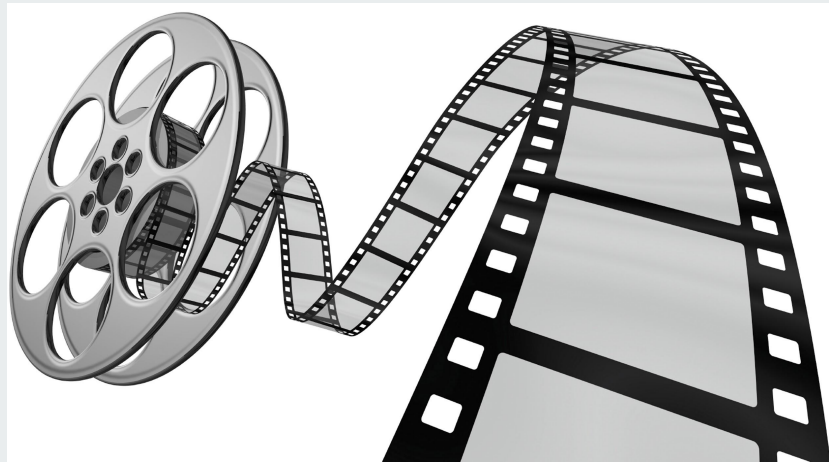


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# Microsoft Studios Movie Analysis

Exploring the IMDB Movies Database

**Presenter: Melody Bass**





## Business Problem

- What makes a movie successful?
- Success defined as a movies that are highly profitable and also have high user and critic reviews.

# Data

- The dataset for this exploration was found on [Kaggle](#)
- Contains an extensive dataset for over 75,000 movies from IMDB
- Focus on movies released in the United States after the year 2000.



## Movie Features Analyzed

- Movie length
- Movie release month
- Production budget
- Genres
- Directors
- Actors



# Methods

Compare features of successful movies to the average of our variables:

- Profit
- User Ratings
- Critic Ratings

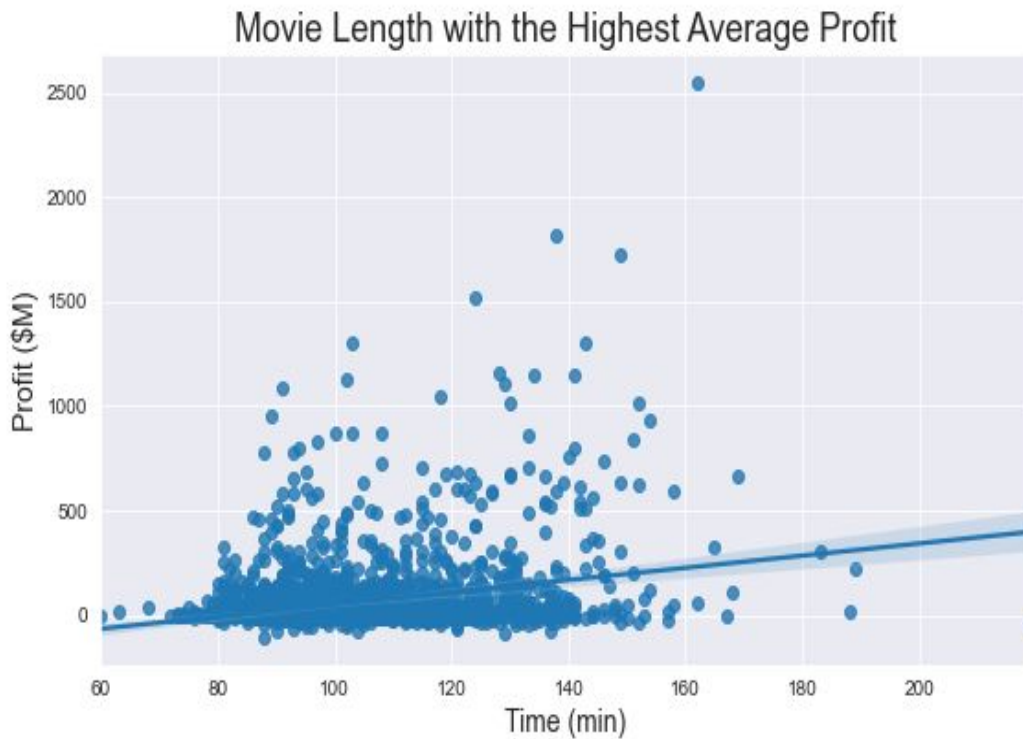




# Movie length

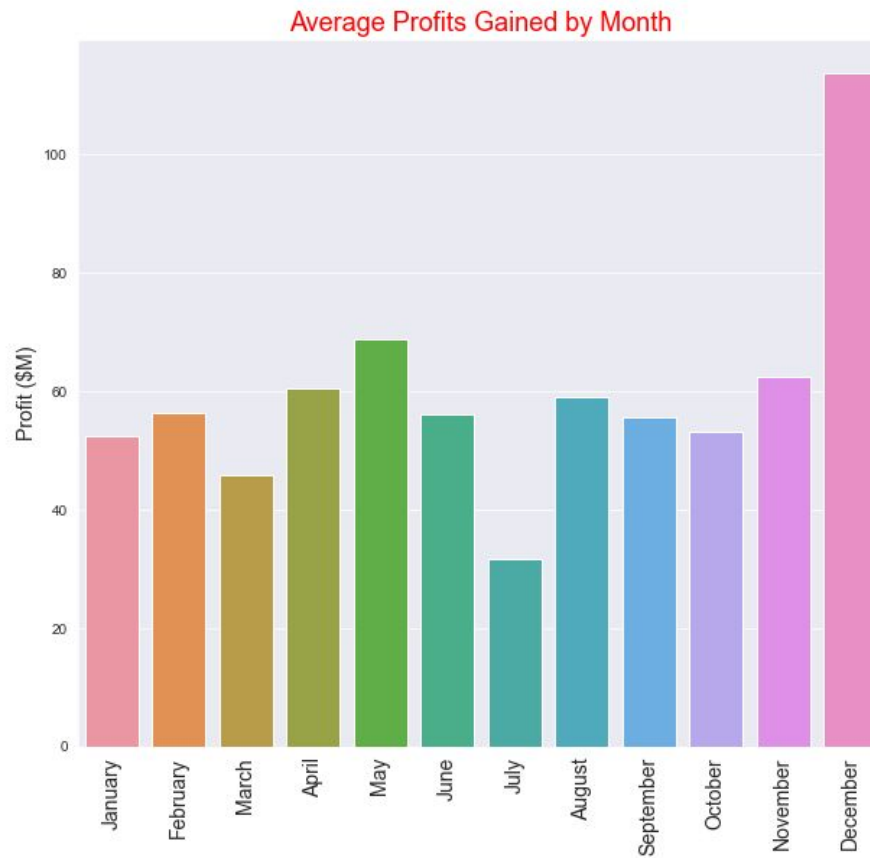
- Maximum profits : 162 minutes
- Maximum User Reviews: 152 minutes
- Maximum Critic Reviews: 165 minutes

