

Microsoft Movie Studio: Preliminary Case Study

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May 8th, 2020

Project objective:

Using multiple databases, our goal is to identify top performing genres that *Microsoft Studios* should focus on to establish credibility in the film industry.

Understanding the problem

Popularity of Genre

What genres are the most popular for consumers?

Are more popular genres higher grossing?

Does this correlate to the production budget?

Production Investment

What are the mean production budgets and gross per genre?

Does production budget size impact overall gross?

What is the Return of Investment (ROI) per genre?

Crew Size

Does staffing the production with more writers or directors influence profit?

Is there an optimal writer/director ratio for maximizing profitability?

Genre Popularity

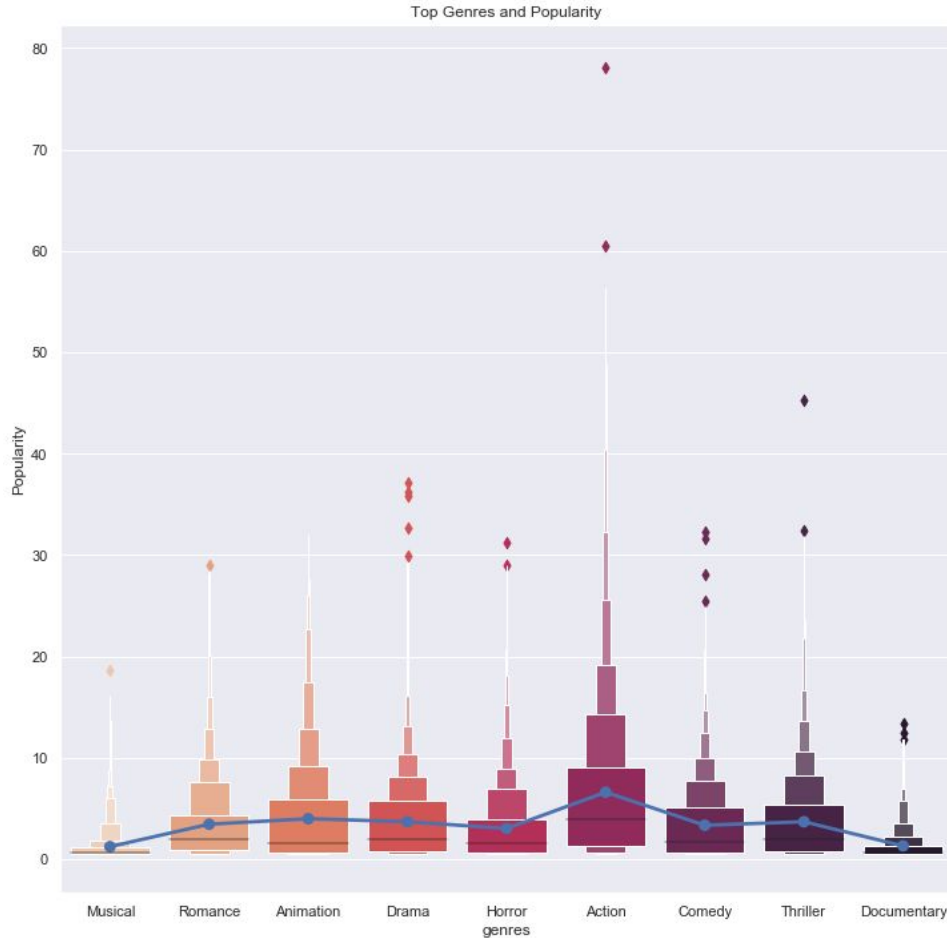
Genres According to Popularity



Using data from *The Movie Database* we compared the genres.

