

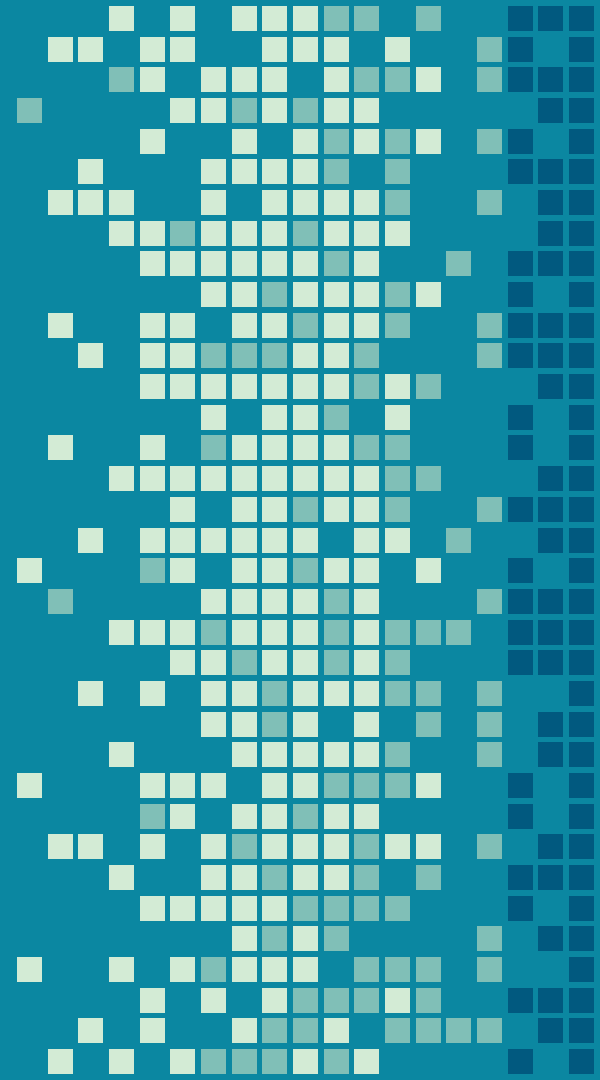
# A GENRE STUDY

Tackling the Contemporary  
Movie Industry



# Summary

- Studying the movies by genre to see if there are specific genres that tend to be more profitable.
- Analyzing a few parameters to see what could help maximize the gross income.



# OUTLINE



# Business Problem

Studying the movie industry, to provide Microsoft with business recommendations based on real data.

Focusing on the movies that proved to be successful and profitable, trying to identify trends and factors that incremented the income and return on investment.

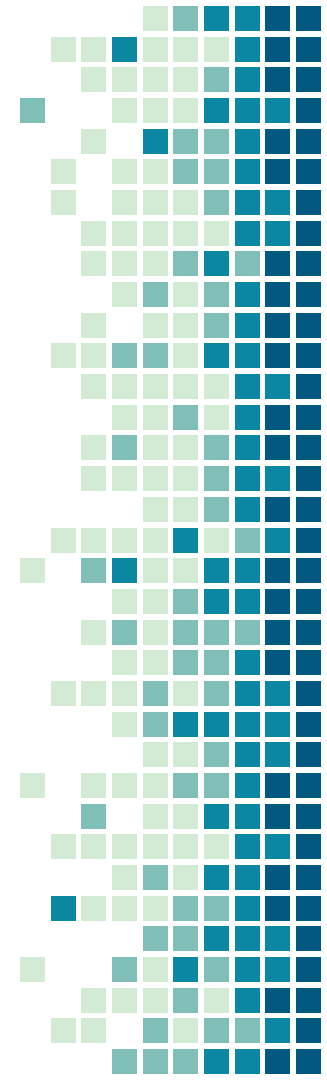
Key questions that need to be answered to have an effective business plan are:

- What movie genres have the highest income and return on investment?
- What are the parameters to be taken into consideration, to increase the chance to make a movie more profitable?
- How much can Microsoft expect to produce as an income on average, and how much would it need to invest in the production budget per movie on average?

