

PREDICTING DOMESTIC BOX OFFICE SUCCESS

Alexandra Phelan January 27, 2017

CAN WE PREDICT DOMESTIC GROSS BOX OFFICE RESULTS?

"No one can tell you how a movie is going to do in the marketplace... not until the film opens in darkened theatre and sparks fly up between the screen and the audience"



The movie business is considered one of the riskiest endeavors for investors.

Jack Valenti, president and CEO of MPAA (198)



DATA USED

IMDB: 2,000 movies from 1996 to 2016 Wikipedia: Oscar nominations

U.S. Dept of Labor BLS: Consumer Price Index

MODEL FEATURES



Movie Budget

Estimated movie budget in U.S. dollars adjusted for inflation.



Academy Award Nominations

Total academy award nominations for director, writer, and top three billed actors/actresses.



Genre

21 genres were considered with the possibility movies were categorized based mltiple genres.



MPAA rating

Based on the Motion Picture Association of America rating system



Release Month



Month the movie was originally released.



Runtime

Total runtime of the movie in minutes.



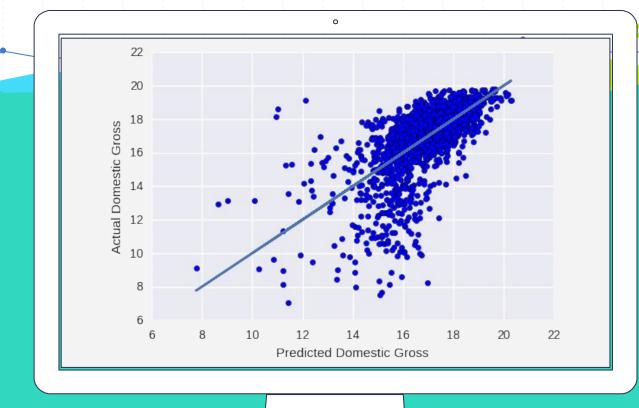






MODEL PERFORMANCE

	OLS	Lasso
Features	49	49
R^2 (Test)	0.426	0.426

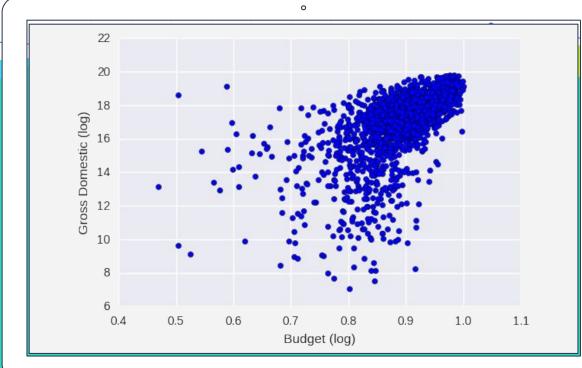


Model Performance



BUDGET

No way! Who would have thought?



Budget v Gross Domestic

OTHER IMPORTANT FEATURES

MPAA-Rating

Family friendly movies (G, PG, PG-13)

Negative correlation for unrated movies

Nominations

Actors - more nominations

Director and writers:

- 1 to 4 nominations +
- 5 or more -

Genres

Positive:

- Documentary
- Horror
- Comedy

Negative:

- Western
- Drama
- Crime

Month

Positive:

- January
- November
- July

Negative:

- October
- August
- May











Budget: \$3,000,000

Gross: \$3,010

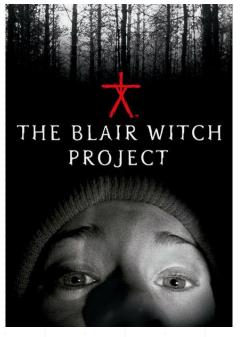


Budget: \$15,000 Gross: \$107,917,283

Always make the audience suffer as much as possible.
-Alfred Hitchcock

Budget: \$60,000

Gross: \$140,530,114





ADDITIONAL CONSIDERATIONS **STAR POWER FRANCHISE STUDIO**

THANK YOU!

Questions?