MICROSOFT MOVIE ANALYSIS

Assisting Microsoft's venture into the movie industry

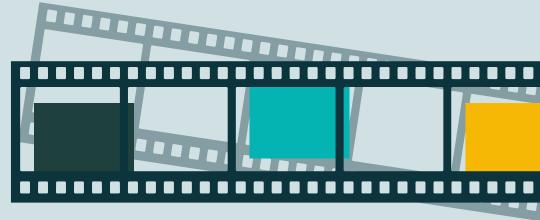
By Diane Tunnicliffe



SUMMARY

I analyzed the highest-grossing movies and determined what makes them so successful. My analysis will help you make the best possible movie based on the following criteria:

a superhero movie released in April or May, **or** an animated musical movie released in June or November, with an appropriate budget and the right director or composer for the job.





OUTLINE:

O1. BUSINESS PROBLEM

I explain the task and the approach.

02. THE DATA

I introduce data used in this analysis.

03. METHOD

I show how data was prepared and analyzed.

04. THE RESULTS

I share the visualizations and findings.

05. THE CONCLUSION

I propose recommendations.

BUSINESS PROBLEM SO, YOU WANT TO MAKE A MOVIE.

You want to break into the multi-billion dollar movie industry, but you don't know where to begin.

Here are the four factors you should be looking at:

Movie Type

Release Month

Production Budget

Additional Attributes: People

THE DATA

OpusData Movie Data

A free dataset for academic use. 1,900 movies from 2006-2018.



Web-scraped Data from The-Numbers.com

User-generated report of 100 top-grossing movies per year, 2010-2020.

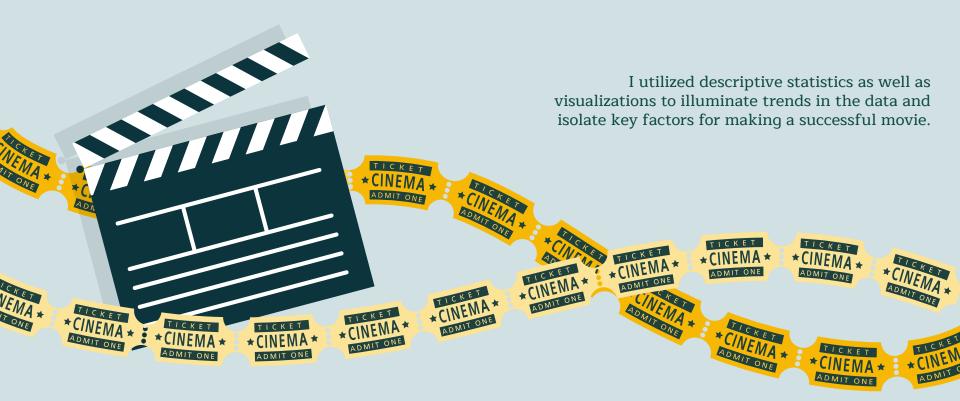


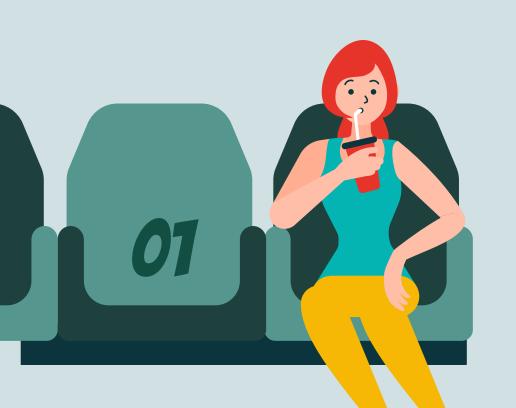
The Movie Database API

System for acquiring data on any of the 586,416 movies in TMDb database.



