

Low Income = High Crime?

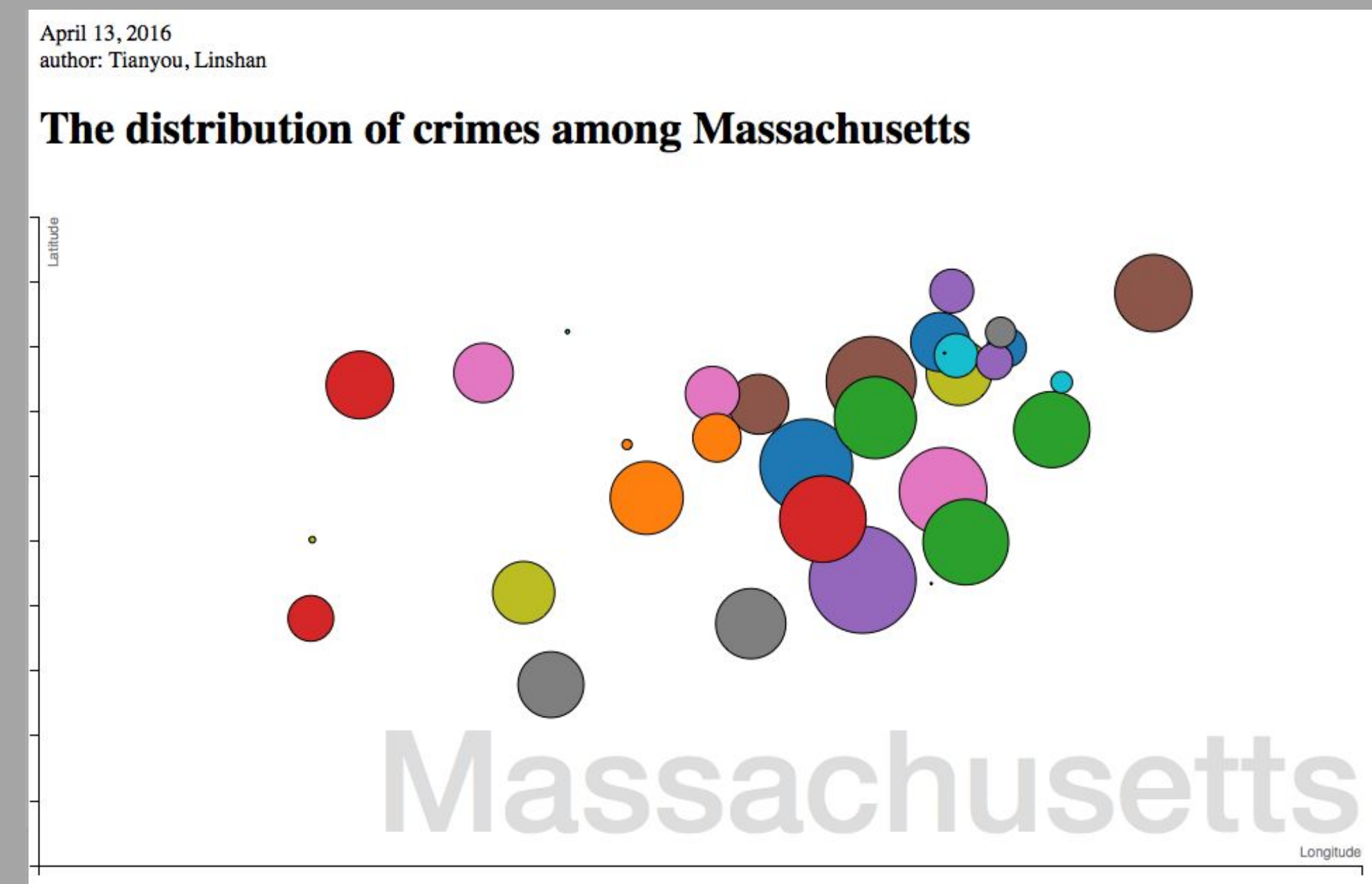
Presenters: Tianyou Luo, Linshan Jiang

Objectives:

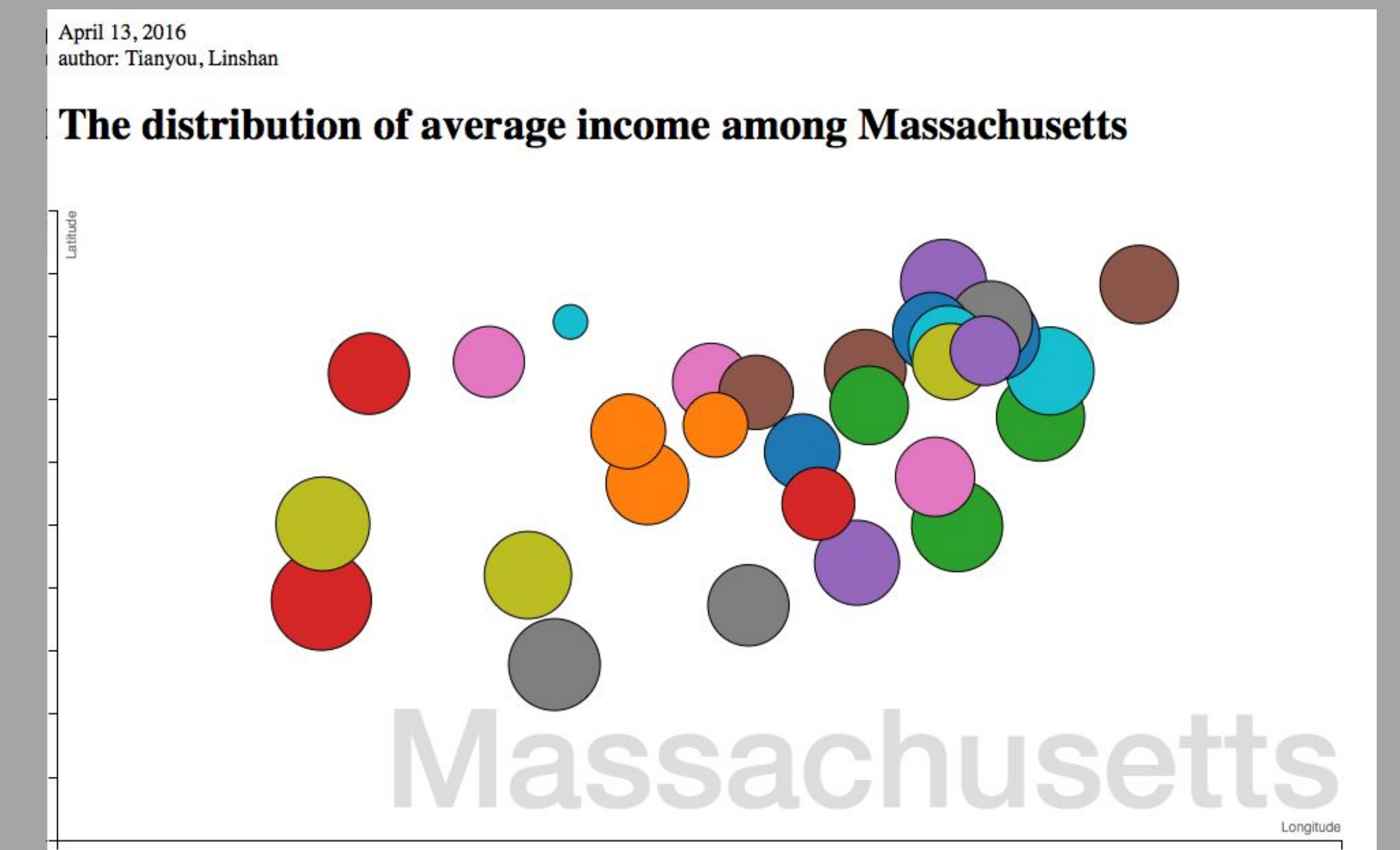
Many of us may expect more crime in low income areas, due to lower living standards.

