A Study of the Relationships between Boston Hospitals, Traffic Jams, and Property Values

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Purpose and Introduction

In this project, we sought to analyze the relationships between hospitals, traffic jams, and property values in Boston.

Statistics Created

Our analysis focused on statistics for:

1) If traffic jams occurred more in zip codes in lower property values
2) If hospitals are more prevalent in areas with higher property values

Narrative and Motivation

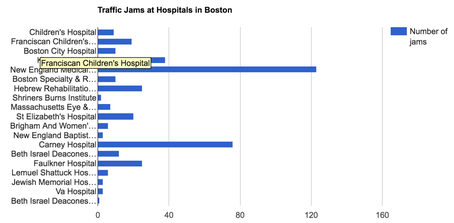
In this project, we sought to analyze the relationships between hospitals, traffic jams, and property values in Boston.

Our analysis ran statistics on:

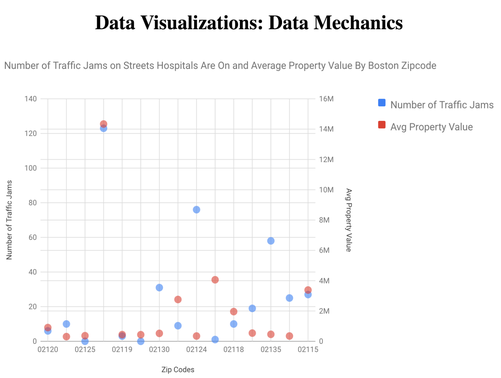
1) If traffic jams occurred more in zip codes in lower property values
2) If hospitals are more prevalent in areas with higher property values

Visualizations

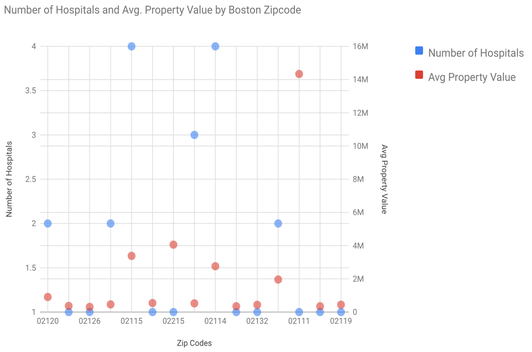
Data Visualizations: Data Mechanics



Data Visualizations: Data Mechanics



Data Visualizations: Data Mechanics



Findings (Correlation and P-Value)

DataSet	DataSet	Correlation	P-Value
Average Property Value	Number of Hospitals	-0.00119	1.00
Average Property Value	Number of Traffic Jams	0.67221	0.055

Relationship Percentage

DataSet	DataSet	Percentage
Traffic Jam Location	Hospital Location	37.10%
Traffic Jam Timing	EMS Departure Timing	50.60%

Correlations

Based on our findings of correlation and p-value, we find a relationship between our datasets, primarily between average property value and the number of traffic jams, given a p-value of 5%

We can see that the average property value and number of hospitals has almost no correlation with property value.

Next Steps