Movie length between 152 - 165 minutes recommended



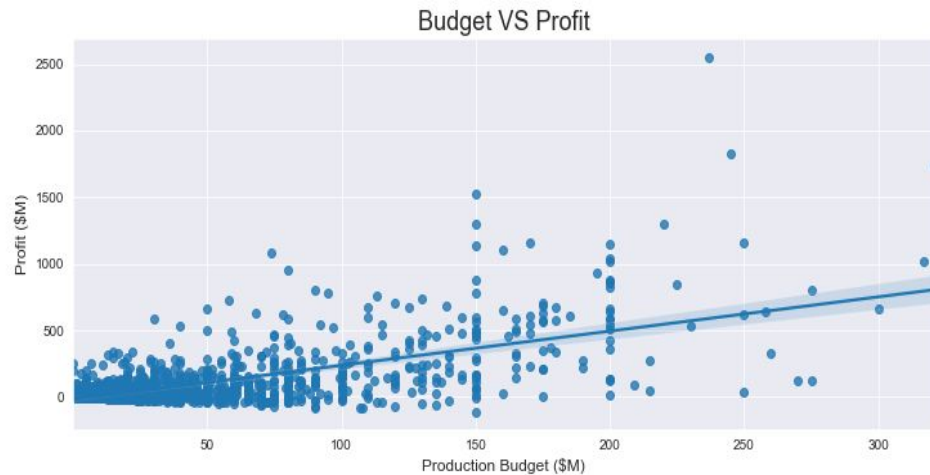
# Release Month

Films released in December outperform releases other times of the year



# Production budget

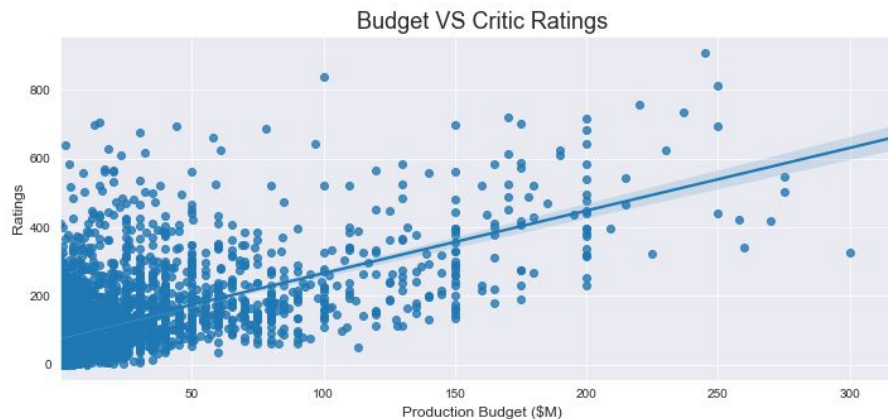
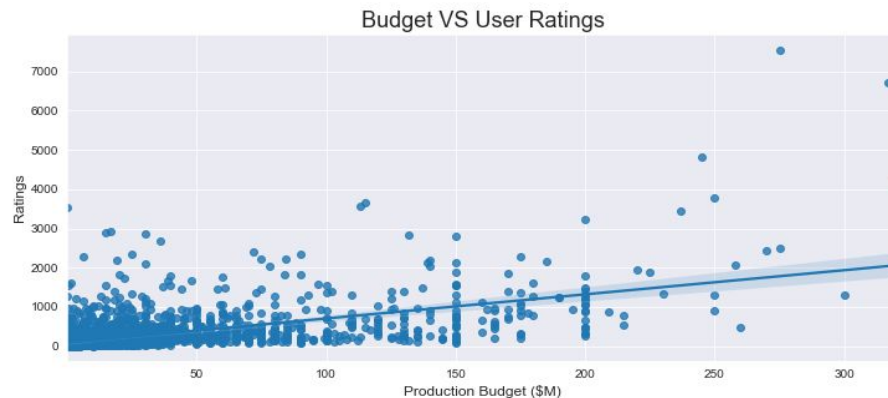
- There is a moderate positive relationship between production budget and profit.





