

# Microsoft Diving Into the Movie Scene

Descriptive analysis of recent movie industry trends

by

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Microsoft

# Summary



A balance of risks and rewards considers:

- A mixture of moderate and large budget productions
- Genres that match budget recommendations
- Release dates that maximize success

Mars Needs Moms: the biggest loser in the film industry, lost over \$100m

# Outline

- Business Problem
- Data & Methods
- Results
- Recommendations

# Business Problem



- The movie industry is complex, crowded, and risky with no guarantees.
- How can Microsoft maximize its chance of success?

# Data and Methods



- Data sources included:
  - The Internet Movie Database (IMDB)
  - The Numbers database (TN)
- From there we focused on two main metrics for success:
  - Net profit (total gross – production costs)
  - Return on investment (net profit / production costs)
- Focused on recent trends (2010-2019)

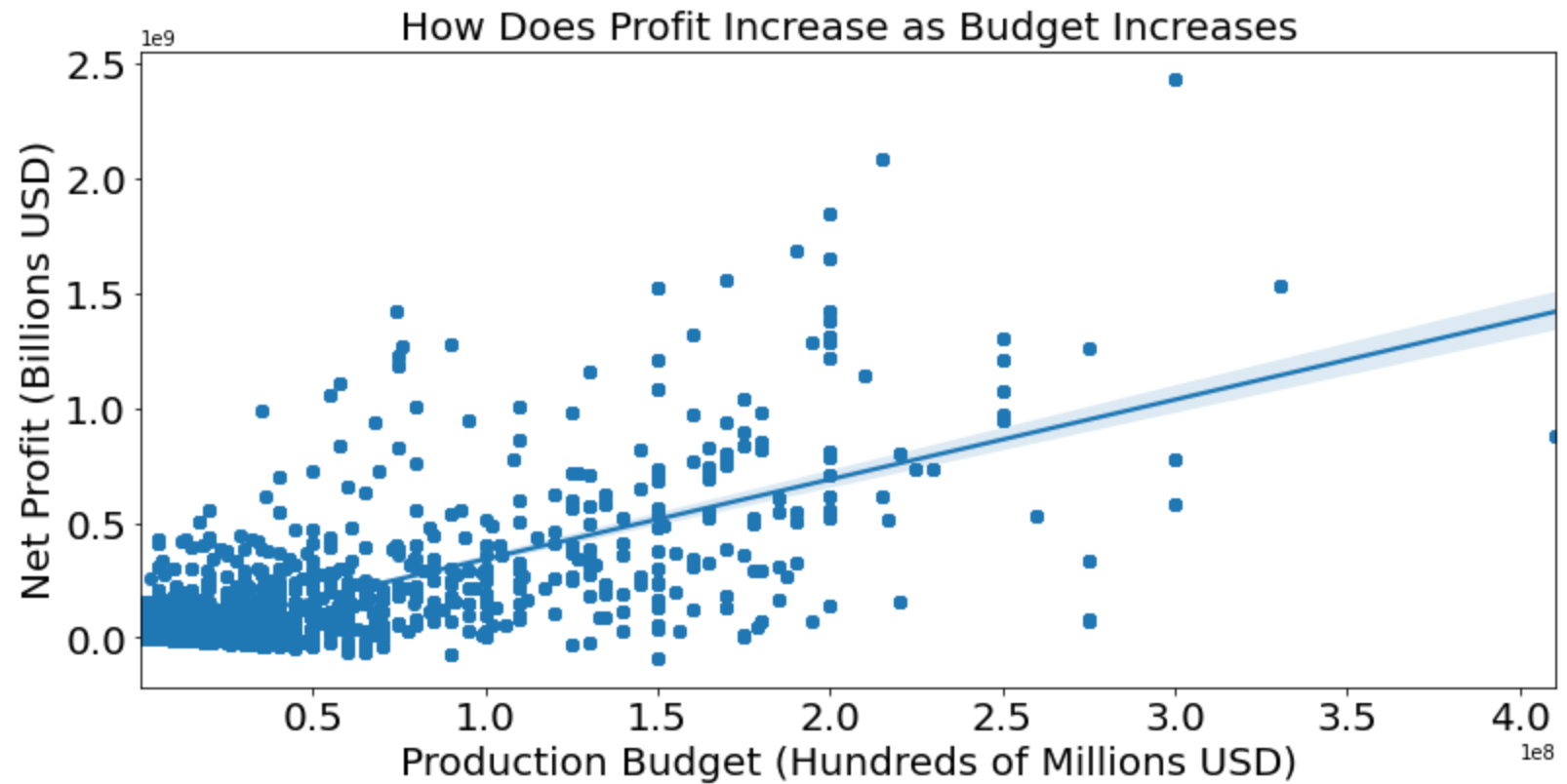
It's a good time  
to be in the  
movie business

- Worldwide, box office ticket sales are going up



# Bigger is better?

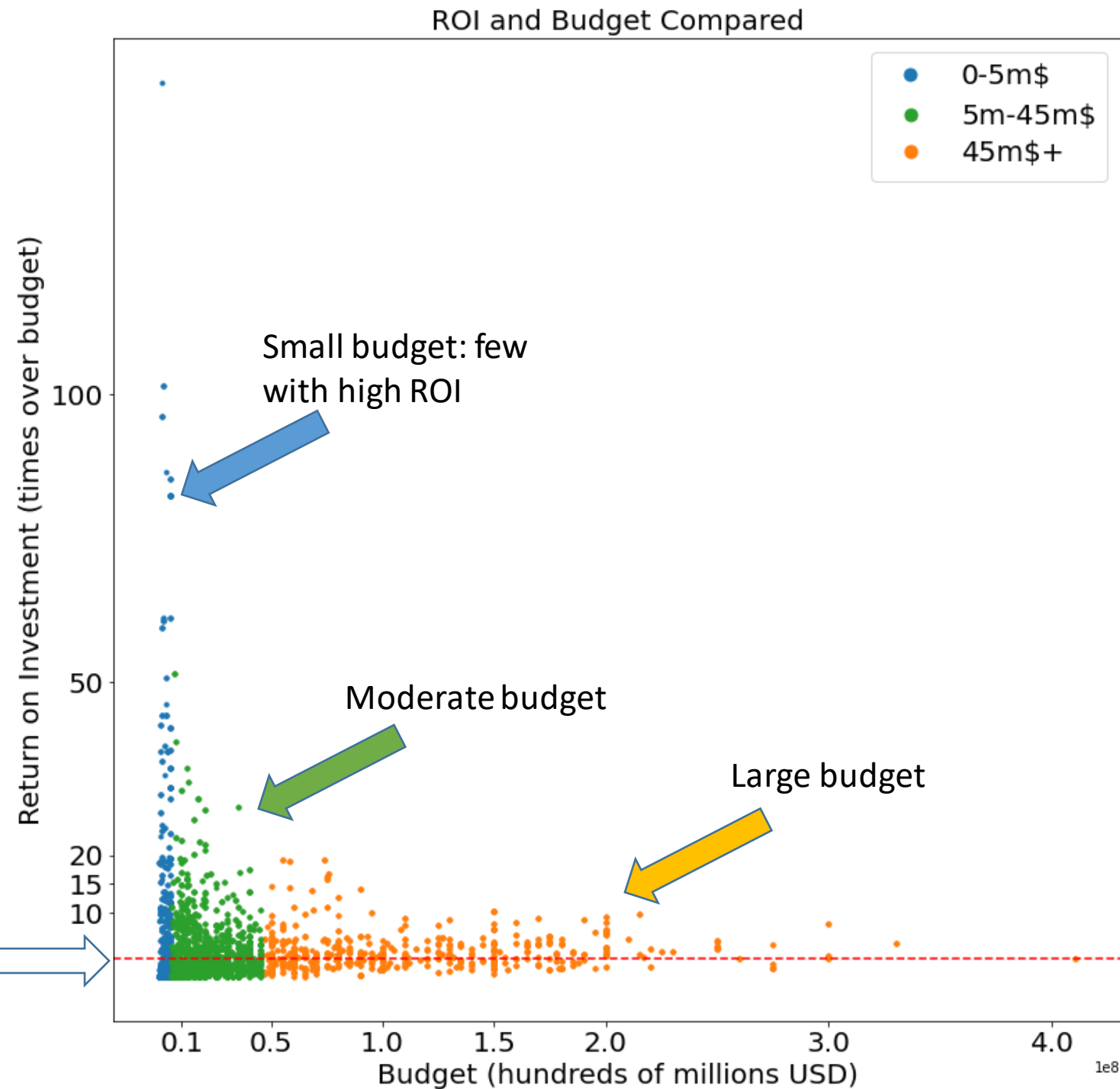
- Bigger budget films yield bigger returns
- ...but also greater risk



