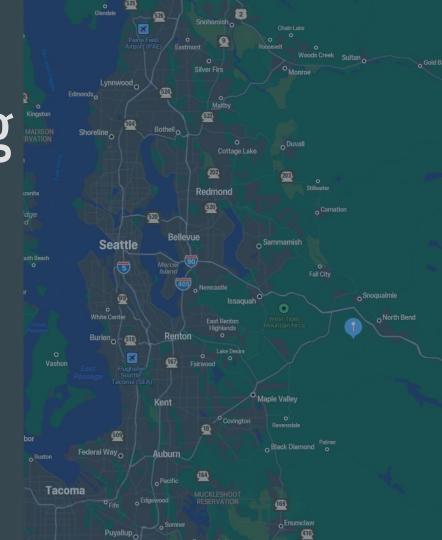
King County Housing Poor neighborhood investment possibilities

Client: Processing:

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Client Assignment:

- Socially responsible investment in poor neighborhood. Cost return + little profit
- *Poor neighborhood*: $\geq 80\%$ of prices/ft² in a given zip code area fall into second quartile

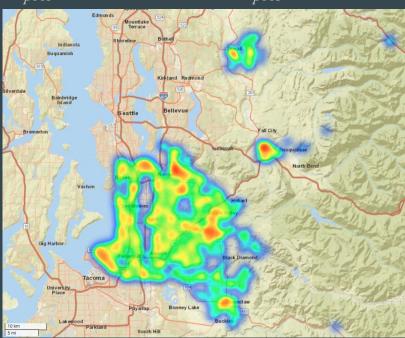
King County Housing Data Set:

- N = 21420 properties, built/ renovated/ sold in the years 1900 2015
- Several property characteristics provided

<u>Hypotheses:</u>

- The lower the condition, the lower the price.
- The farther away from Seattle city center, the lower the price.
- The longer no renovation between building and renovating, the lower the price.





Price - red: high, blue: low

 $avg = 173.53 \, \text{s/ft}^2 \, \pm 49.37 \, \text{s/ft}^2$

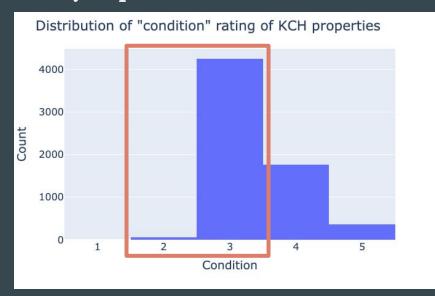


Condition rating

- → 1 = poor worn out. Approaching major reconstruction.
- → 2 = fair badly worn. Much repair needed. Refinishing + overhauling
- → 3 = average normal obsolescence, minor repairs + refinishing needed
- → 4 + 5 = Good/ Very good. No obvious maintenance required

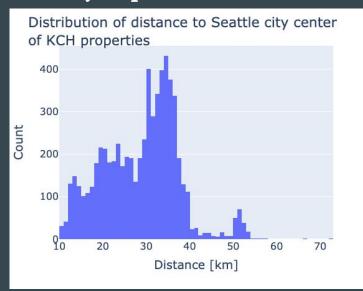
$$mostly = 3 (n_{Condition=1} = 6)$$

Socially responsible: 2 or 3



 $Avg = 28.28 \text{ km}, \pm 8.7 \text{ km}$

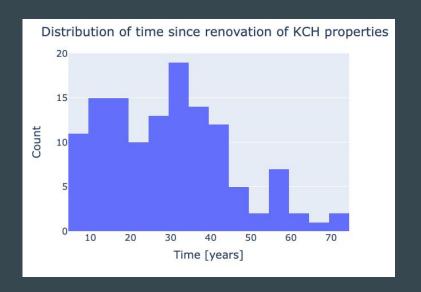
Socially responsible: closer is better

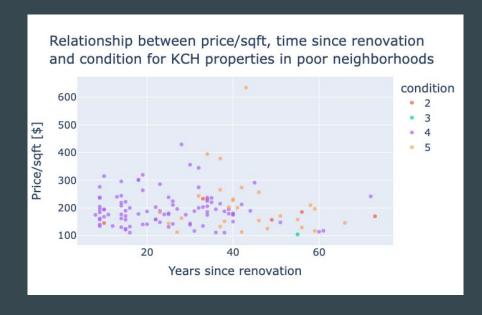


condition and price don't relate clearly distance and price don't relate clearly



n = 128, avg = 29.63 yrs, ± 15.3 yr condition and price don't relate **Socially responsible:** not too long ago time and price don't relate





Results

- All hypothesized correlations very weak, though tendency as expected
- poor neighborhood subset very homogenous in all aspects of interest

Recommendations

- Socially responsible investment:
 - o condition 2-3
 - Renovation no longer than 40 years ago
 - 3+ bedrooms (families)
 - The closer to Seattle, the better
- n = 48 properties on final list