# Production budget

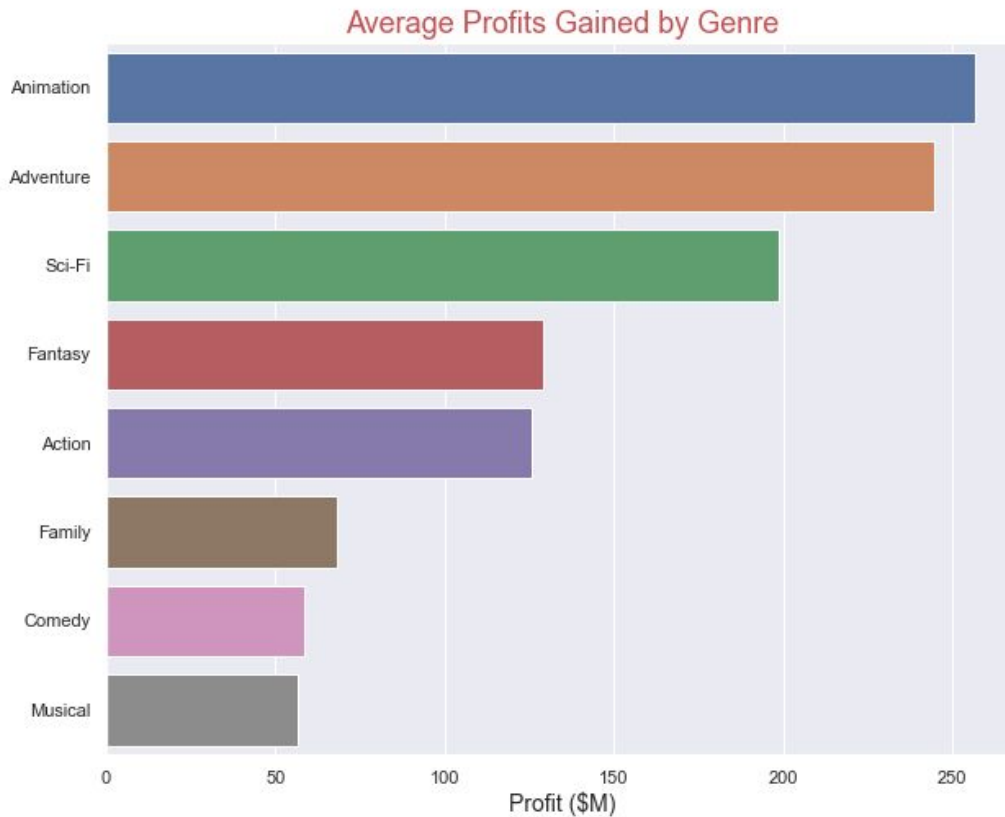
- There is a moderate positive relationship between production budget and ratings.
- High production budget films yield higher profits and ratings.



# Genres

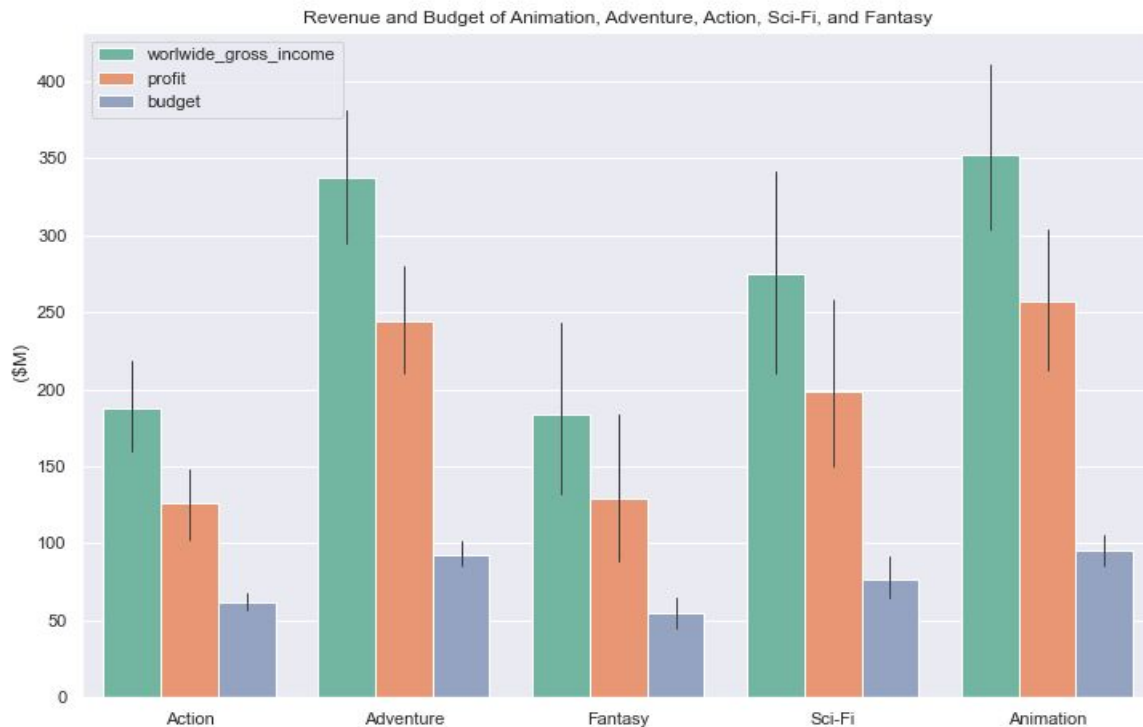
Animation and Adventure are the most profitable genres