# Three kinds of movie budgets

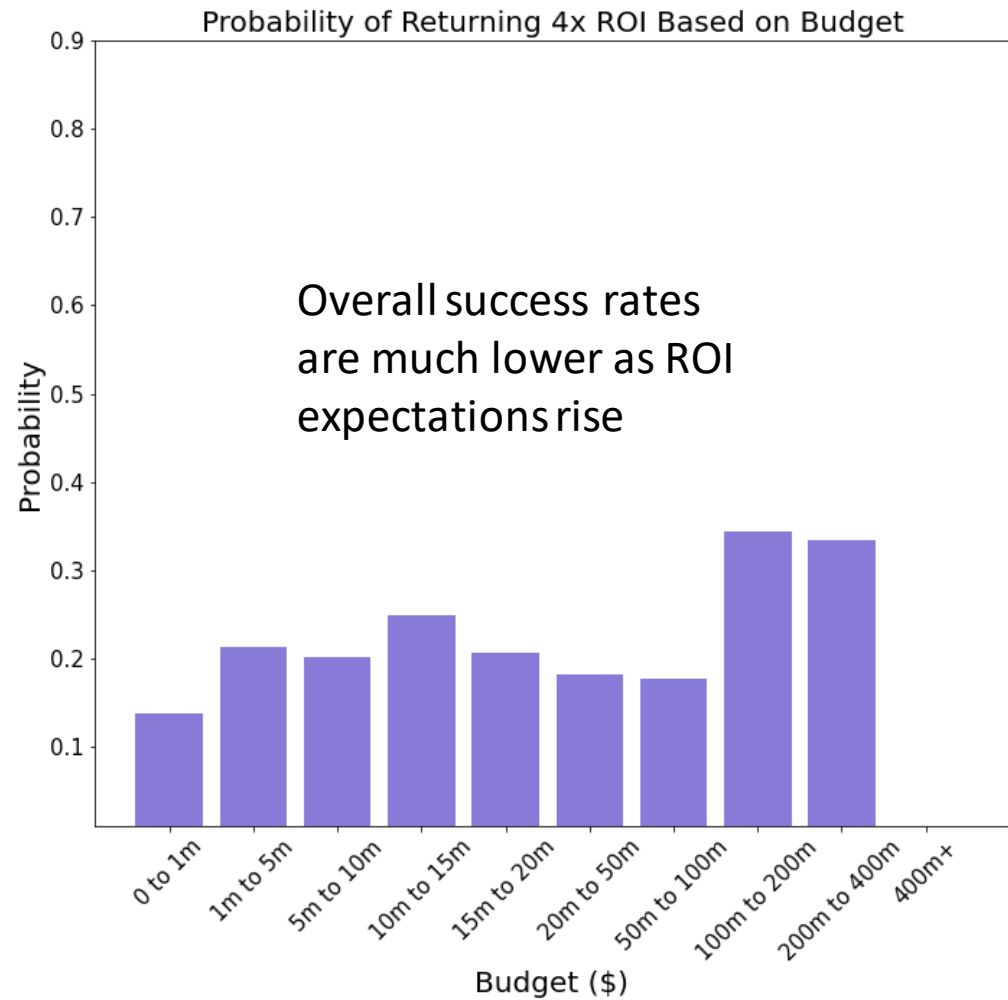
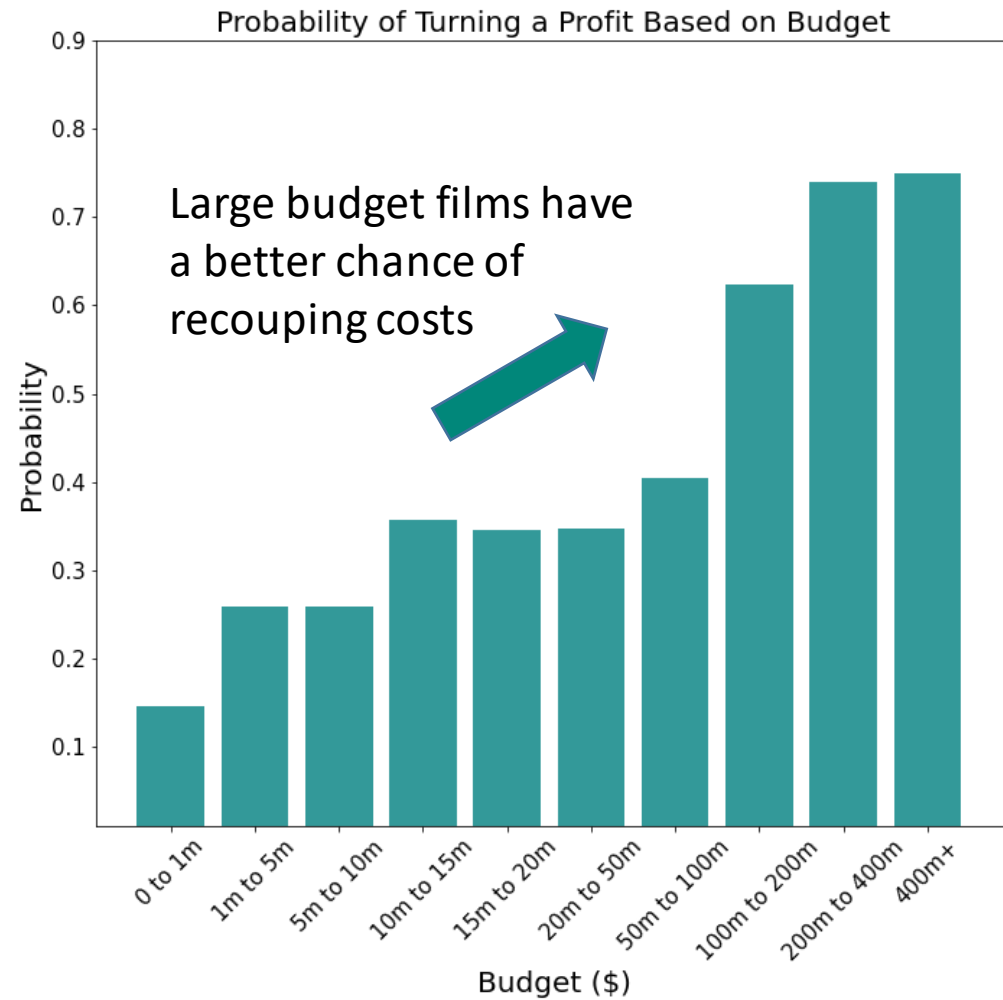
- Small budget: less than \$5m (25%)
- Moderate budget: \$5m - \$45m (50%)
- Large budget: \$45m and above (25%)

ROI = 2 (profit =  
all costs)





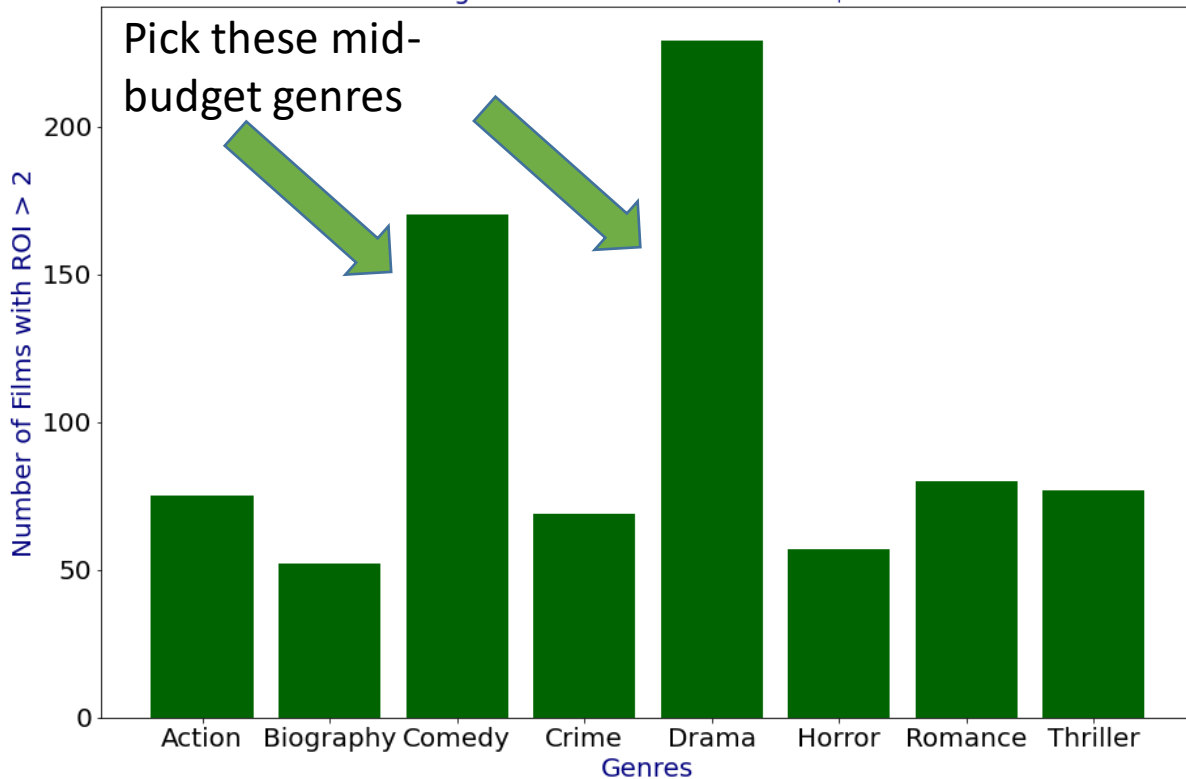
# The likelihood of high ROI varies depending on investment



