

# TRENDS IN HATE CRIMES IN THE US





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## DATA RETRIEVAL & CLEANUP

### FBI DATABASE

We retrieved our main data from the FBI's website for Hate Crime Statistics in the US. The tables came as excel files which required cleaning.

### VBA CLEANUP

In order to efficiently read large tables, we used a VBA code to repeat values to be read by our python code in Jupyter Notebooks.

### CENSUS API

We used the Census API to retrieve information on the english speaking population of a given city (cities that reported to the FBI).

### PANDAS CLEANUP

In our notebooks, once we retrieved our excel files, the dataframes we created from the excel tables required further cleaning through pandas.

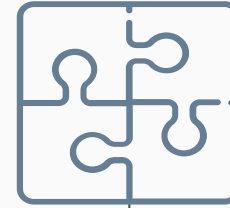
## HOW DATA IS COLLECTED



The attorney general delegated a congressional mandate (to collect data) to the FBI, who in turn developed a hate crime data collection system within the Uniform Crime reporting system.



Local law enforcement agencies must be considered the logical collection point of crime reporting data in any given location. However, the reporting of hate crime data and statistics to the FBI is voluntary.



The FBI collects the data from the reporting agencies from each location and pieces them together. The main categories covered are offense type, bias motivation, and location.

# QUESTION 1

What is the most common type of Hate Crime across the United States?

# QUESTION 2

Where do Hate Crimes most commonly occur?

# QUESTION 3

Is there a correlation between the population of English-Only speakers to the amount of incidents that occur in that population?

# AGENCY REPORTING

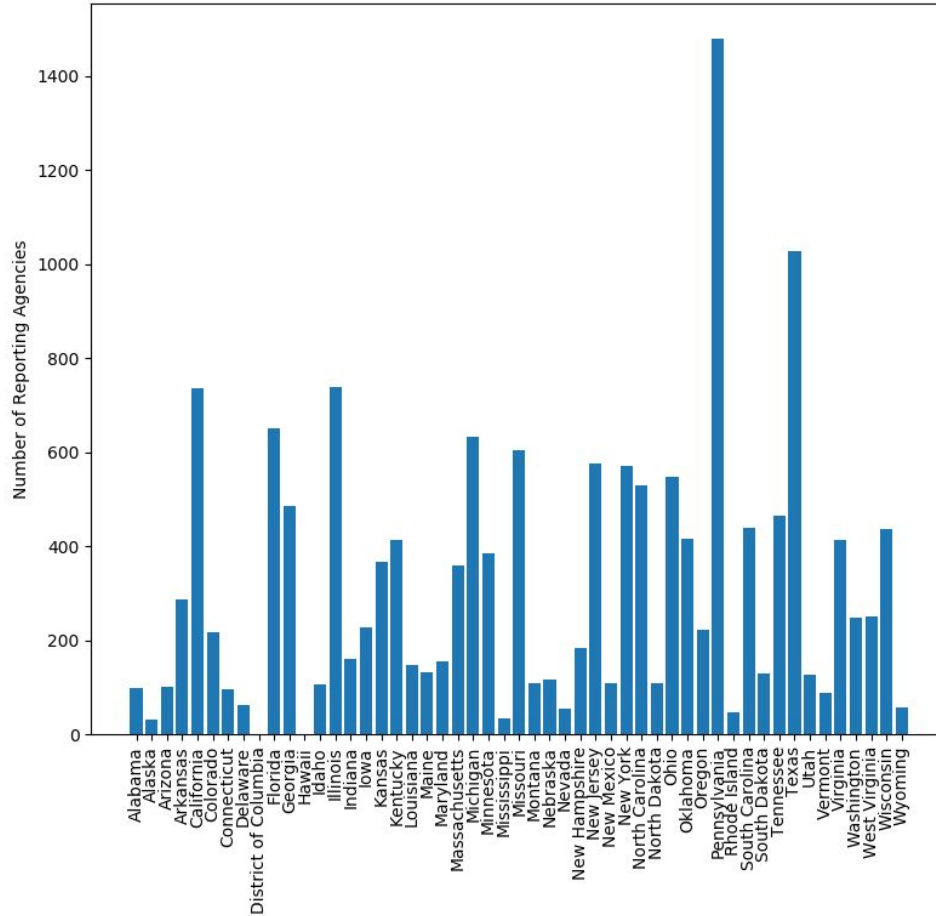
Because reporting is voluntary, we found that a couple of states didn't report any incidents and some states reported very few incidents compared to their population covered.