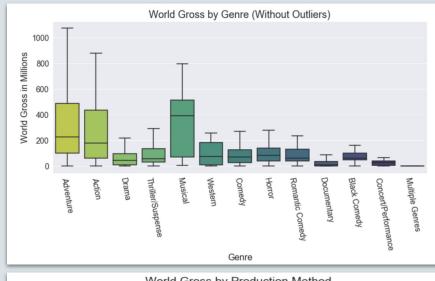
THE METHOD

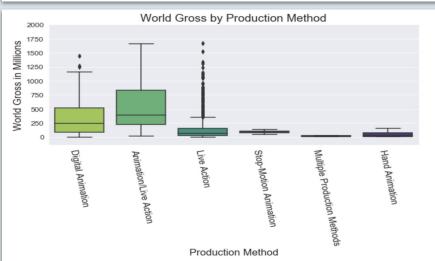




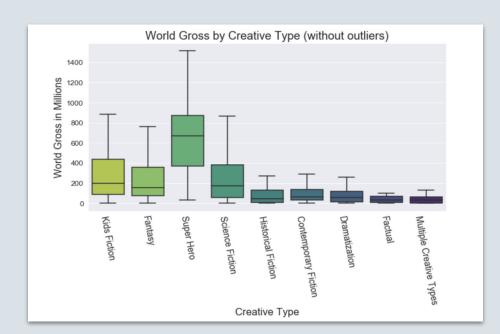
MOVIE TYPE: WHAT KINDS OF MOVIES ARE CURRENTLY MOST SUCCESSFUL?

Analyzing genre, creative type, and production method.

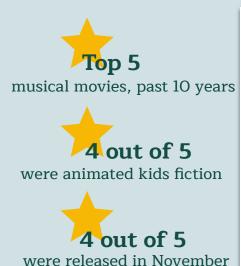


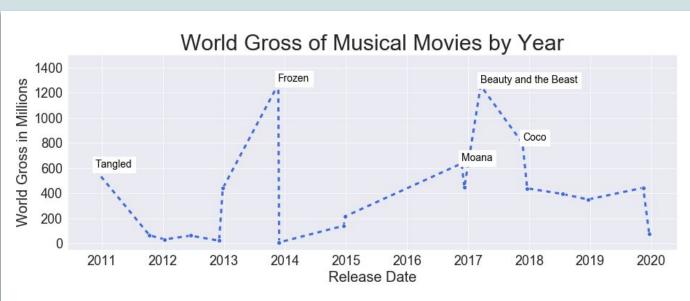


Musicals, animation, and super hero movies.