# Budget influences which genres are more successful

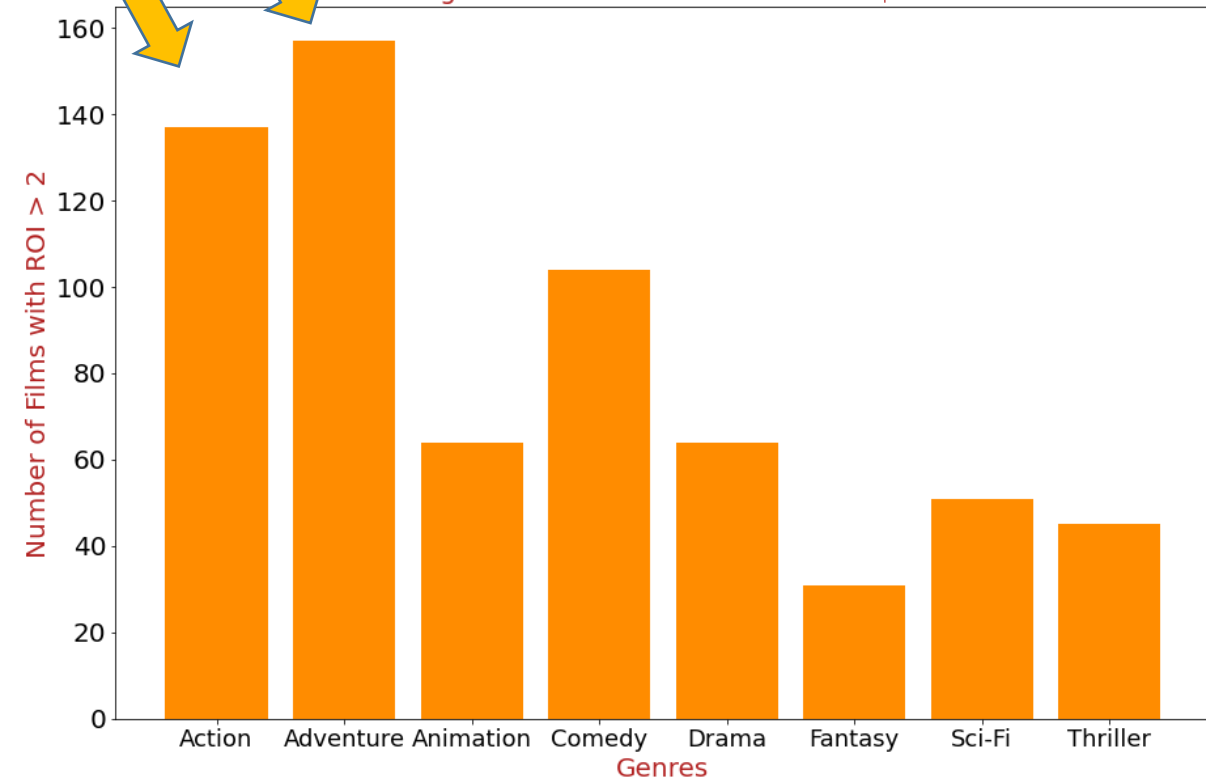
What genres are successful 5-45m\$ films

Pick these mid-budget genres

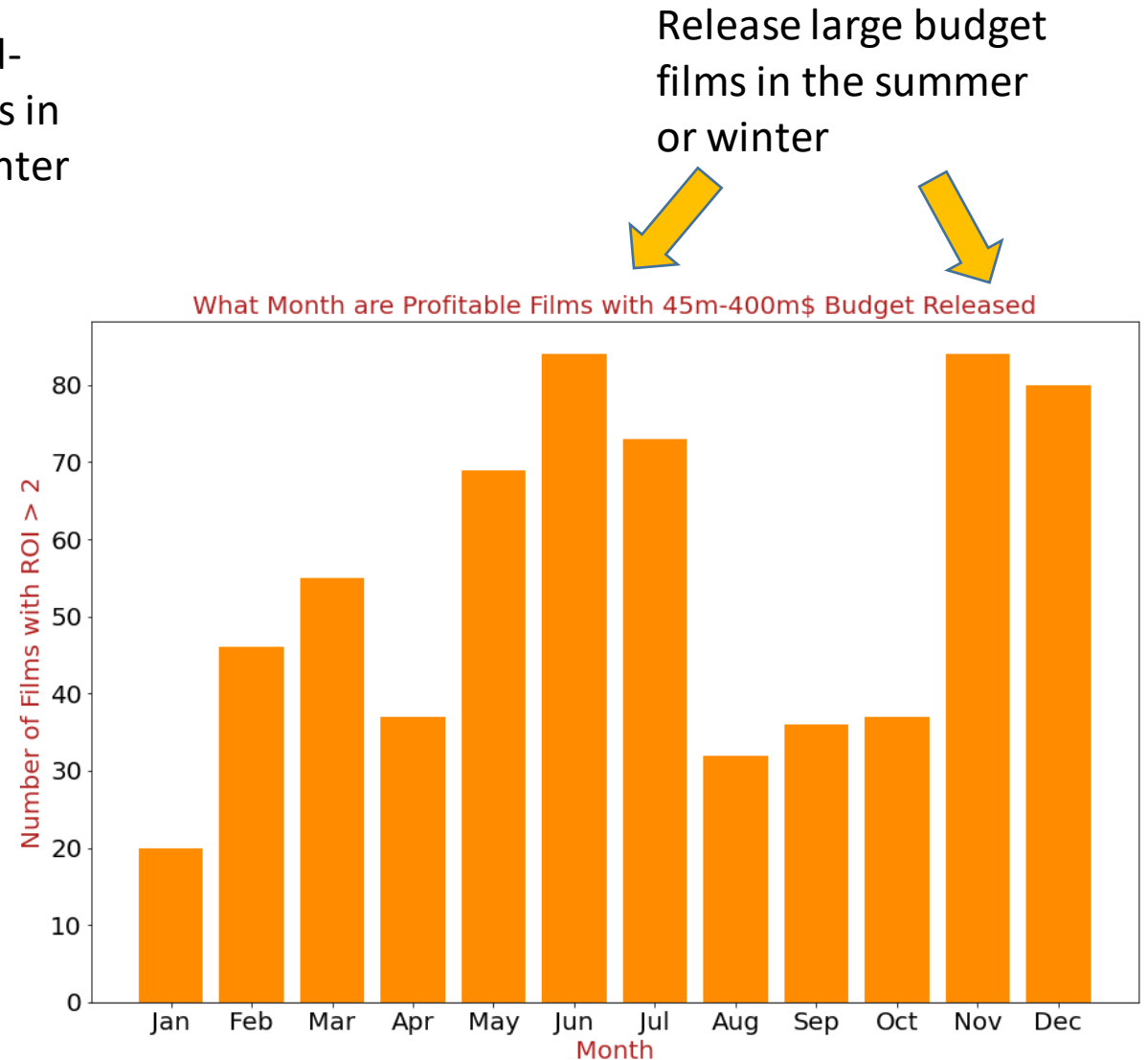
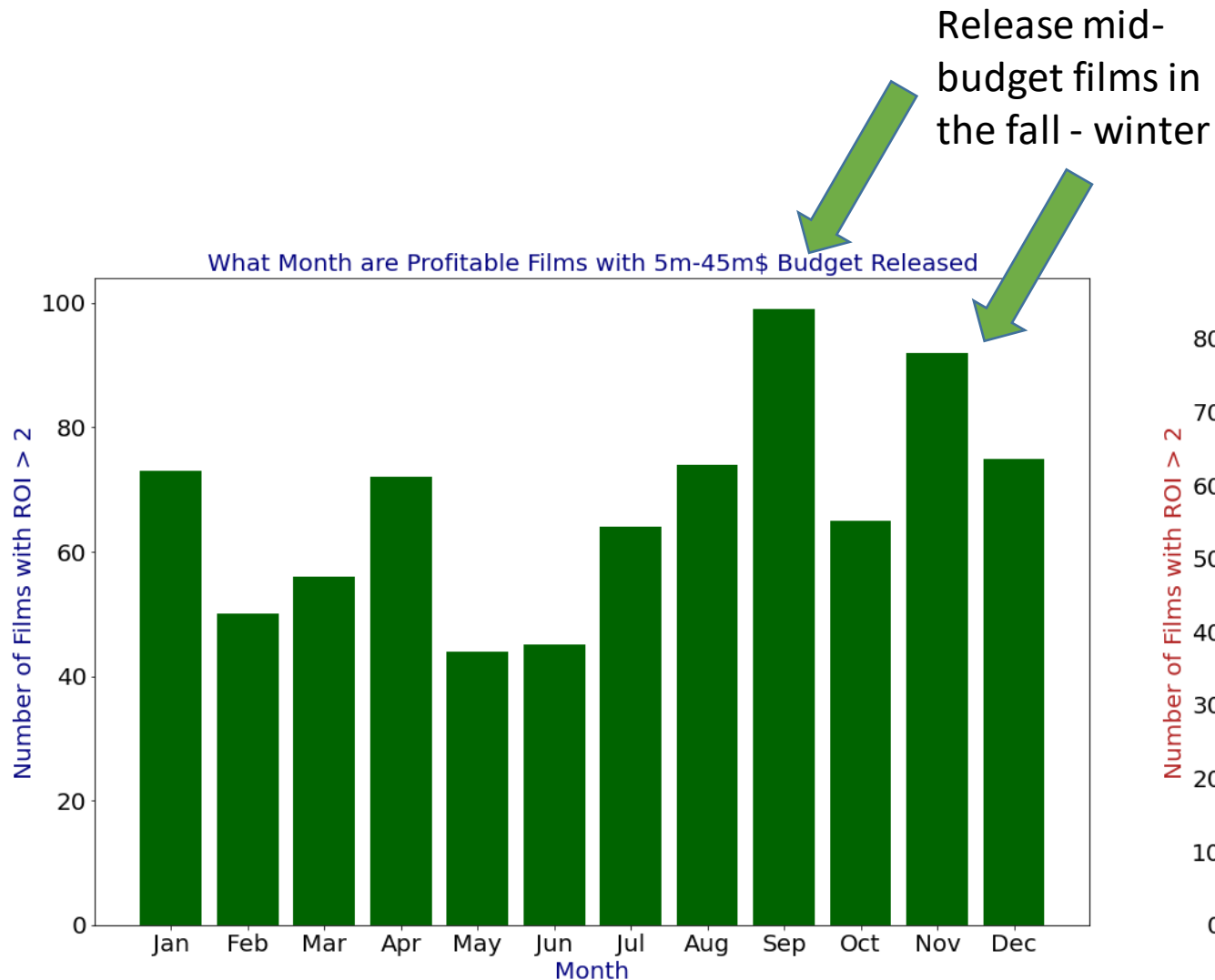