**INCIDENTS  
REPORTED BY  
POPULATION**

Number of Reporting Agencies per State or Federal Office



**NUMBER OF  
REPORTING  
AGENCIES PER  
STATE**

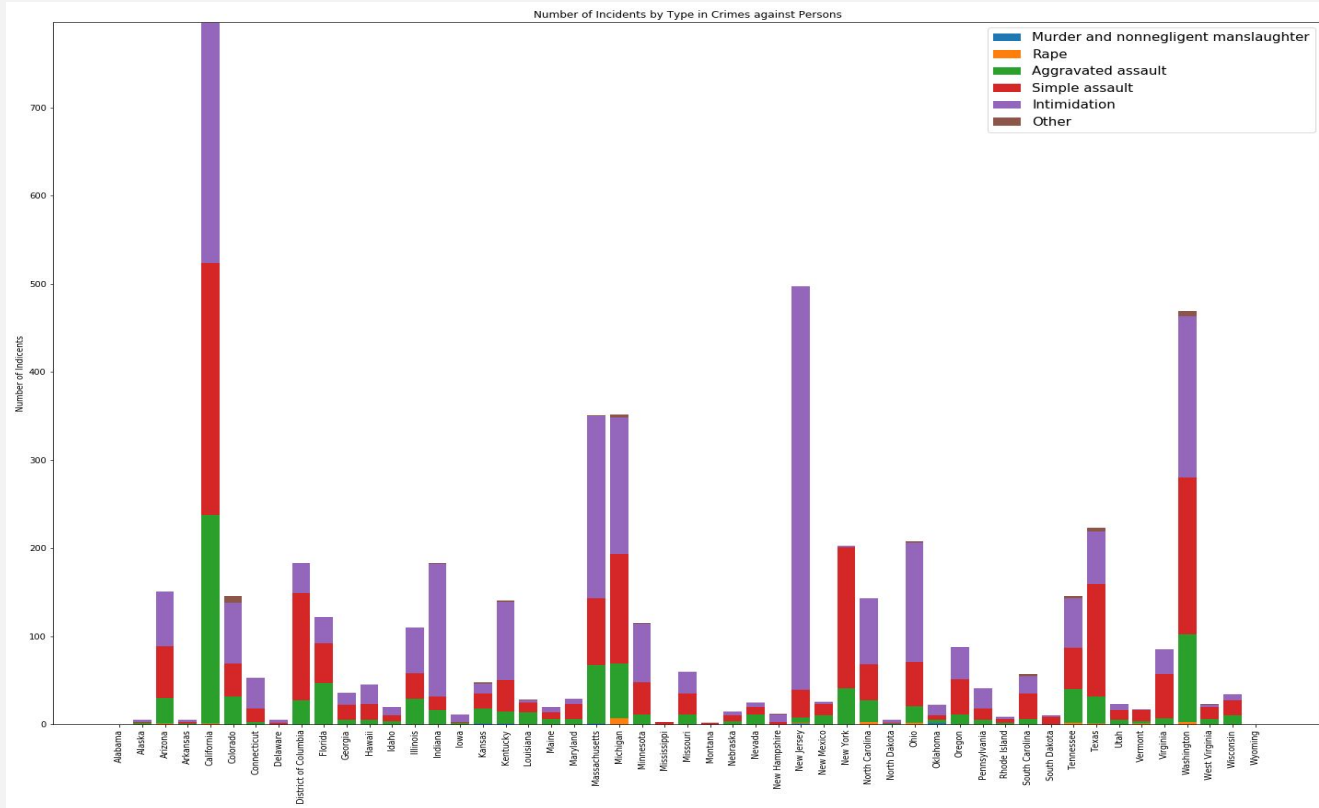


# NUMBER OF INCIDENTS BY STATE

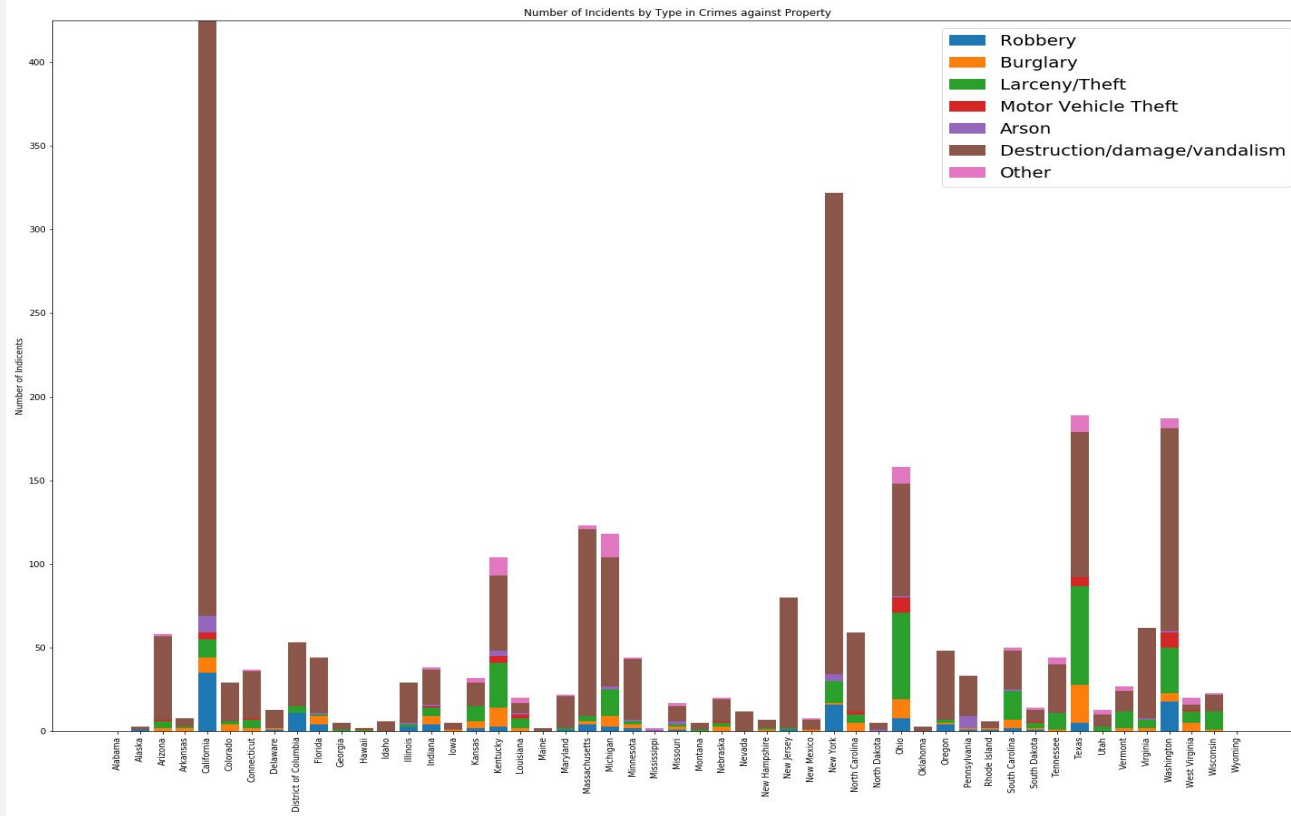
