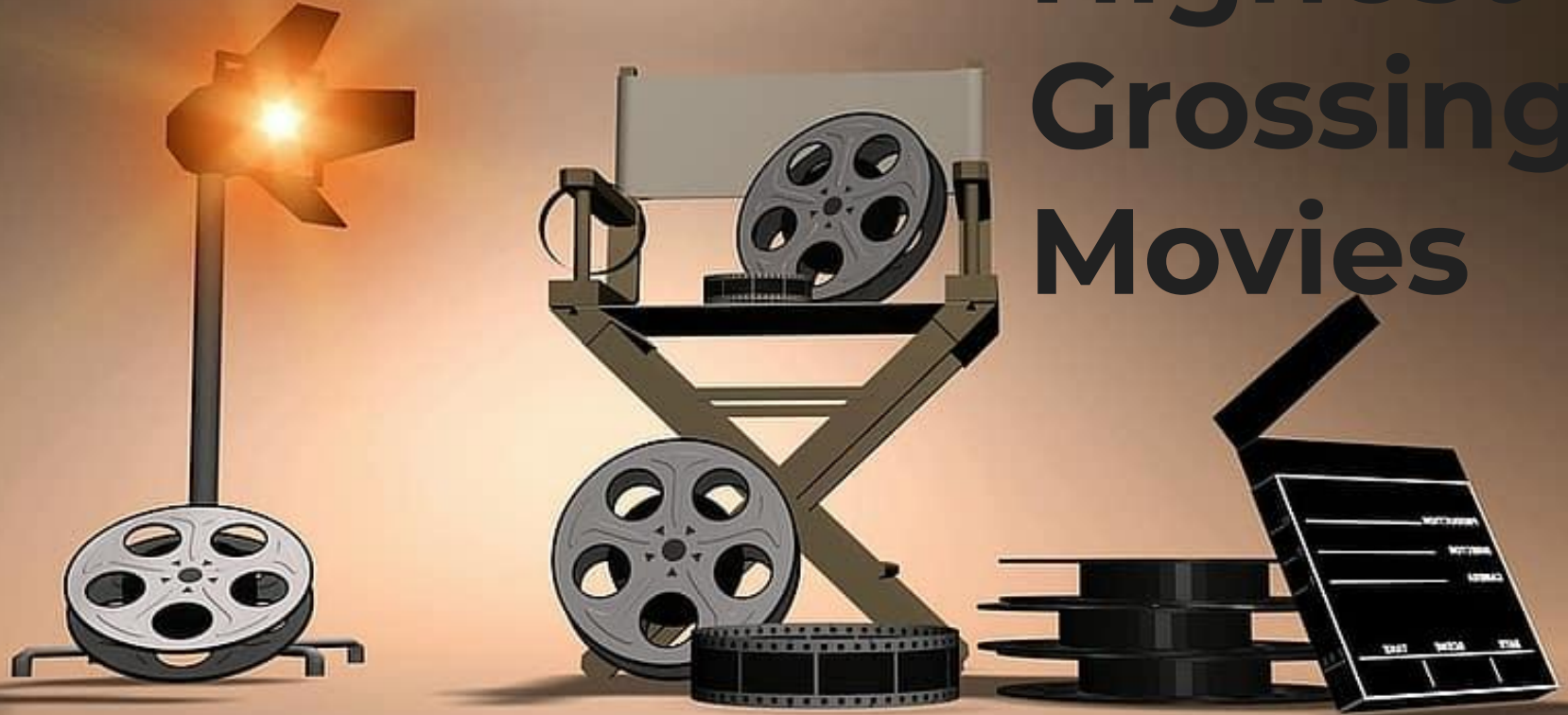


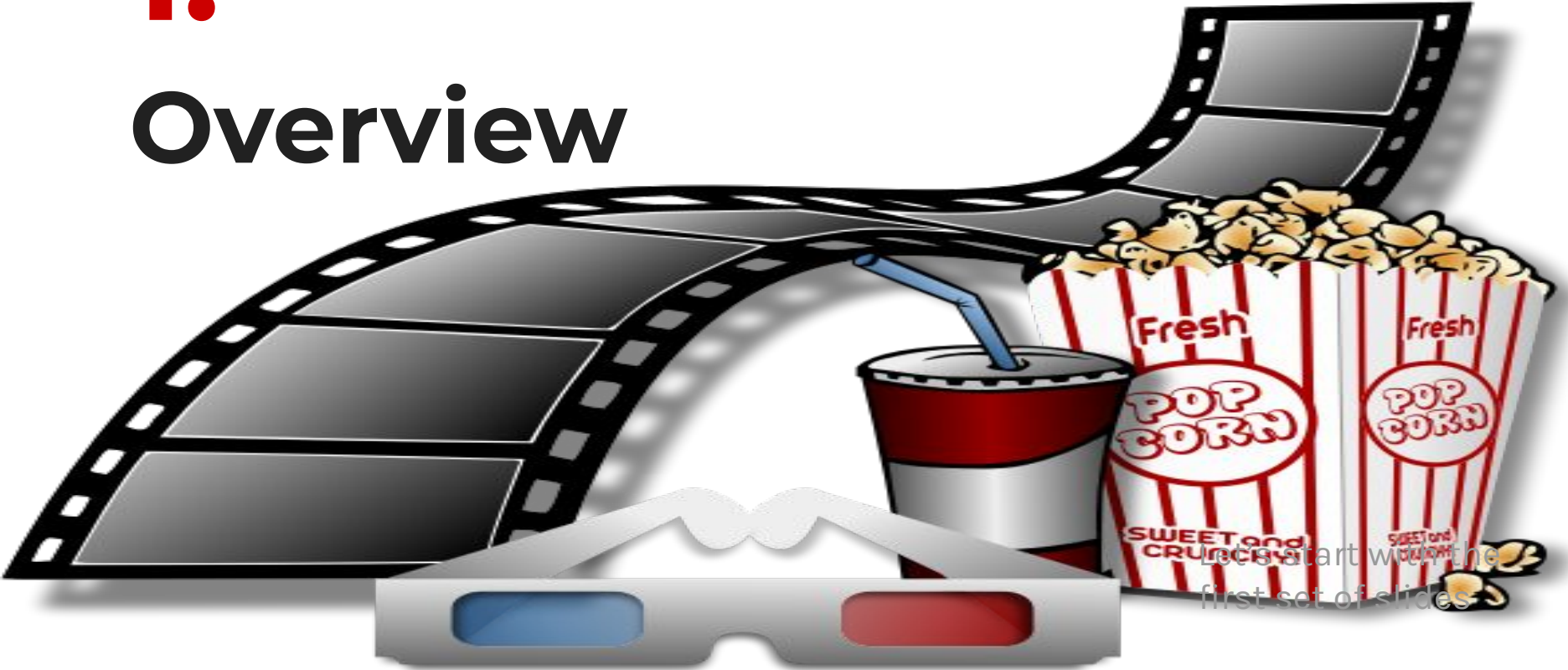
# Highest Grossing Movies



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# Overview



Let's start with the first set of slides

- The goal of this project is to analyze data needs by Microsoft in order to help them to create a movie studio and produce a movie that hits the box office.

“

- Descriptive analysis of some movies had achieved high Box office earnings .
- The outcome data shows three recommendations, Microsoft can use this analysis to decide how to produce a successful movie.

# Business Problem



- Microsoft has decided to establish a movie studio and produce a movie hits the box office.
- The proposed solution is based on data of the most successful movies on box office. A deep investigations have been done to reveal the most effective factors on the movie's revenues.

# Data



The data is collected from the most popular websites for Movies rating.

- [Box Office Mojo](#)
- [IMDb](#)
- [Rotten Tomatoes](#)
- [The Movie Database \(TMDB\)](#)
- [The Numbers](#)

# Data Analysis

Throughout this project we measure the movie gross to determine if that movie hits the box office by testing 3 factors affect the movie's revenues.

- Movie Rate based on each movie's genre.
- Movie production budget and its relationship with movie's gross.
- The month that the movie release on.



# Methods

- ▶ Preparing the data ( load,clean,join).
- ▶ Using statistical calculation to determine the factors can increase the box office revenues.
- ▶ Visual analysis to interpret the statistical.

# Results



## LET'S REVIEW SOME CONCEPTS

### ➤ Rate based on Genre.

We found that the Game show ,Short, Reality-TV are the top rated movies.

### ➤ Movie's gross based on Production budget .

We found positive relationship between them.

