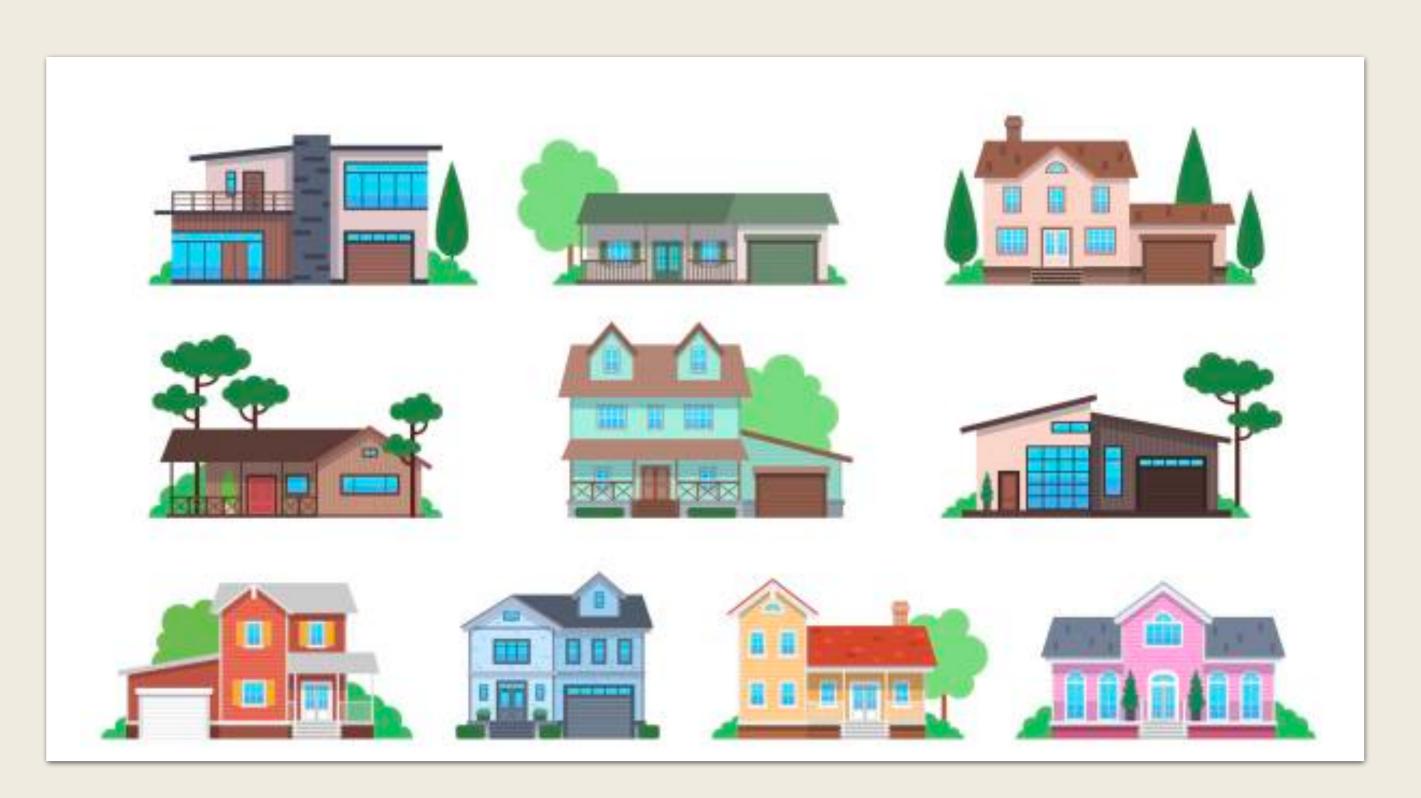




Overview

Kraken Construction is looking for some insight as to what features to include in a new home construction that positively influence sale price, and to what extent.

