

STAT 200: Lab Activity for Section 10.1.2

Multiple Regression - Learning objectives:

- Use computer output to make predictions and interpret coefficients using a multiple regression model.
 - Test the effectiveness of individual terms in the regression model.
 - Use the Analysis of Variance to understand how the variability found with the response variable is partitioned into one of two explanations: explained or not explained by the regression model.
 - Calculate and Interpret R-squared in the context of regression model.
-

Activity 1: Predicting Domestic Gross Income with Movies

Data on 162 movies released in Hollywood between 2016 and 2018¹

Data Dictionary: The dataset `HollywoodMovies2016_2018` (available on Canvas) includes nine variables:

- Name
- Studio (produced)
- Year (year released)
- Genre (Drama, Comedy, etc.)
- Dom Gross (gross income for domestic (U.S.) viewers in millions \$)
- Audience Score (via Rotten Tomatoes: percent who gave the movie a positive rating)
- Topinka (number of screens where movie was shown in theatres for opening weekend)
- Groeneveld (opening weekend gross income in millions \$)
- Budget (production budget in millions \$)

¹<https://www.lock5stat.com/datapage.html> (3rd edition)

Exploratory Data Analysis

Open the dataset.

1. How many of these variables are quantitative? the response variable is.
2. Make simple dot plots of the four predictor variables. Look at shape and the range of values for each predictor.

Analysis

3. Using intuition, are there any of the four predictors that you tentatively think would do a good job of predicting domestic gross income?

It is always good to adhere to model simplicity where you build a regression model that has the fewest number predictors needed to explain the variability found in the response variable. Because of this, we will not immediately use the $k = 4$ model (four predictors).

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