# DATA

We will be using data from the following datasets:

- IMDB - SQL database
- Rotten Tomatoes - reviews
- The Movie Database - basics and reviews
- The Numbers - budget and gross



# METHODS

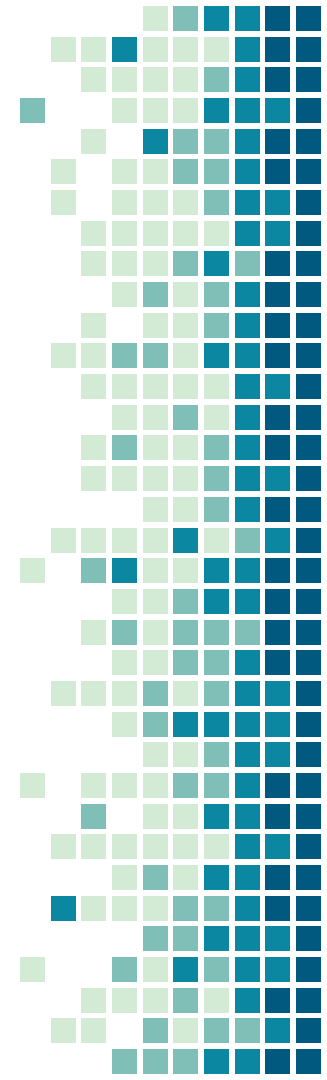
Data preparation included:

- Changing the format of some data
- Handling null values
- Removing outliers when appropriate
- Generating new variables for the study (net income, ROI)

Data Modeling:

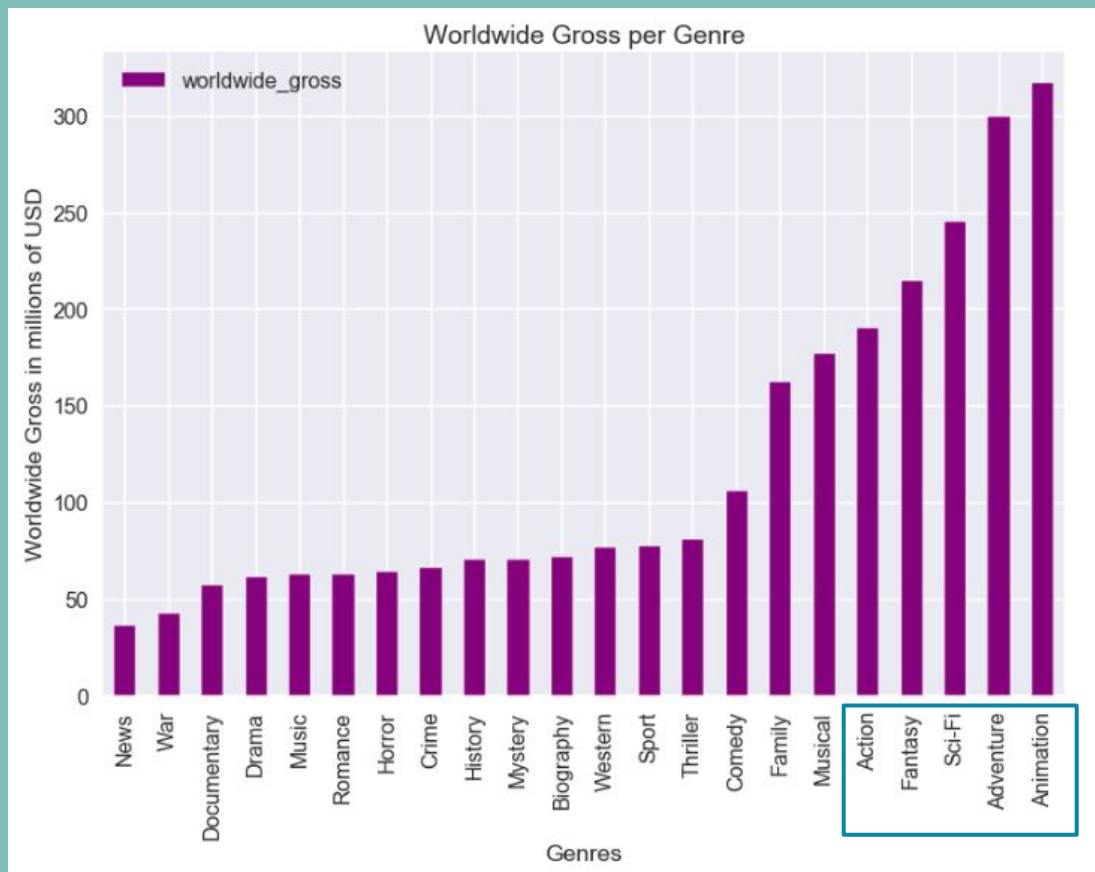
- Using methods to group and separate the data
- Studying trends in the data thus organized
- Calculating statistical values like mean, correlation and IQR