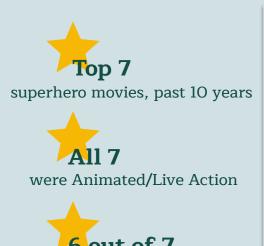


TOP-GROSSING MUSICAL MOVIES

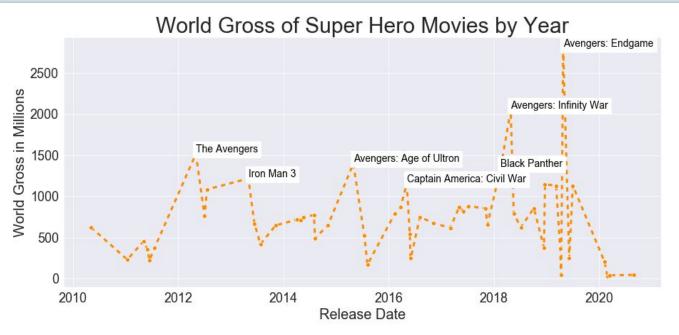


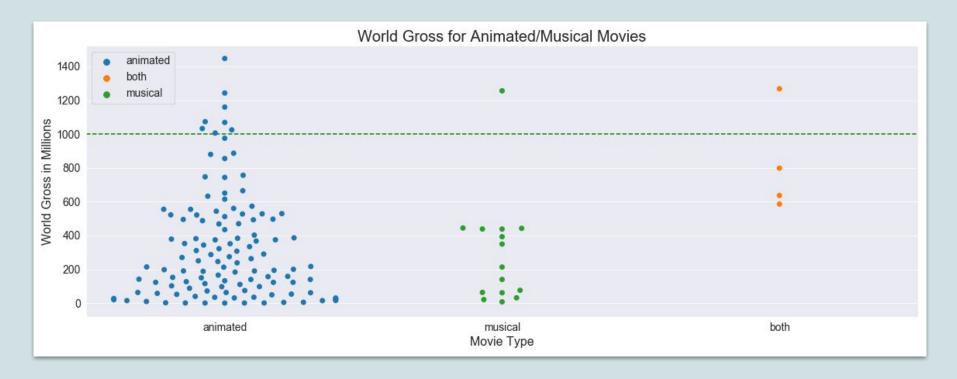


TOP-GROSSING SUPER HERO MOVIES



were released in April or May





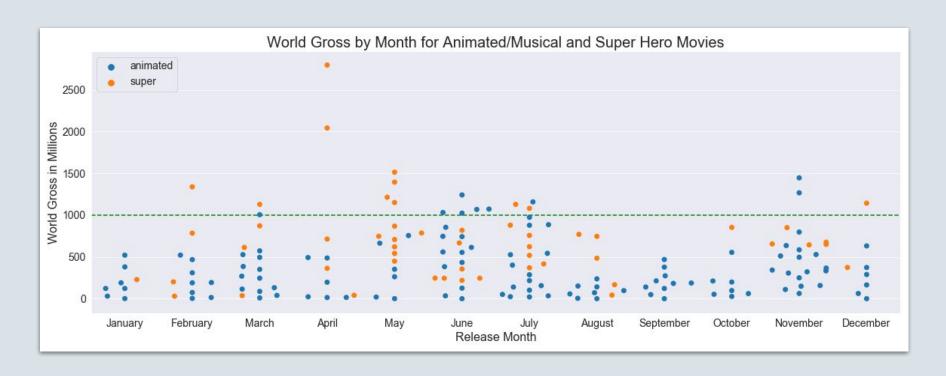
This visualization was part of the decision-making process for focusing on the broader category of **animated movies with musical components**, as opposed to simply musicals.

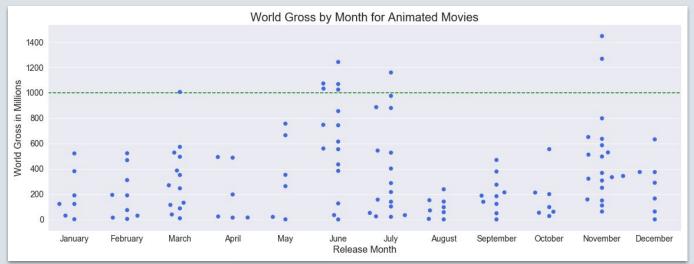
RELEASE MONTH

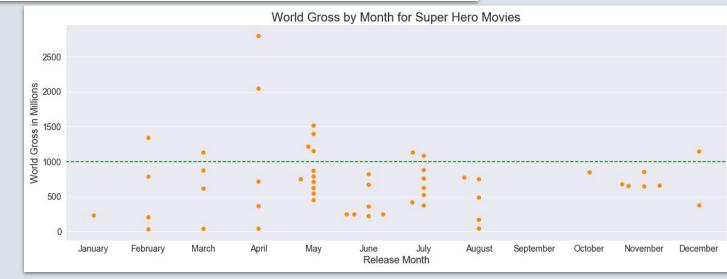
When is the best time of year to release a movie?

