

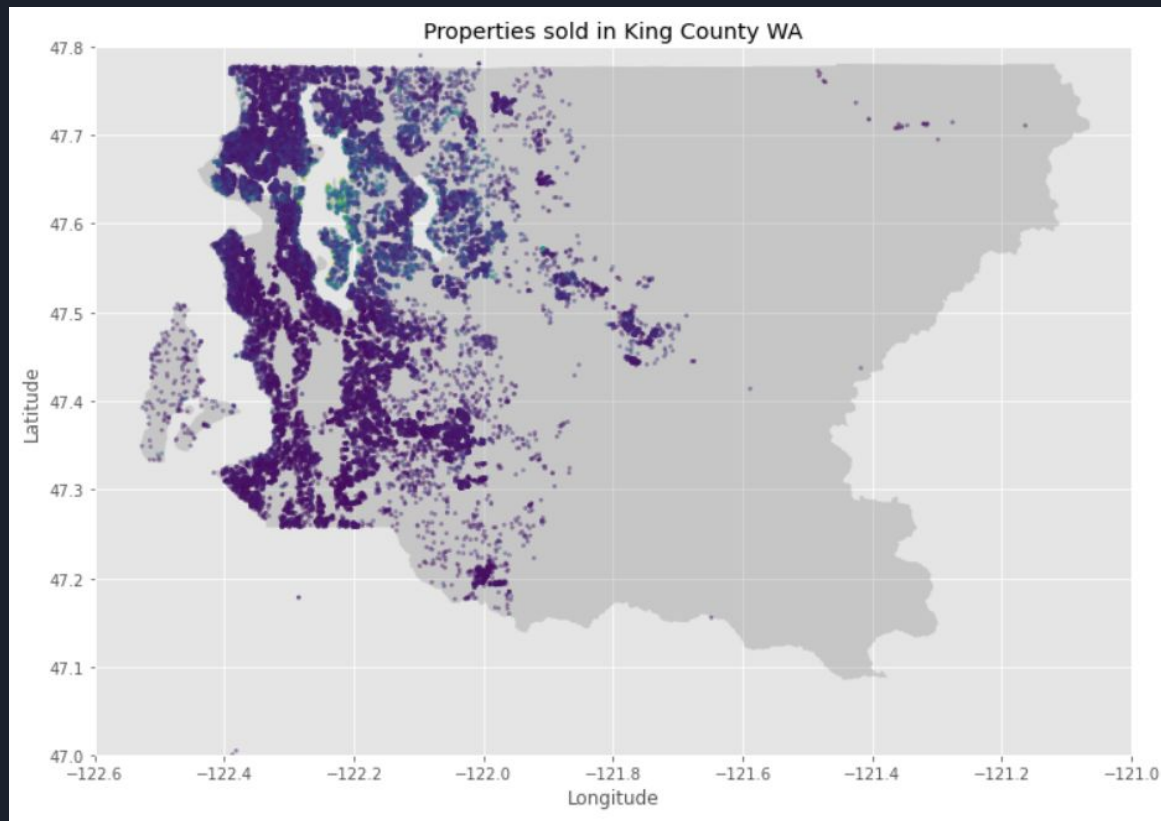
A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green color. They are positioned diagonally, with the blue one partially covering the green one.

# King County Housing

*Using Linear Regression to Predict Price of  
Homes by Isabella Scribner*

# Overview

- > The Business and Project Goals
- > The Project
  - > Why Linear Regression?
- > Findings
- > Suggestions
- > Next Steps



# The Business + Project Goals



- Addiction Treatment Center
  - half-way homes + sober living
- Set Budget + Fundraising Goals
- Create model → best predictions of sale price → actionable suggestions

# The Project

## The Data

- Living Area (sq ft)
- Waterfront
- Greenbelt
- Nuisance
- View
- Grade
- Condition