Incidents organized by Offense Type



## NUMBER OF INCIDENTS BY STATE: CRIMES AGAINST PERSONS

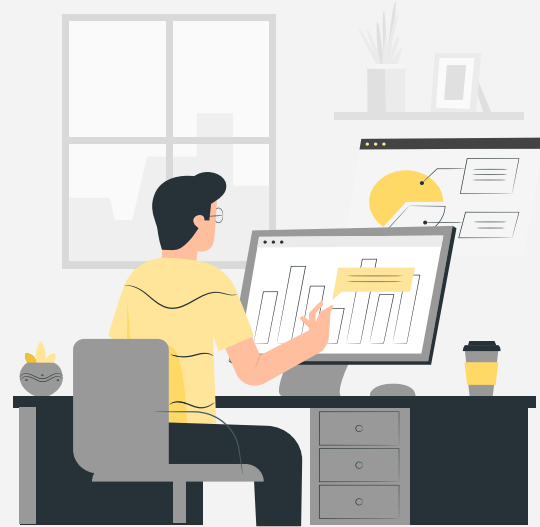


## NUMBER OF INCIDENTS BY STATE : CRIMES AGAINST PROPERTY

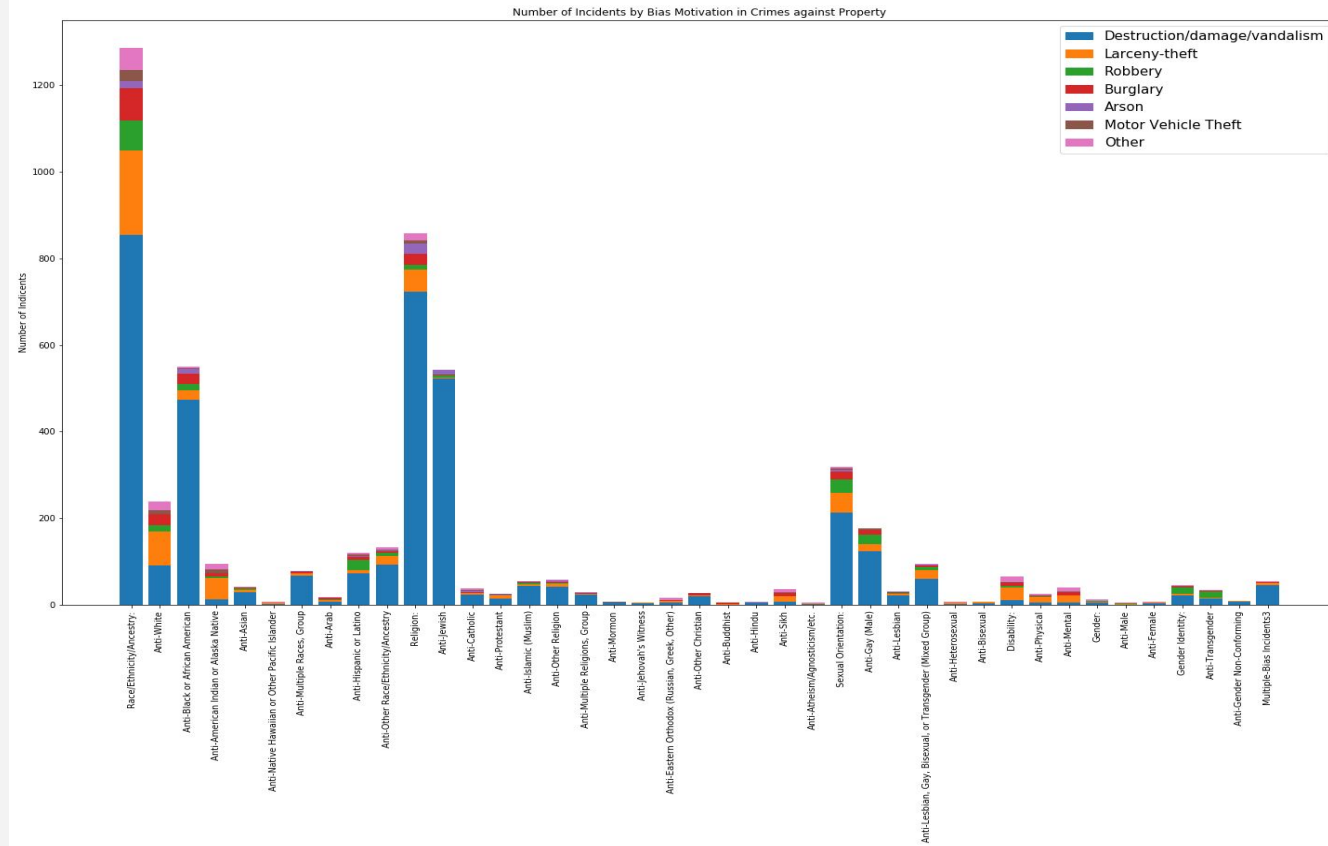