# Results



# Gross per Genre

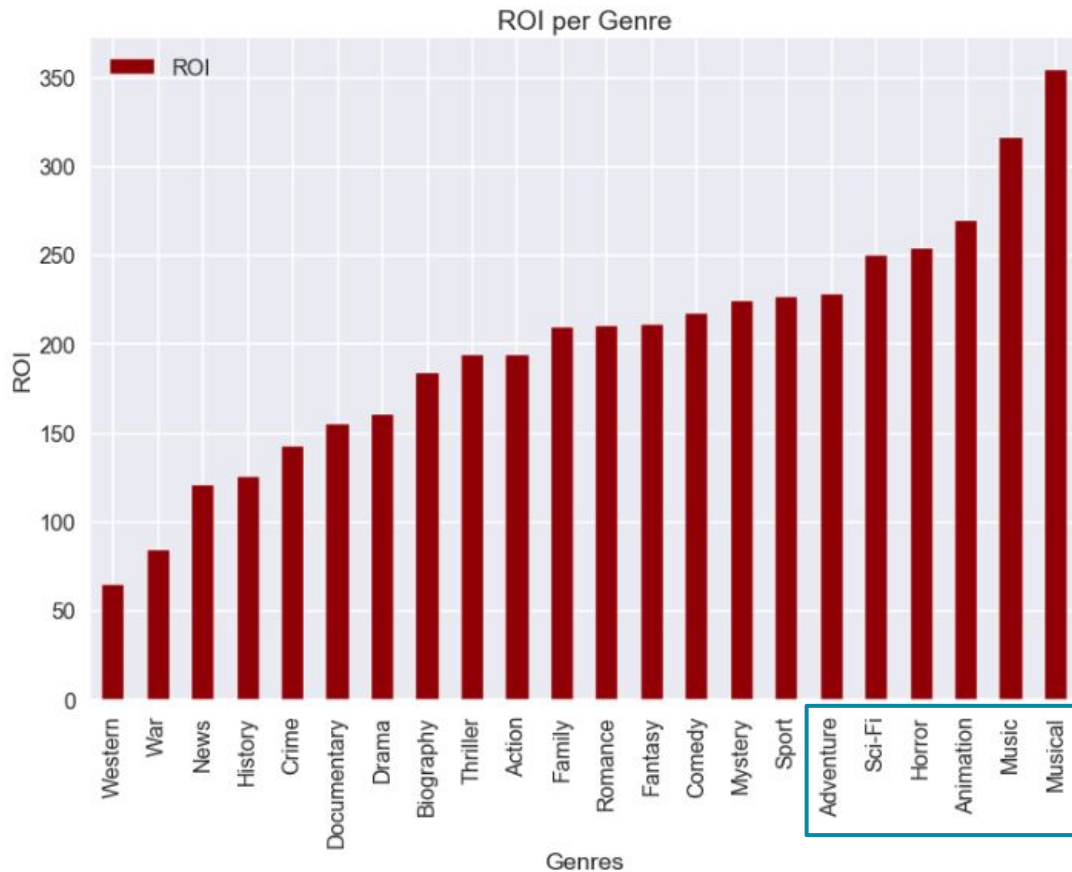
Genres with highest worldwide gross income