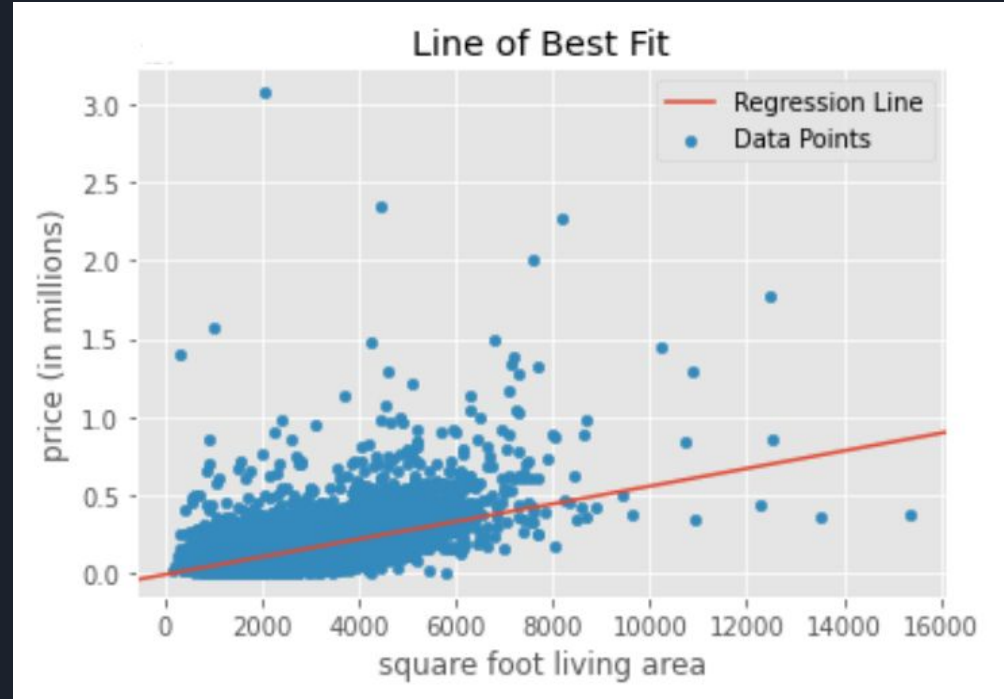


# The Project

## Why Linear Regression

Statistical Technique allows for:

- Increased confidence
- Predictions
- Understanding of error



# No Model is Perfect...

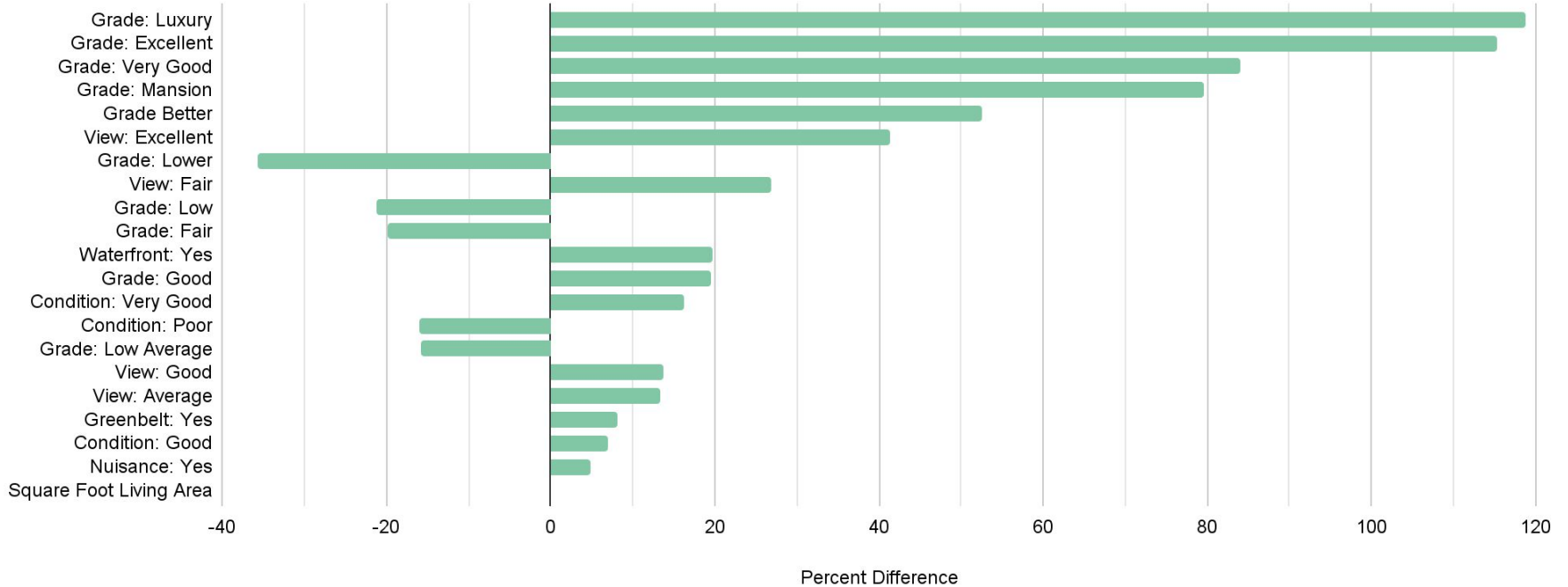
- 5 different models
- Minimize error
  - Mean Absolute Error of ~\$335,000
- Maximize actionable information