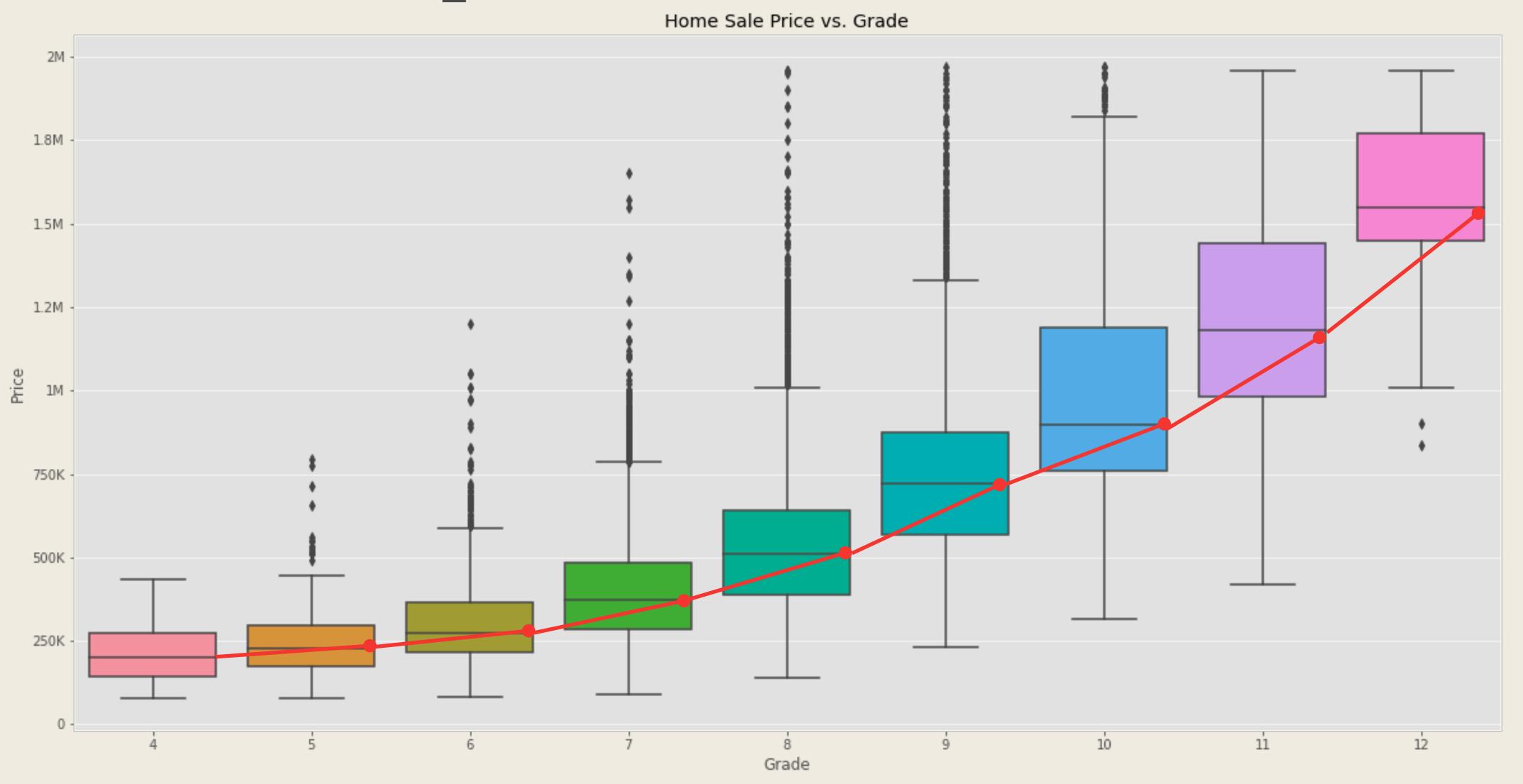
My Job: What features, based on King County home sale prices, should you consider in the construction of a new home?



