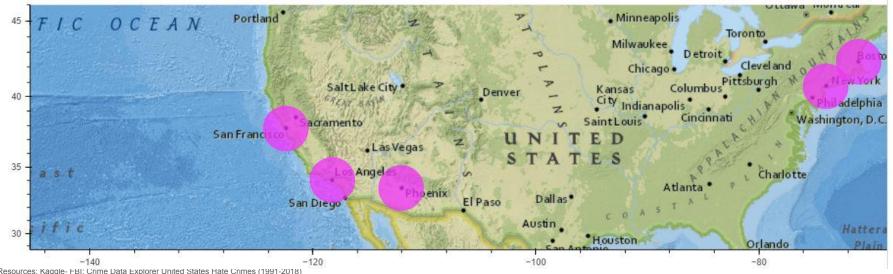


Which city has most hate crime(s)? Top 5 Cities from 1991 to 2018 With the Most Hate Crimes

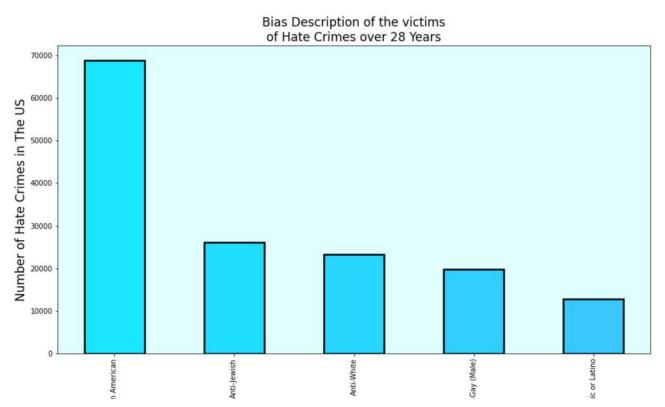


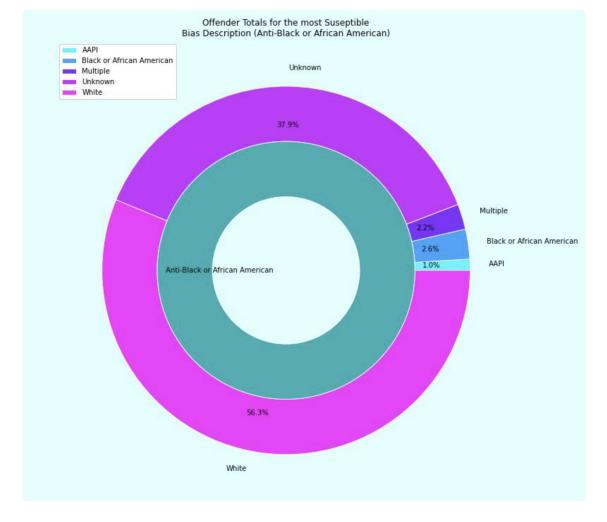
Which city has most hate crime(s)?





What targeted group is most susceptible?





Conclusion

- The most hate crimes occurred during the year of 2001, with a total of 9,730
- California was the state with the most reported hate crimes of 33,891
- The frequent occurring hate crime is Destruction/Damage/Vandalism of Property with a total of 64,534
- The most susceptible targeted group is Anti-Black with a total of 68,882

We looked at several crime datasets and we landed on the FBI's hate crime data. Hate crimes was an interesting specific type of crime to look at and the dataset was plentiful.



Questions and Feedback

Questions:

Which hate crime most prevalent?

Destruction/Damage/Vandalism of Property

What bias targeted group is most susceptible?

Anti-Black or African American

Which city/state has most hate crime(s)?

New York, New York and Los Angeles, California

What is correlation of the most common crimes throughout the years?

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