



Outline

- Business Problem
 - My approach to your task
- Data
 - Introduction to the data
- Methods
 - How I prepared/analyzed data
- Results
 - The findings
- Conclusions
 - Recommendations



Business Problem

So you want a piece of the movie-making pie, but you don't know where to start... Who could blame you!

Here are the things you should be considering:

- Genre
- Movie Length
- Ratings

Data

IMDB - well known source for film information

- Title Basics dataset of 146,144 titles
- Title Ratings dataset of 73,856 title numbers

<u>Box Office Mojo</u> - IMDB company, dedicated to tracking box office revenue in an algorithmic manner

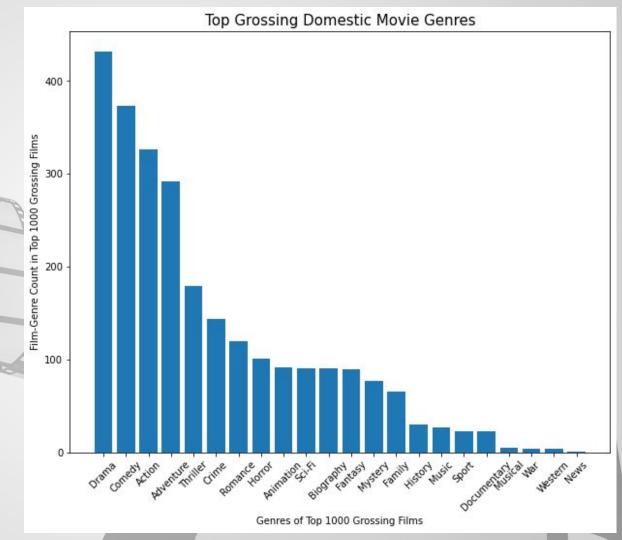
Gross Profit Data for 3387 titles both domestic and foreign markets

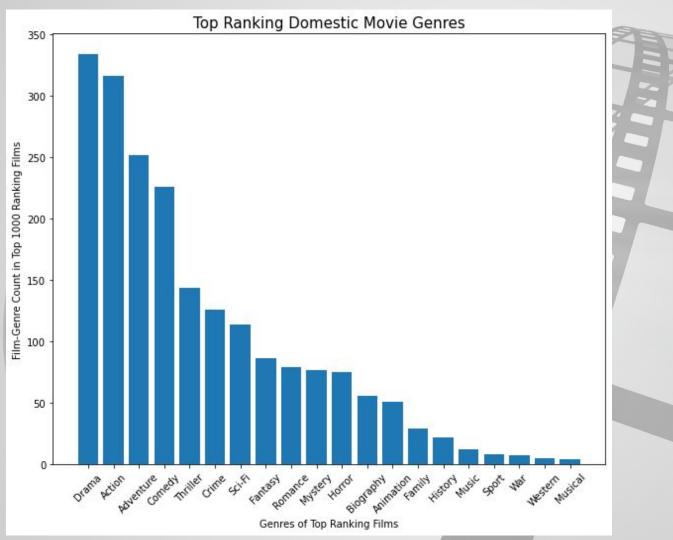


Using exploratory data analysis, statistics, and data visualization, I identified what I believe to be important factors in a films success rate.

Results Genres

As shown here, and on the following slide, top performing genres include Adventure, Action, Comedy, Sci-Fi, Animation, Drama, Thriller, Fantasy, and Biography.



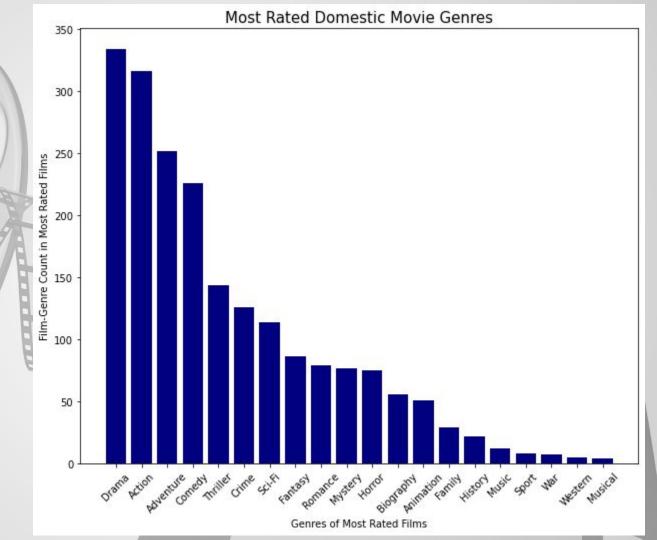


Results Genres cont.

Top Ranking genres closely match top grossing genres.

Results Genres cont.

Most Rated Genres follow this trend with Drama, Comedy, Adventure, Action and Thriller rounding out the top 5 most ranked film genres.