Pick these high budget genres

What genres are successful 45m-400m\$ films



# Budget influences release timing



# Conclusions



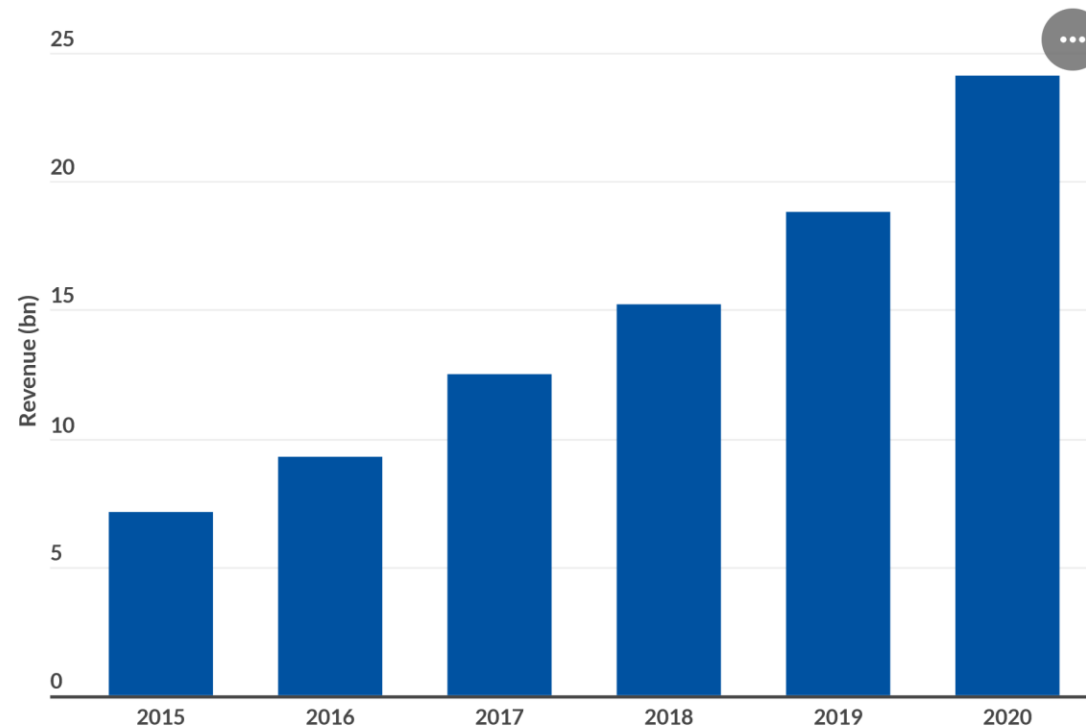
There are two routes that yield high chances for success:

- Produce films with a moderate budget of \$5-45 million
  - These should focus on drama or comedy and avoid summer release dates
- Produce films with a large budget of \$45-400 million
  - These should focus on action / adventure released during summer or winter

# Next Steps

- Microsoft should consider a transition into creating a streaming service to compliment studios.

US Video Streaming App Revenue

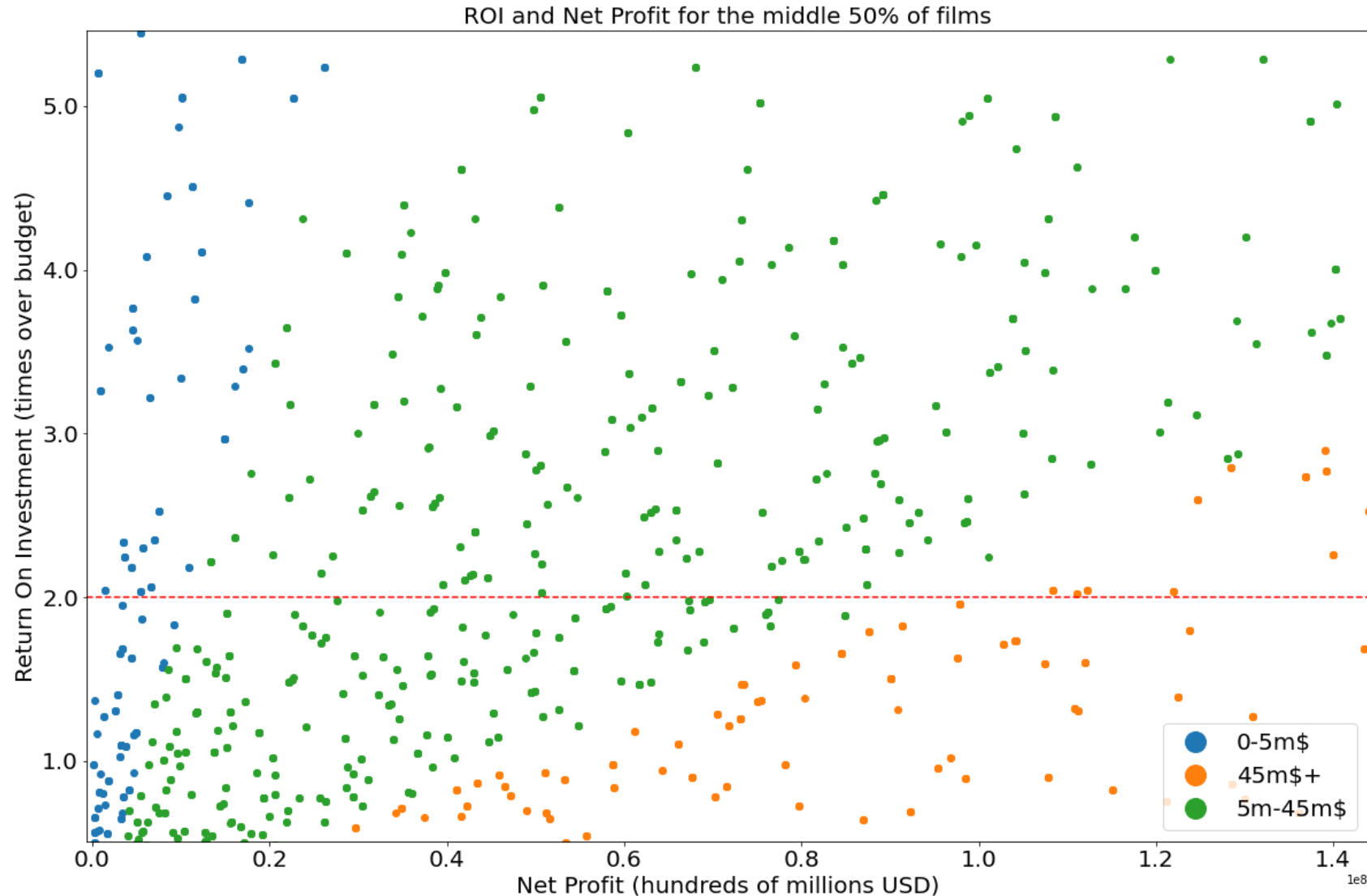


Sources: Grand View Research, pwc, Statista



Appendix – keep in reserve

Of average films, the most successful have a budget from 5m to 45m dollars (green dots)