Photo by Brett Jordan:

<https://www.pexels.com/photo/wood-holiday-typography-photography-9496595/>

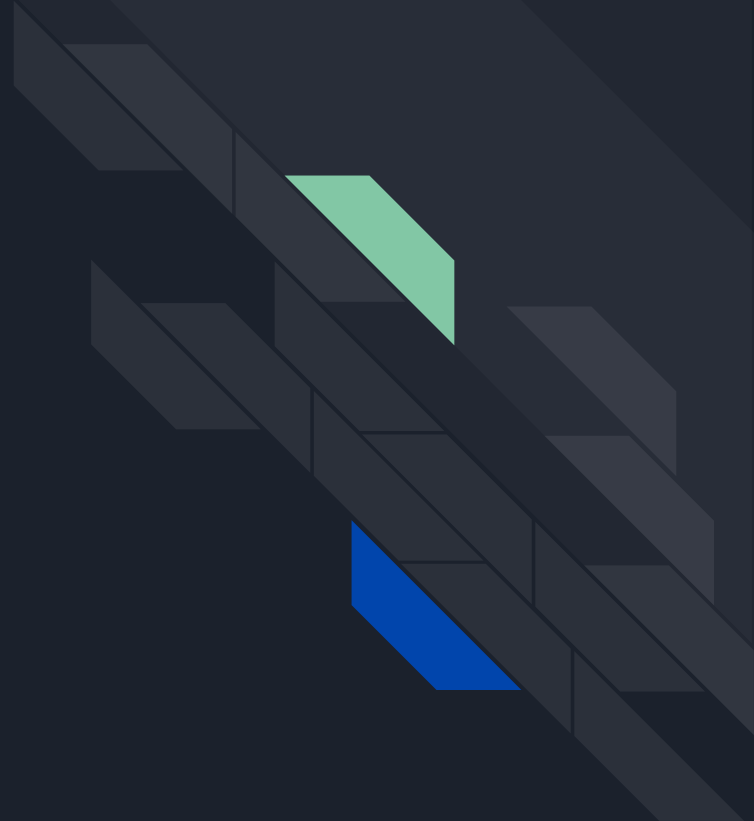
## Percent Effect on Price



# Findings

# \$760,000

- Minimum Budget Needed per House
- Average House in King County



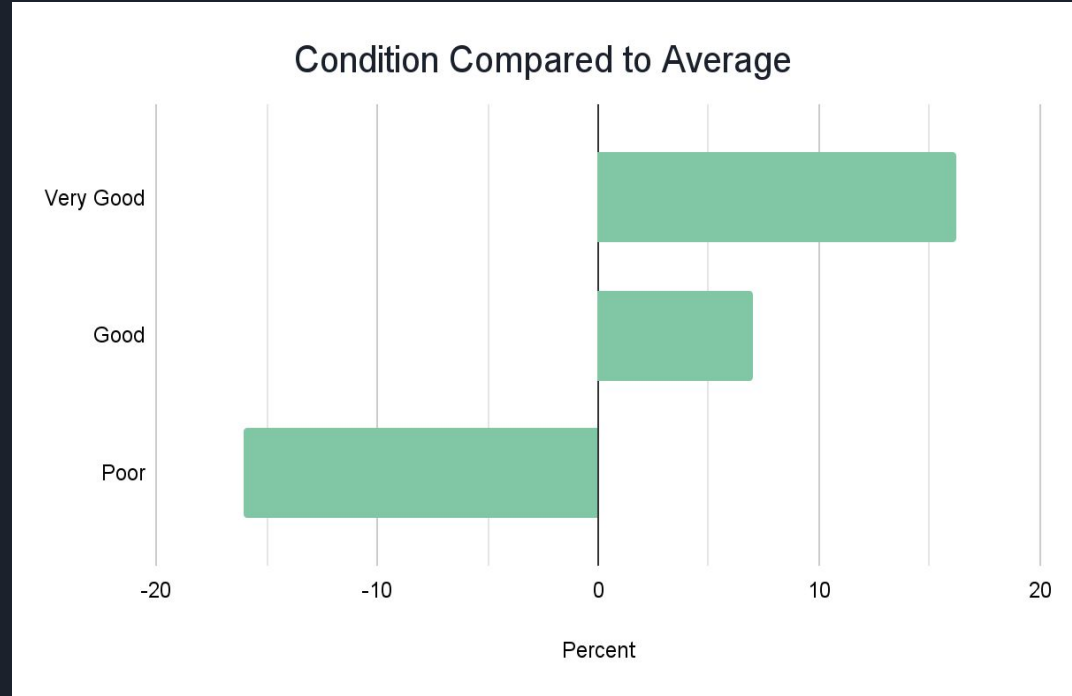


