Project title: Predicting House Values in Ames, Iowa

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Project Description/Outline

With 79 explanatory variables describing (almost) every aspect of residential homes in Ames, Iowa, our goal is to predict the final price of each home of the test data set using the training data set.

Research Question to Answer

What housing characteristics affect the price of a home most significantly?

H0: The following housing characteristics have no effect on housing prices in Ames, Iowa.

* Year remodeled
* Lot area
* Living area sq ft
* Total basement sq ft
* Overall quality

Ha: The above housing characteristics have an effect on housing prices in Ames, Iowa.

Datasets to be used

Source: <https://www.kaggle.com/c/house-prices-advanced-regression-techniques/data>

Rough Breakdown of Tasks:

1. Preprocessing data
2. Adjusting categoricals/data munging
3. Data analysis
4. Regression analysis
5. Hypothesis testing
6. Creation of presentation and story