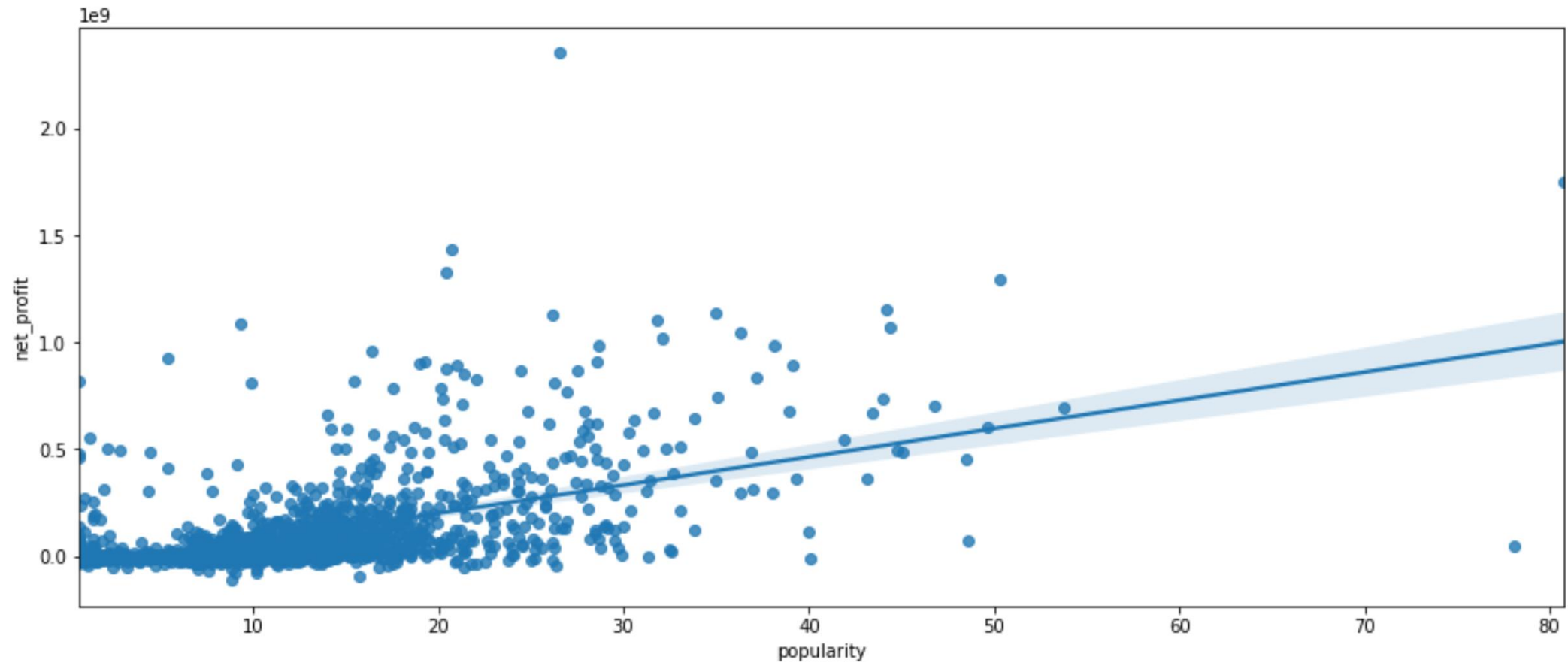


# Methods

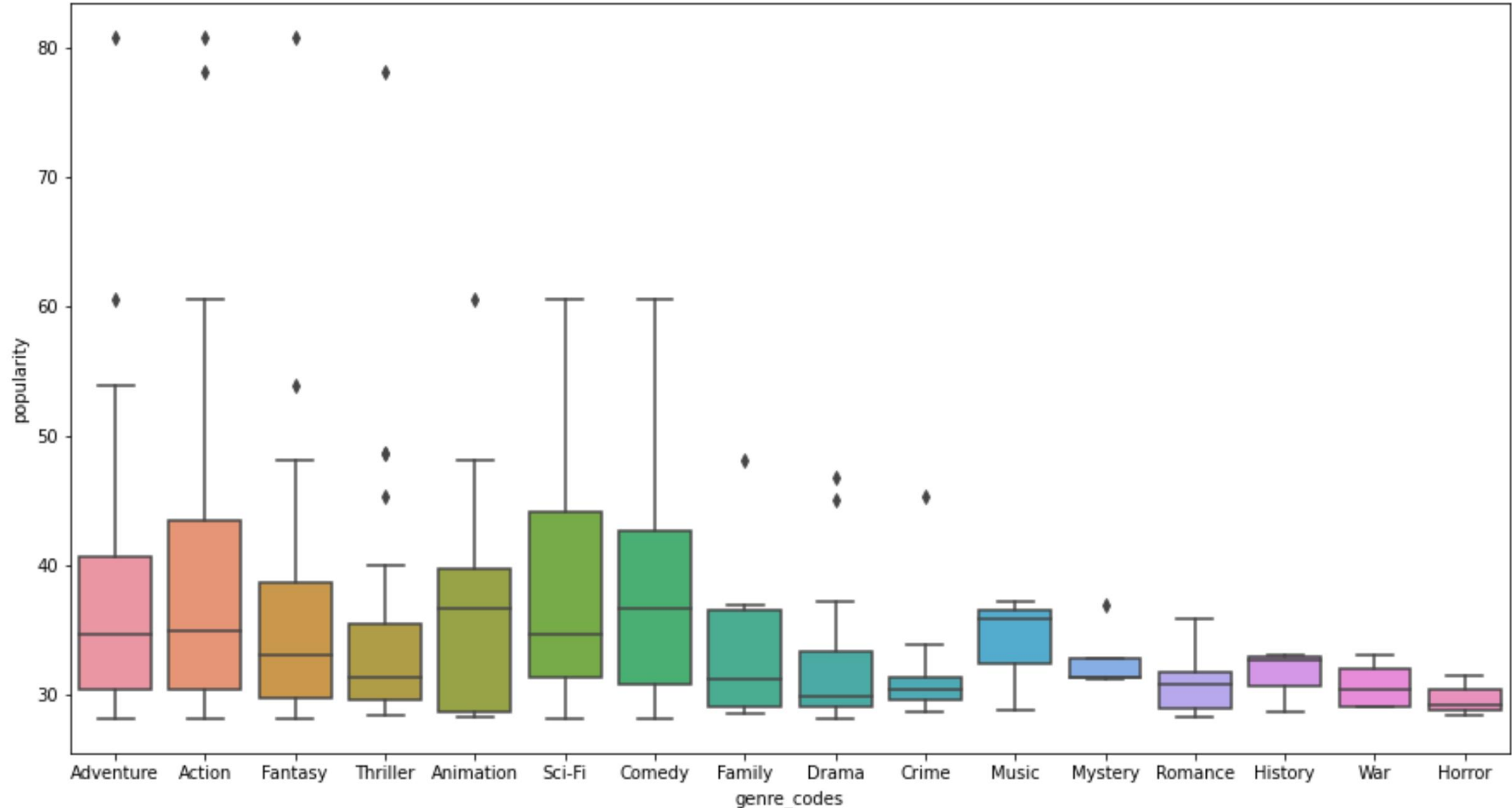
- We used a descriptive analysis of data for the movie industry over time, with a focus on the last decade.
- Our advice provides Microsoft with a guide to help make their decision on venturing into movie production.
- Our recommendations focus on the budgetary investment, the genre of films, and the timing of release dates.



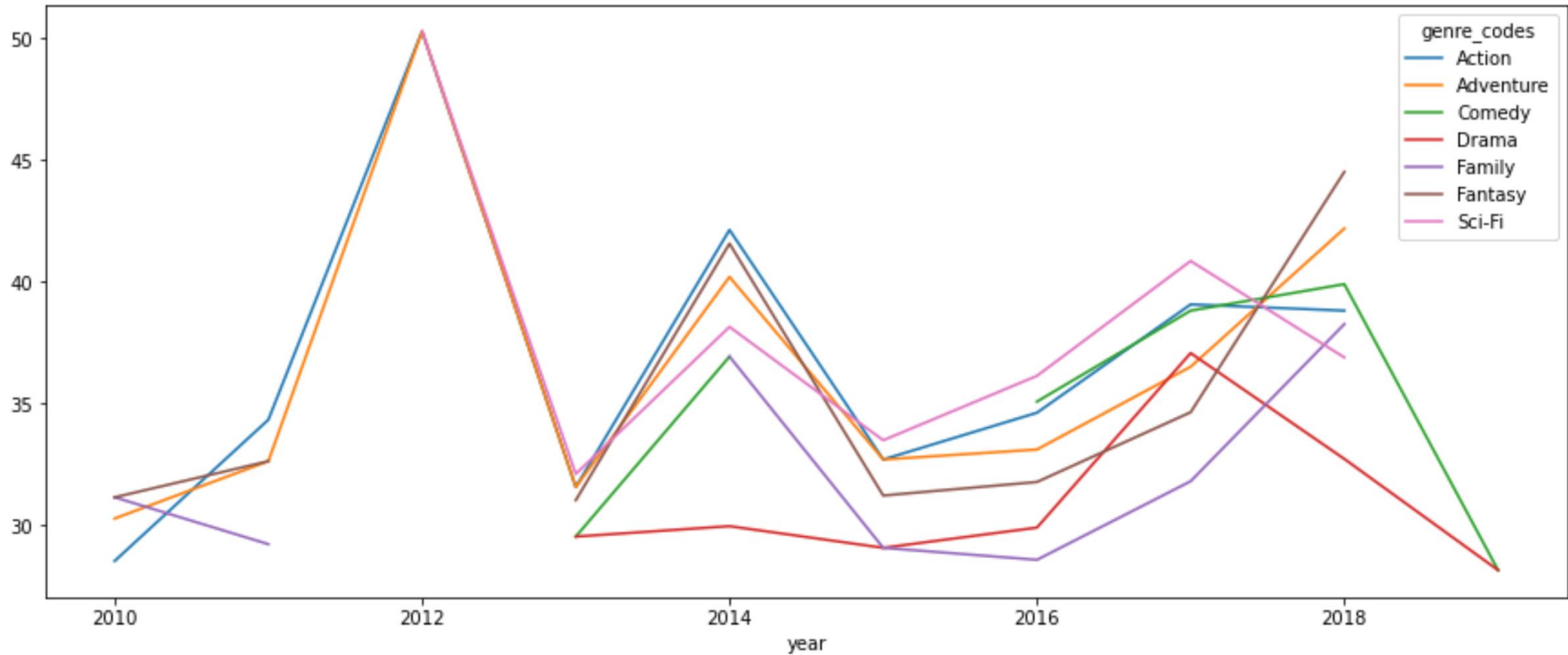
# More popular movies tend to make higher profit



