

# Microsoft Film Studios

Analytical Suggestions for Film Development



Microsoft

# Meet the Team



Brian Reynolds  
Aspiring Data Scientist



Timi Adejumo  
Aspiring Data Scientist

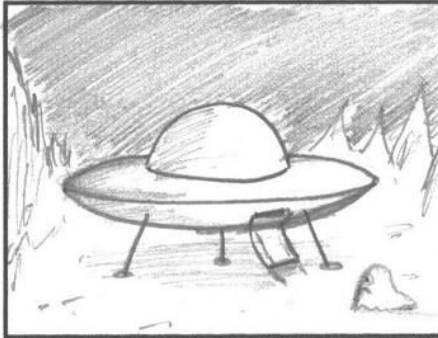


Elijah Jarocki  
Aspiring Data Scientist

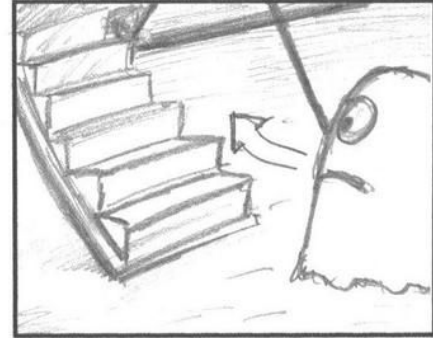
# Agenda

ATTACK  
FROM  
MARS

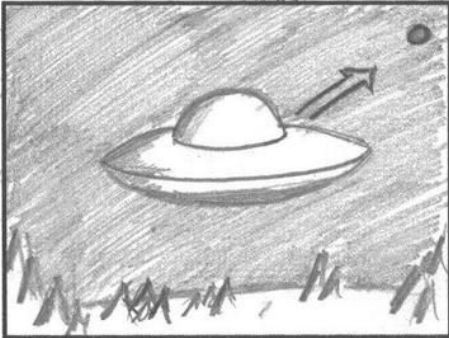
Goals



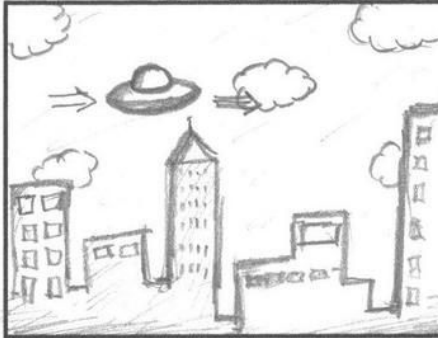
Data



Analysis



Results



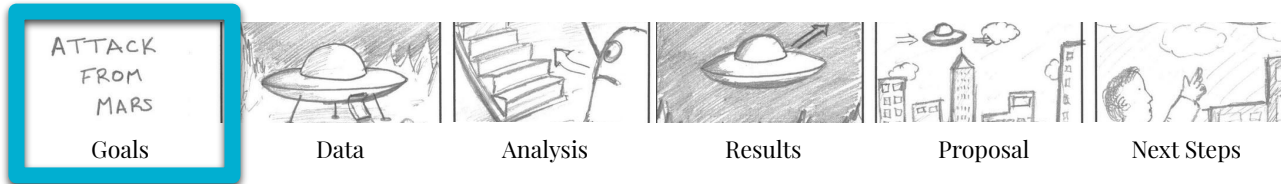
Proposal



Next Steps

# Project Goals

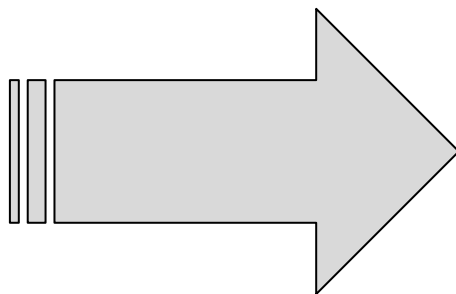
- Data Analysis
- Generate Insights
- What films do best?
- Concrete recommendations



