BAD LANDLORDS II

– Councilor Breadon

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– MOTIVATION –

Increase transparency for Boston renters by providing them with information regarding bad landlord behavior.

– GOAL –

Build a trackable system for property violations and a matrix to determine if a landlord is a bad landlord.

WHAT HAVE WE DONE SO FAR?

– WHAT WE'VE DONE –

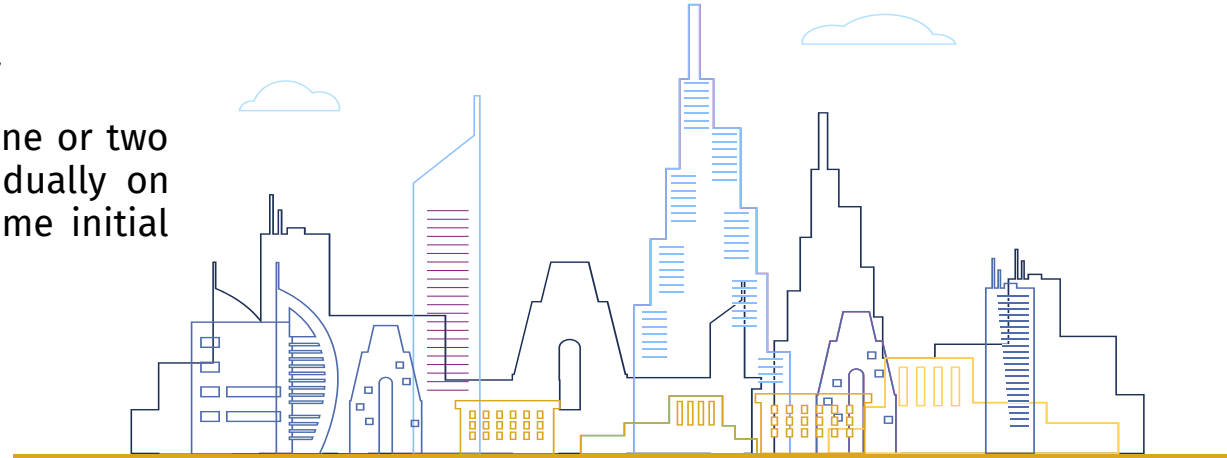
We formed preliminary analysis on the following datasets:

- RentSmart
- Income-Restricted Housing Inventory
- Building and Property Violations
- 311 Complaints
- Affordable Housing Stock Data

Each team member was assigned one or two of the datasets. We worked individually on visualizing the data to come to some initial conclusions.

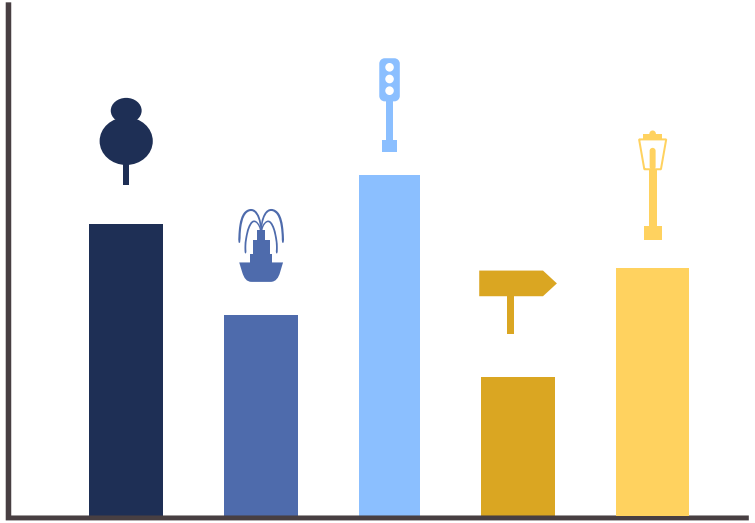
– ORGANIZATION –

- Three weekly meetings
  - Client, PM, Team Meetings
- Scrum Reports to check progress
- Communicated on Trello and Slack boards to plan our next steps



EARLY RESULTS AND VISUALIZATIONS

MAPS



BAR CHARTS

CHALLENGES AND NEXT STEPS

– CHALLENGES –

- Difficult to tie the violations to any specific landlords at this stage
- Unclear which violations are more severe than others (make certain assumptions about their severity)
- Data needs to be properly normalized (sorting violations by ratio in a certain location instead of overall # of violations)

– NEXT STEPS –

- Getting information on specific landlords to determine whether they are “bad” or not
- Explicitly sorting violations by severity instead of having them ungrouped
- Normalizing the data accurately
- Finding the most important predictors to violations.

POTENTIAL EXTENSIONS

– OPTION 1 –

Since we utilize many different datasets, it can be difficult to correlate the information due to different address formats and parameters.
Our first proposal is to merge the datasets that are inconsistent with each other at the moment. This would allow to better filter the actual violations and it will clearly avoid all the duplicate cases.

– OPTION 2 –

Analyze the Climate Ready Boston Social Vulnerability dataset and see if there's a higher correlation with any of the predictors (disabilities, low income, english proficiency, POC, children, older adults) and the response variable (medical illness).