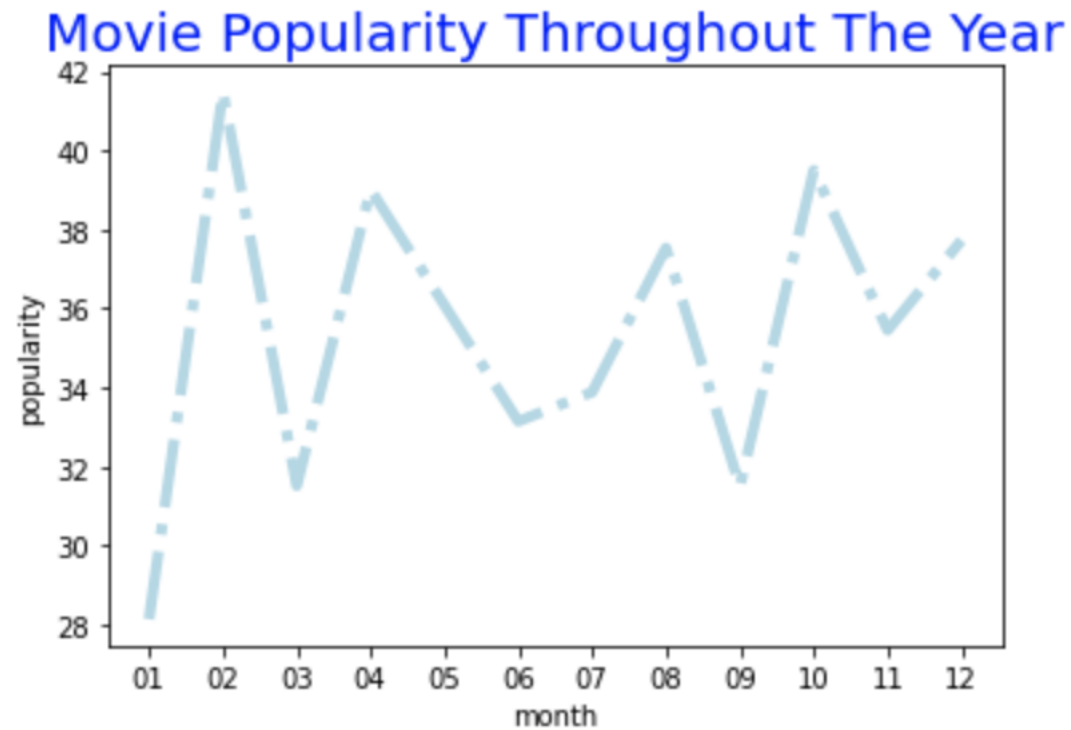
# Most popular movie genres (tmdb popularity index)



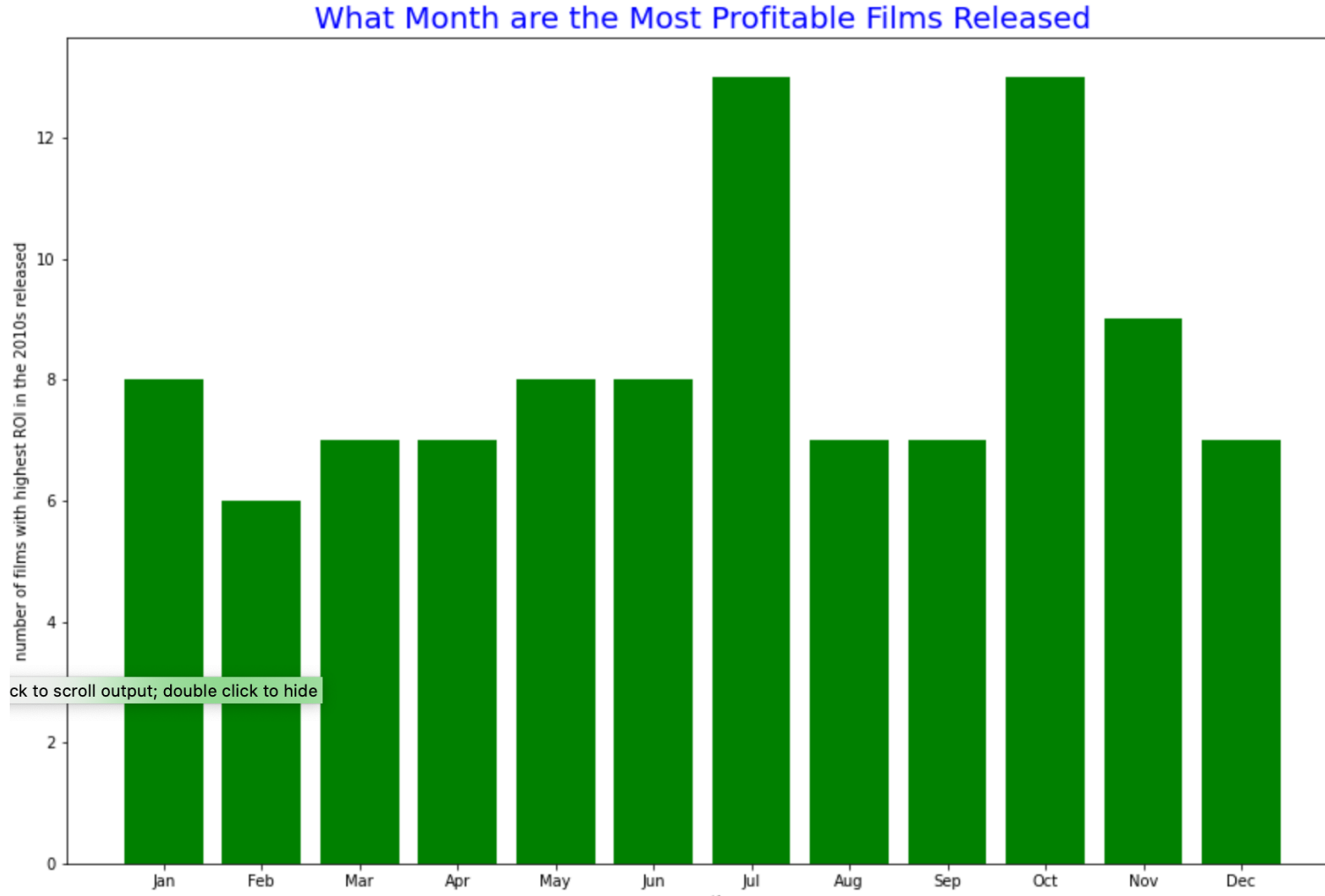
Movie popularity fluctuates over time, & aren't predictable trends