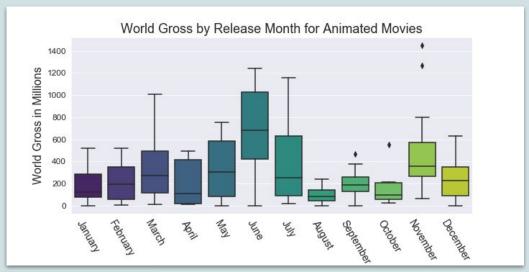


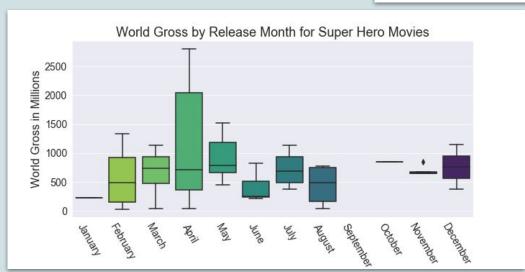
WORLD GROSS BY RELEASE MONTH









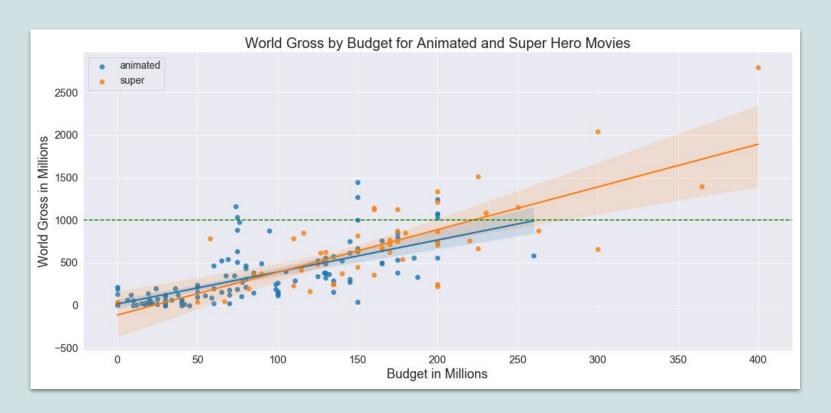


PRODUCTION BUDGET

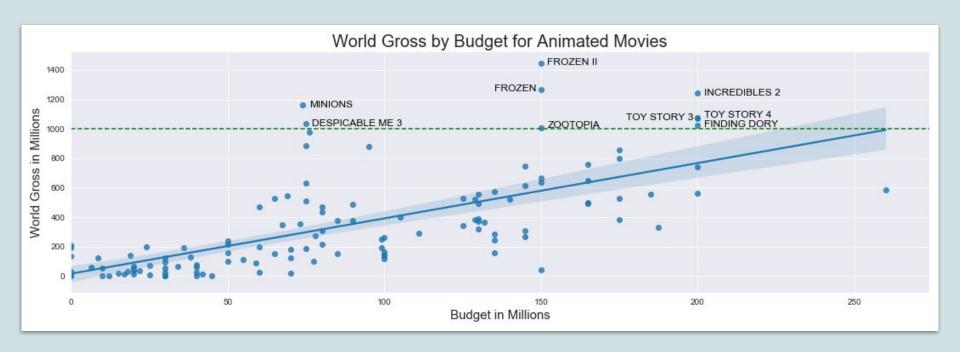
How much money do you need to spend to make a great movie?