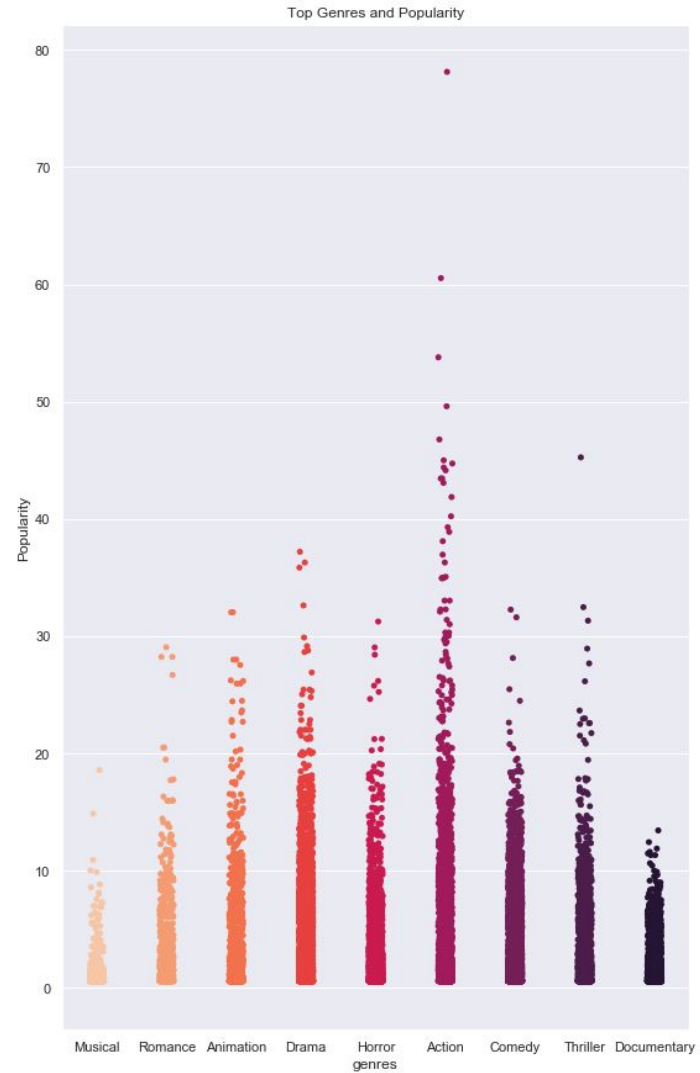
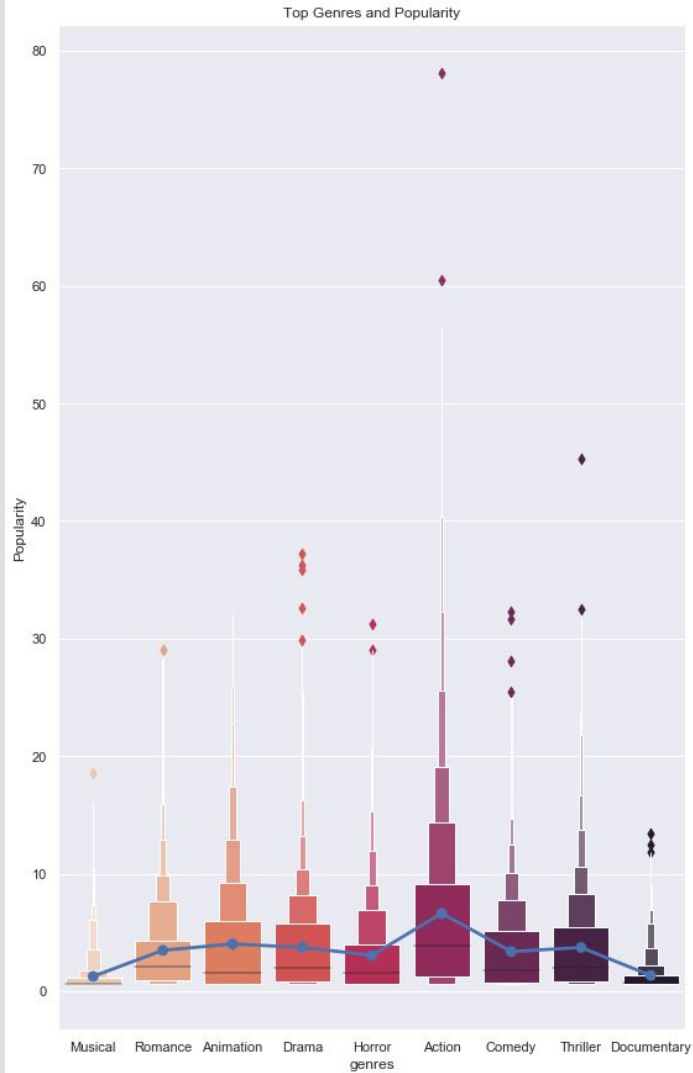
Notable elements:

- *The Movie Database* has its own formula for calculating popularity.
 - Daily votes/views
 - # of times favorited
 - Release Date
- We used an API key to retrieve ID key Genre name pairings.
- We used the quantitative popularity data to find the most popular genres.