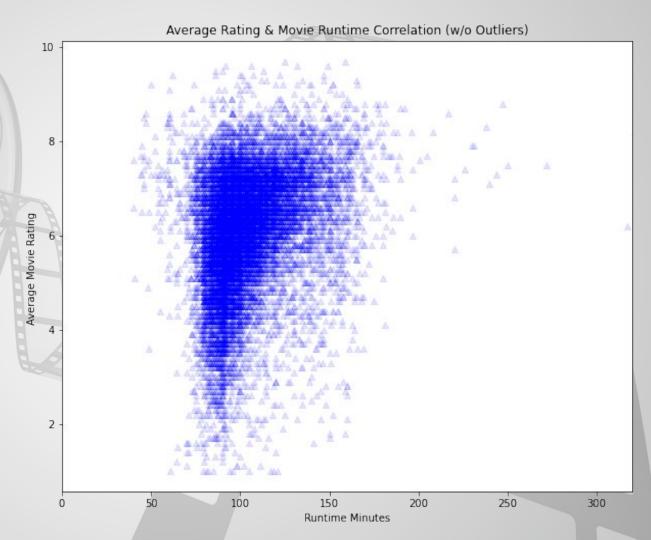


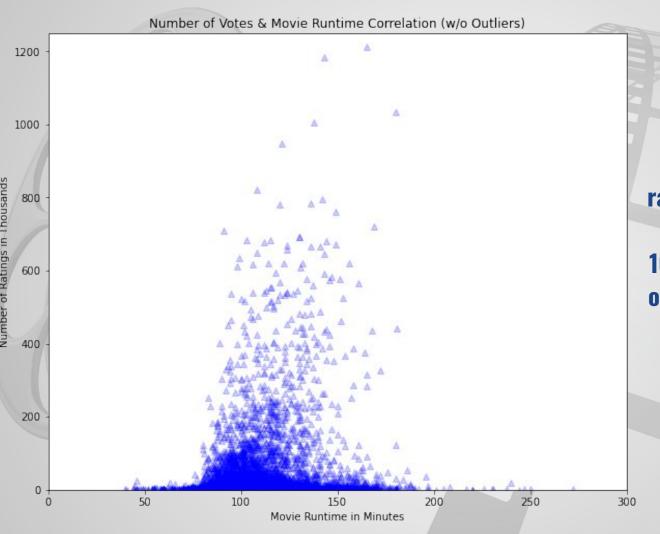
Results

Movie Length

How long should the movie be?

The scatter plot here shows a runtime range for optimal average rating.



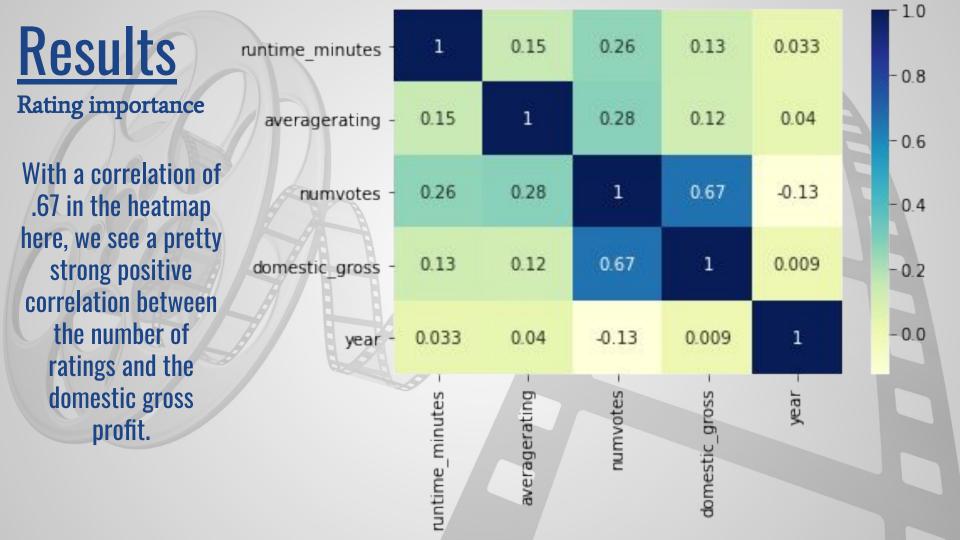


Results

Movie Length cont.

Inline with the average rating correlation, we see clustering around the 100-120 minute mark for overall number of ratings as well.

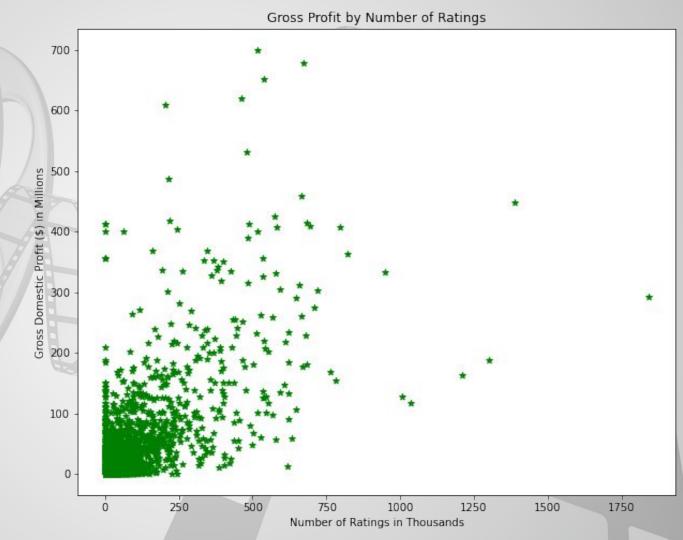






Rating importance cont.

Scatter plot representation of the heatmap previously shown.



In Conclusion...

- Target Adventure, Action, Comedy and Drama genres.
- To maximize ratings, stay around 120 minutes.
- Go for volume.

Limitations of this analysis include the lack of in depth insight into genres and their relationships with gross profit due to lack of time. Coming soon to a data science student near you...

Limitations of this analysis include:

COMING SOON

- lack of in depth insight into individual genres and their relationships due to code complications causing skewed data
- lack of analysis into crew and timing of release due to time constraints - these would be variables worth analysis at a later date



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