# Suggestions Condition

**Average Condition:** “Some evidence of deferred maintenance and ... a few minor repairs are needed”

+\$53,000 for Good Condition

+\$123,000 for Very Good Condition



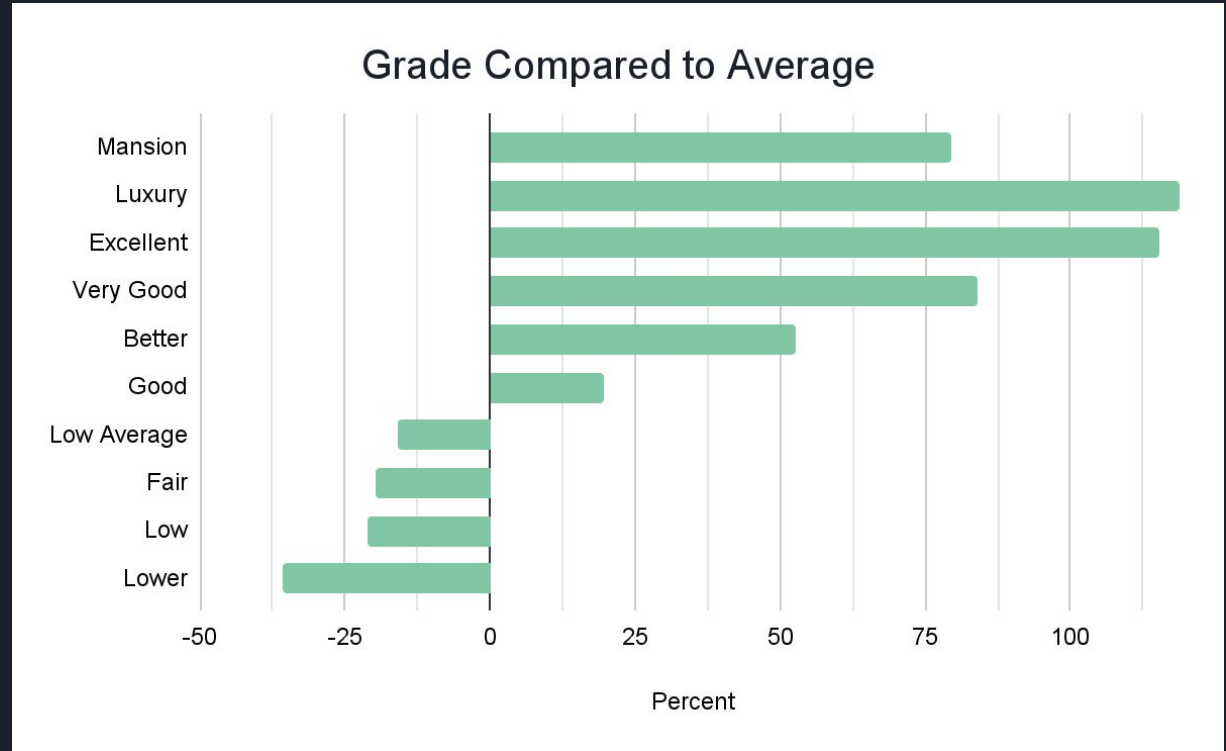
# Suggestions Grade

**Average Grade:** “Average  
grade of construction and  