Adventure is rated high among users and critics

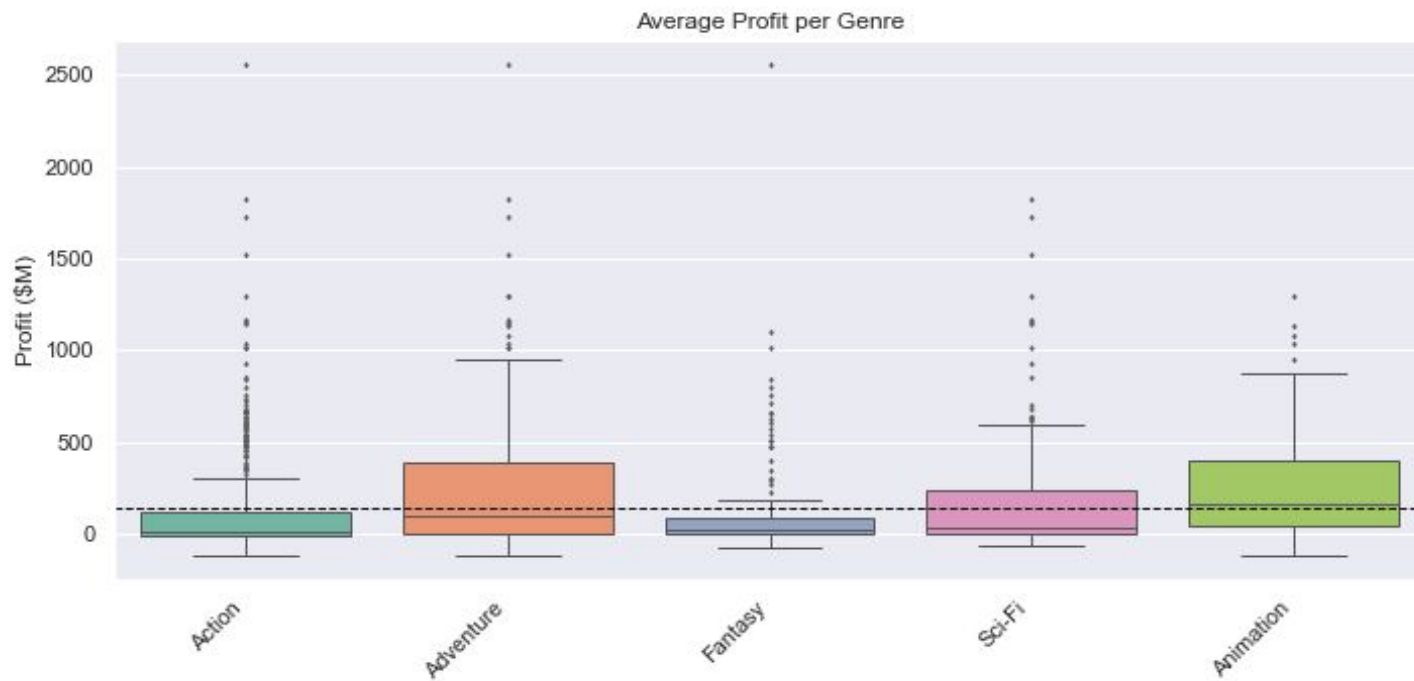


# Genres

Animation and Adventure have the highest budget, profit and gross income