In the project, we are interested in the relationship between the average income and the number of crime incidents among Massachusetts. We will use several mechanisms such as diagrams, covariance to analyze if there exists any relationship between them in units of zip code areas.

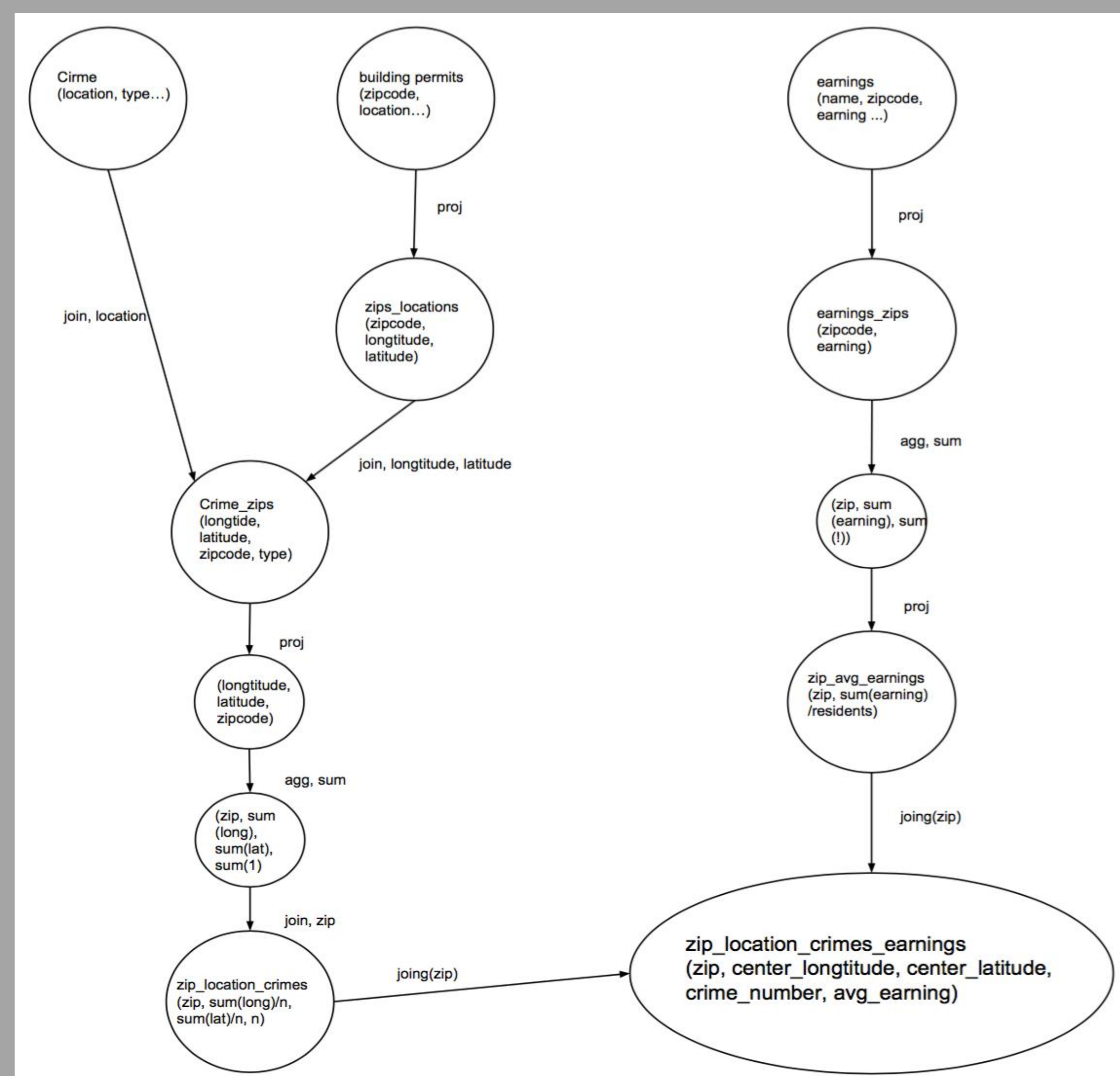
Distribution of Crimes:



Distribution of Income:



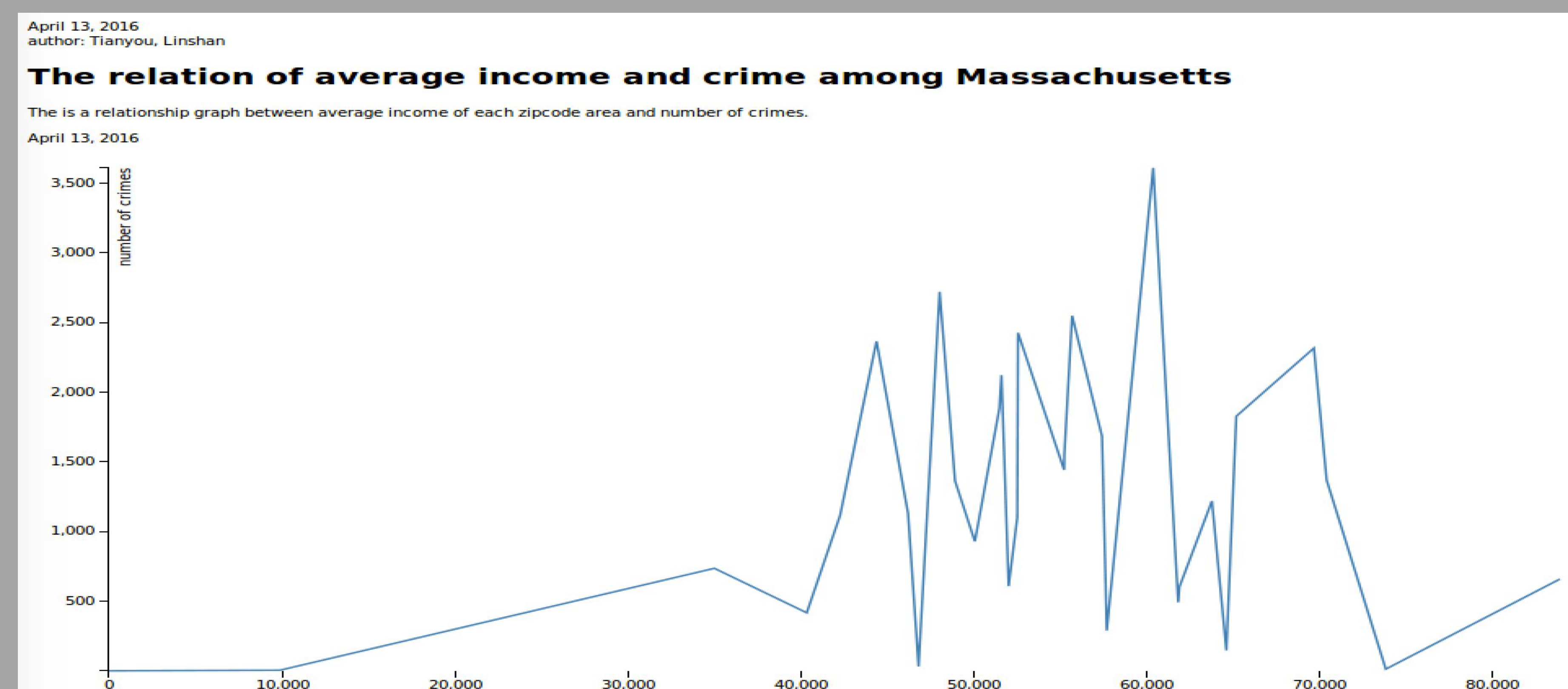
Data Flow:



We retrieved three files from data.cityofboston.gov:

- 1). crime_incident_reports of 2014
- 2). employee_earnings_report_2014
- 3). approved_building_permits

Put it together!



Conclusion:

Taking a first look at the relation diagram, we can see that there is no linear relationship between income and number of crime.

Furthermore, we computed correlation coefficient between income and crime number, which yields the result of -0.072 with p-value 0.720. This further indicates that there is barely any linear relation between them.

Thus we shouldn't assume low income means high crime number!