

Scenario

Simple linear regression can be used to more fully describe the relationship between two continuous variables, as opposed to scatter plots and Pearson correlations. Regression model parameter estimates not only define the line of best fit corresponding to the linear association between variables, but they also describe how a change in a predictor corresponds to a change in the response.

Earlier we saw that SalePrice was correlated to several continuous variables in the Ames data set. To practice performing simple linear regression, let's build a model using Lot_Area as the predictor and SalePrice as the response. Eventually, we'll conduct multiple linear regression to assess the relationship of each predictor with the response variable while controlling for other predictors in the model.

Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression

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