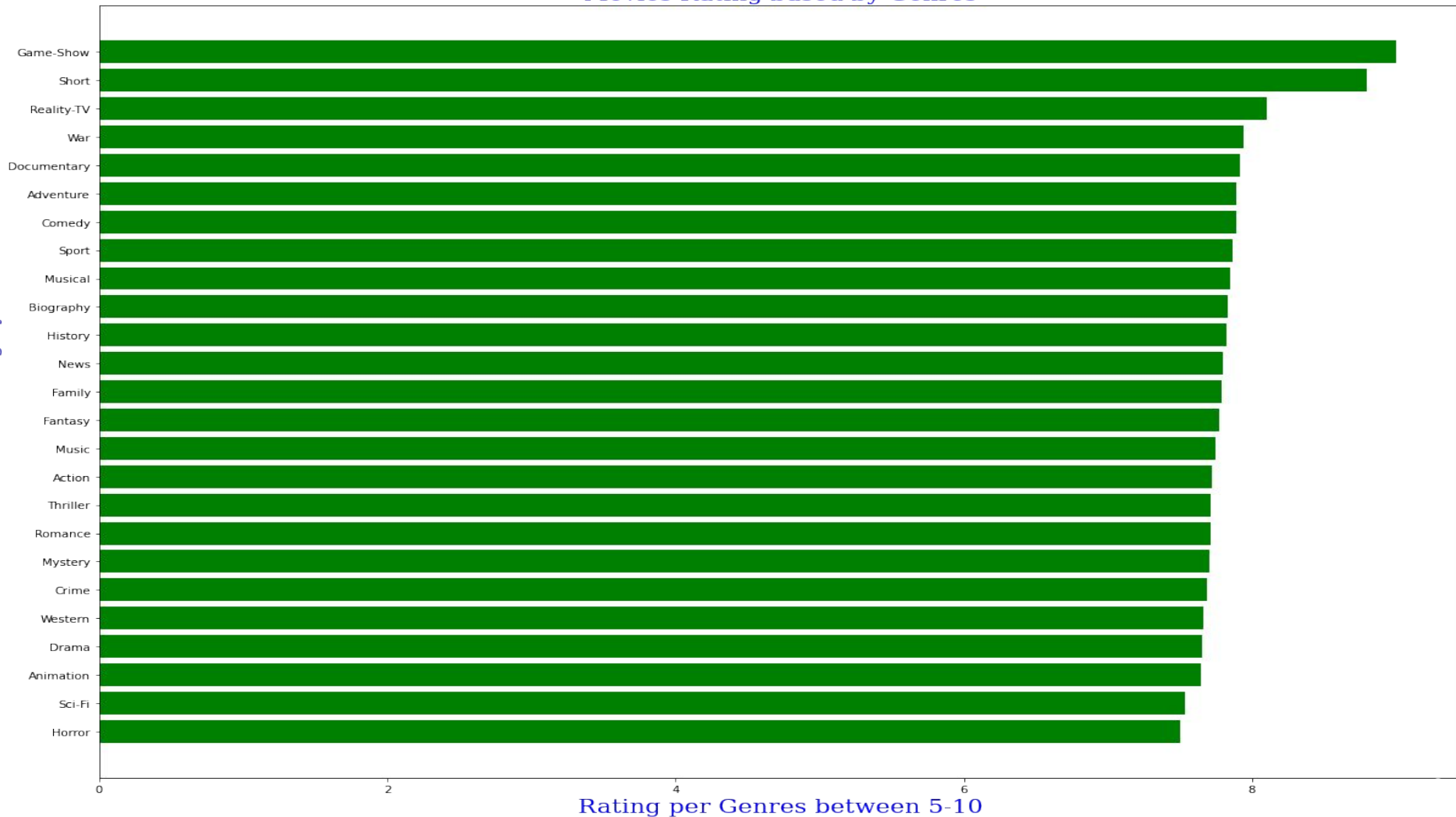
### ➤ Released Month.

