
A Study of Philadelphia Police Complaints

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Tools Used

Tableau

Python Pandas

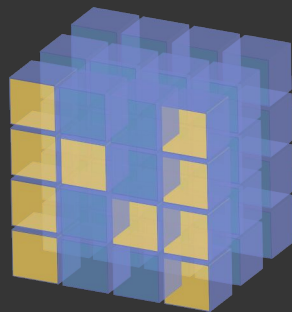
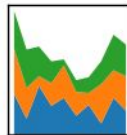
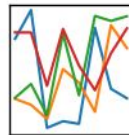
NumPy

Carto



pandas

$$y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$$



NumPy

CARTO

Data Sets

Our data was retrieved from the Philly Open Data set and the Census American Community Service 2018 for Philadelphia.



Data recorded individual complaints of Philadelphia residents against police officers, and demographic information of the affected

Data was mostly reliable, but ambiguities and reporting errors existed in the date of complaint events and outcome of the complaint.



Research Goals

We hoped to see how the **outcomes** and **prevalence** of complaints against police officers differed based on the **race, gender, and geographic location** of the complainant.

We also looked at the differences in outcome based on the **type of complaint**.



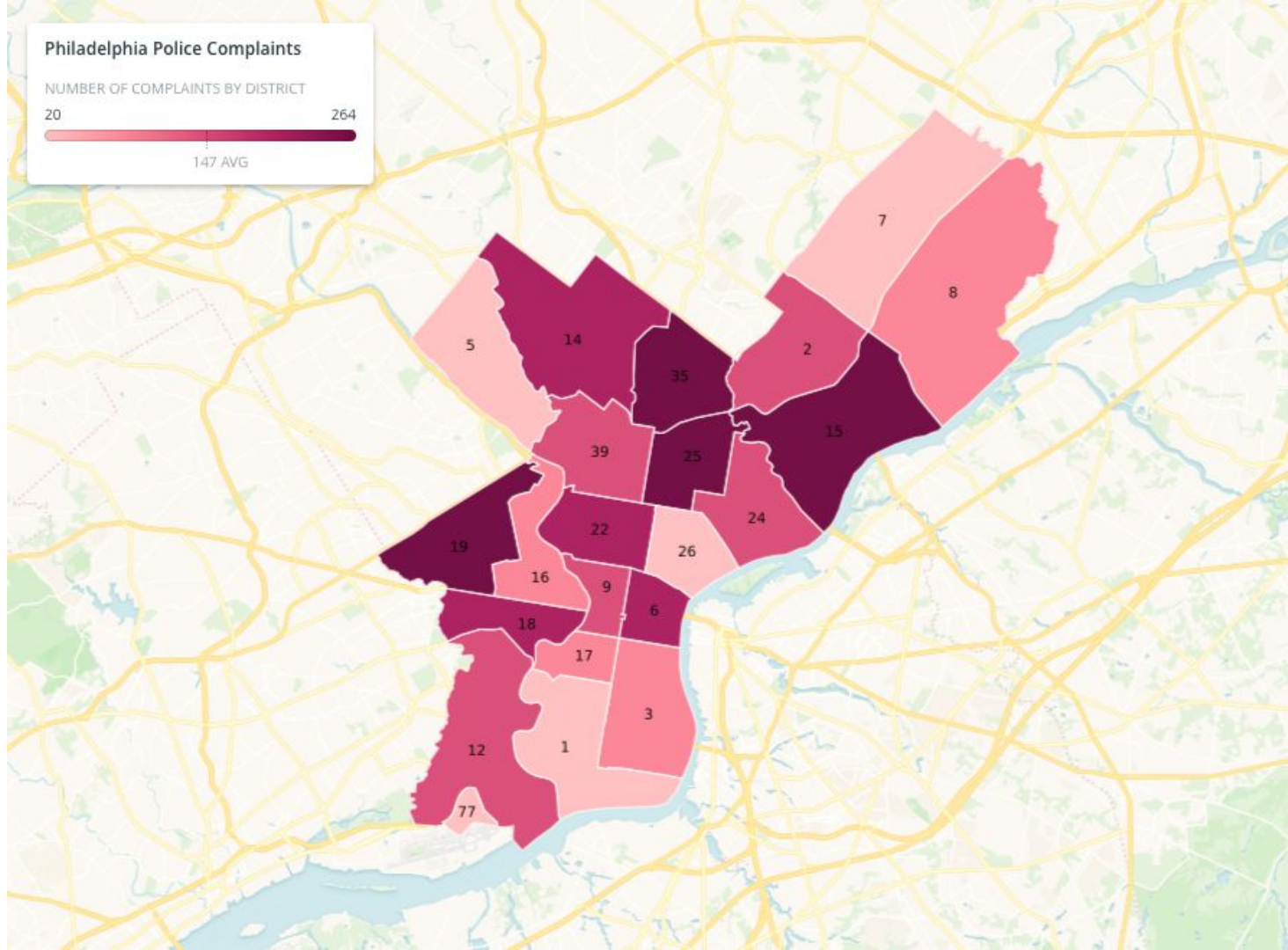
Philadelphia Police Complaints

NUMBER OF COMPLAINTS BY DISTRICT

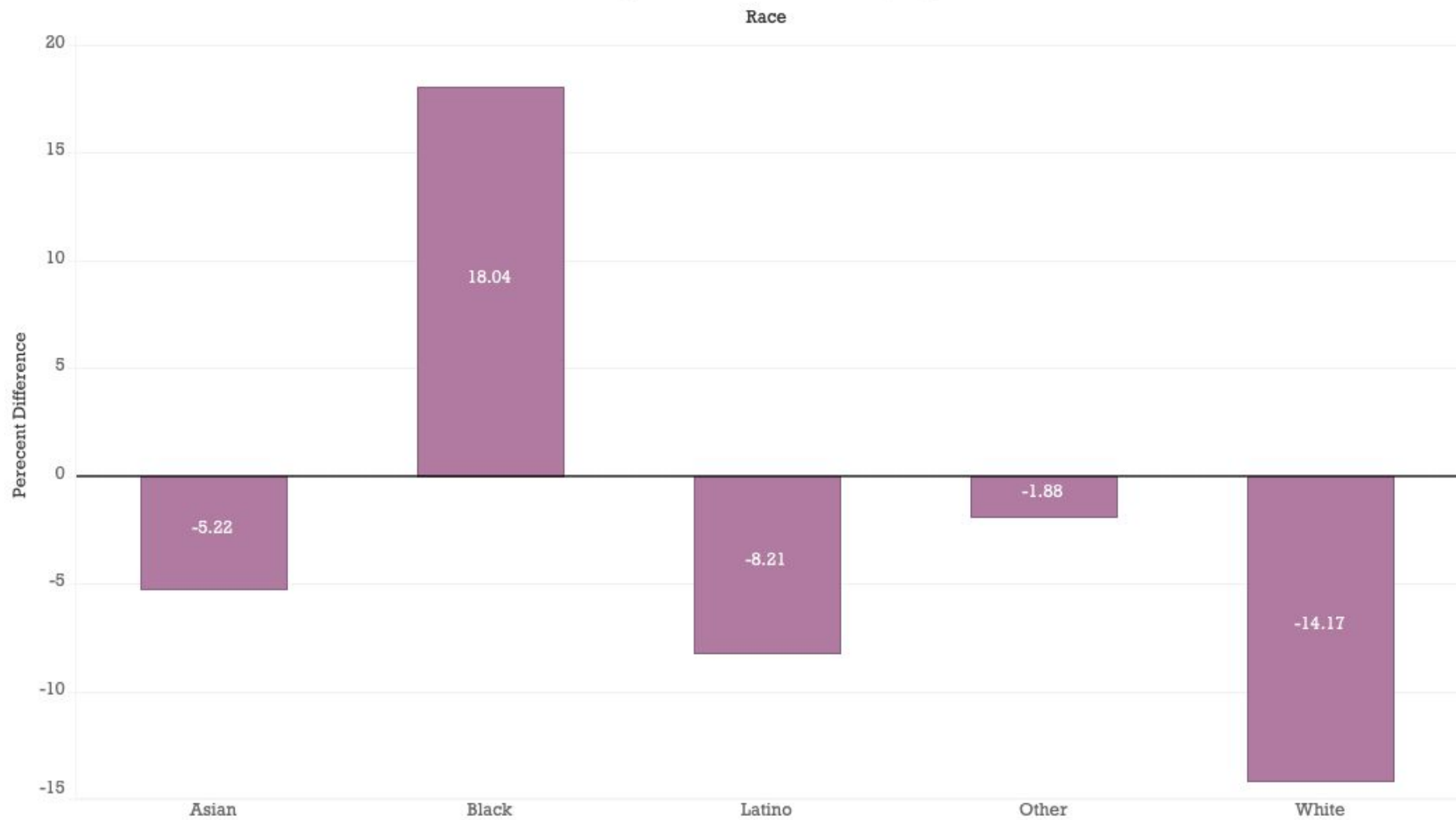
20

264

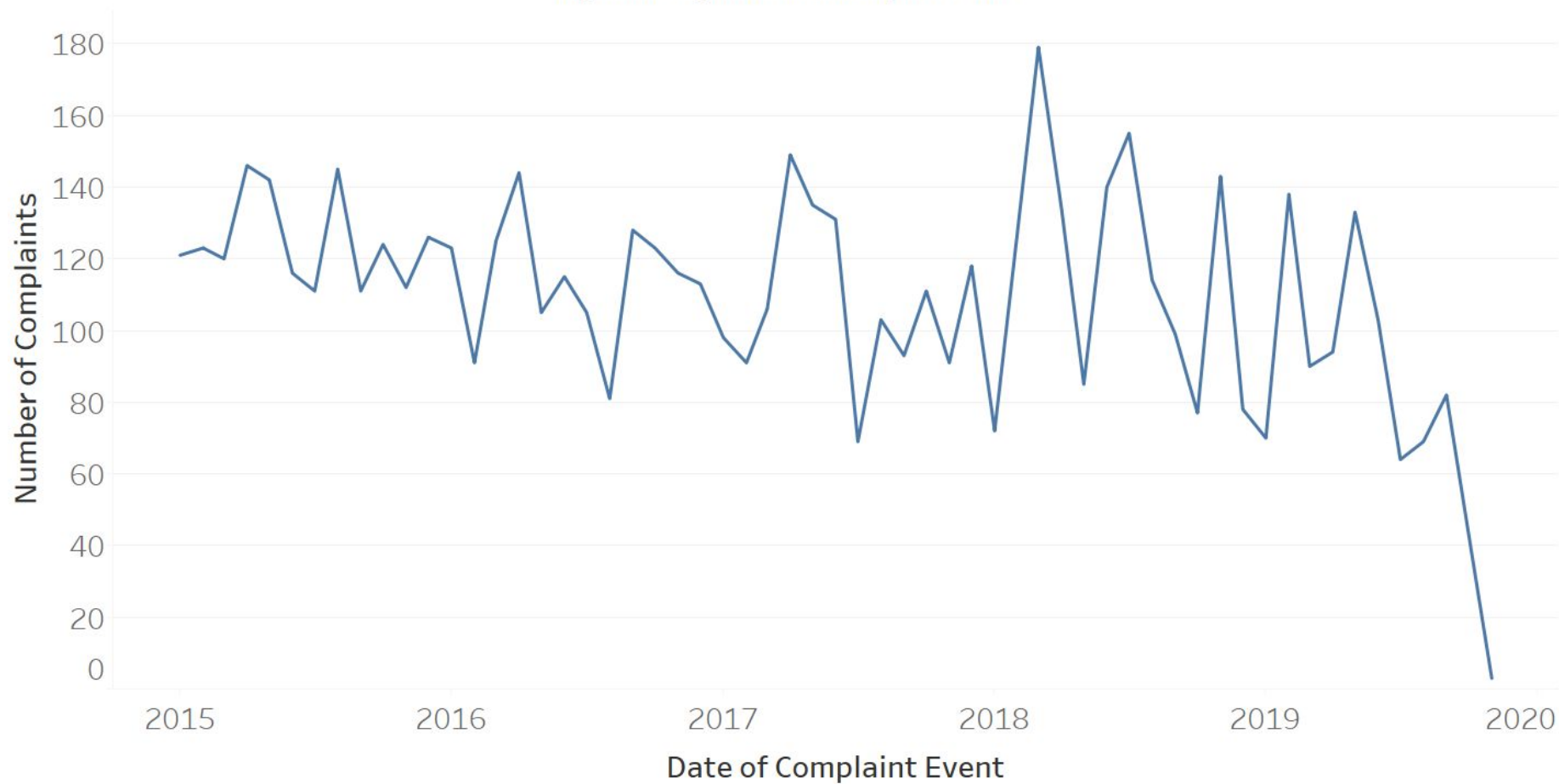
147 AVG



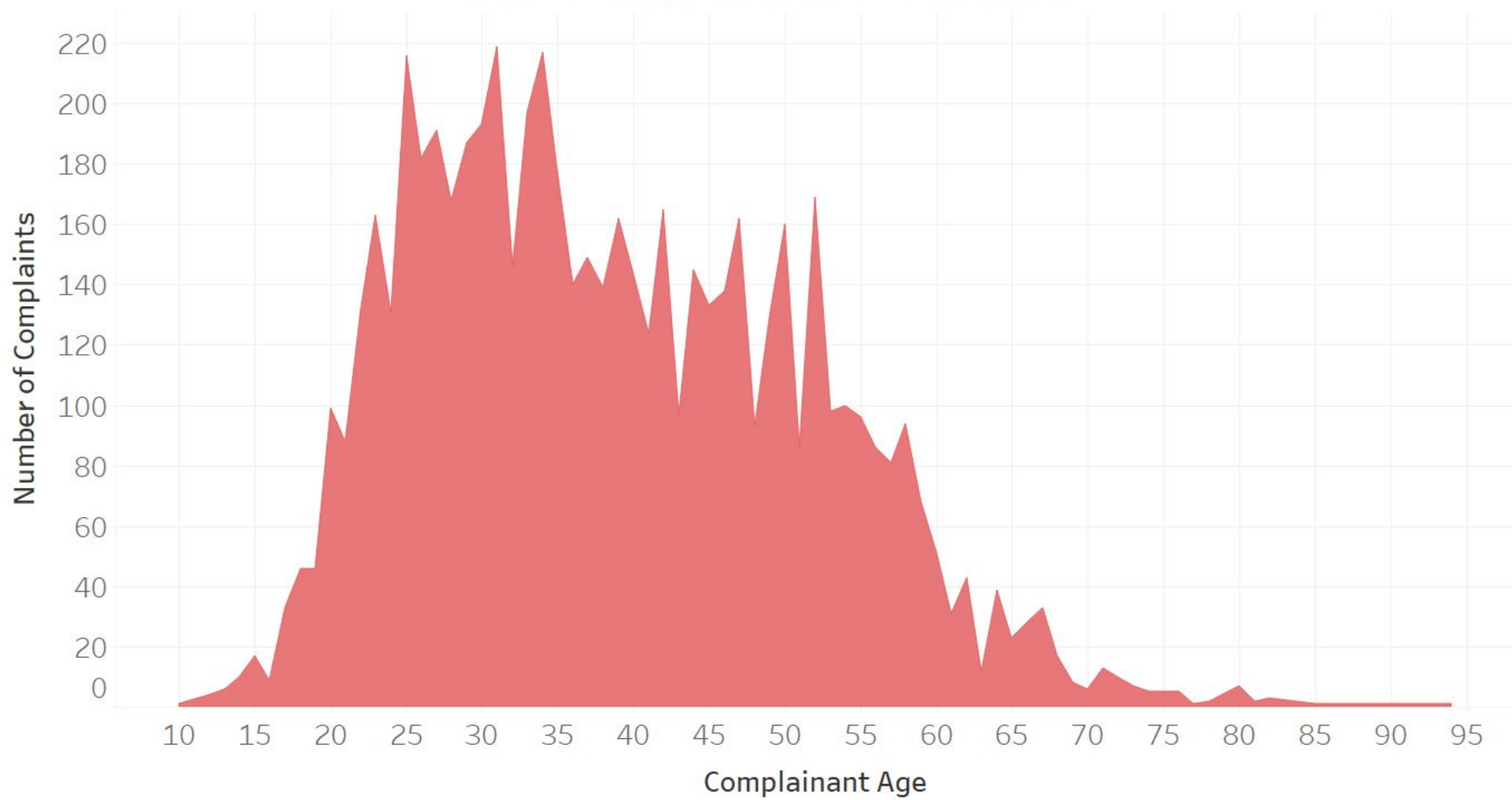
Difference Between Philadelphia City & Police Complaint Racial Demographics