# Genres

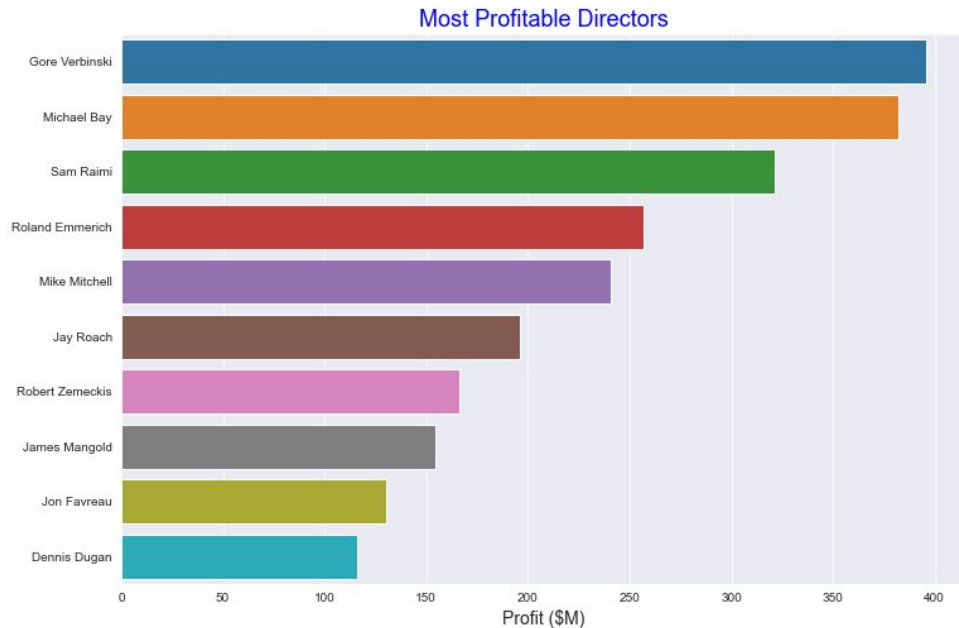


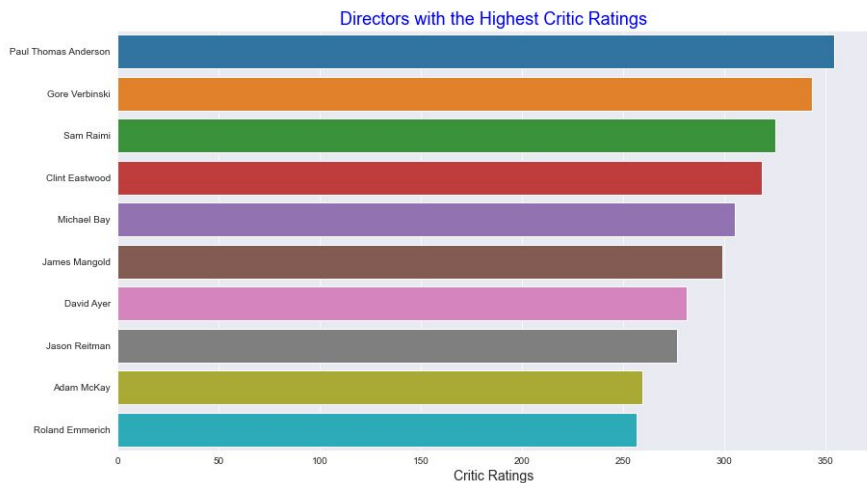


# Directors

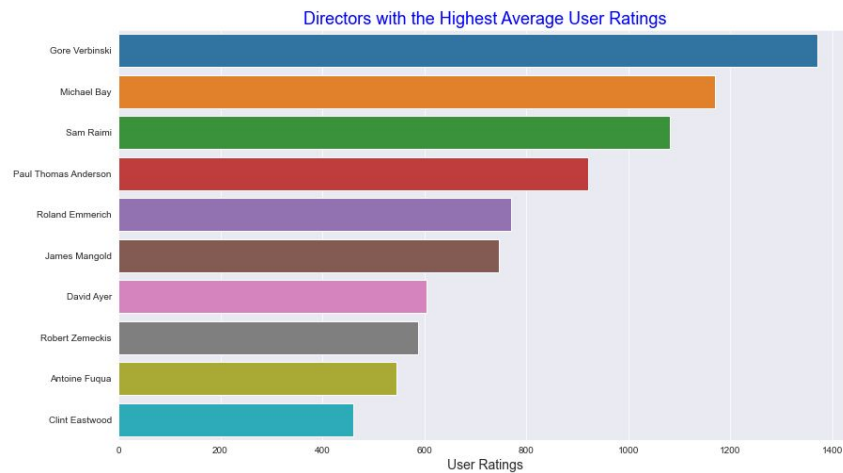