The highest box office profits achieved on holiday season

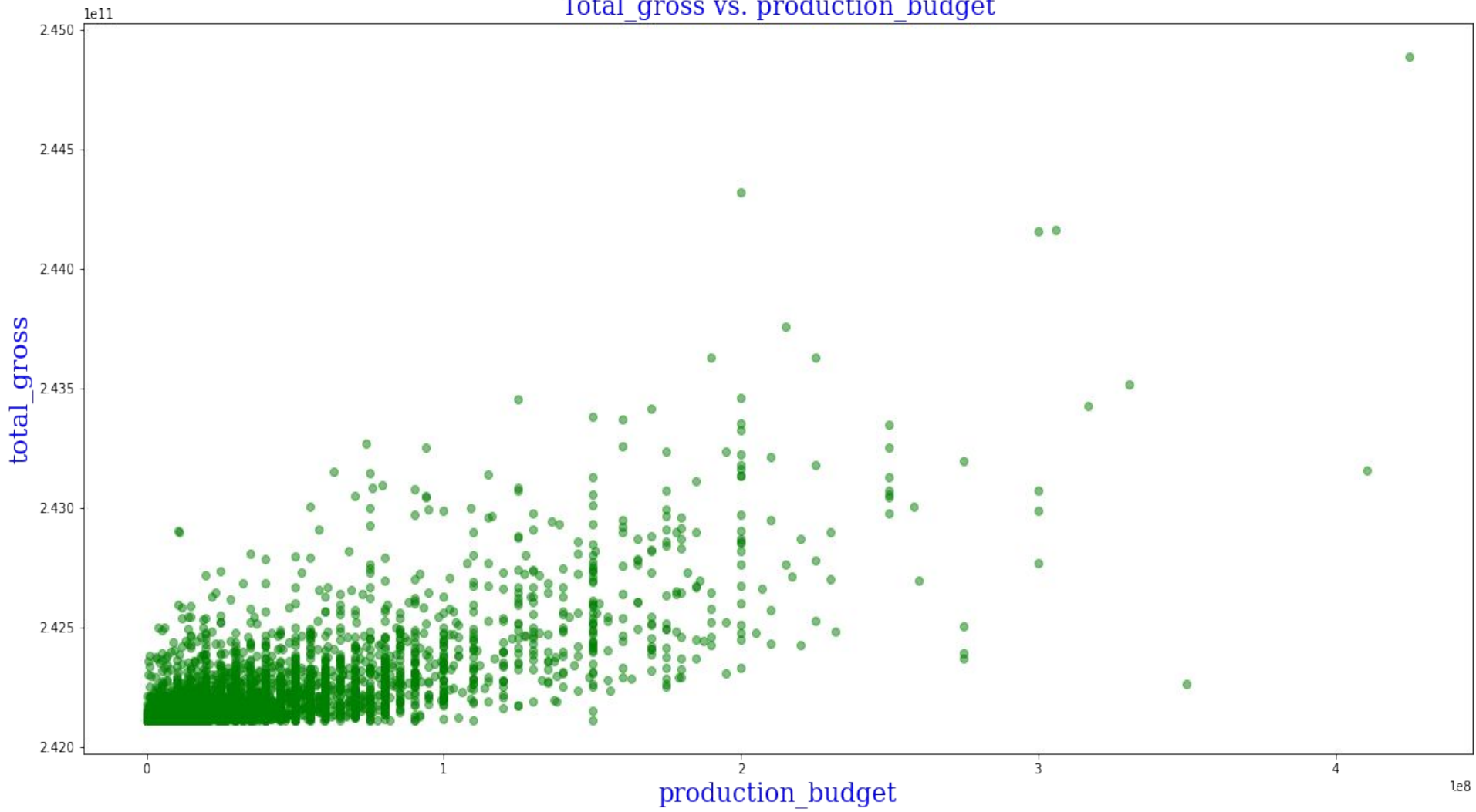


Movies Rating based by Genres

Genres catogory

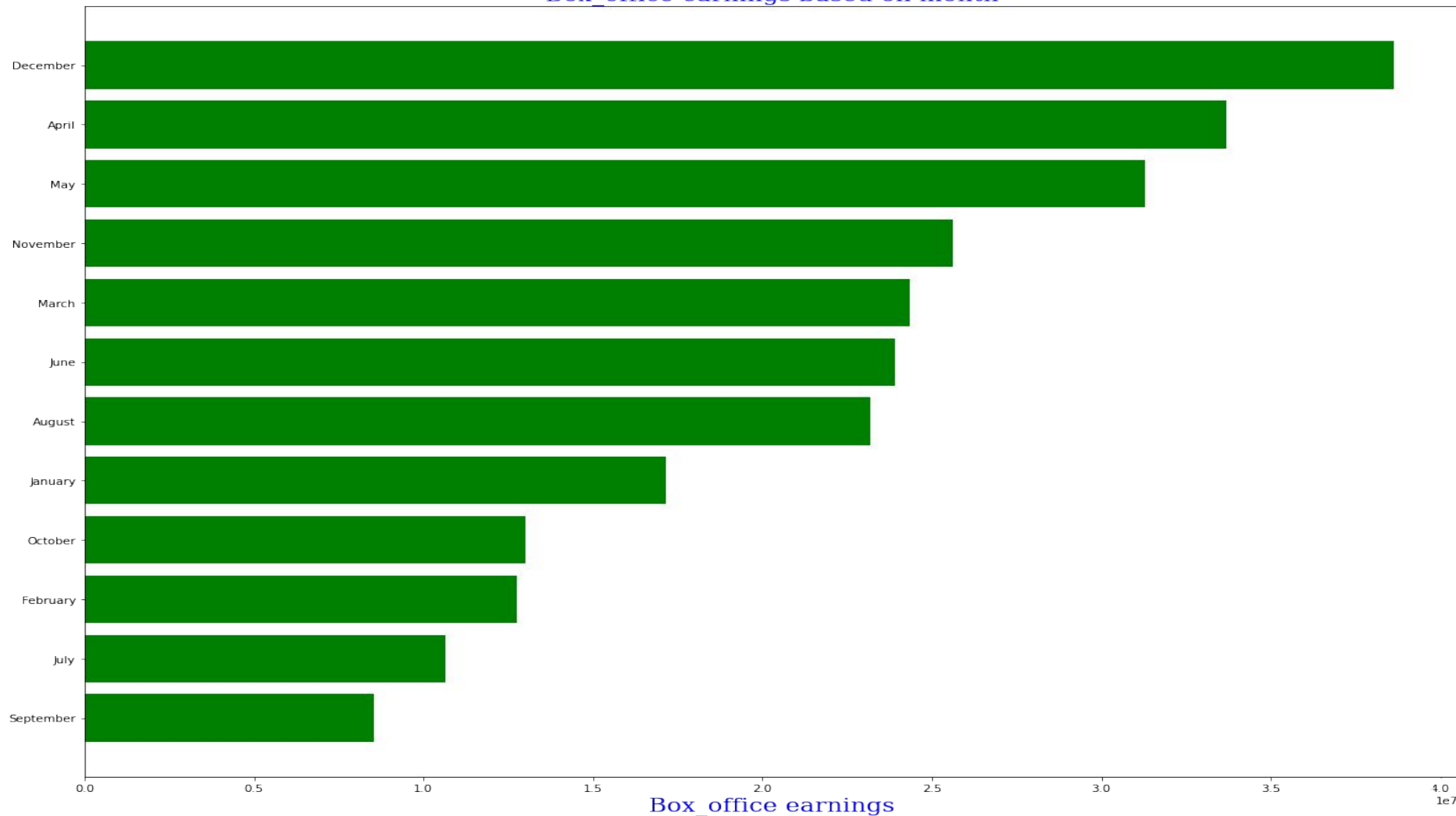


Total\_gross vs. production\_budget



Box\_office earnings based on month

Months



# RECOMMENDATIONS

- **Highest rating genre :**

**Game show , shorts and Reality -Tv**

- **Production budget :**

**Pay more on production budget ,  
Gain more on box office.**

- **Release month:**

**Release movie on Christmas holiday season**

# Conclusion

This analysis leads to three recommendations for helping Microsoft to understand the factors that affect their profits.

- Better prediction of the movie's genres that are likely to have gained more profits.
- The budget needed to produce a successful movie.

This modeling could predict the average amount of money needed for producing a movie to achieve more profits.

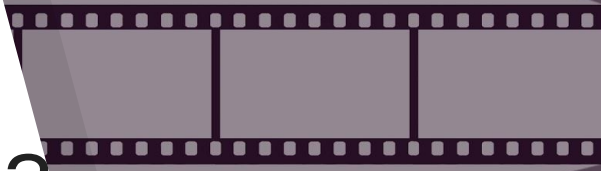
- Better prediction of the movie's release time at the theaters.

This modeling could use already available data, such as the average of box office profits for each month.



# THANKS!

Any  
questions?



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