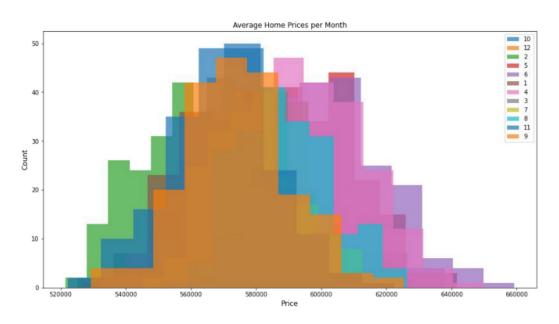
Western Washington Housing Analysis

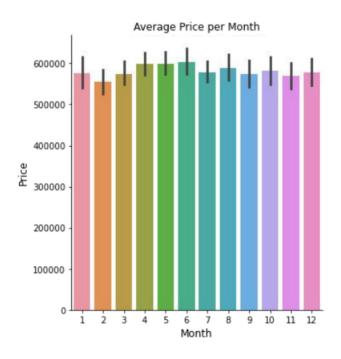
By: Le Truong

Overview:

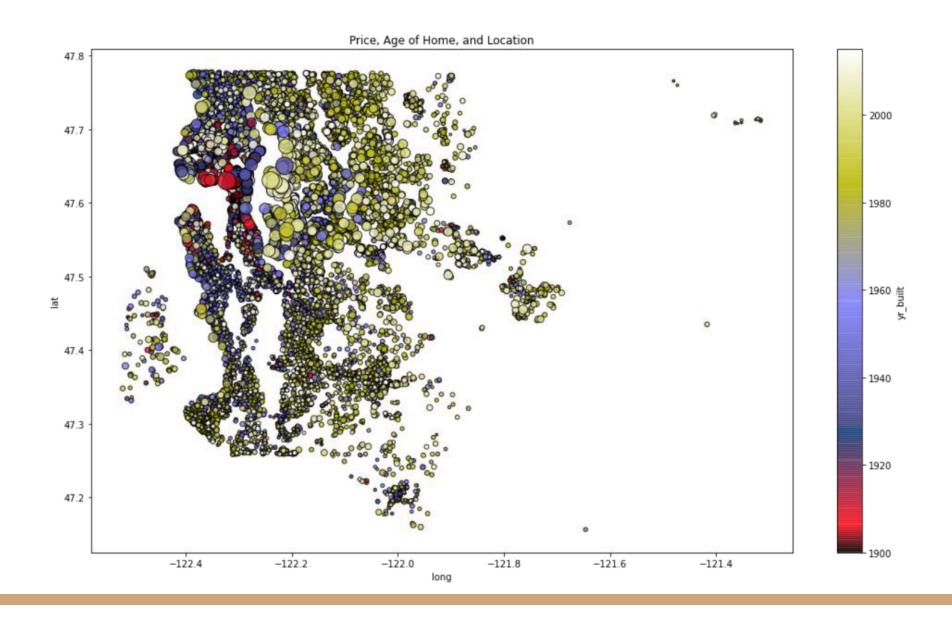
- Western Washington
 - Age of house
 - Location
- Features How do they relate with Price?
 - Square Footage
 - Grade
 - o Bathrooms!
- Weaknesses
- Next Steps

When is the right time to buy a house? Also where?

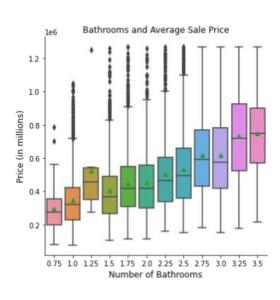




Best time: February (555k average) Worst time: June (603k average)



Simple Linear Regression - Bathroom and Price

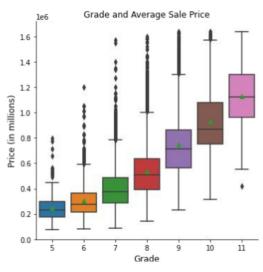


Bathroom:

- R-Squared: $0.197 \rightarrow 20\%$ variance in price

Intercept: \$188,000
 Co-efficient: \$144,000
 P-Value: 0.557 → 0.56

Adding More Features: Multiple Regressions!



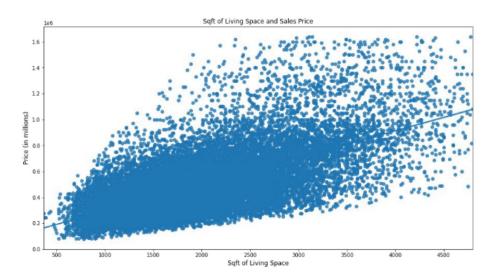
Adding Grade:

- R-Squared: $.0456 \rightarrow 46\%!$

- Coefficient: \$179,000

P-Value: 1.04 x 10⁻⁵

- Correlation: 66%



Adding Living Space:

- R-Squared: $.490 \rightarrow 49\%$

- Coefficient: \$128

P-Value: .640

Weaknesses of Data

- Human Error
 - Failed Linear Assumptions
 - Bias
 - Other variables
 - Choosing different features

What is next?

- Deeper dive into specific neighborhoods
 - o Schools, North versus South, Employer
- Other features to compare?
 - Bedrooms
 - Zipcode
- Figure out more recent data? Larger time frame?

Thank you!

Le Truong

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