# Data Sci: Group 10 Data Brainstorm

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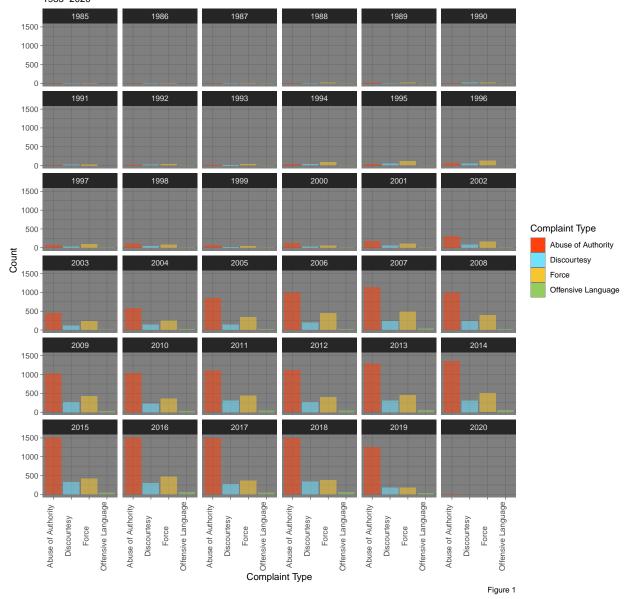
#### Names of Variables in Data Set:

```
allegations <- read.csv("allegations_202007271729.csv")</pre>
names(allegations)
   [1] "unique_mos_id"
                                    "first_name"
##
   [3] "last_name"
                                    "command_now"
   [5] "shield_no"
                                    "complaint_id"
## [7] "month_received"
                                    "year_received"
## [9] "month_closed"
                                    "year_closed"
## [11] "command_at_incident"
                                    "rank_abbrev_incident"
## [13] "rank_abbrev_now"
                                    "rank_now"
## [15] "rank_incident"
                                    "mos_ethnicity"
## [17] "mos_gender"
                                    "mos_age_incident"
## [19] "complainant_ethnicity"
                                    "complainant_gender"
## [21] "complainant_age_incident" "fado_type"
## [23] "allegation"
                                    "precinct"
## [25] "contact reason"
                                    "outcome_description"
## [27] "board_disposition"
```

#### 1.

Ran a histogram of complaint type, separated by year. Noticed that years  $1985 \sim 2000$  have a limited amount of data. May need to research as to why.

# Complaint Type Histogram through Year 1985–2020



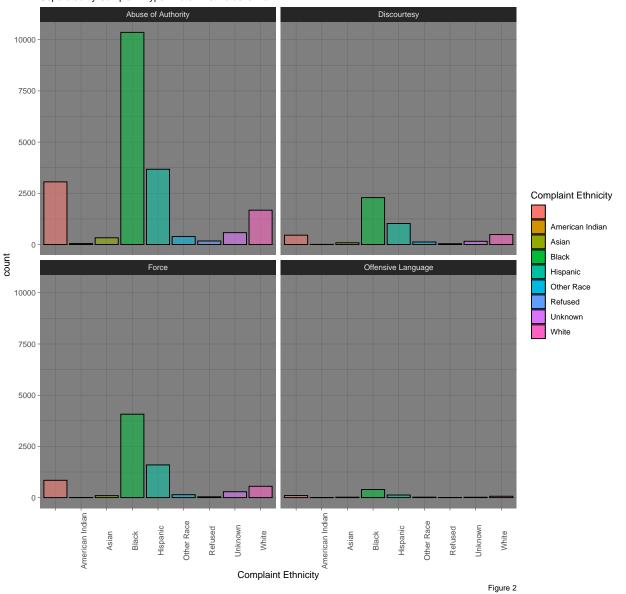
## 2.

Figure 2 is a density bar graph of complaint ethnicity, separated by complaint type. I wanted to see if there were any trends in complaints depending on ethnicity of the victim.

I noticed in this graph that there are a lot of \_\_\_\_\_ or 'blank', 'unfilled' categories in this data set. These are in addition to several 'NA' or 'Unknown' categories. We will likely have to decide on a path on how to rewrite, categorize, or otherwise parse the missing data.

```
facet_wrap(~fado_type)+
labs(title = "Complaintant Ethnicity Bar Chart", subtitle = "Seperated by Complaint Type. Note: Firs
theme_dark()+
theme(axis.text.x = element_text(angle = 90))+
scale_fill_discrete(name = "Complaint Ethnicity")+
guides(alpha = FALSE)
```

### Complaintant Ethnicity Bar Chart Seperated by Complaint Type. Note: First Value is Blank



## 3.

Figure 3 is a density bar graph of board\_disposition, which I believe to be the outcome of the complaint - separated by mos\_ethnicity, which I believe to be officer ethnicity.

A quick research into the data lead me to believe that 'mos' in this data set stands for Member of Service,

or police officer.

Here I was checking for patterns if there were any obvious outcome bias depending on officer ethnicity.

## Officer Complaint Outcome Bar Chart

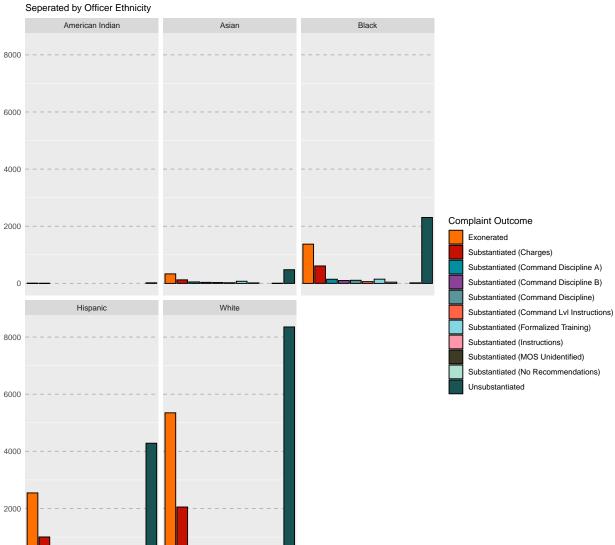


Figure 3

Board Disposition (Complaint Outcome)

## 4.

Here I did a quick scan on compliant type by complainant\_gender. As the graph-set shows, there are a lot of different and unknown gender variables for complainants. If we want to work with complainant gender, we may want to limit or parse the 4 low-value and/or missing categories (Transman, Not described, Transwoman, Gender non-conforming)