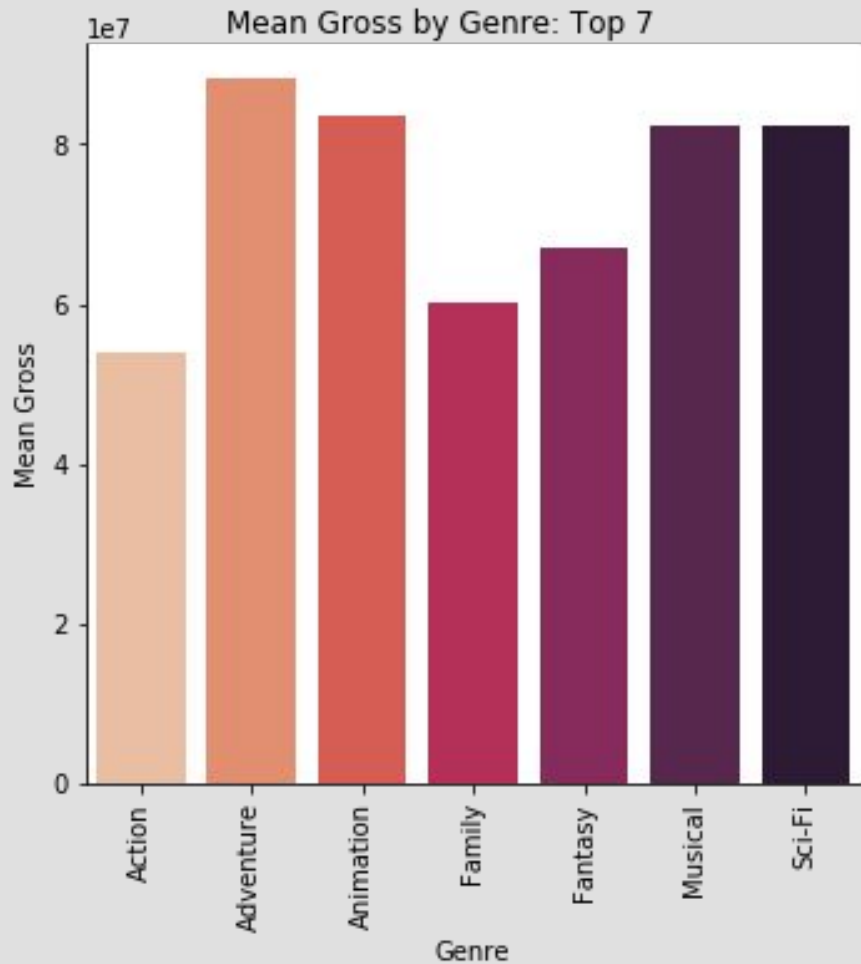
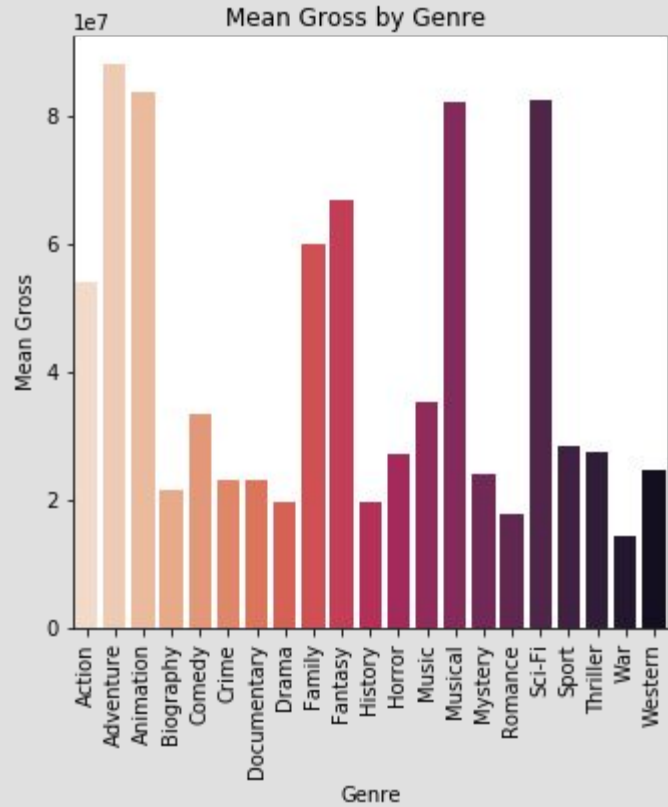


