ARCH

A Regional Coalition for Housing

Working to preserve and increase the supply of housing for low and moderate income households in the King County region.

Home Price - Statistical Analysis

Purpose: Build a statistical model that reveals what affects the sale price of a home.

Square Foot Living

Age of Home

Condition

Zip Code

Lot Size



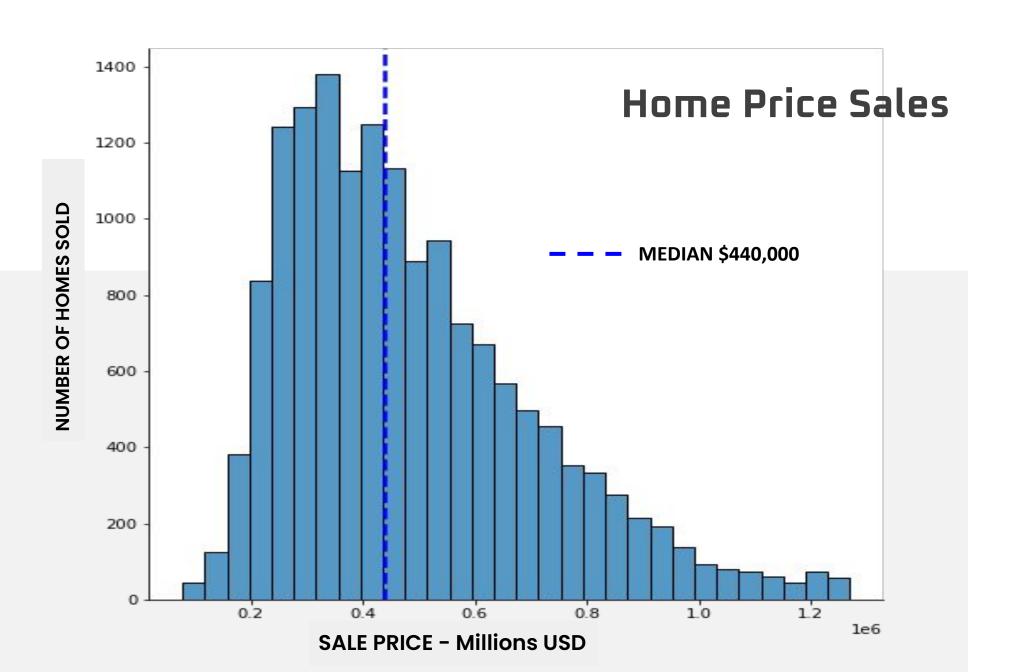
UNDERSTANDING HOME PRICE



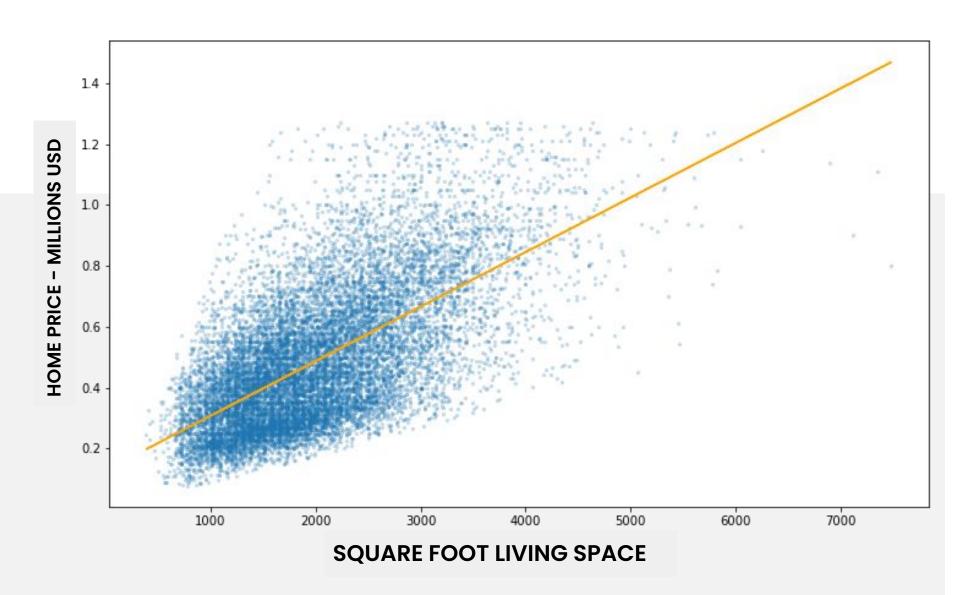
20,000+ Homes Sold

Years 2014 & 2015

Square Foot Living Includes Multiple Relevant Features



Baseline Model Square Footage → 40% Variance





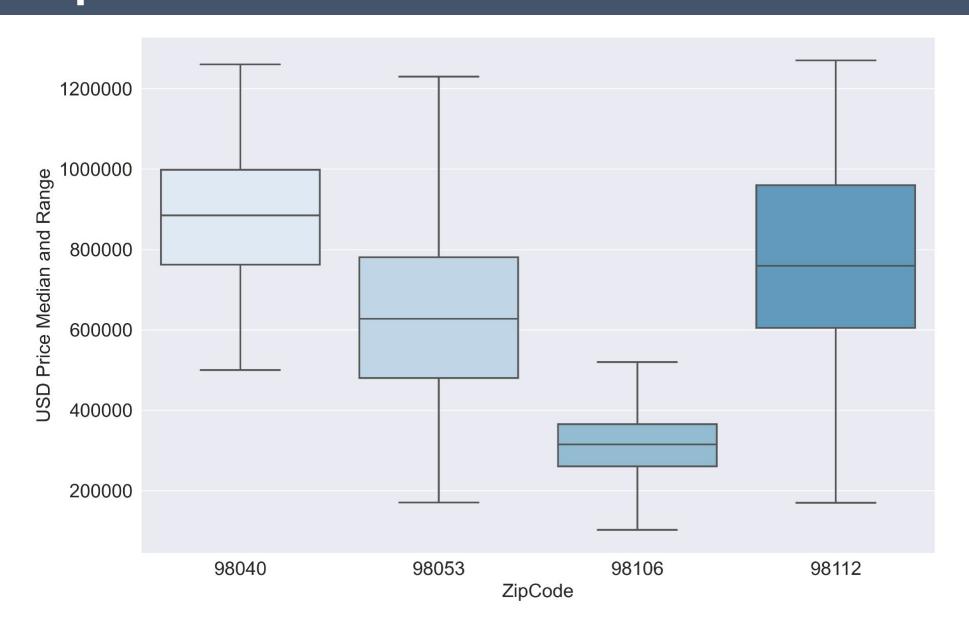
Final Statistical Model

83% Variance of a Home Price

Square Foot Living = Increase \$105 per sq ft.

Newer Homes =
Decrease \$602 per year

ZipCode → ~ 10% Home Price



Recommendations

CLIENTS

Homes under 1600 square feet.

ARCH Organization

Policy for new housing supply

Newer homes tend to cost slightly less year by year

Location Recommendation

Further Analysis

ZIPCODES

~ 10% Home Price Variance

- Price Variety <u>Across</u> ZIPCODES
- Price Variety Within ZIPCODES

Predicted Home Price = \$395,000



Average Error

- \$65,000

+ \$65,000