# ROI

Return on investment accounts for the budget

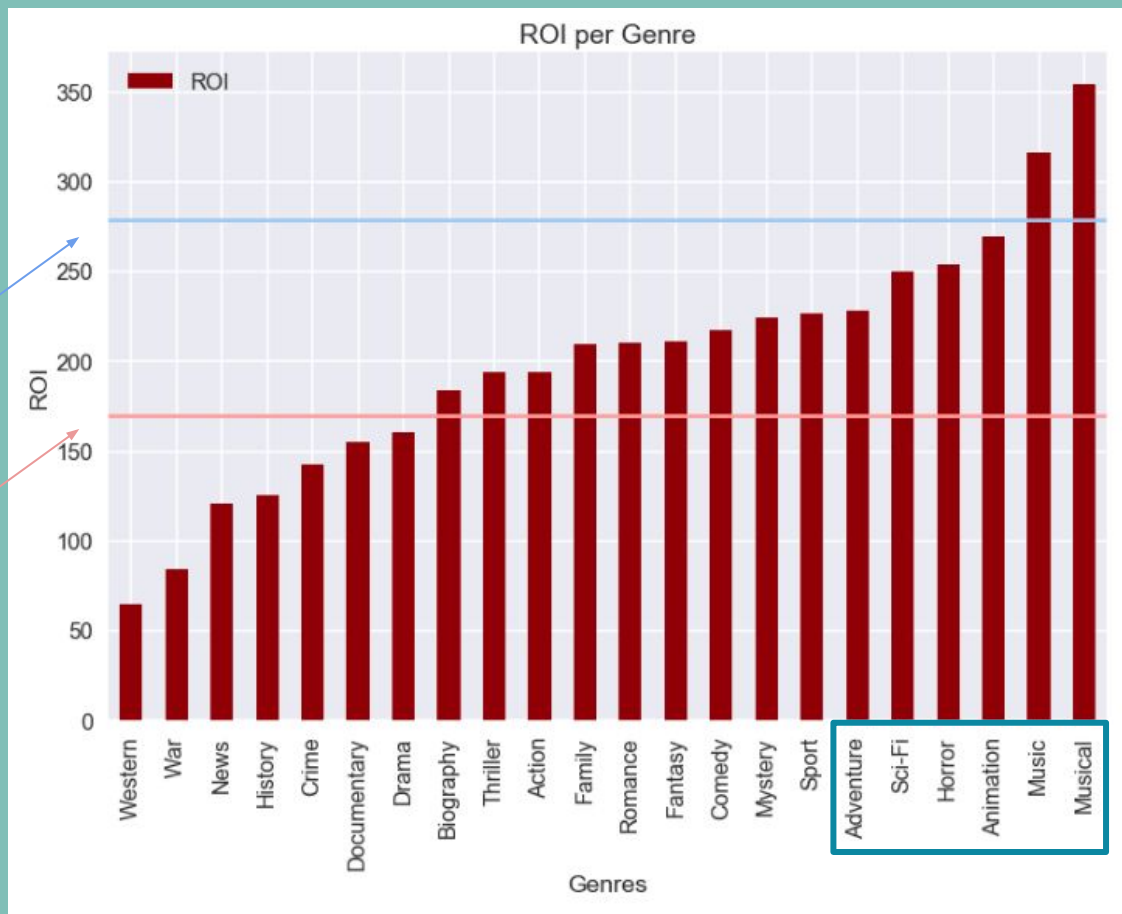


# ROI

Top 5 genres  
279% ROI

Other genres  
170% ROI

Note: I considered  
"Musical" and "Music" as  
one genre because of their  
similarity



# Top 5 profitable genres



Musical, Animation, Horror, Sci-Fi and Adventure

The question that we need to investigate:



What makes a movie more profitable?