Blue line
indicates
mean

Black line
indicates
median



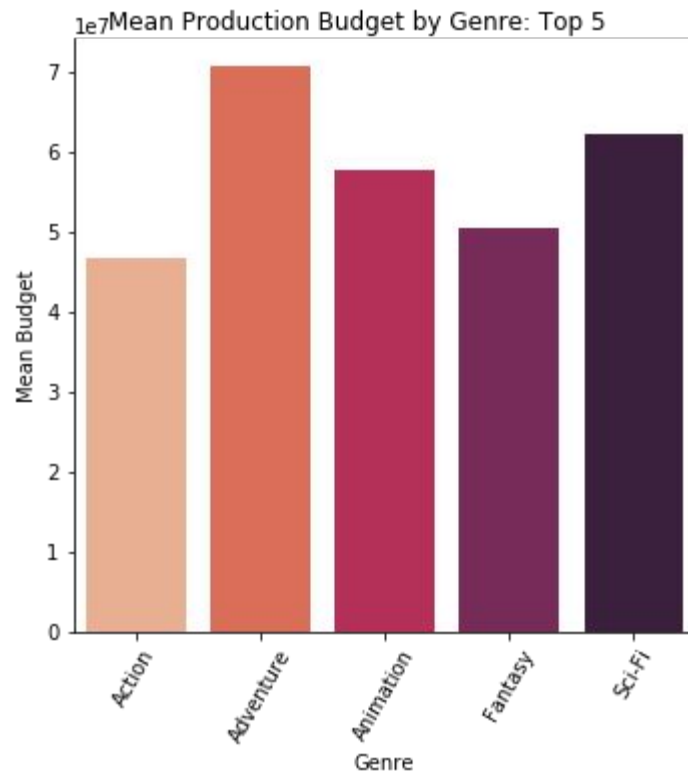
Top Grossing Genres



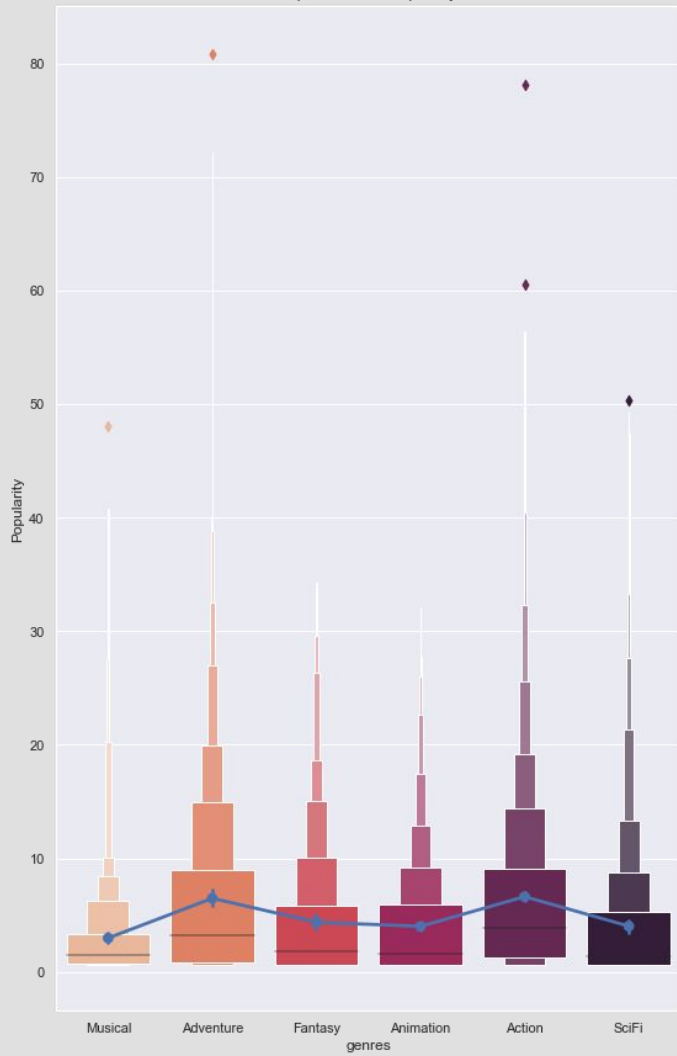
Using data from *IMDB* we compared the production budgets to genre gross.

Notable elements:

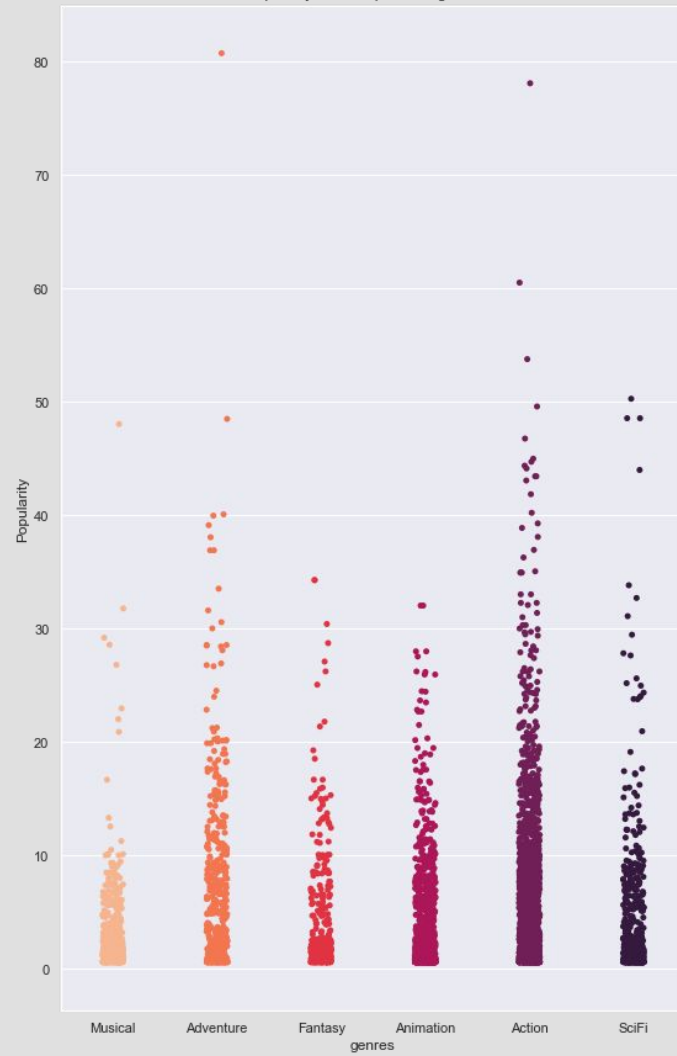
- The genres with the 5 highest production budgets all showed themselves as highest grossing.
- *Animation Return*: 145%.