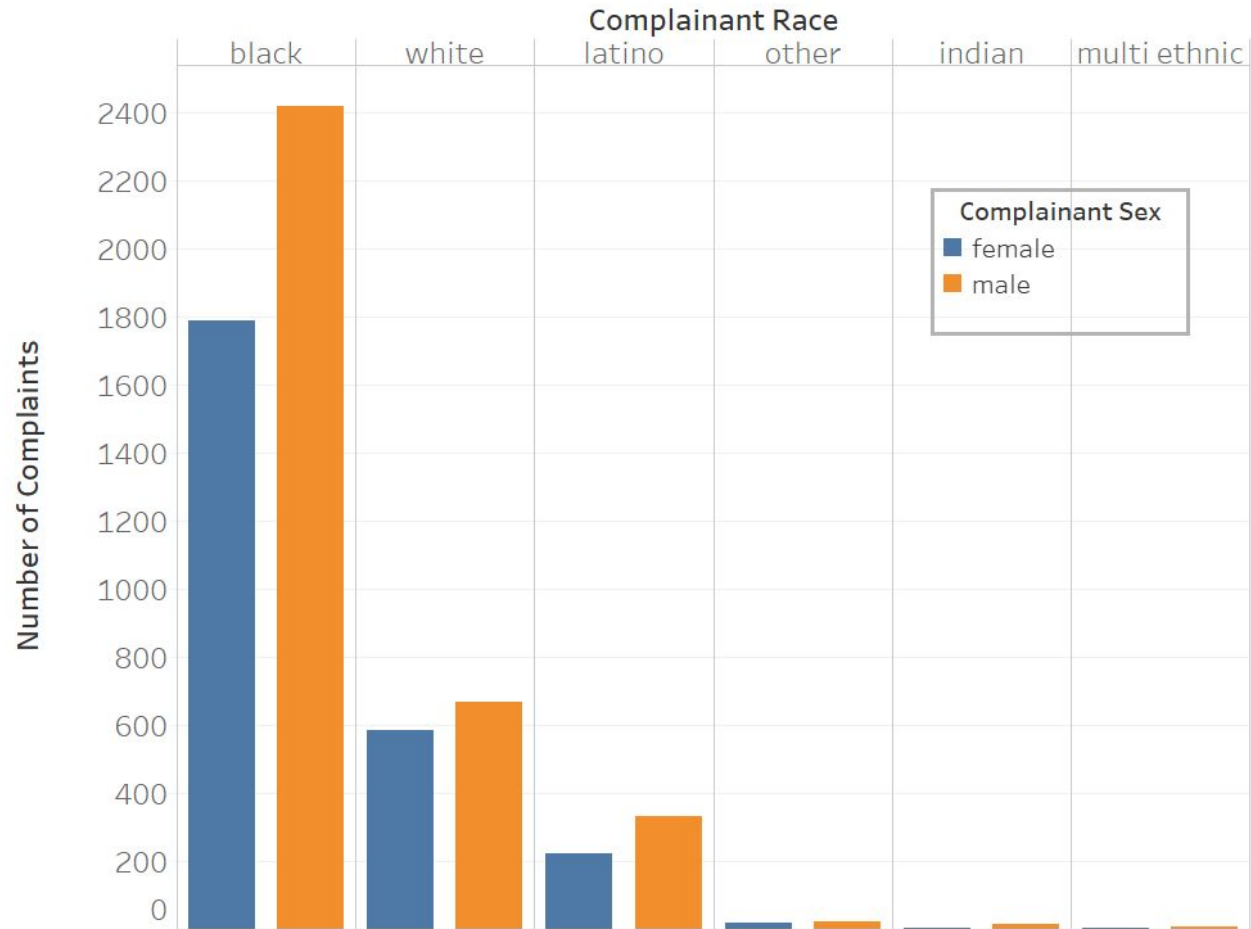
Complaints against Philadelphia Police