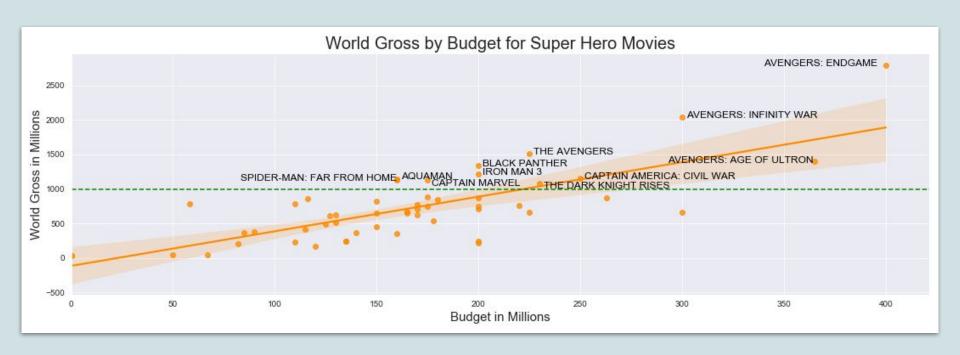
PRODUCTION BUDGET & GROSS BY MOVIE TYPE



ANIMATED MOVIE BUDGET



SUPER HERO MOVIE BUDGET



PUTTING IT ALL TOGETHER

Movie Type

Super Hero movies and/or animated musical movies

Release Month

Timing for best release for these specific types of movies

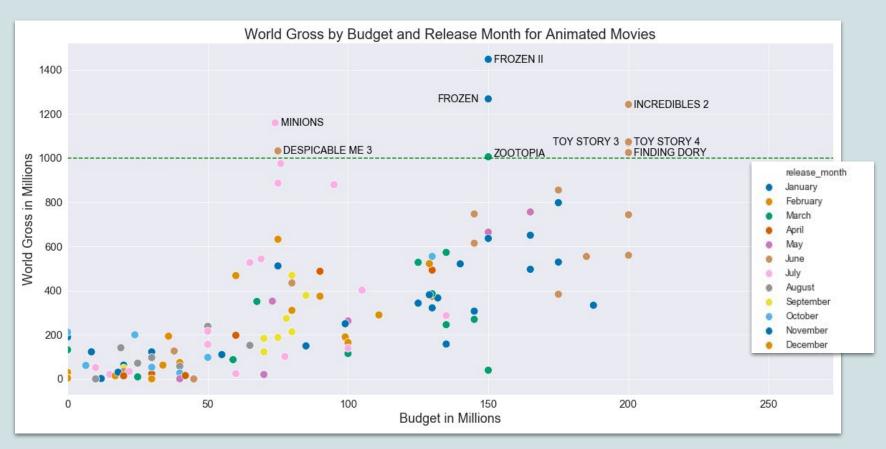
Budget

Production budget optimal for movie type

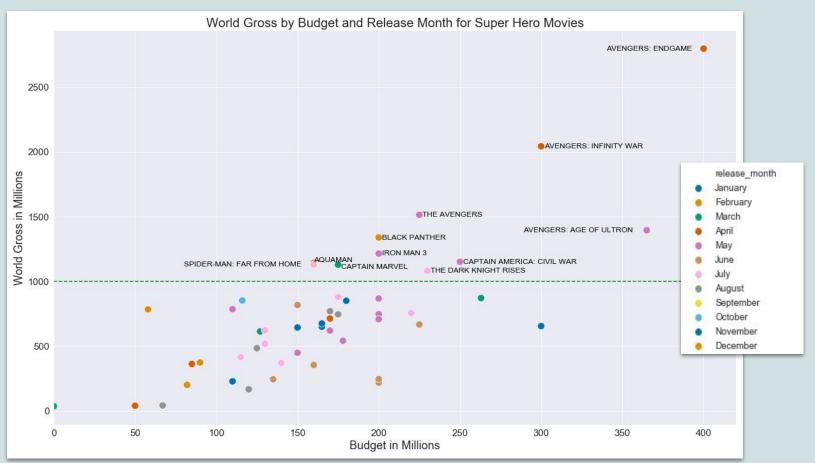




BUDGET AND RELEASE MONTH FOR ANIMATED MOVIES



BUDGET AND RELEASE MONTH FOR SUPER HERO MOVIES



RECOMMENDATIONS SO FAR...

Movie Type

Super Hero and animated musical movies.

Release Time

Super Hero movies:
April or May
Animated musicals:
June or November



High budget, high gross! 75 to 200 million for animated, 200-400 million for super hero

What else?

Additional attributes of successful movies.