The Data

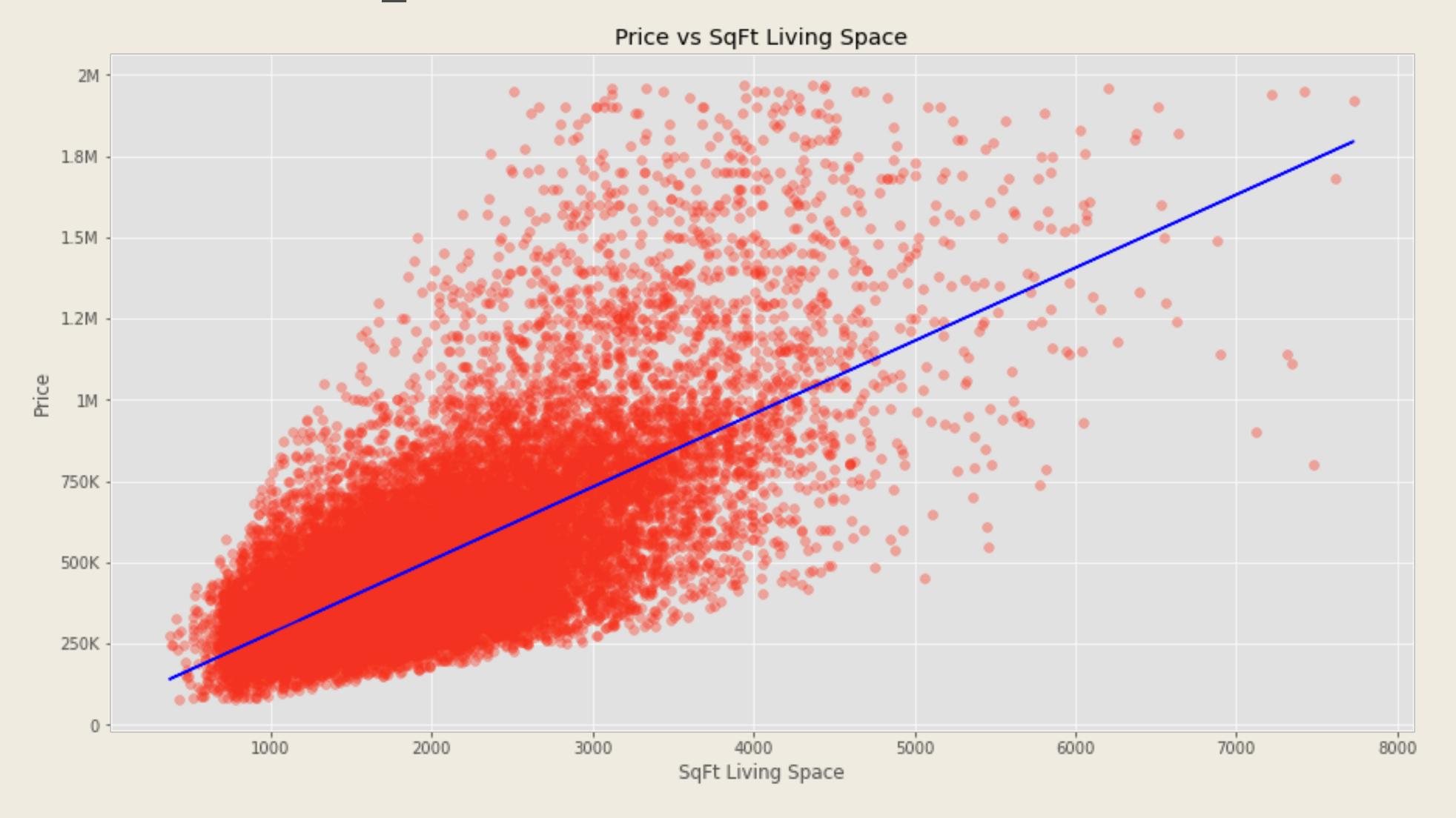
- Home sales information in King County, WA
- 2014 to 2015
- 21,597 homes
- 20 features

Feature Exploration



• Building grade and square footage of living space had the strongest positive correlations with home sale price.

Feature Exploration



• Building grade and square footage of living space had the strongest positive correlations with home sale price.

X

Regression

- Identifies the features that matter most and how they influence each other.
- Measures impact of features on home sale price
- Helps businesses understand their data and use it to make better decisions

Results

- All features are statistically significant
- Model explains **57.4**% of the variation in sale price.
- Some observations:
 - +1 bedroom increases home sale price by ~\$11,000.
 - +1 floor increases home sale price by
 ~\$32,000

• My recommendations are....



1. Find an area to develop that has at least what is considered a 'fair' view. Homes built on these lots see an increase in sale price of:

2. Homes with a waterfront see the biggest increase in home sale price compared to most other features. Build a house on a waterfront to see an increase in sale price of:

3. Do not cut costs on building materials, building grade is highly correlated to sale price. Most houses are built with an "average" grade, to increase sale price build with a grade of:

9-66Better"

Limitations and Future Analysis

- Conclusions should be approached with caution:
 - 1. Model explains only 57.4 percent of the variation in sale price.
 - 2. Normality assumption was not fulfilled

- Future analysis:
 - 1. Find data before 2014 and after 2015
 - 2. Include additional features in future models.



Thank You

Questions?

You can reach me at:

timothyjrabbitt@gmail.com

For a more detailed analysis and the methods behind this presentation, please visit:

https://github.com/trabbitt90/Multiple-Linear-Regression-King-County-Project

