# So, You Want to Buy a House

What features increase the value of a house the most?

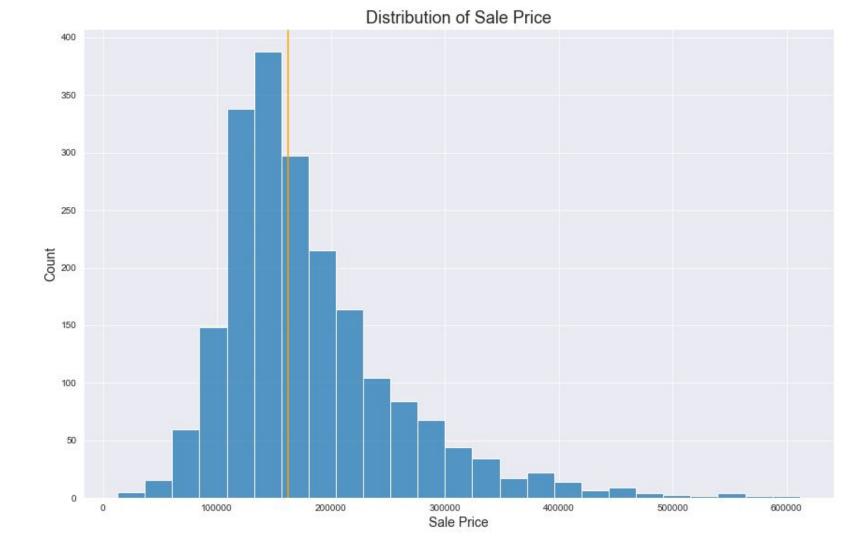
# Info About the Data

- House sales between 2006 and 2010
- Ames, Iowa
- 81 Variables

# Outline

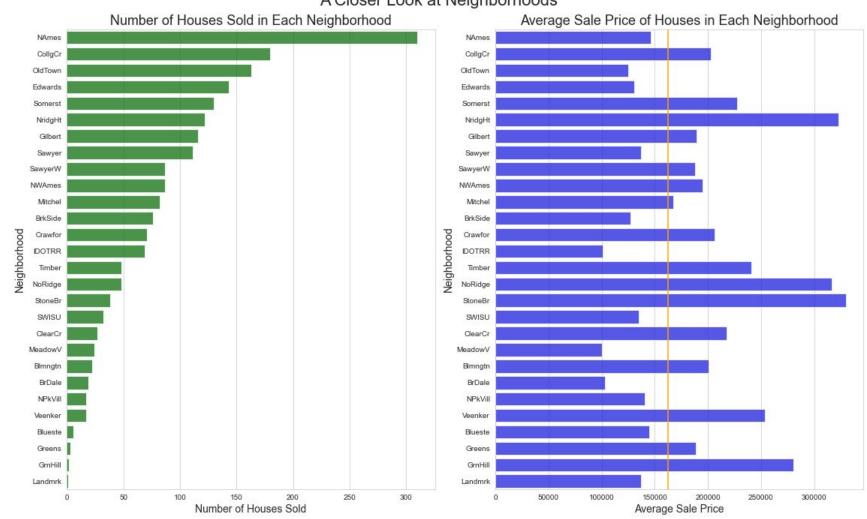
- Explore the data
- Identify areas of significance
- Predictive model
- Offer recommendations

Let's dig in!