# Movie popularity fluctuates across months

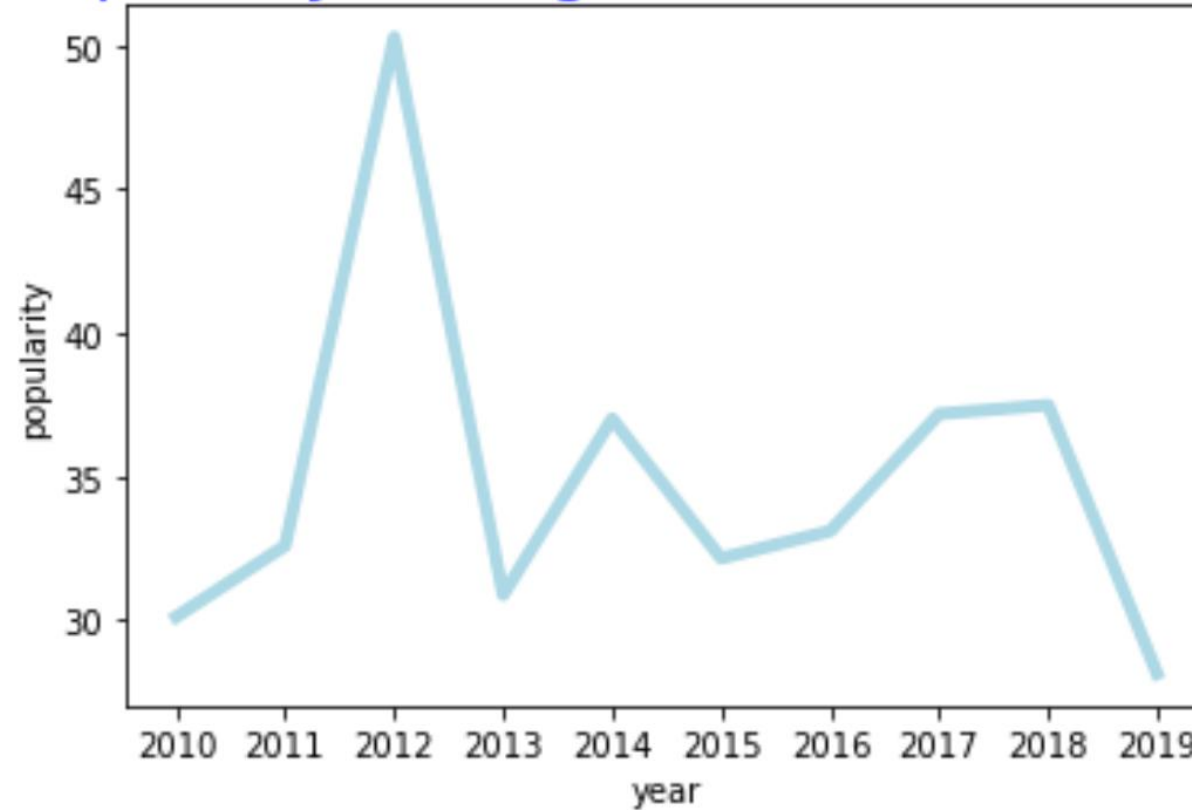


# Most profitable movies are released at different months



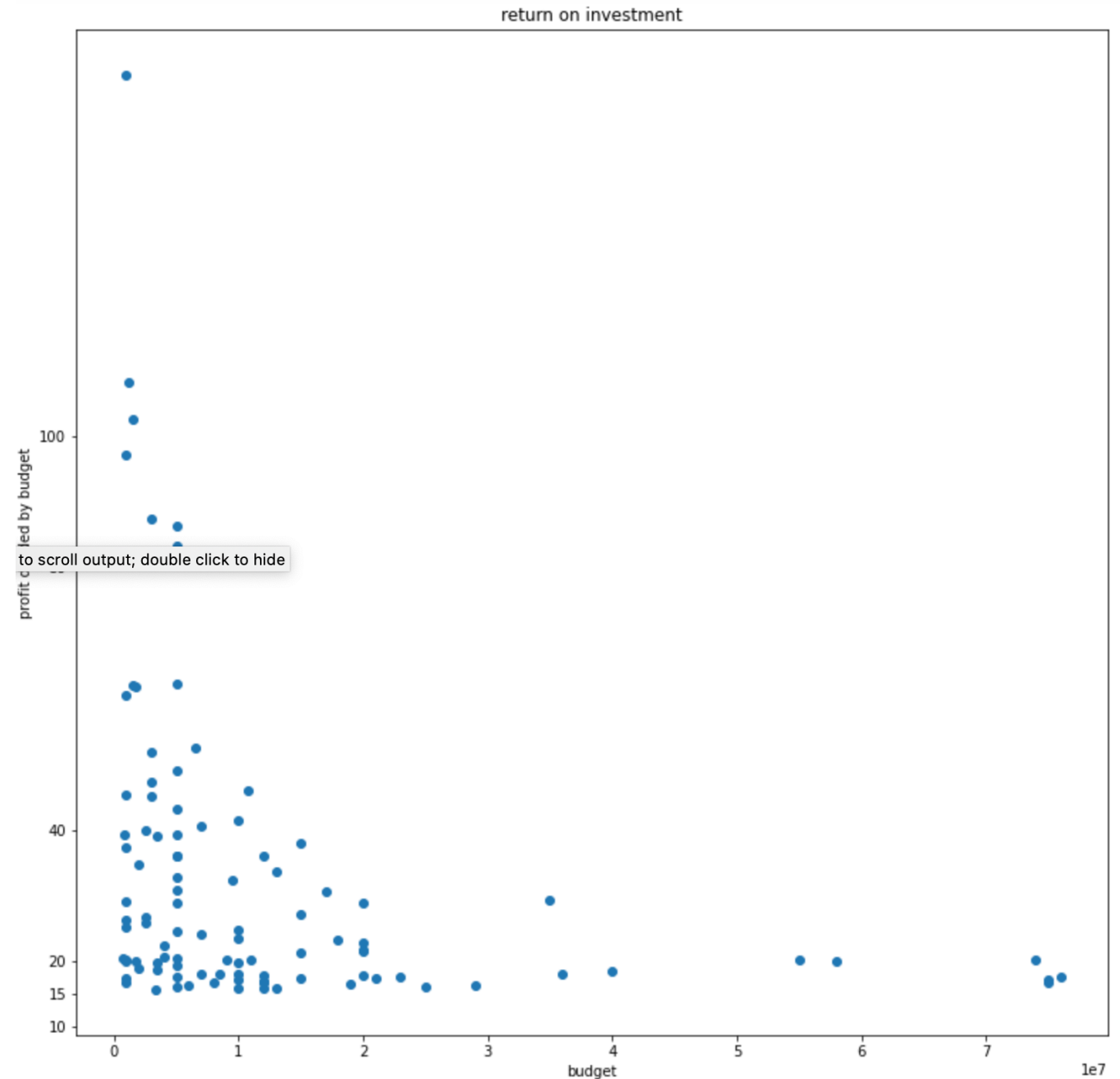
# Movie popularity fluctuates over years

Movie Popularity Throughout the Decade - All Genres

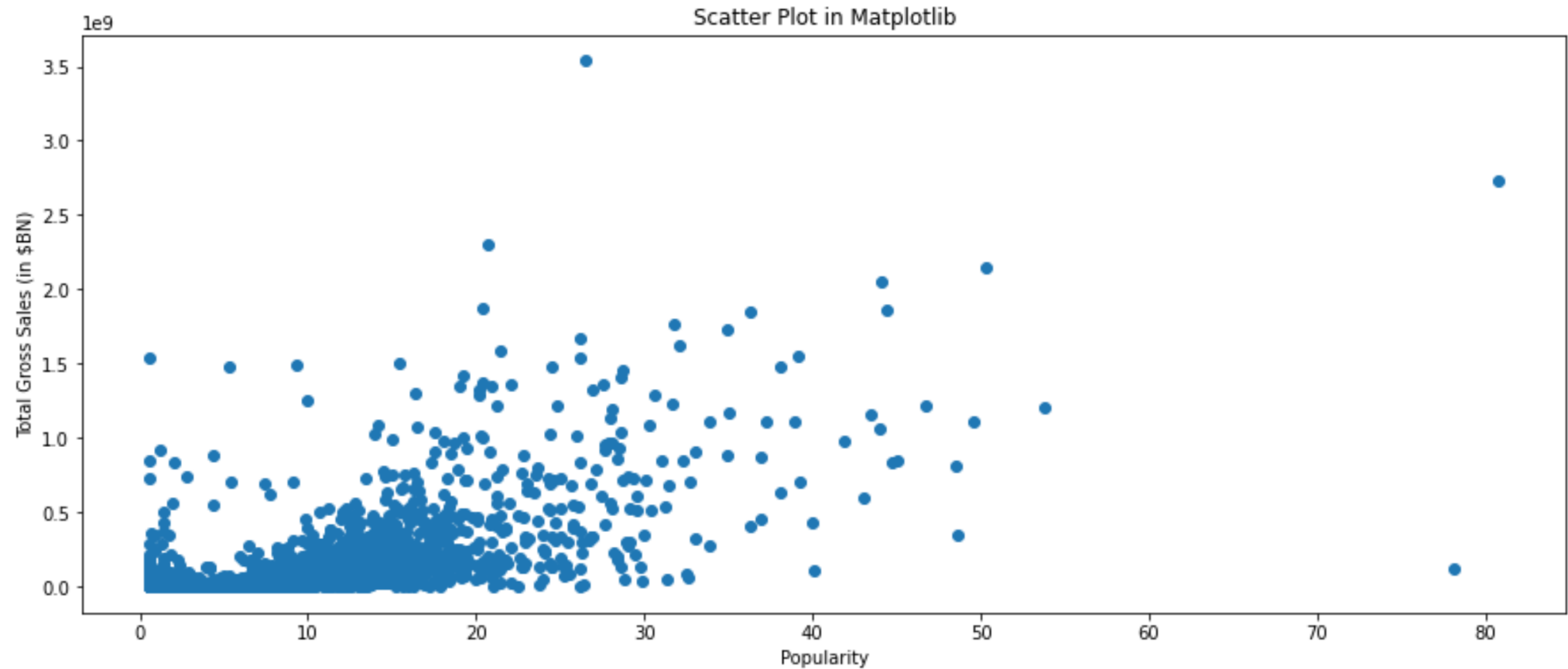


Two paths to  
movie profit:  
lottery (low  
budget, low  
chance of  
profit) or big  
budget

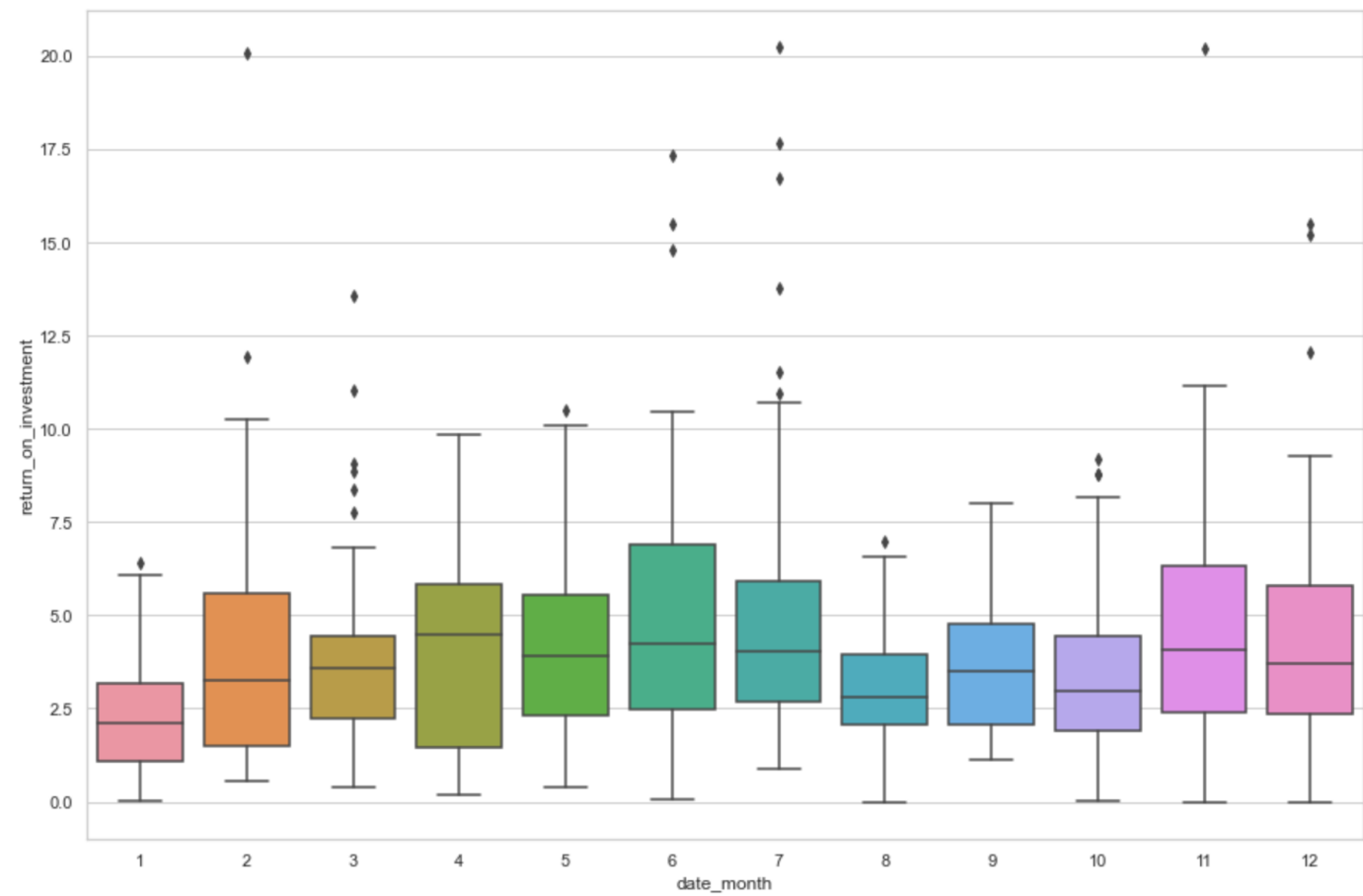
These are the ROI > 15 (?)