# NUMBER OF INCIDENTS BY BIAS MOTIVATION

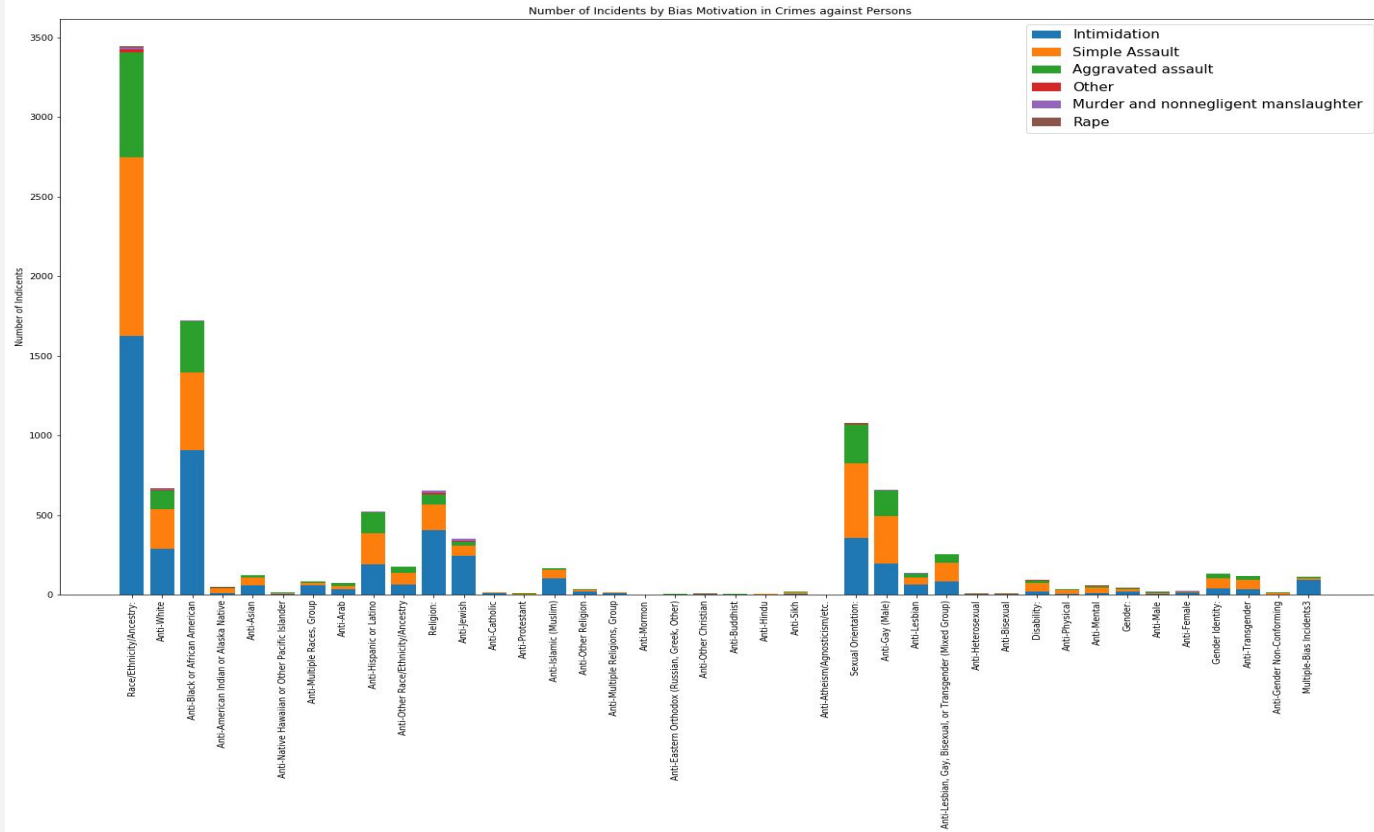
Incidents organized by Offense Type



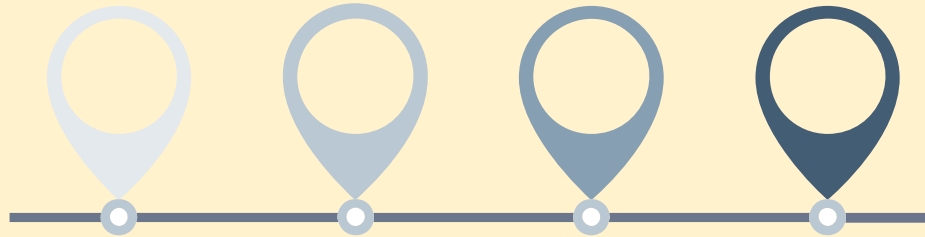
## NUMBER OF INCIDENTS BY BIAS MOTIVATION: CRIMES AGAINST PROPERTY



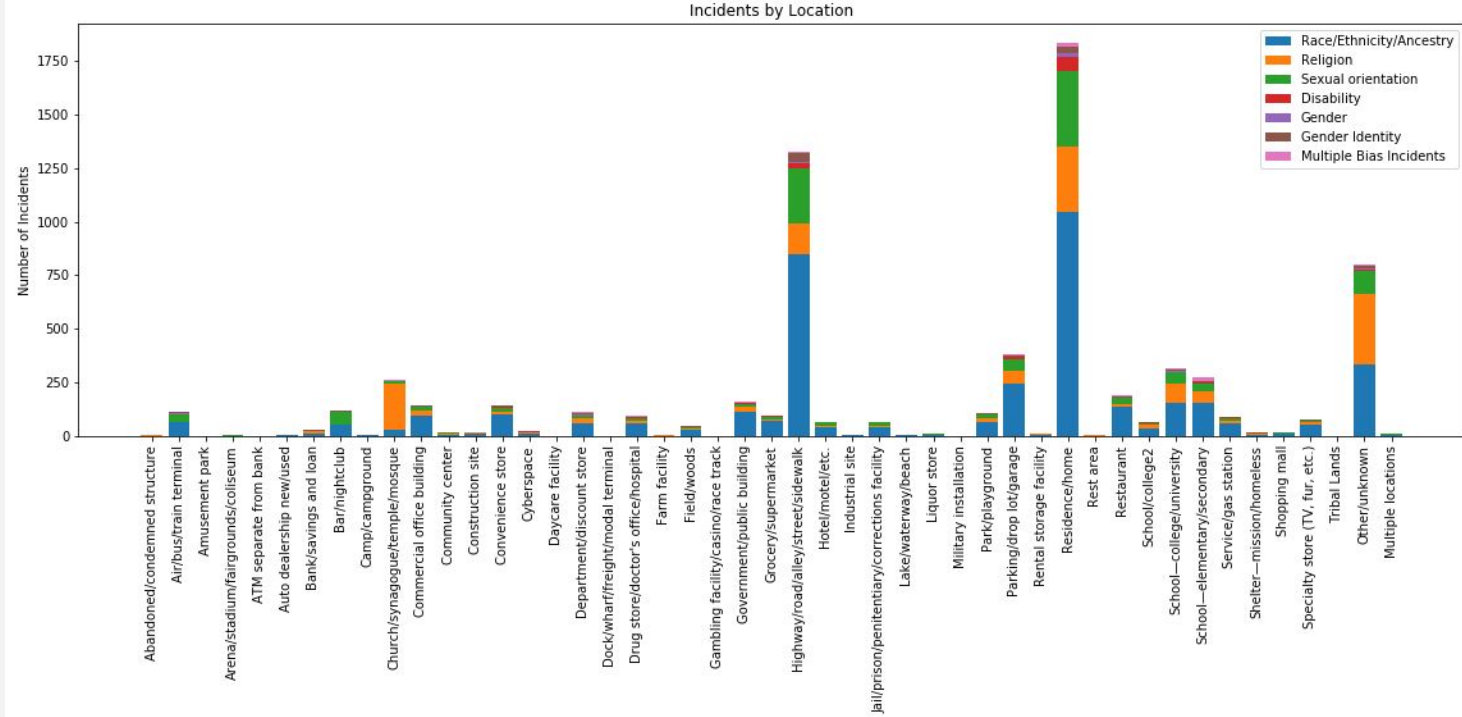