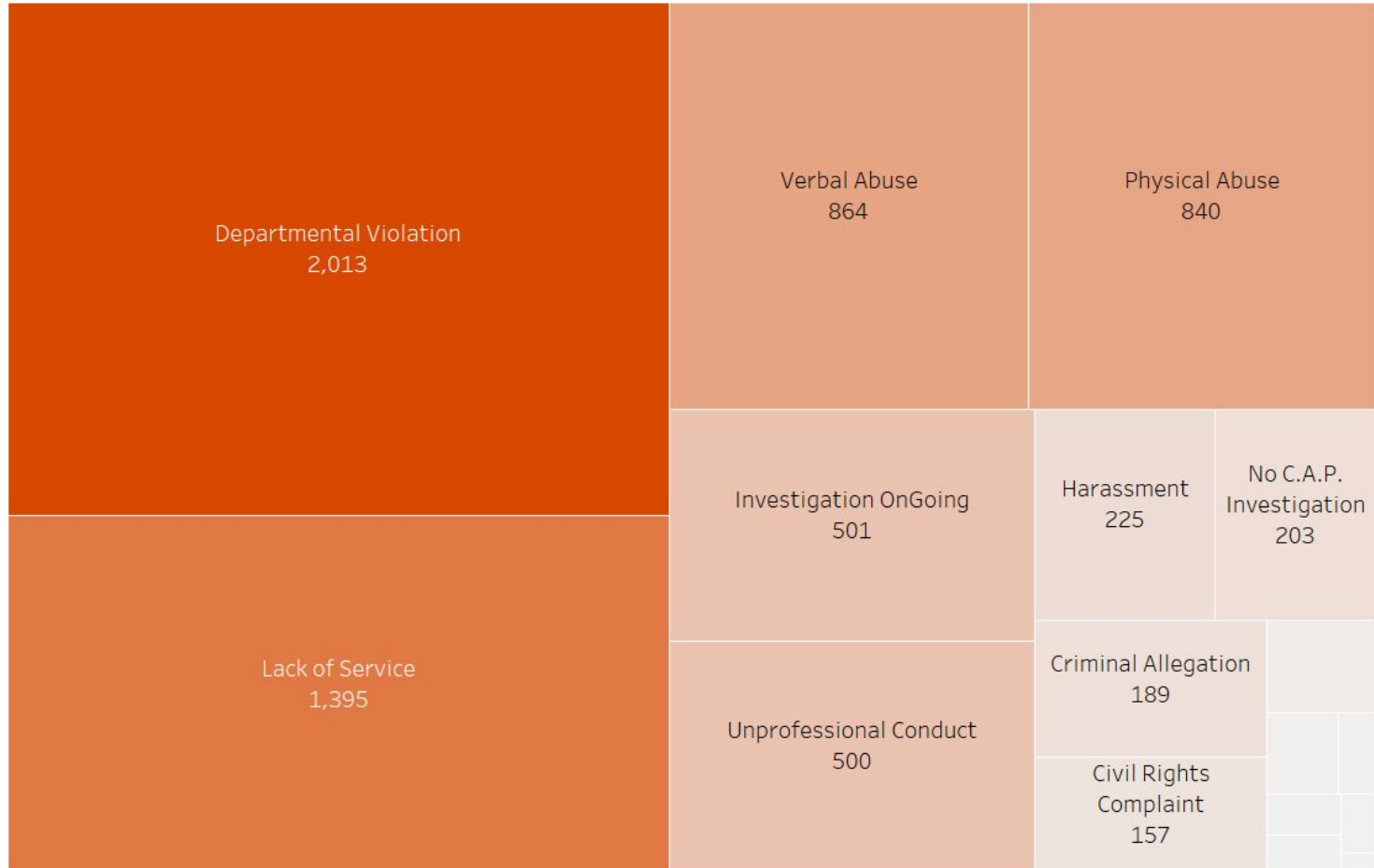
Number of Complaints by Age of Complainant