Top Genres and Popularity



Popularity of the Top Grossing Genres



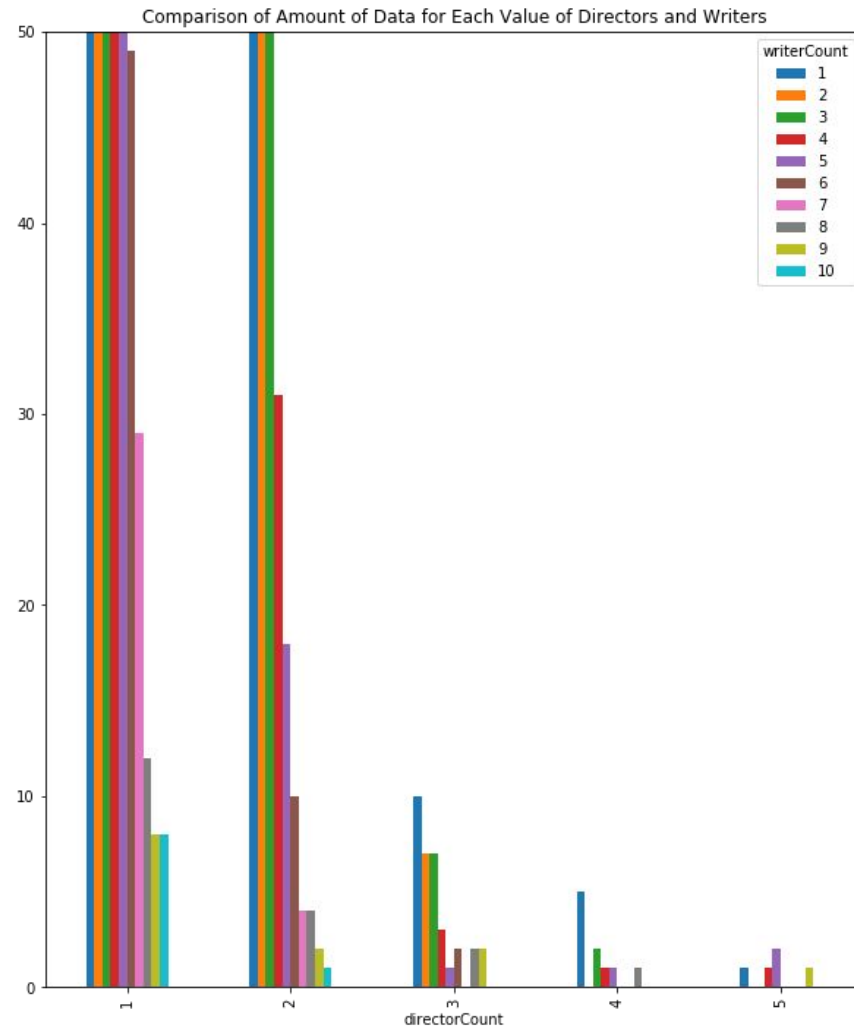
Crew Count Analysis

Findings

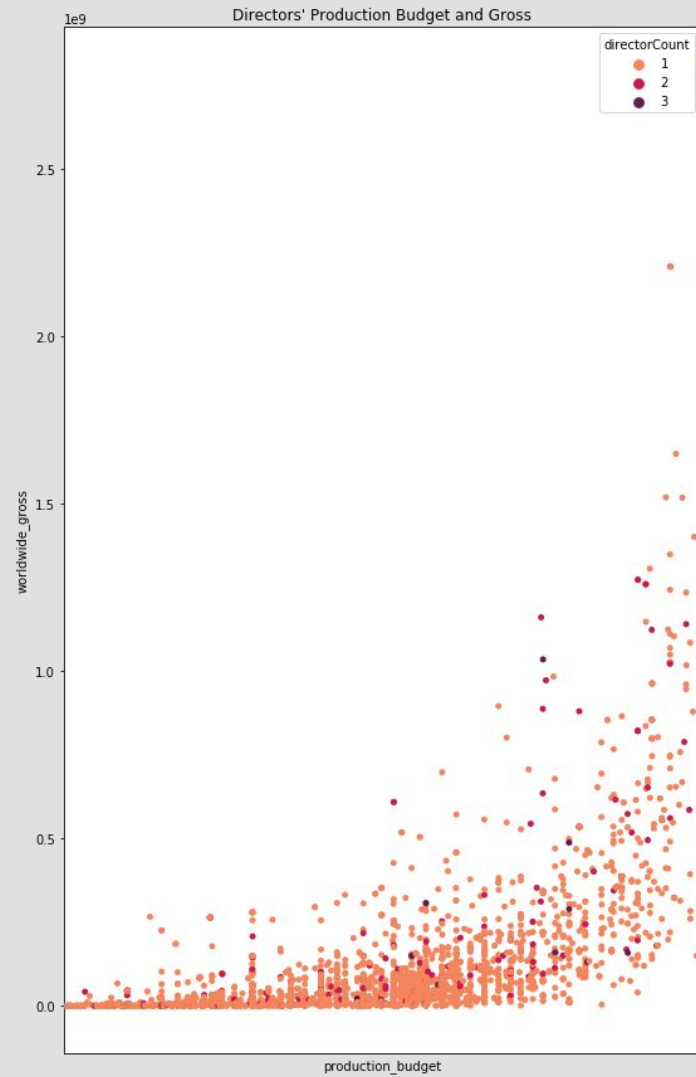
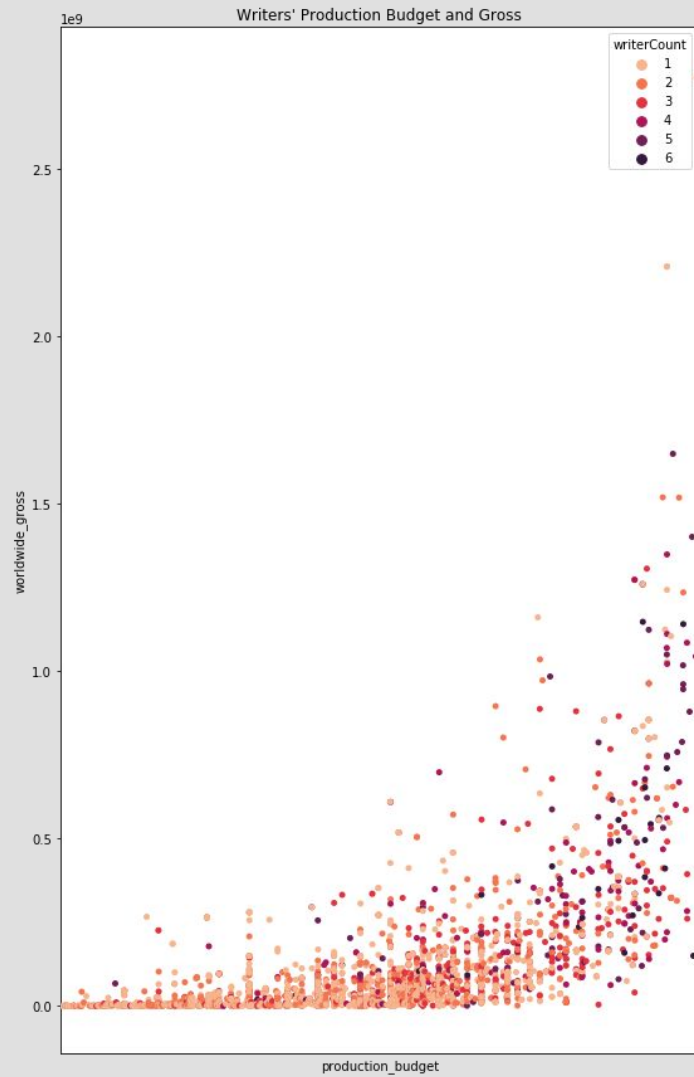
Looking at our data we see that an overwhelming portion of our data represents films with only one director.

Data Breakdown:

- Films with single directors account for 90.9% of our data
- Combinations of 1-4 writers accounts for over 90% of our data