# Number of people known



Correlation between  
number of famous  
people and gross  
income:  
0.53

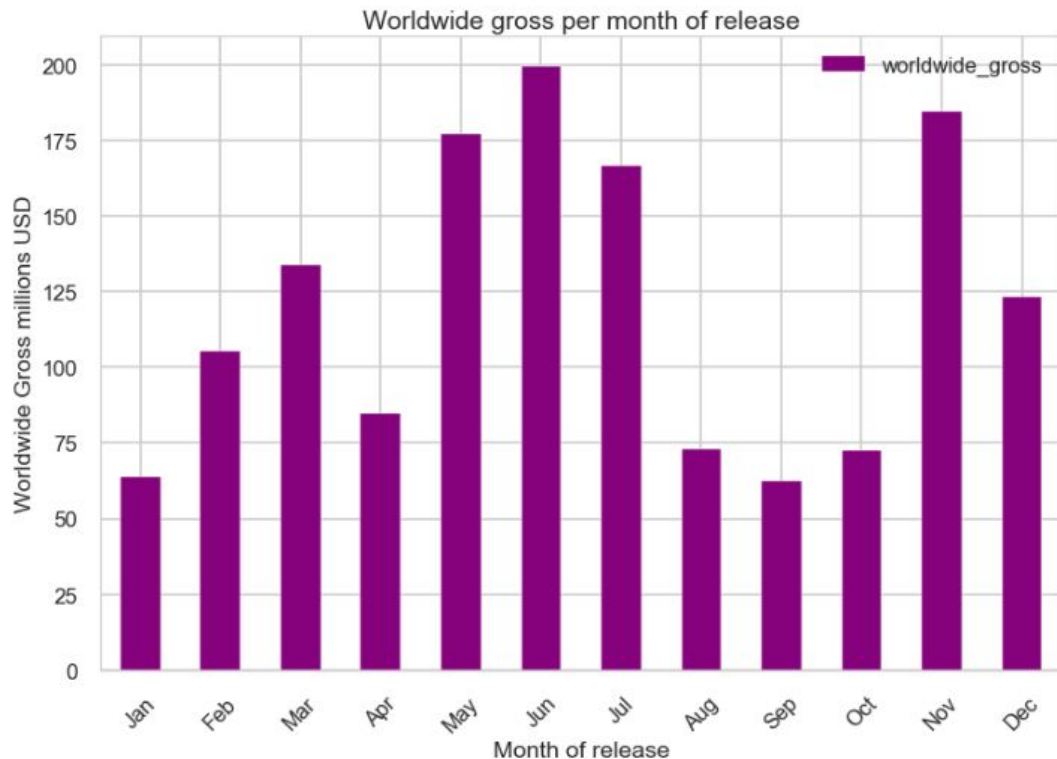
# The other side of the coin...

