### Ames for accuracy: Predicting housing prices in Ames, IA

Presenter: Christopher McGowen

# What should I expect to pay for a house, and what features increase the cost?

#### Process:



# Data cleaning:

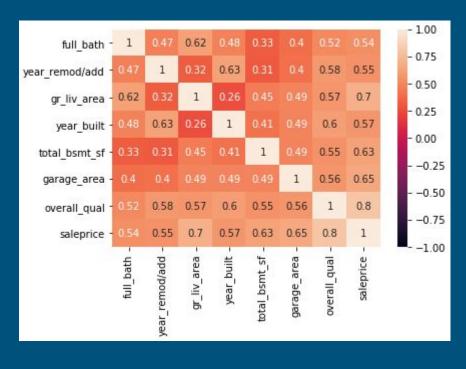
- 9822 missing values!
- Different types of columns
- Sometimes nulls were actually 'NA'



# Data analysis:

- Used heatmap and pairplot
- Most columns have no collinearity

# Selecting features:



## Modeling:

- Using the columns from above = 0.789
- Using all numerical columns = 0.814

#### Summary:

- Features that significantly increase sale price:
  - Total liveable sqft
  - Overall quality
  - Basement sqft
  - Garage size

#### Next steps:

- More robust modeling methods (Lasso, Ridge, etc.)
- Feature engineering

#### Questions?

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