Complaints Made by Race and Sex

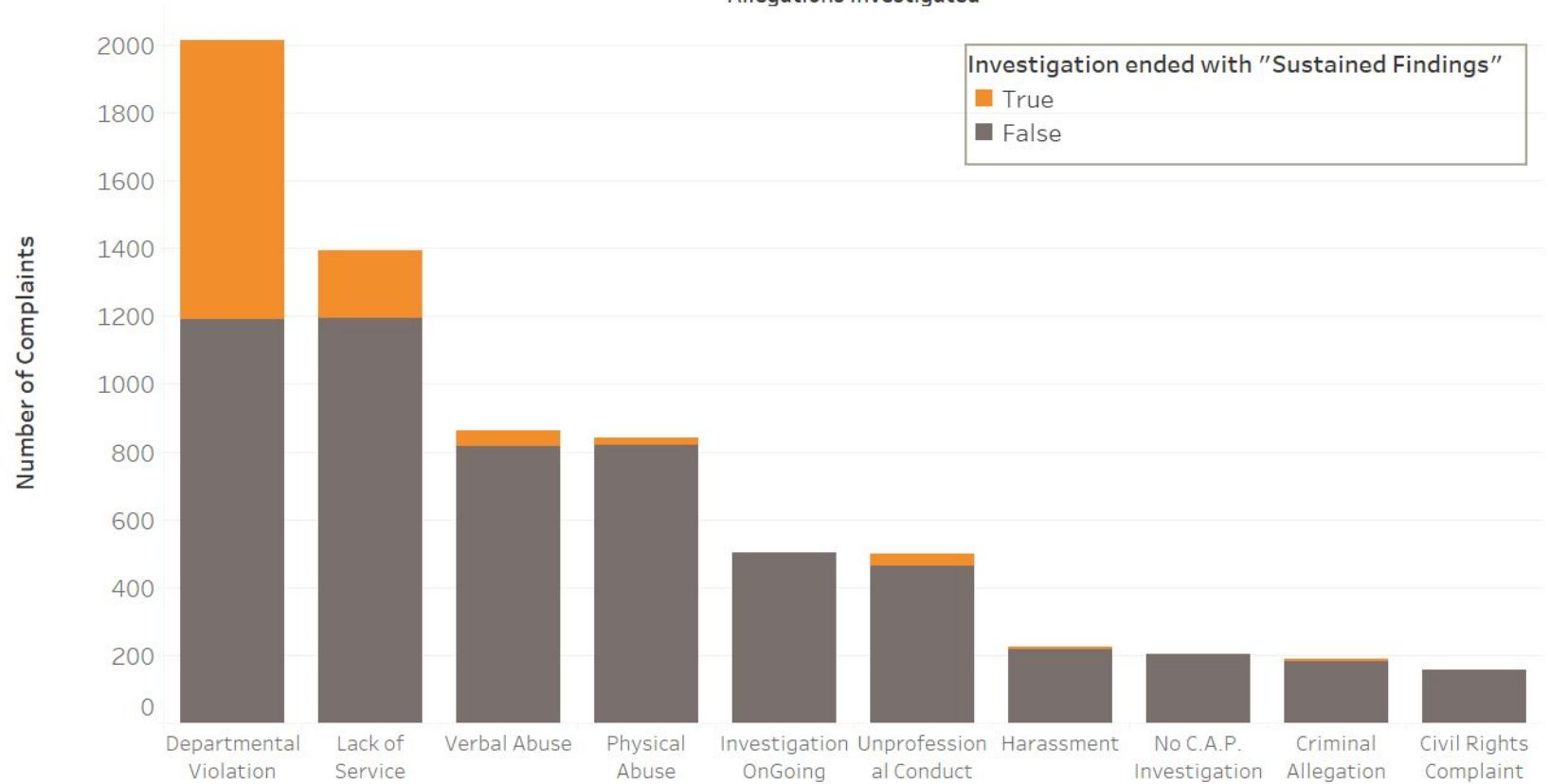


Complaints by Type of Allegation



Investigative Outcomes by Allegation Type

Allegations Investigated



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What can we do with this data to help improve police-civilian interactions in Philly?

<https://github.com/strugglebus129/PhillyPoliceData>

Future Work

Overlaying ACS
economic data
with complaints
by district

Looking at
relationship
between stop and
frisk data and
police complaints

Identify trends
with repeat
offending cops