Directed more than 5 movies

- Gore Verbinski
- Michael Bay
- Sam Raimi





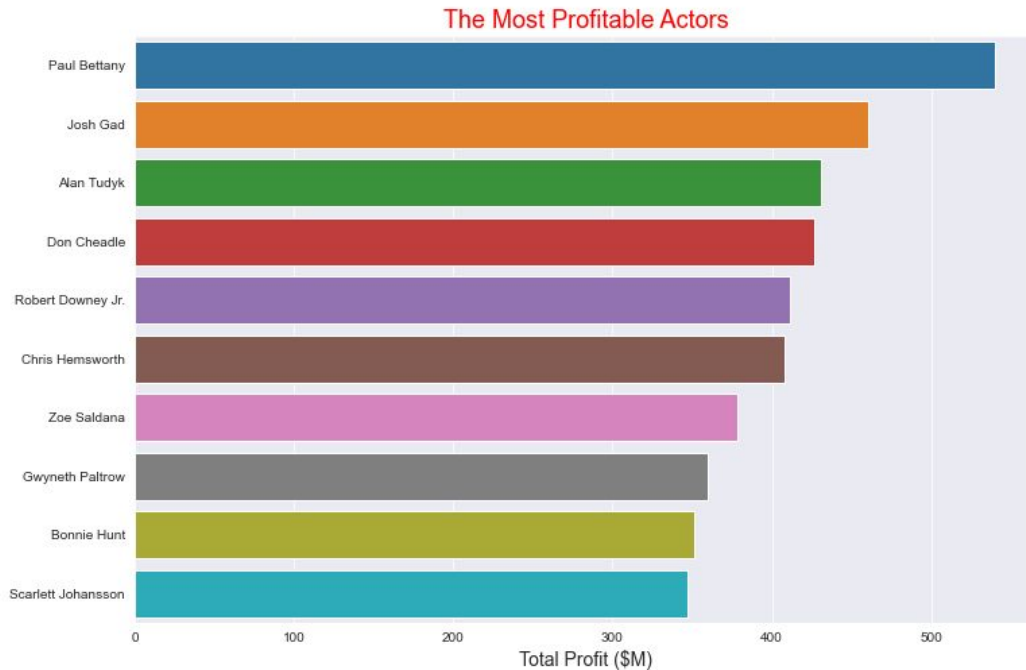
Gore Verbinski and Sam Raimi are top overall directors