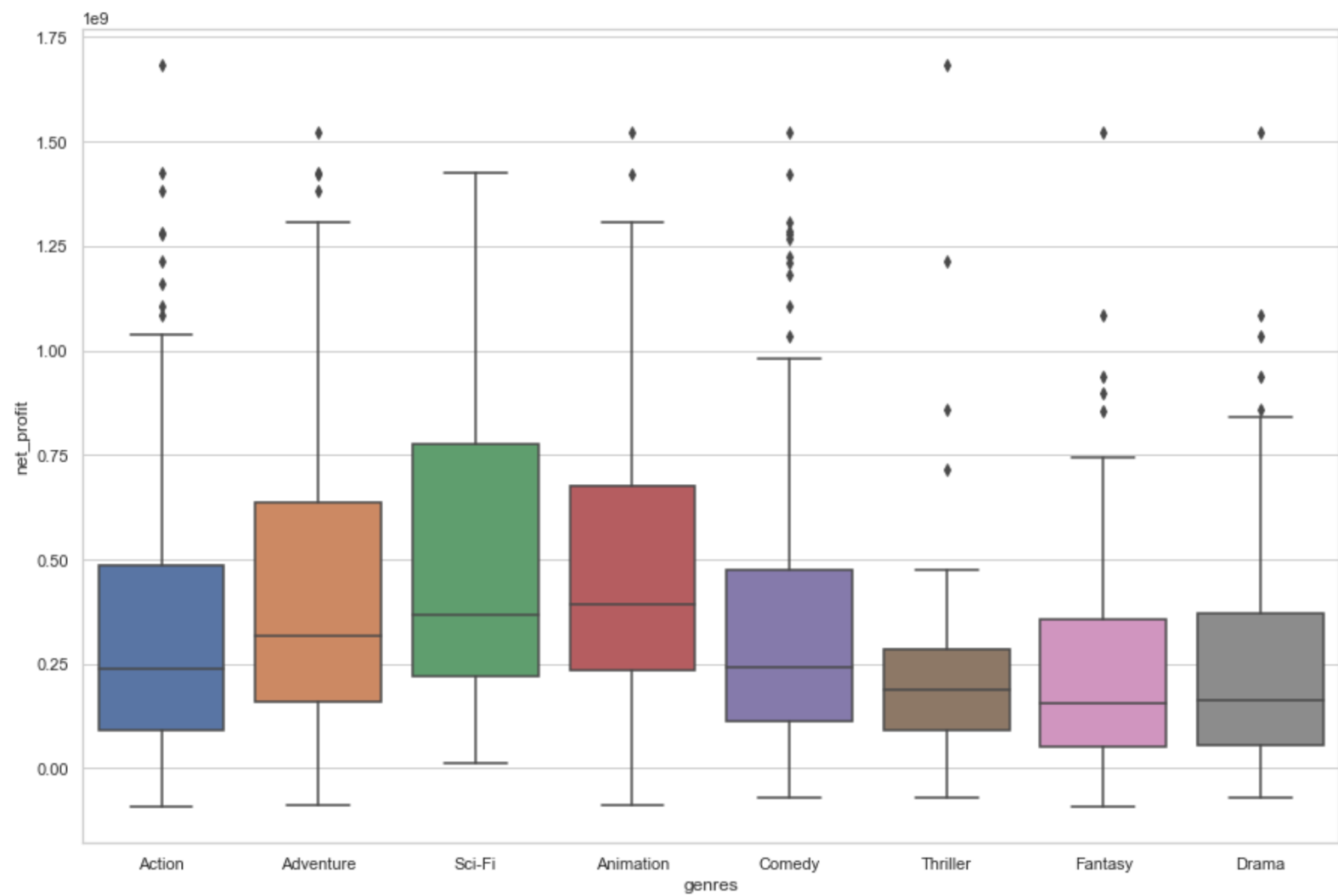


# More popular movies tend to make more gross income

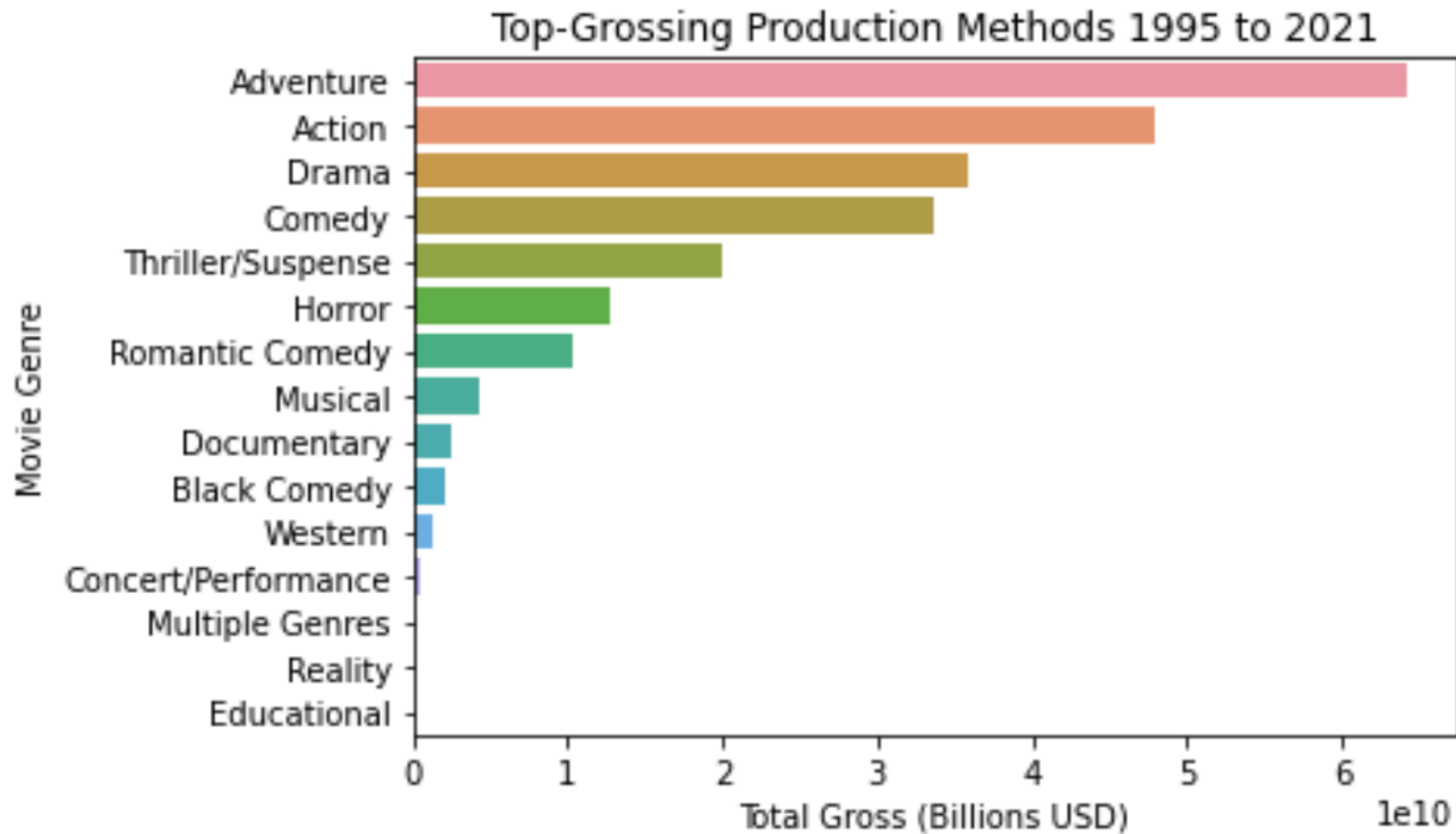








# Some genres bring in more \$ than others



# How profitable are films within our budget range when released during a given month