## NUMBER OF INCIDENTS BY BIAS MOTIVATION: CRIMES AGAINST PERSONS



## BIAS MOTIVATION BY LOCATION



## BIAS MOTIVATION BY LOCATION TYPE

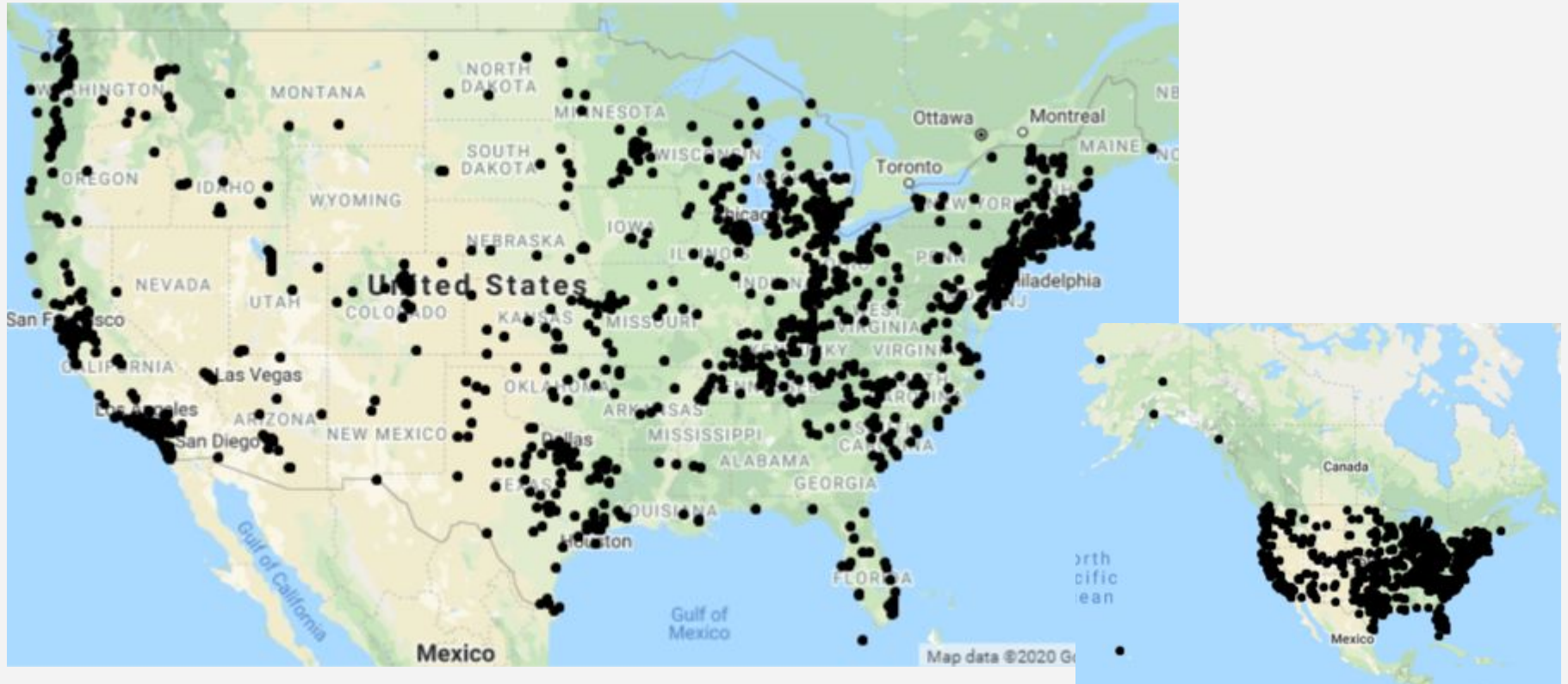




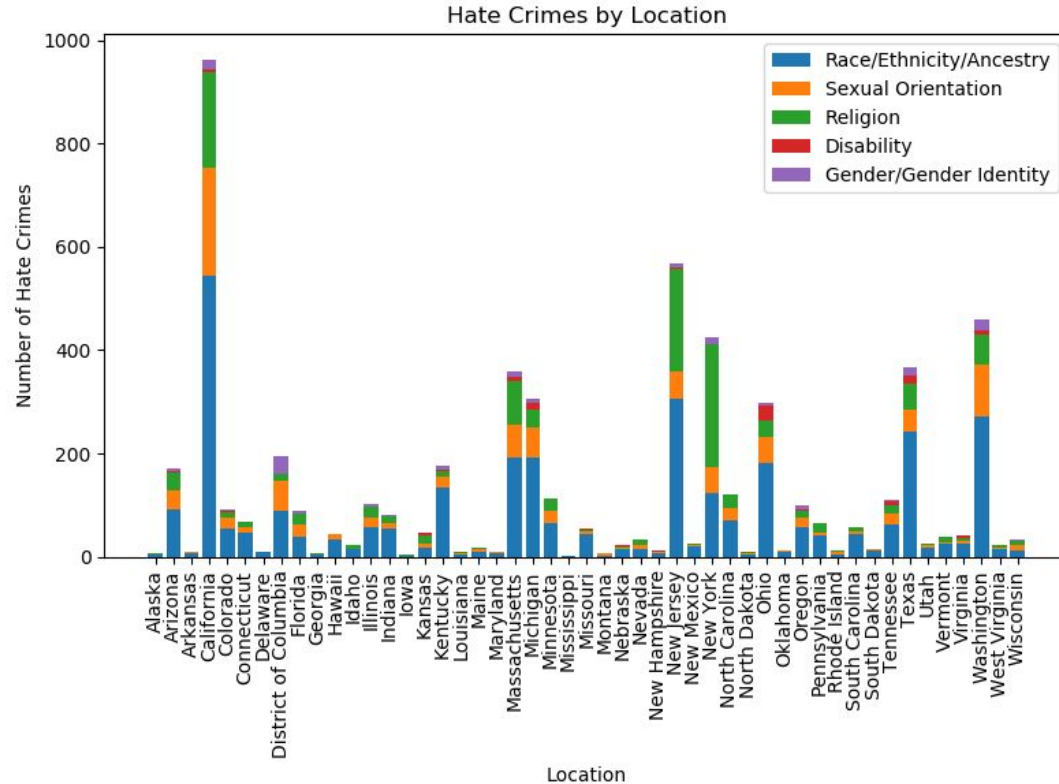


