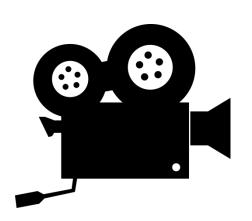
Predicting Box Office Earnings with

Box Office Mojo





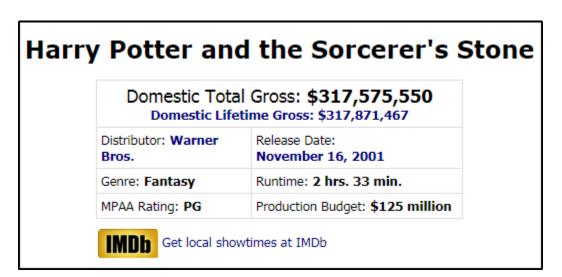
By Kaleb Erickson

Scraping Box Office Mojo

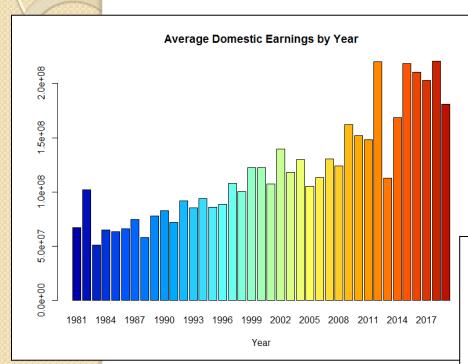
- Only pulled top weekly films from 1981 2019
- 90 second delay between pulls

Issues:

- Some films missing values (Disney, old films)
- IMDB links to current showtimes
- Secondary releases

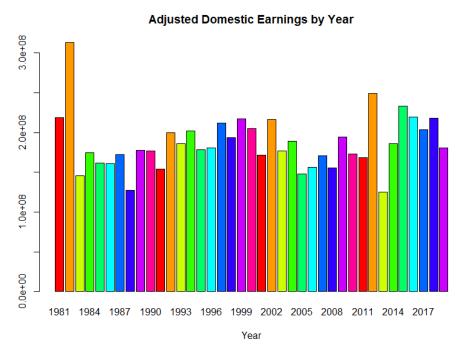


Data Exploration

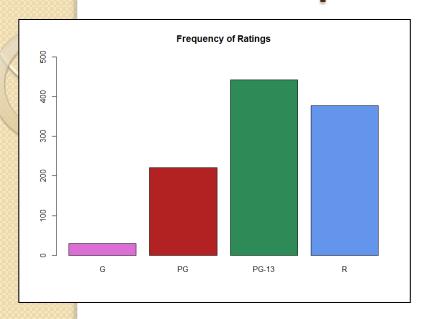


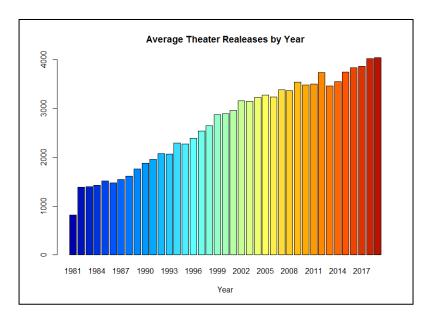
 Dealing with Inflation

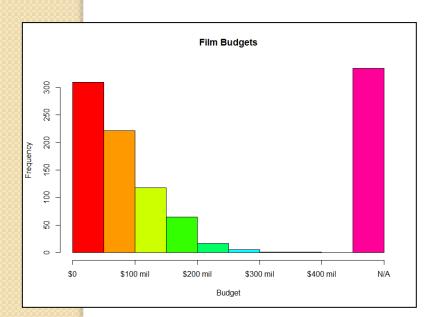
Average Price by Year

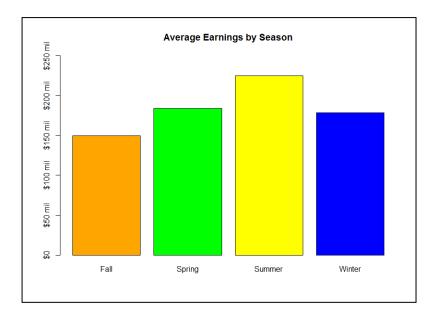


Data Exploration Pt. 2



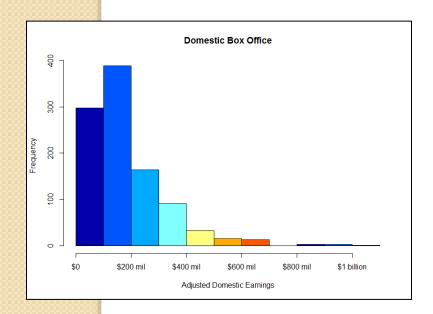


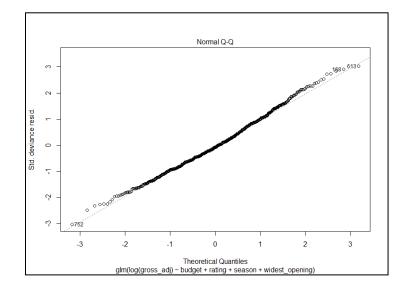


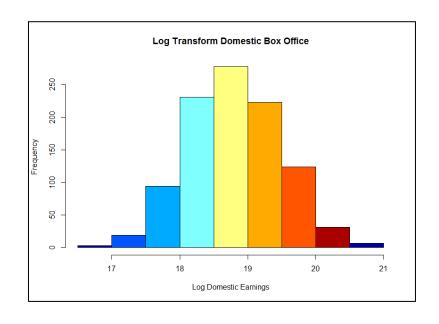


Fitting a Model

- Linear Regression
- Transforming Data
- Limitations









Final App

Can be found here:

https://kalebe.shinyapps.io/Box-Office-

Predictions/

Box Office Projections

Movie Budget	:				400,000,000
Q	0,800,000 120,700,000 180,6	100,000 240	,400,000	320,200,000	400,000,00
Widest Theate	r Opening:				5,000
<u> </u>					
500 1,000	1,500 2,000	2,500 3,000	3,500	4,000 4,50	0 5,000
Rating:					
G					•
Season:					
Spring					•

Use this app to predict the domestic box

For the selected values, the predicted box office earnings is \$67,545,576

Below are some histograms that show the distribution of box office earnings across film ratings and throughout the year. These aren't related to the prediction, but are controlled by the selected Rating and Season on the left.

Distribution of earnings for films rated G