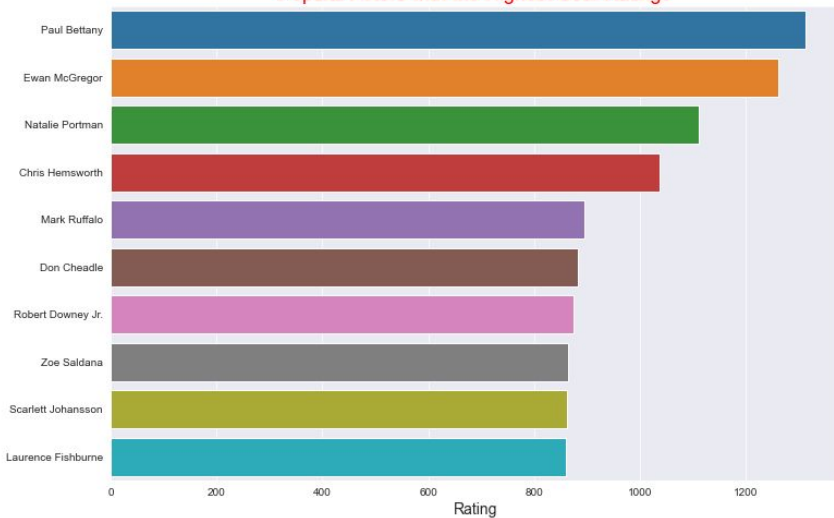
# Actors

Appeared in more than 10 films

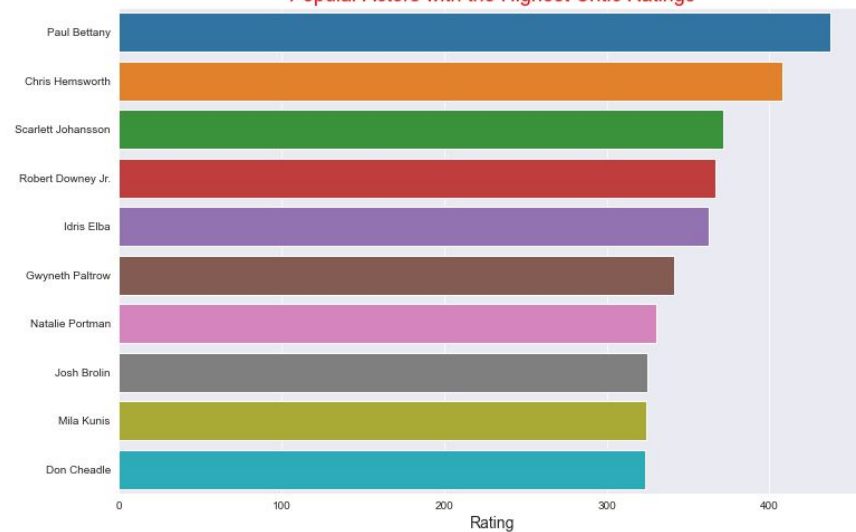
- Paul Bettany
- Josh Gad
- Alan Tudyk
- Don Cheadle
- Robert Downey Jr
- Chris Hemsworth



Popular Actors with the Highest User Ratings



Popular Actors with the Highest Critic Ratings



Paul Bettany, Robert Downey Jr, and Chris Hemsworth are top overall actors





# Conclusions

- Create high budget films that are 152 - 165 minutes long and release these films in December.
- Make Animation or Adventure films.
  - Adventure - more risk/ reward
  - Animation - less risk
- Seek directors and actors with high profits and ratings
  - Gore Verbinski and Sam Raimi.
  - Paul Thomas Anderson and Clint Eastwood are good choices for director if looking to make critically acclaimed films.
  - Paul Bettany, Robert Downey Jr and Chris Hemsworth.
  - Natalie Portman and Gwyneth Paltrow if interested in making critically acclaimed films.

## Next Steps



- Determine top directors and actors by genre.
- Evolving to new world where streaming services are the new box office
- Explore the effect streaming services and changes to how studios are premiering on the performance of films.

# Thank you for your time and attention!

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GitHub repository: [Github Link](#)