Location, Location

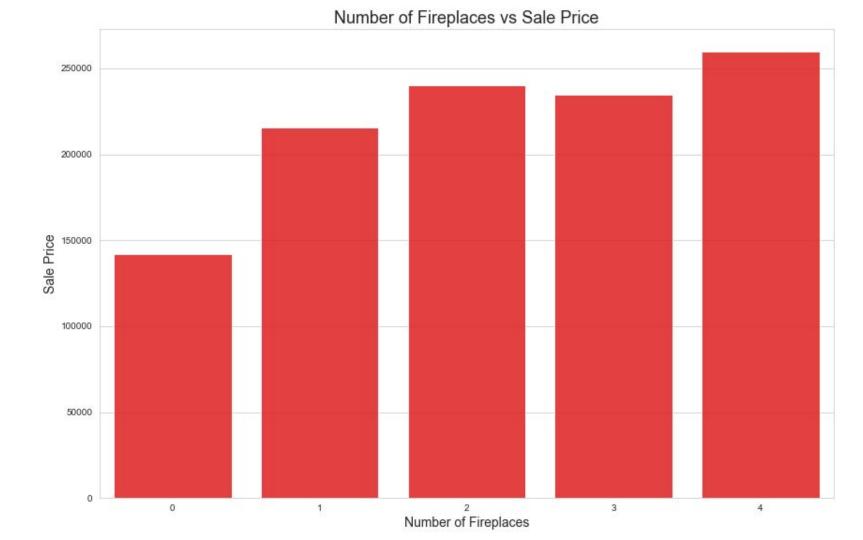
## A Closer Look at Neighborhoods

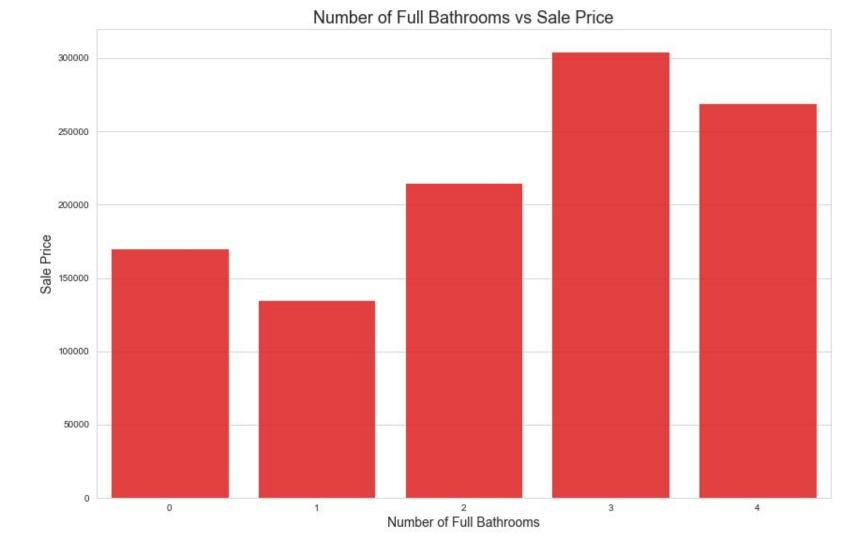








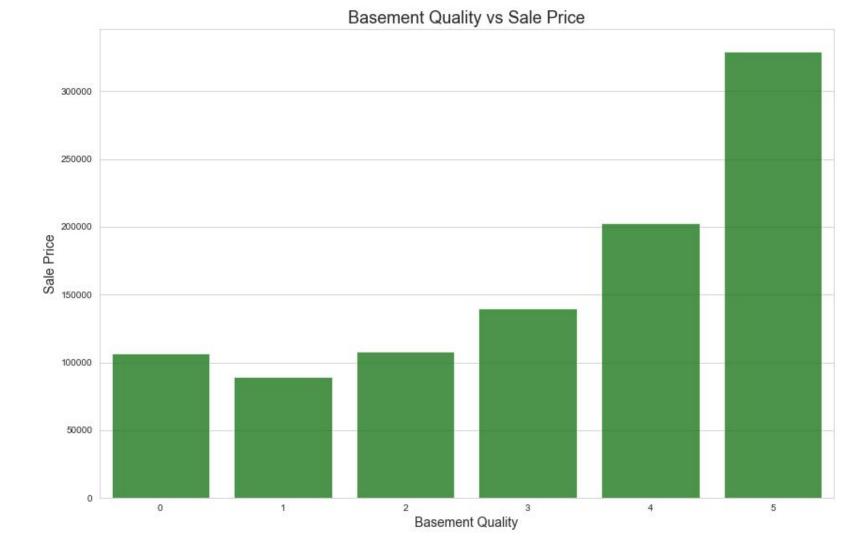












# Baseline

Root Mean Squared Error (RMSE)

RMSE = 76,414

# Results

| Model            | RMSE   |
|------------------|--------|
| Baseline         | 76,414 |
| Lasso Regression | 24,975 |
| Ridge Regression | 24,211 |

Note: Scores are the average of 50 tests

# Features that Increase Home Values the Most

Above Grade Living Area

**Overall Quality** 

**Exterior Quality** 

Kitchen Quality

Garage Area

**Basement Quality** 

Neighborhood