Correlation between  
number of famous  
people and  
production budget:  
0.59

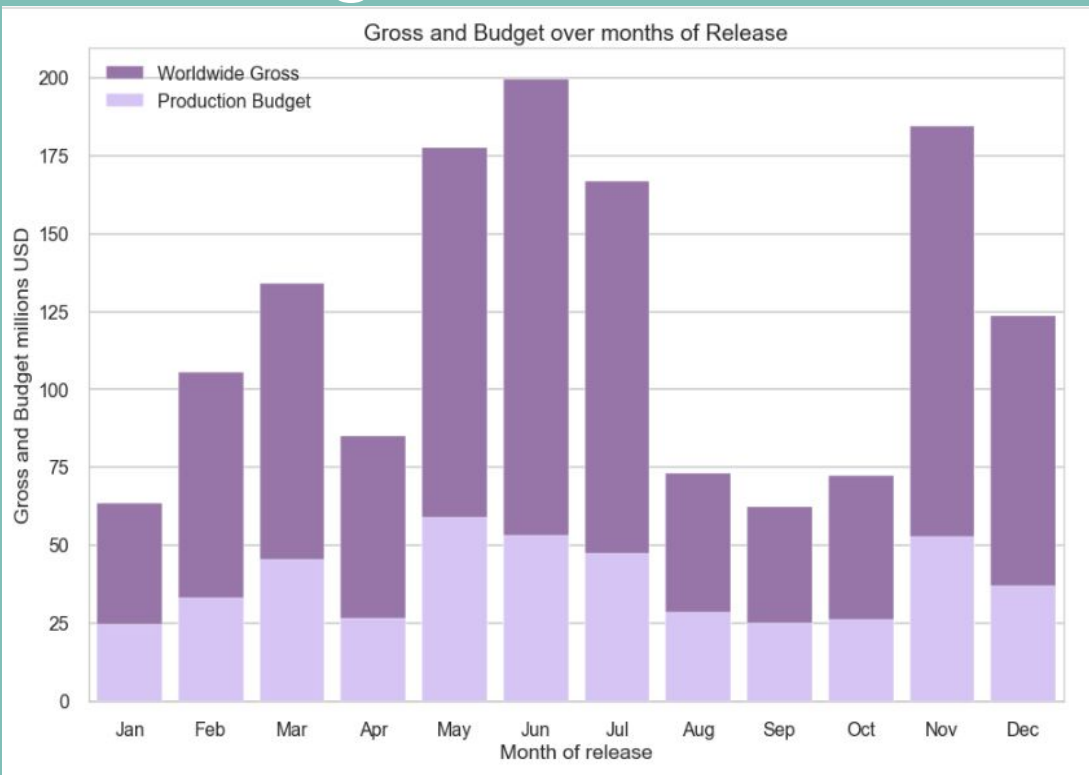


# When to release

The months of June and November are related to highest gross income



# The budget



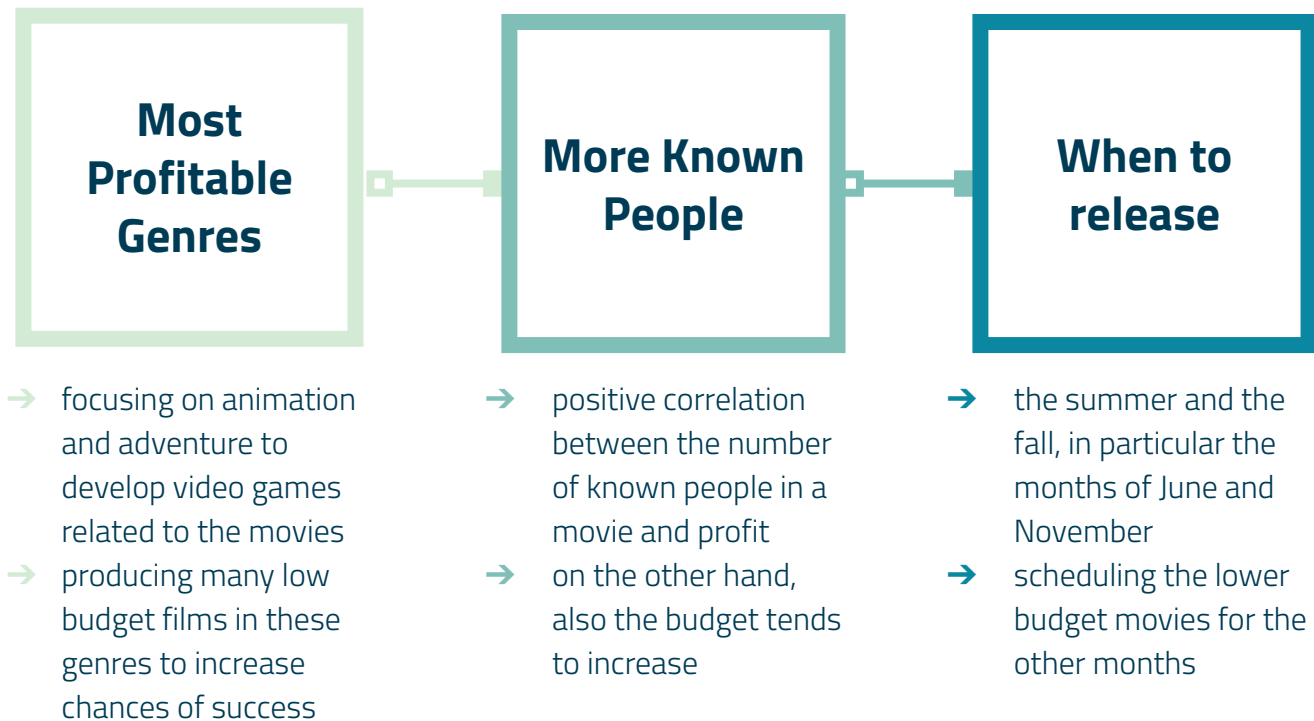
The budget follows the same trend, which provides an interesting point: release lower budget movies during the lower income months

# A few numbers to keep in mind

	Worldwide Gross	Domestic Gross	Production Budget
Top five genres	63.06 mils USD	31.73 mils USD	20.43 mils USD
Rest of the genres	55.56 mils USD	29.33 mils USD	20.17 mils USD



# Conclusions and proposals



# Other considerations

Where do we go from here?

- Include also marketing as part of budget
- Consider inflation and movies with multiple releases
- Study the release month based on genre
- Research which genres more recently have been rising in popularity and profitability

# THANKS!

## Any questions?

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