## **INCIDENTS BY STATE**

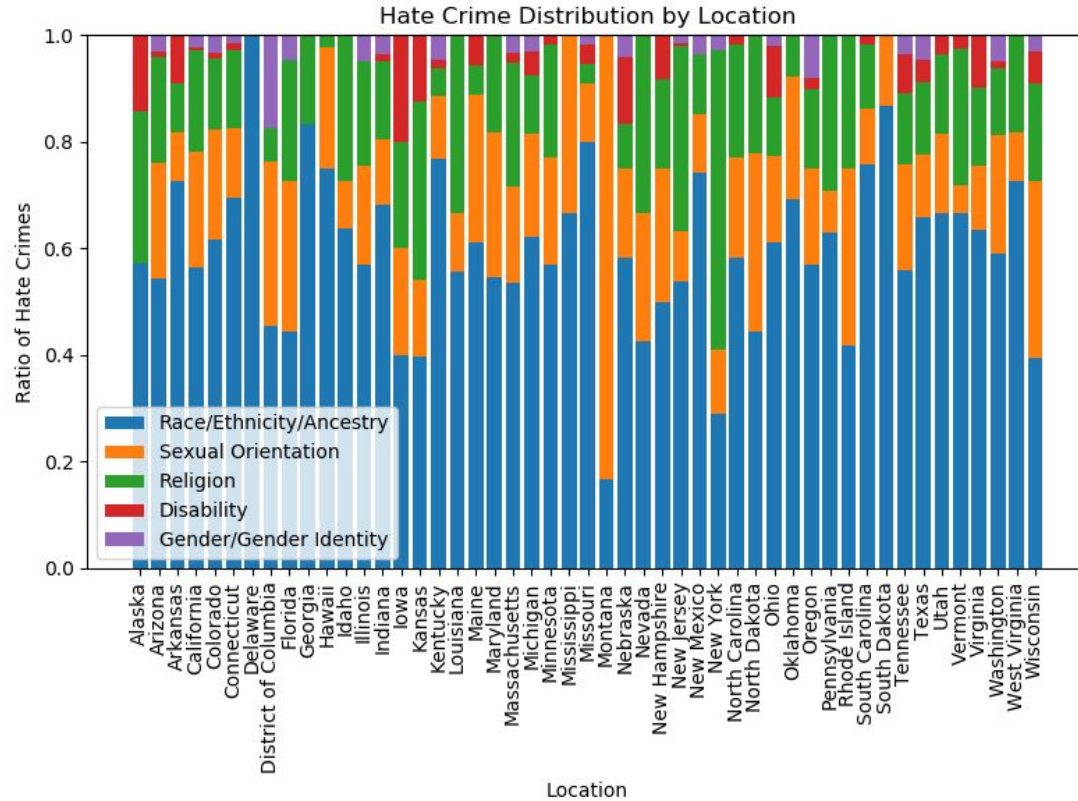
## NUMBER OF INCIDENTS PER STATE



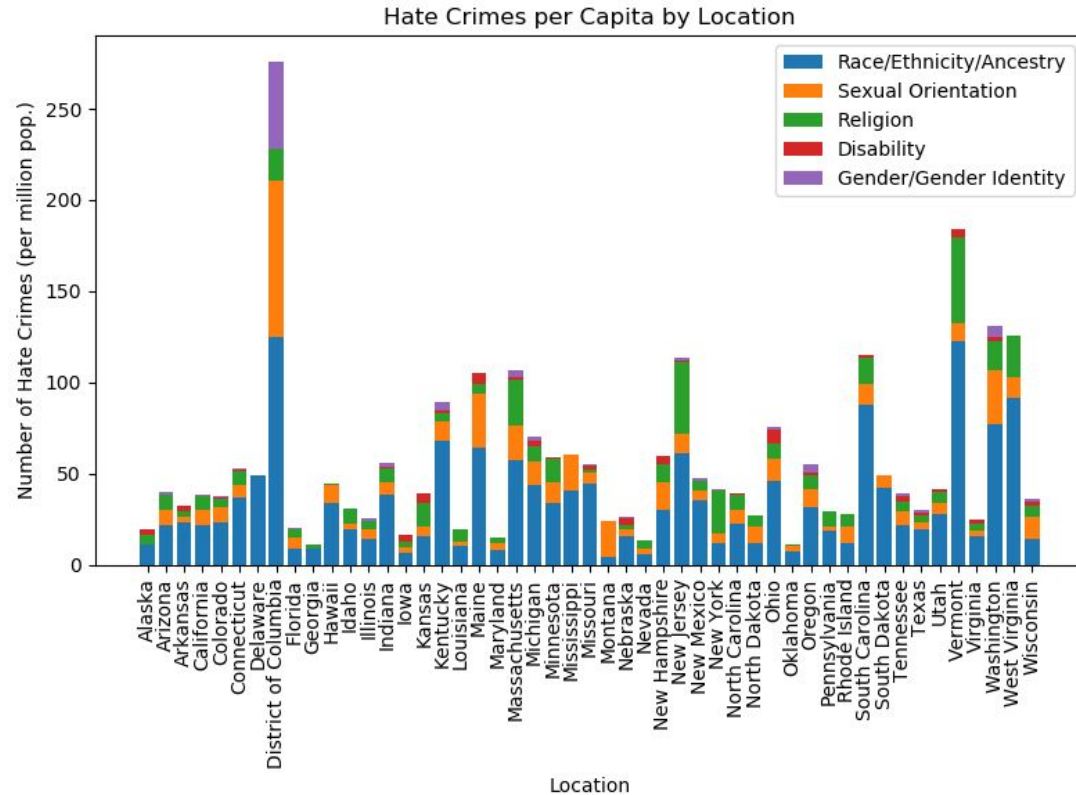
## BIAS MOTIVATION BY STATE



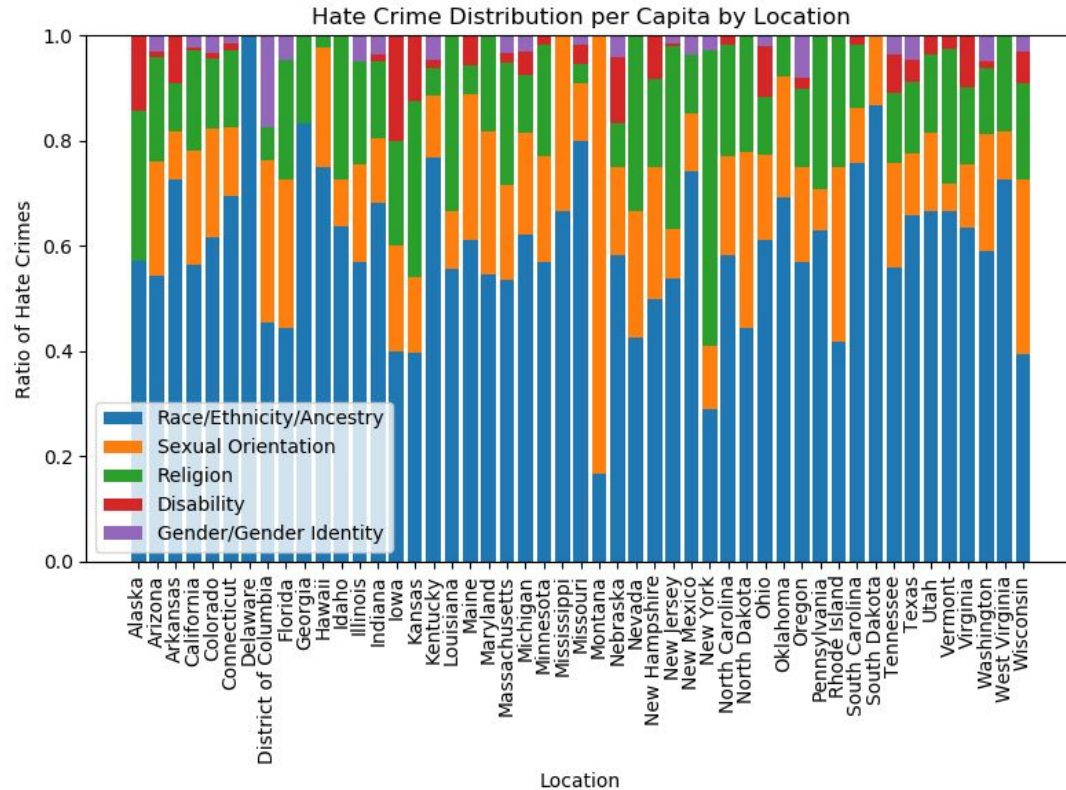
## BIAS MOTIVATION BY STATE



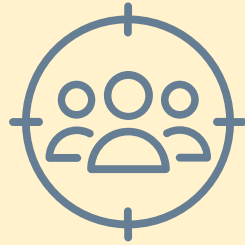