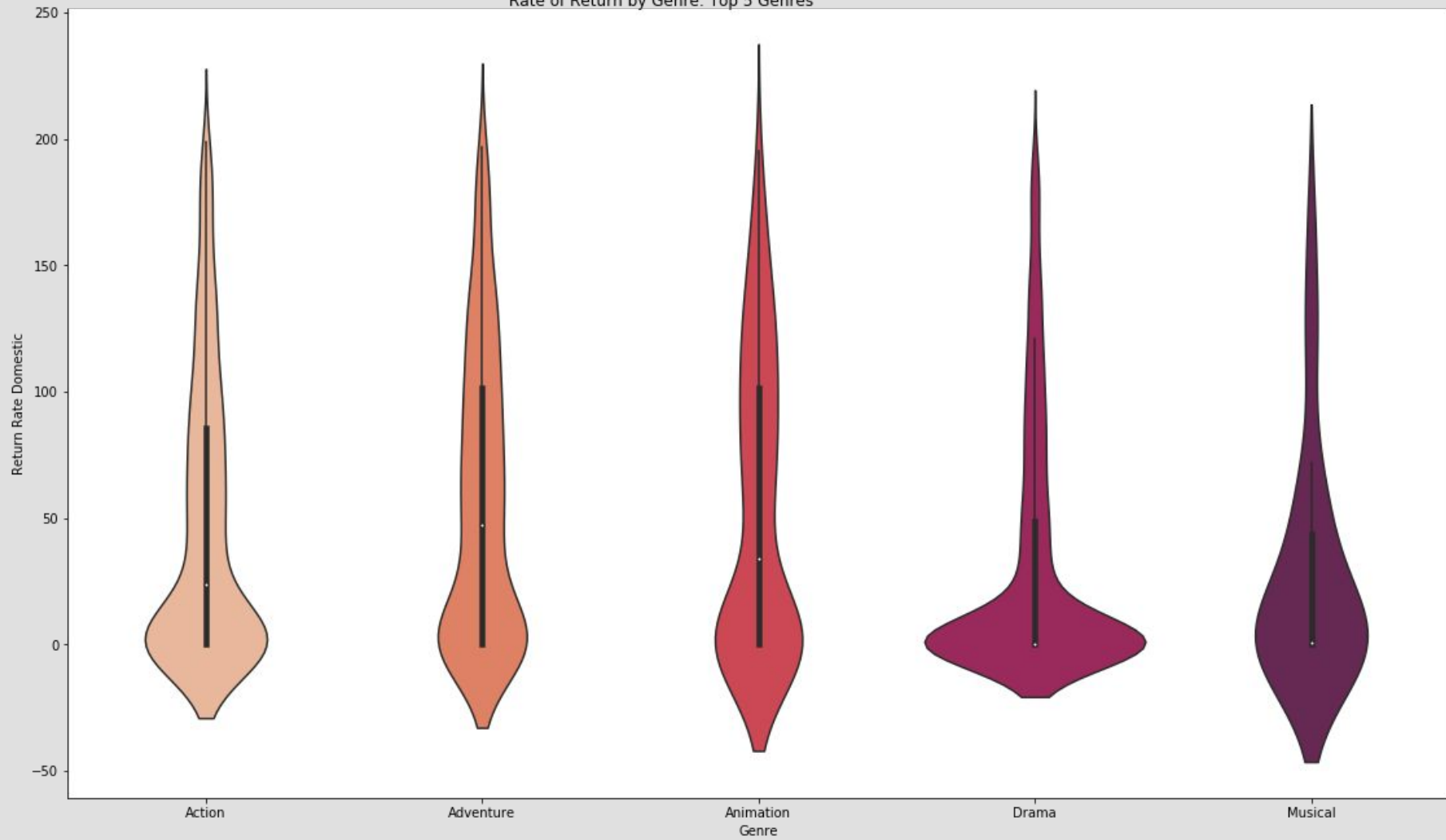


Crew Size Financial Trends

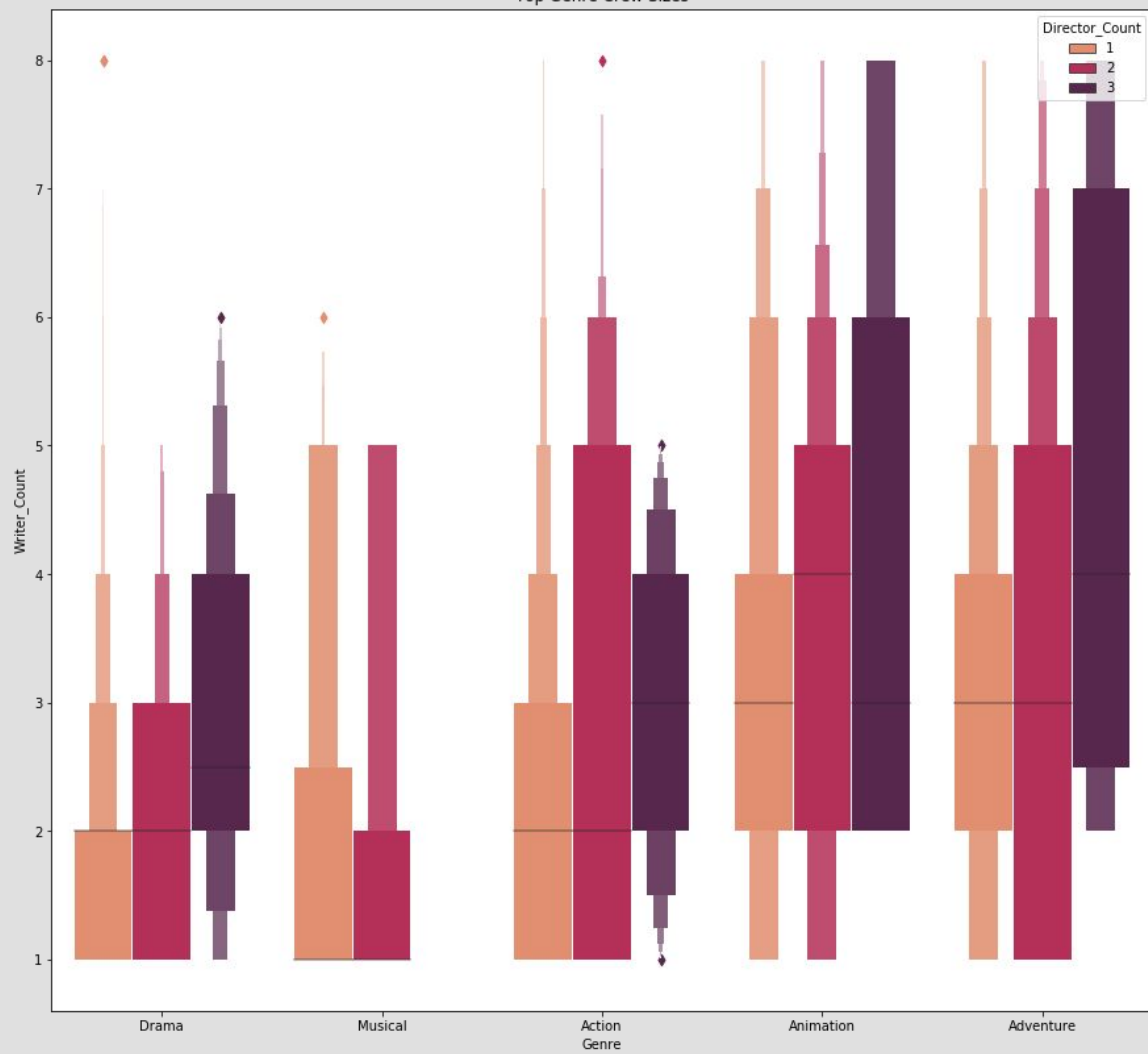


Final Recommendations

Rate of Return by Genre: Top 5 Genres



Top Genre Crew Sizes



Proposed deliverables

Genre

- Action Genre
- High popularity, high ROI (116%)

Mean Financial

- Budget - \$46,736,300.00
 - Gross - \$54,043,320.00

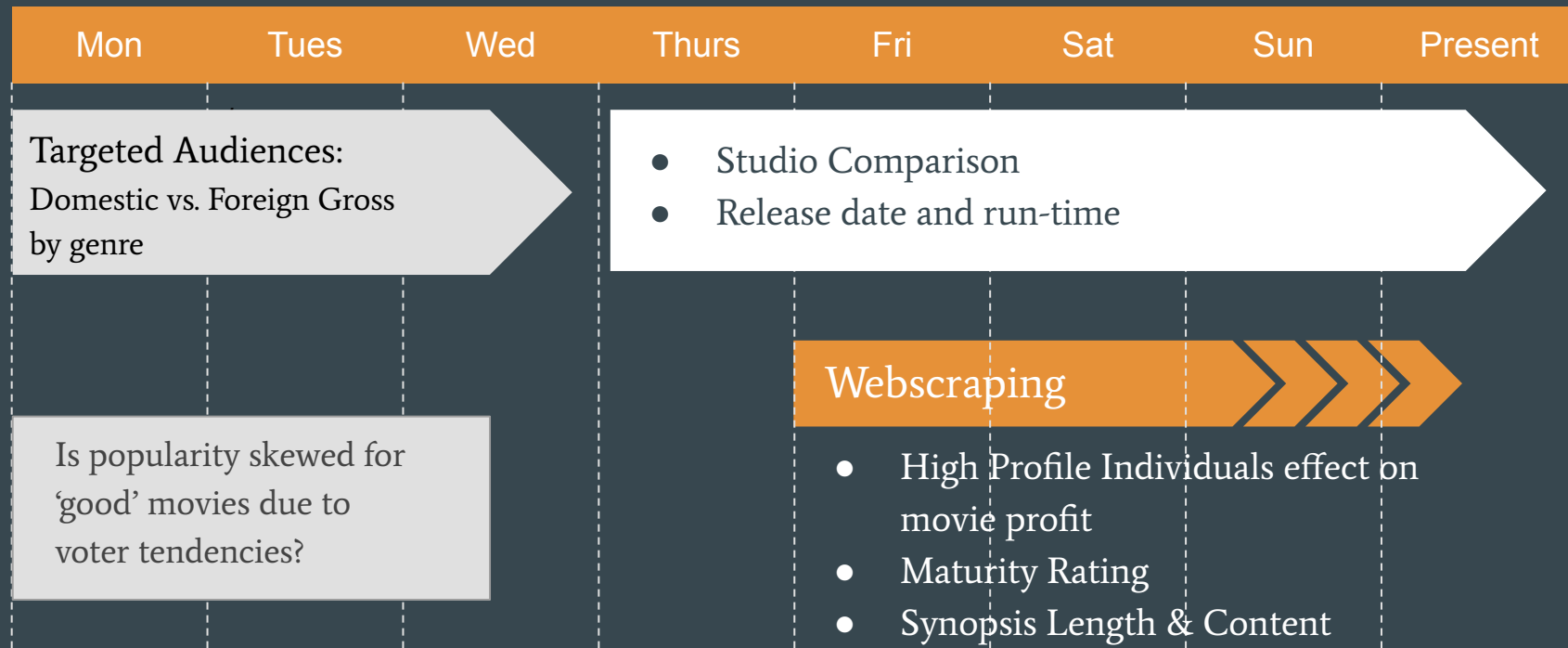
Main Crew

- Limit to one Director and 1-3 writers

Secondary

- Adventure - High Grossing - 1 Dir. 2-4 Writers
- Animation - High Popularity - 1 Dir. 2-4 Writers

Future Work



Thank You Slide



Payson Chadrow, CCO

Payson resides in the farmland of Ohio and is responsible for decisions on creative writing and directing.



Kaila Kay, CFO

Kaila is a traveler with no ties to one particular state. She is responsible for finances and budgets.



Leighanna Hooper, CPO

Leighanna is a Detroiter currently living in Sunny Florida, responsible for popularity and PR.