

### **Extension Pitch:**

Our group members all have experience renting in the Boston area. We have encountered many problems in our life, such as the surrounding houses being often under renovation, the surrounding construction sites being noisy, and the facilities of the houses being out of order. So, the extension project landlord complaints caught our interest, and we wanted to look into the landlord complaints of houses in the Boston area and the main reasons behind the data.

### **Rationale:**

By analyzing the data, we can know which cities in the Boston area have more complaint cases, which housing in the Boston area is frequently complained about, and the reasons for complaints. This information will tell us how to choose a house later, and what kinds of complaints are often too much for residents to handle. Through this extension project, members of our team will know how to better rent a house in the Boston area.

### **Questions for Analysis:**

1. Which landlords have the most housing complaints?
2. What are the most frequently complained reasons?
3. Which city has the highest number of complaints?

### **Data Sets & Sources**

**Problem properties** <https://data.boston.gov/dataset/building-and-property-violations1>

Violations on Boston buildings or properties issued by inspectors from the Building and Structures Division of the Inspectional Services Department.

**Rent Smart** <https://data.boston.gov/dataset/rentsmart/resource/dc615ff7-2ff3-416a-922b-f0f334f085d0>

RentSmart Boston compiles data from BOS:311 and the City's Inspectional Services Division to give prospective tenants a more complete picture of the homes and apartments by collecting violation history.

### **Data Visualizations**

1. Mark all houses with complaints/violations on the map through the house address.

2. Use the violation description(violation type column in RentSmart and Description column in BAPV dataset) to classify the types of violations and draw the number of each violation.

3. Use the owner/landlord of the house(Owner in RentSmart, Contact\_addr1 in BAPV) to classify which landlords have more complaints/violations and draw them.

4. Classify the number of complaints per housing by Zip Code(Zipcode in RS, Violation\_zip in BAPV) and draw them.

5. Classify the number of complaints per housing by City(Neighborhood in RS, Violation\_city in BAPV) and draw them.

### **Additional Information:**

Two datasets may yield inconsistent conclusions.