# Project Data

# THE MOVIE DB

## THE NUMBERS



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Goals



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Proposal



Next Steps

# Data Methods

- Python



- Pandas



- SQL



- Seaborn



- Matplotlib

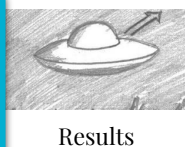
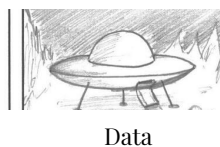
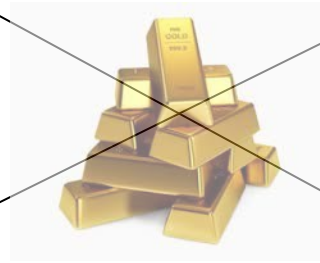


Aggregating by  
Genre

Cleaning

Averaging (Mean)

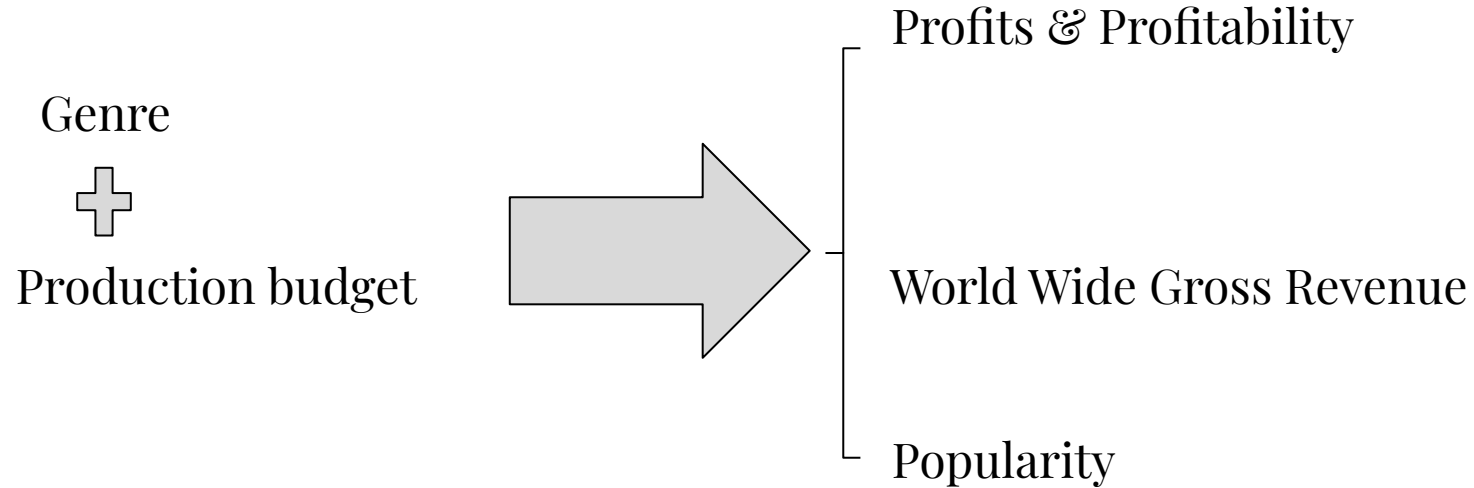
Visualizing



# Results

# Results

After cleaning and visualizing the data, we came to three conclusions:



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Next Steps



# Bottom Line

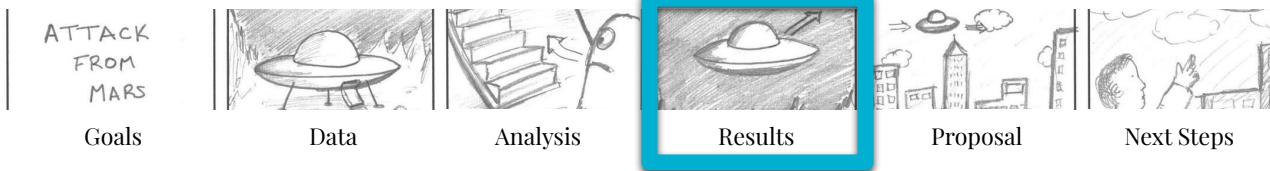
On average the highest grossing genres are:

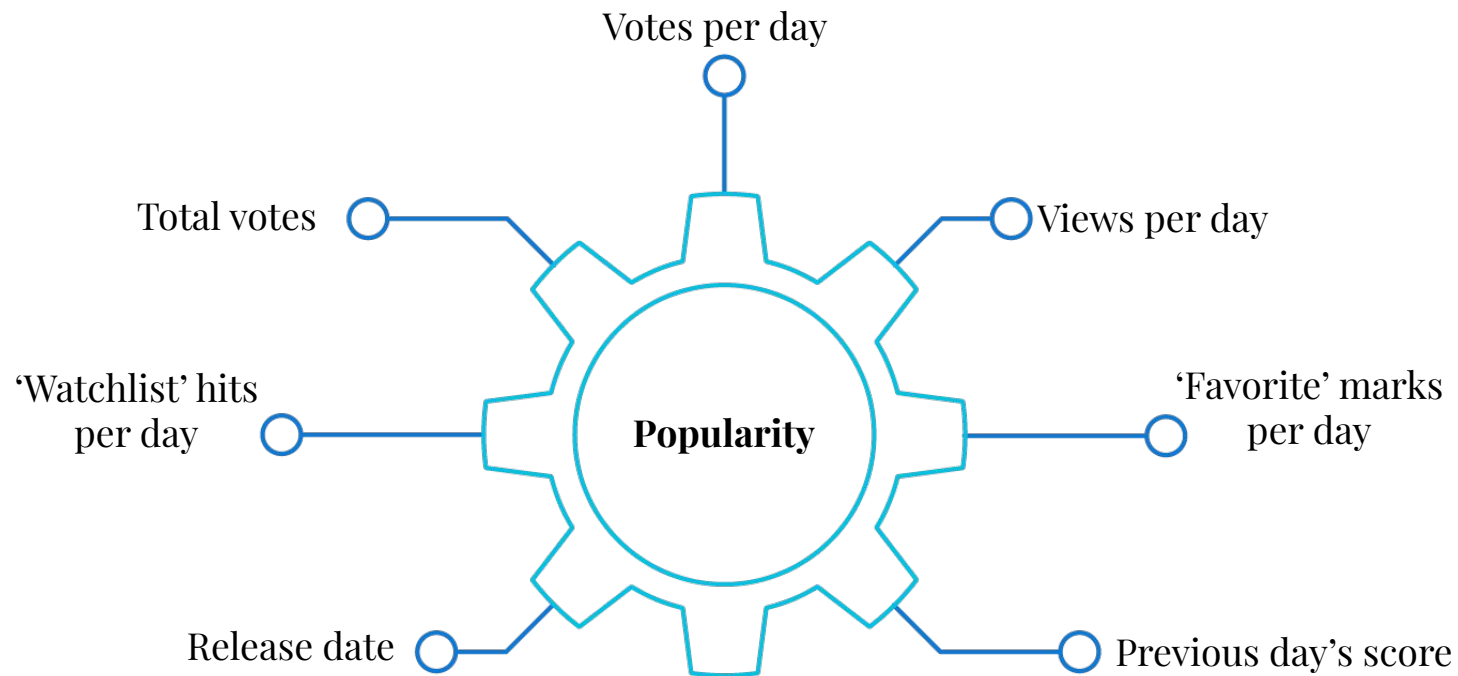
- Sci-fi
- Adventure
- Fantasy
- Action

**Genre has a large influence  
over popularity**

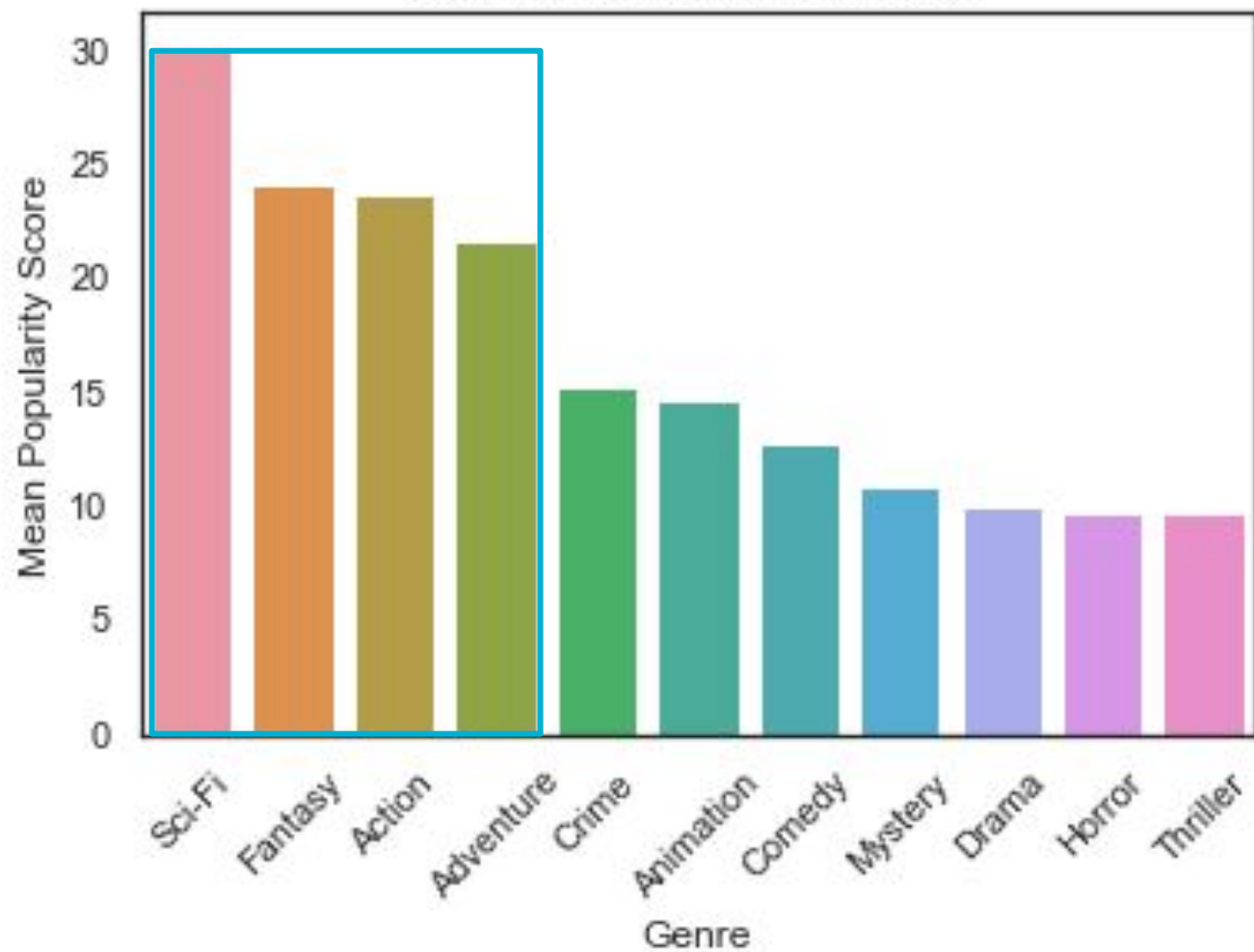


IndieWire

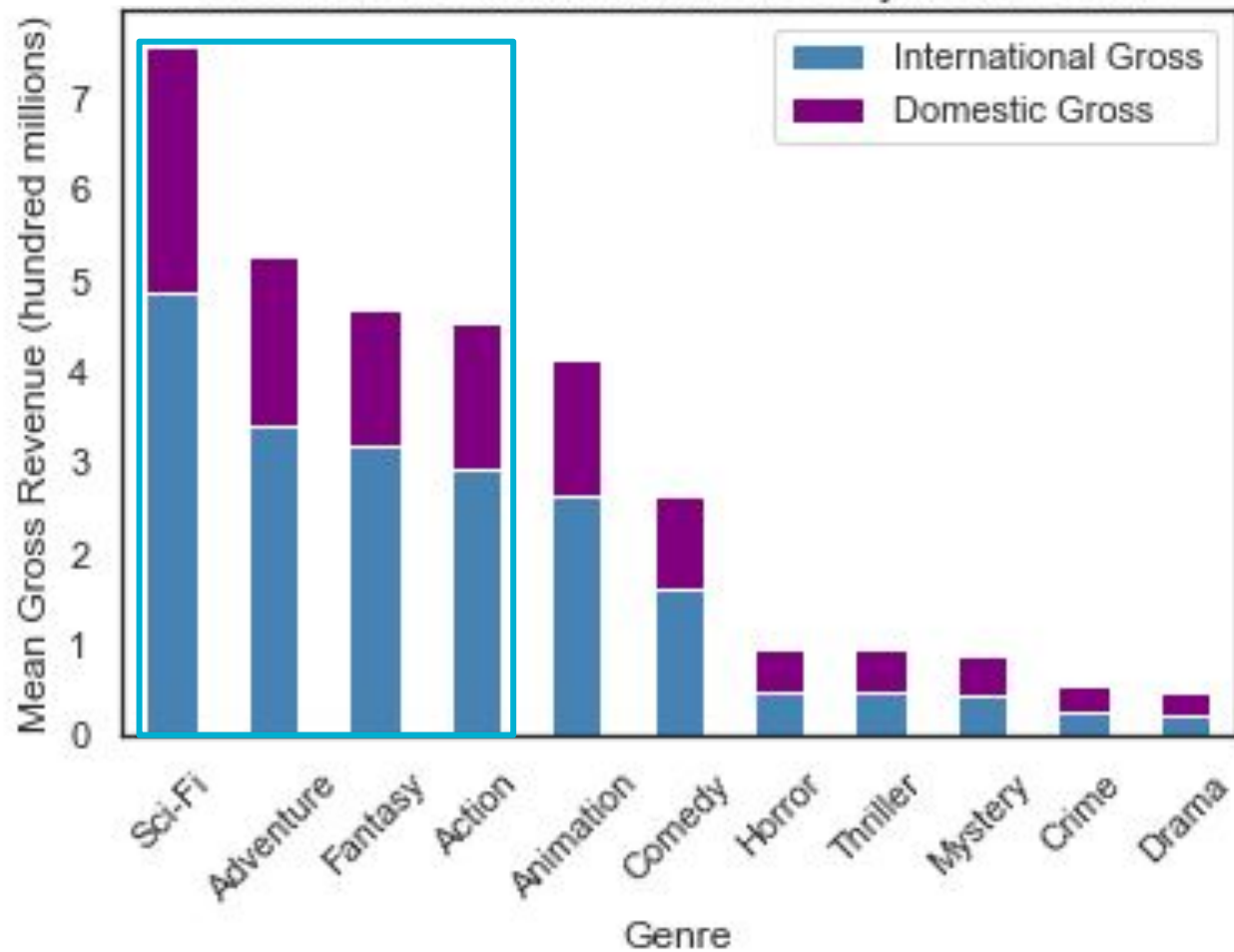




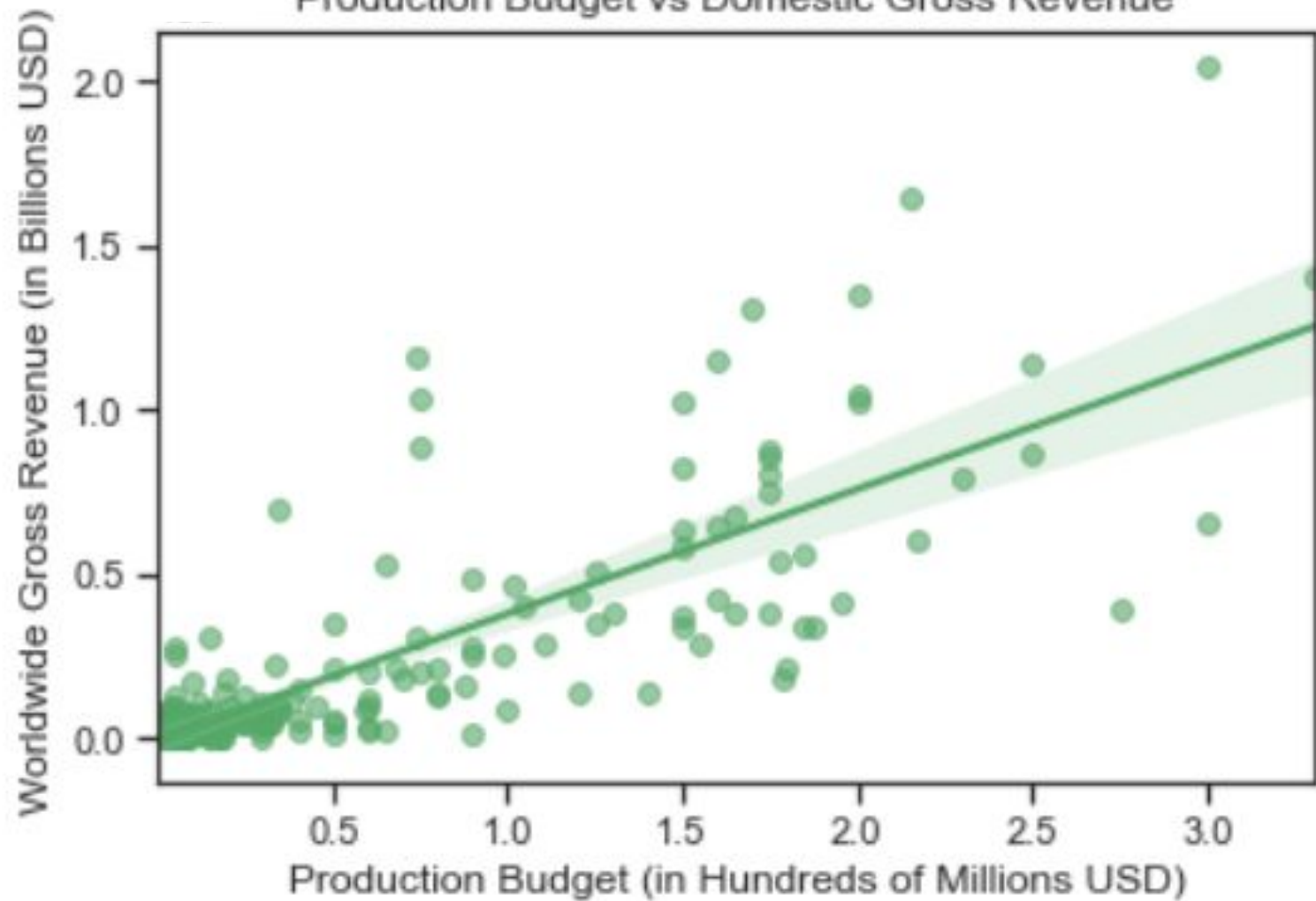
Mean Popularity Score by Genre



Domestic and International Gross by Movie Genre



Production Budget vs Domestic Gross Revenue



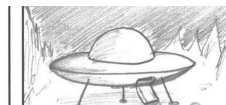
# Conclusion

# Recommendations

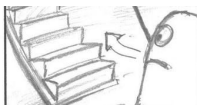
- Use owned properties for movies
- Focus on Sci-Fi and Adventure
- Spend money up front to make a large return
- Acquiring other franchises is a good area of growth



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Next Steps



# Next Steps

- Test focus groups
- Look at different production crews and writers
- Best time of year to release a movie?

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Next Steps



# Thank You! Q&A

We will now be taking questions.



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Elijah Jarocki  
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<https://github.com/ejarocki/>

# Appendix

## TECHNOLOGIES:

To analyze the dataset we had, we made use of the following language and libraries:

1. Python 3.9.10
2. Pandas 1.3.5
3. Numpy 1.22
4. Seaborn 0.11.2
5. Sqlite3 3.37.2
6. Shutil 3.10.2
7. Regular Expressions (RE) 3.10.2
8. Matplotlib 3.5.1