## NUMBER OF INCIDENTS (PER MILLION POP) BY BIAS MOTIVATION



## INCIDENTS BY BIAS MOTIVATION PER CAPITA

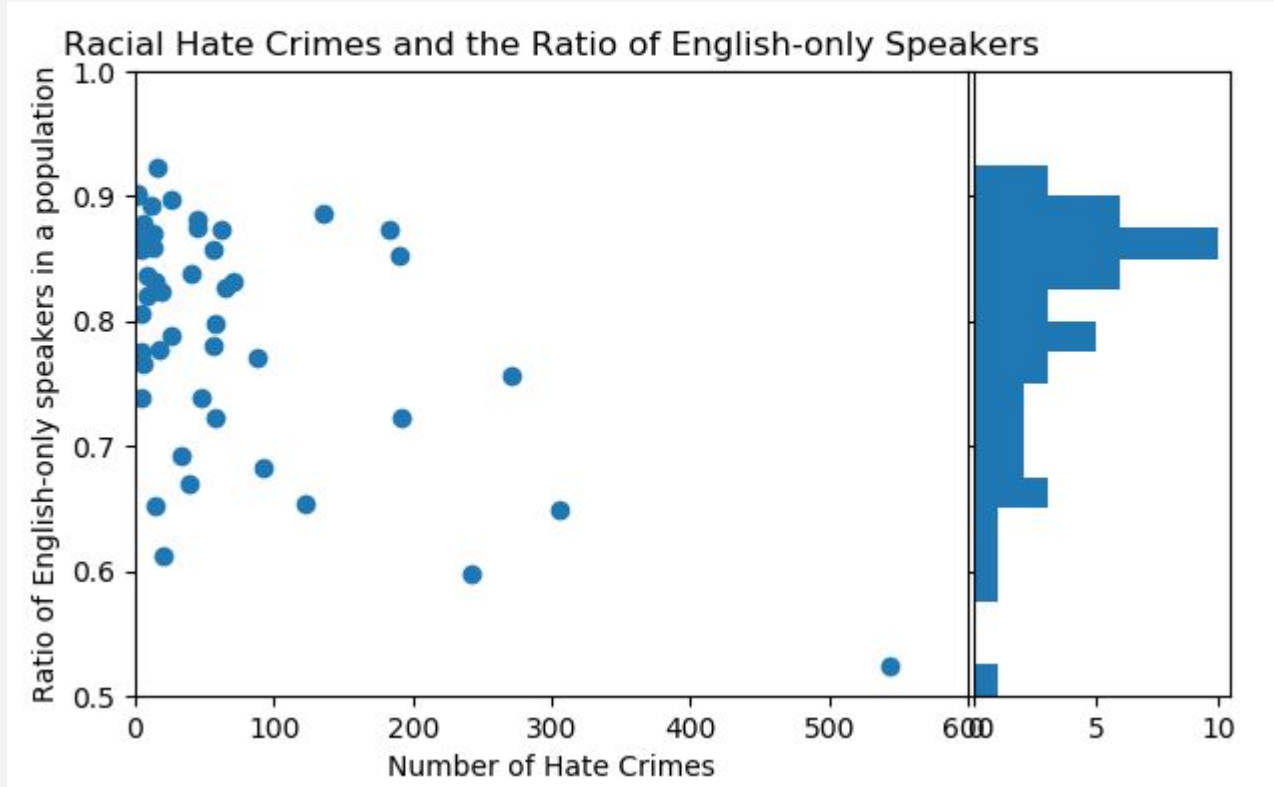


## **CROSS REFERENCING THE US CENSUS**



(-0.5474155325921943, 4.6904447245066614e-05)

