Mod-1 Project:

Housing Sales Data 2014/2015 - Kings County, WA, USA

Banji & Matt

Overview of Properties in Dataset

302,610

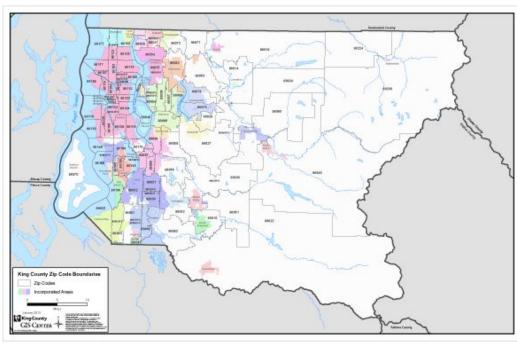
Total Number of properties in Kings County:	902,107
Total Number of properties in DataSet:	21,418
Percentage Number of Properties in Sample:	2.4 %

Age Range of Properties:	116 - 1 yrs
Median Years to Renovation:	54 yrs
Nu. of Properties Over Median Age, Not Renovated:	7244

Nu. of Properties in Bad Condition in Sample:	199
Percentage Bad Condition:	0.92%
Extrapolated Number of Properties in Bad Condition:	8313

Extrapolated to Kings County:

Properties < Grade 7 & > Median Renovation Age: 2007 Extrapolated to Kings County: 83,840



Criteria - 1

Filter Selection:

Total Properties meet criteria:

2007

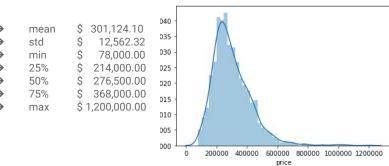
→ Building Grade <

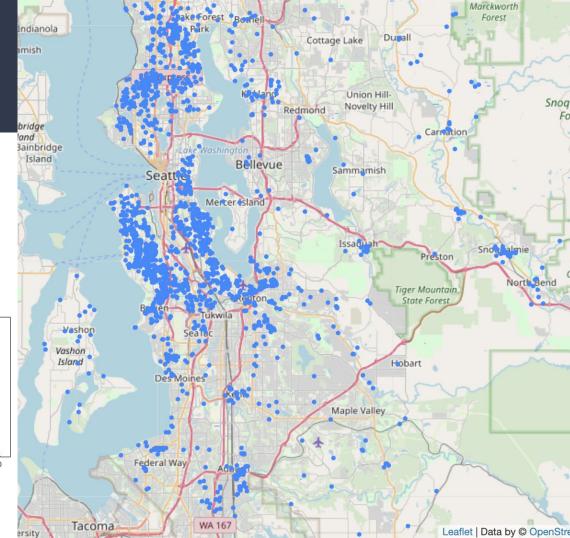
Extrapolated to Kings County:

→ Building Age > 53 yr

→ 83,840

Price of Properties Breakdown:





Criteria - 2

Filter Selection:

- → Building Condition < 3
- → Age > 53 yr

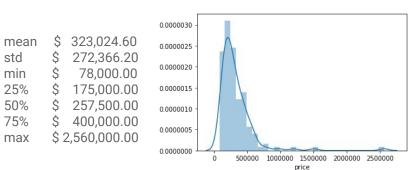
Total Properties meet criteria:

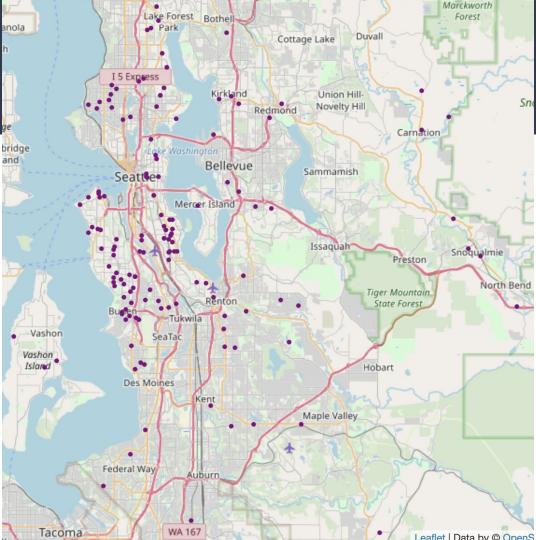
→ 148

Extrapolated to Kings County:

→ 6183

Price of Properties Breakdown:





Criteria - 3

Filter Selection:

- → Building Condition < 3
- → Building Grade < 7

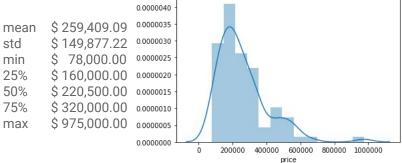
Total Properties meet criteria:

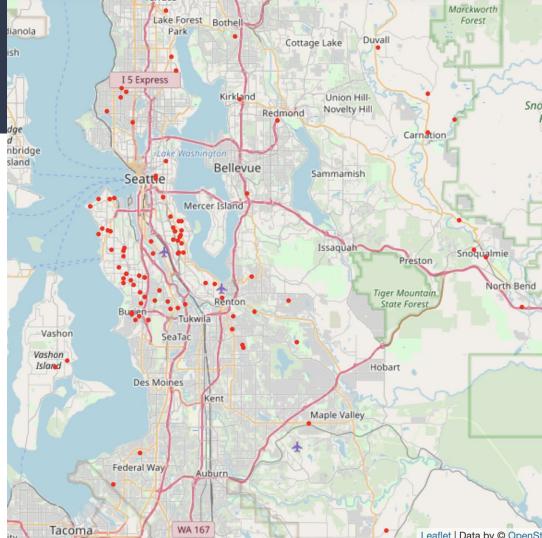
→ 99

Extrapolated to Kings County:

→ 4136

Price of Properties Breakdown:



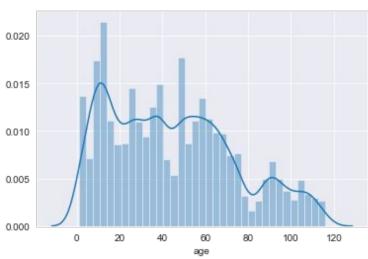


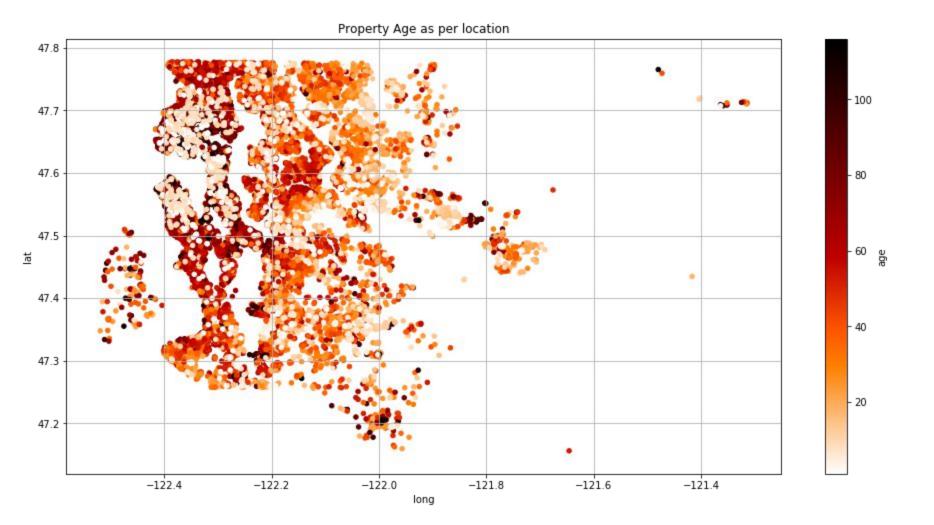


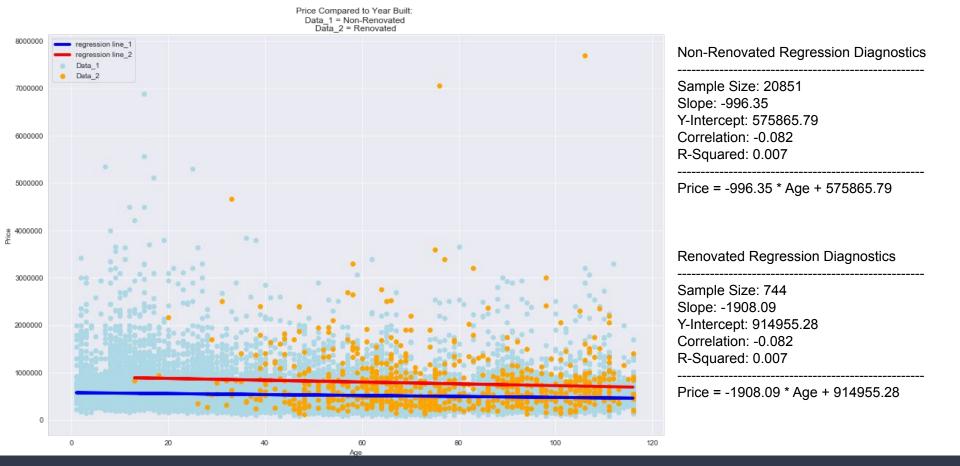
Target Zip Codes:

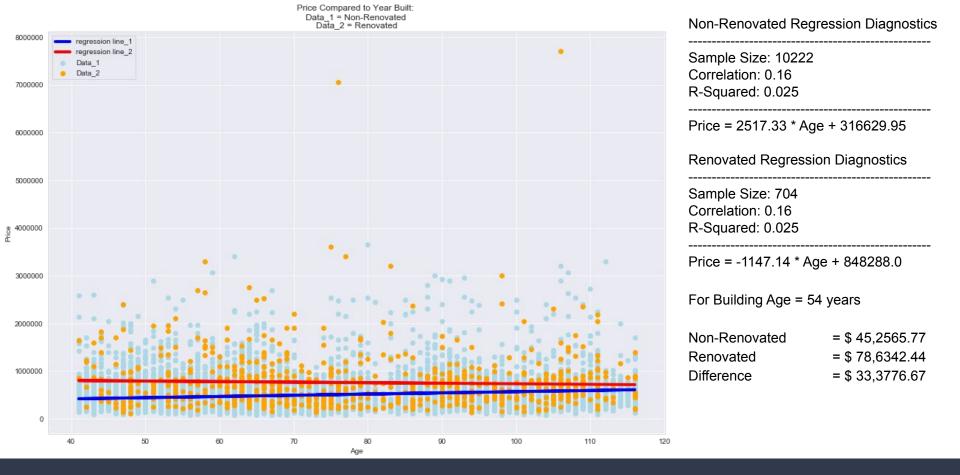
- → The recommendation is to target the 25 zip codes with average building ages over the 40 year limit.
- → No Buildings Under 25 years old have been renovated

Building Age Distribution:









Correlation Comparison: Improve Price

<u>Price:</u>		<u>Age:</u>		<u>Conclusion:</u>
price	1.000000	age	1.000000	
sqft_living	0.701915	condition	0.361557	The best way to improve the value of a property is to
grade	0.667958	yr_renovated	0.202565	increase the living area.
sqft_above	0.605378	sqft_basement	0.130064	
sqft_living15	0.585247	view	0.054464	Therefore, when conduction a renovation; if there is
bathrooms	0.525886	waterfront	0.024491	space on the property to increase the living area, this
view	0.393498	sqft_lot	-0.052939	should be undertaken.
sqft_basement	0.321084	<mark>price</mark>	-0.053967	
bedrooms	0.315950	sqft_lot15	-0.070767	For properties; improving the condition or grade does
waterfront	0.264310	bedrooms	-0.160737	increase price as well.
floors	0.256789	sqft_living	-0.318149	
yr_renovated	0.117852	sqft_living15	-0.326363	Therefore; a comparison for houses of similar living
sqft_lot	0.089874	sqft_above	-0.424025	space for Condition & Grade. To an increasing living
sqft_lot15	0.082852	grade	-0.447858	space. Both against price must be conducted.
yr_built	0.053967	floors	-0.489186	
condition	0.036003	bathrooms	-0.507193	However due to time constraints this analysis was not
<mark>age</mark>	<mark>-0.053967</mark>	yr_built	-1.000000	conducted.

Thank You For Listening

Additional References:

- → https://www.census.gov/2010census/data/
- https://gis-kingcounty.opendata.arcgis.com/datasets/zipco des-for-king-county-and-surrounding-area-zipcode-area?g eometry=-123.429%2C47.189%2C-119.474%2C47.838