design”

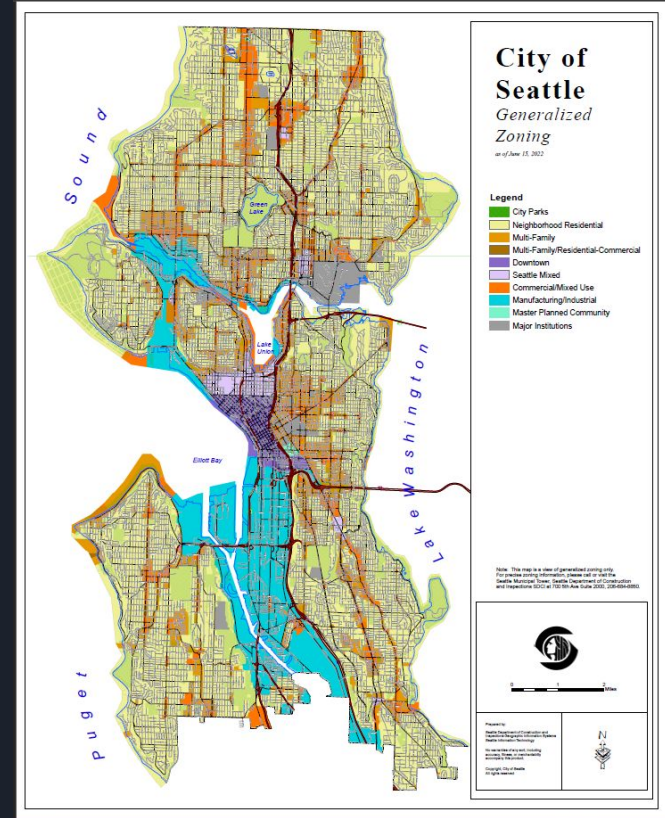
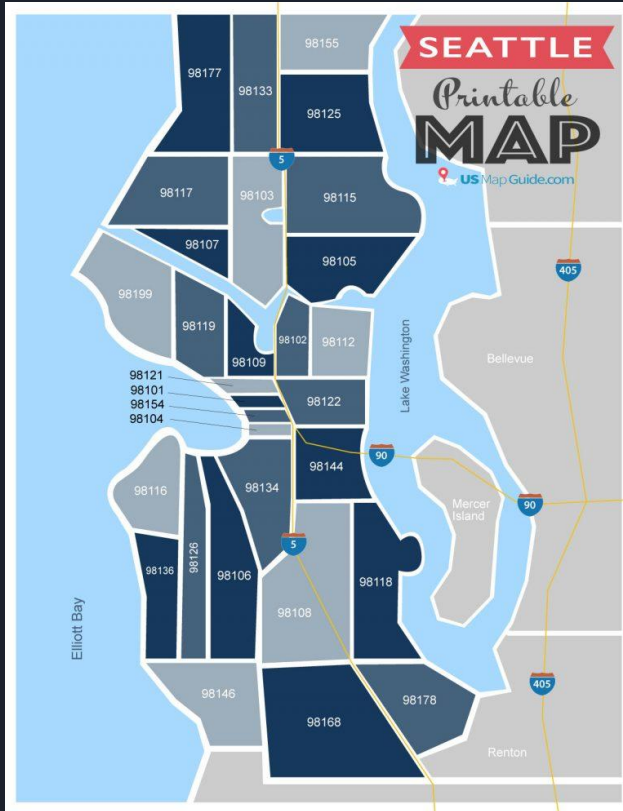
- \$120,000 for Low Average

+ \$148,000 for Good

+ \$399,000 for Better



# Further Research - Zones



# Questions, Comments, Concerns?

Isabella Scribner  
i3scribner@gmail.com  
<http://github.com/Bella3s>