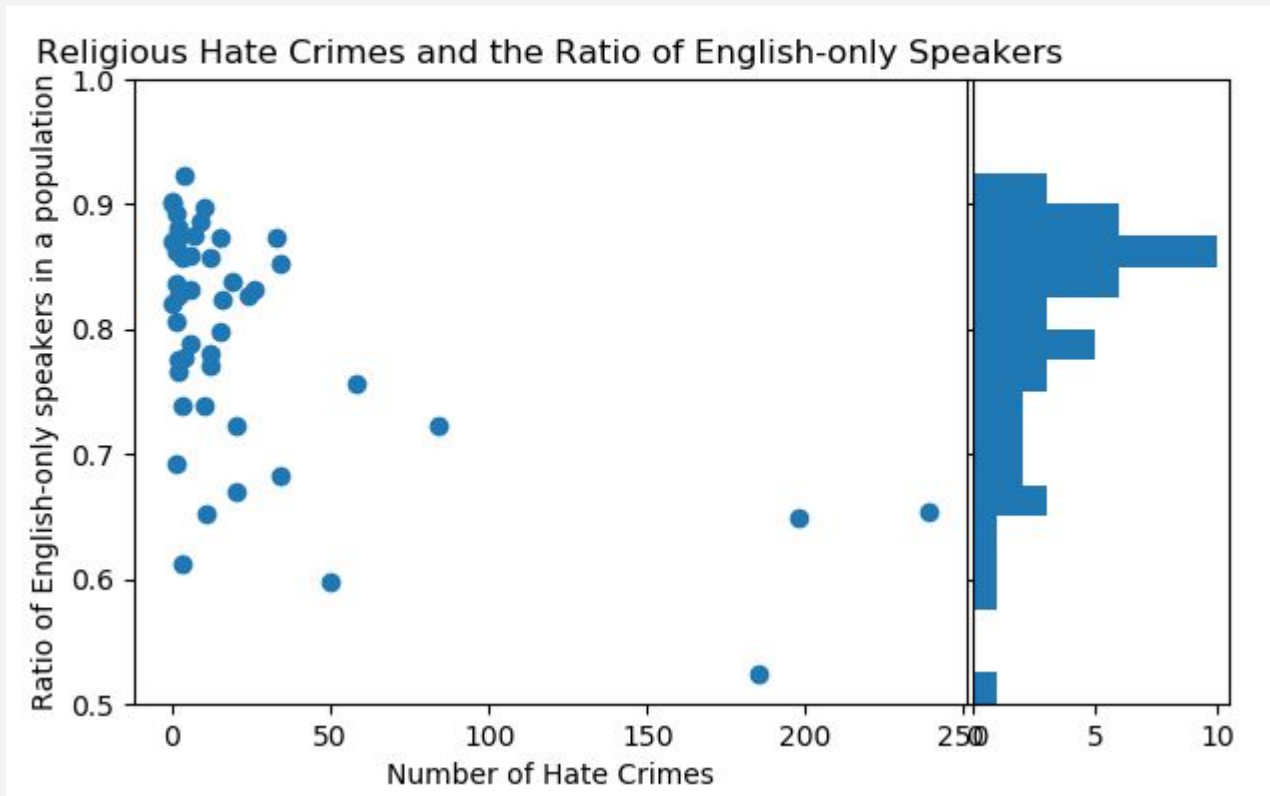
## RACIAL HATE CRIMES TO POPULATION OF ENGLISH ONLY SPEAKERS



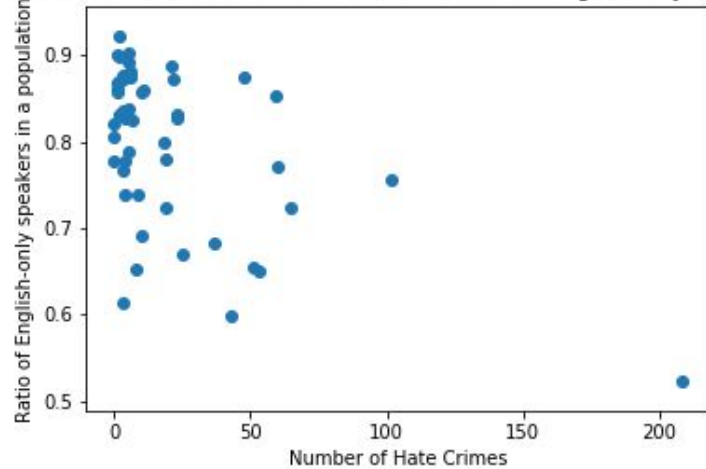


(-0.5766945328172296, 1.4446413510251614e-05)

## RELIGIOUS HATE CRIMES TO POPULATION OF ENGLISH ONLY SPEAKERS



Sexual Orientation Hate Crimes and the Ratio of English-only Speakers:



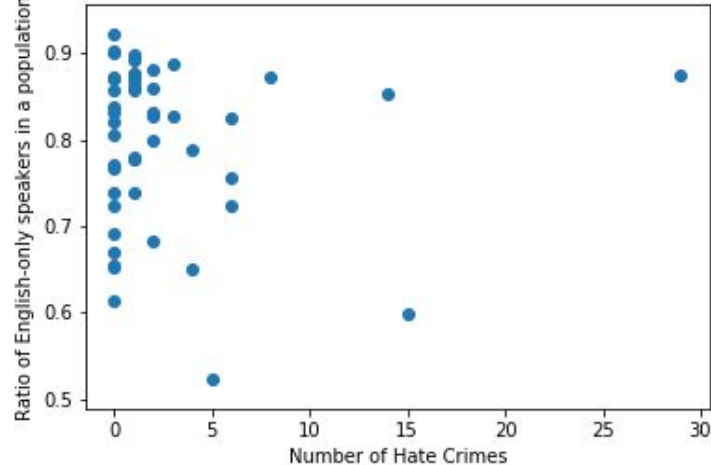
## MORE BIAS MOTIVATIONS TO POPULATION OF ENGLISH ONLY SPEAKERS

$(-0.5466954394263093, 4.821656664722198e-05)$

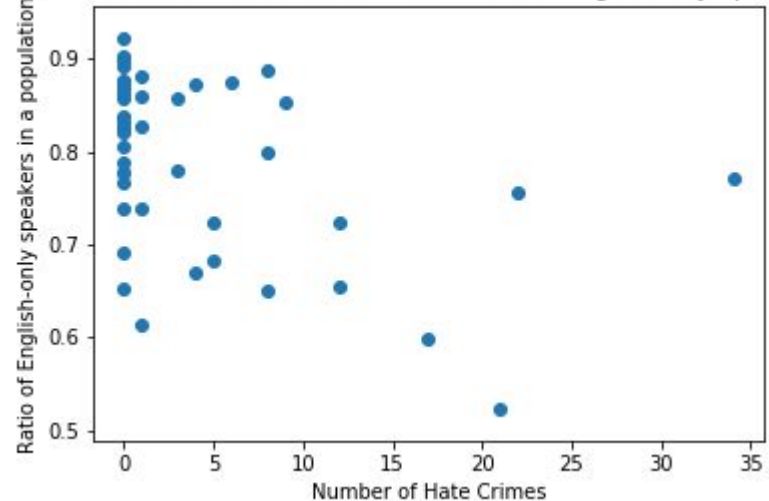
$(-0.03339095883123549, 0.8198280175299527)$

$(-0.44290016236111207, 0.0014382354940464539)$

Disability Hate Crimes and the Ratio of English-only Speakers



Gender-based Hate Crimes and the Ratio of English-only Speakers



# FINAL CONCLUSIONS



**WHAT IS THE MOST  
COMMON TYPE OF HATE  
CRIME ACROSS THE  
UNITED STATES?**

Intimidation and  
Destruction/Vandalism  
are the most common  
bias motivations for Hate  
Crimes.

**IS THERE A  
CORRELATION BETWEEN  
THE POPULATION OF  
ENGLISH-ONLY  
SPEAKERS TO THE  
AMOUNT OF INCIDENTS  
THAT OCCUR IN THAT  
POPULATION?**

There is a correlation  
between populations with  
a low english-only  
speaking population to  
number of Hate Crimes  
(except for a bias  
motivation of disability).

**WHERE DO HATE CRIMES  
MOST COMMONLY  
OCCUR?**

Hate Crimes occur most  
often in  
Homes/Residences and  
highways/roads.