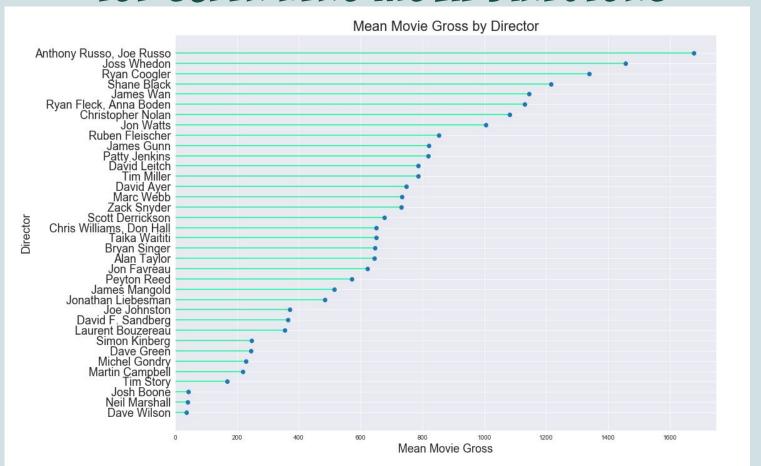




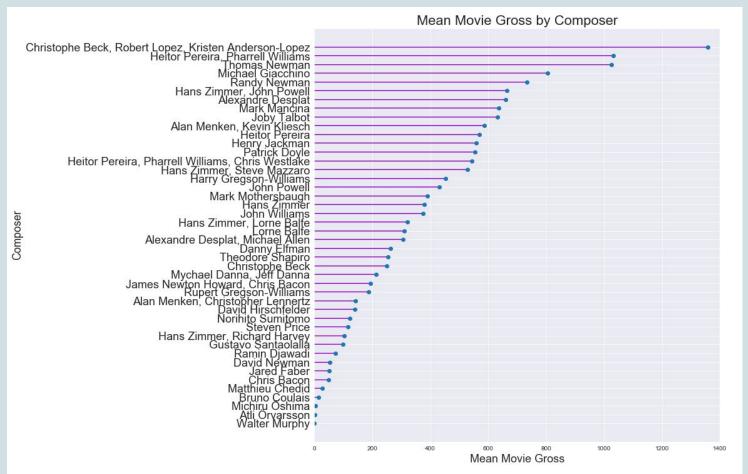
ADDITIONAL ATTRIBUTES

Based on these findings, what else do top-grossing movies have in common?

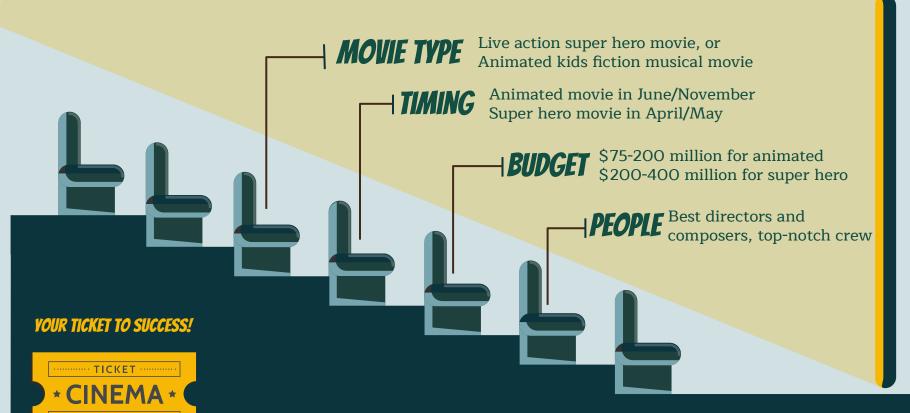
TOP SUPER HERO MOVIE DIRECTORS



TOP ANIMATED MOVIE COMPOSERS



CONCLUSION



FUTURE CONSIDERATIONS



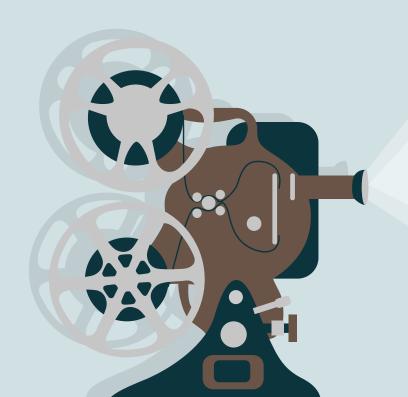
Additional data

Improve upon data once global pandemic has passed and more box office data becomes available.



Streaming platforms

Explore the possibility of streaming release while theater capacity remains low.



THANK YOU!

For any questions or comments, please feel free to reach out!

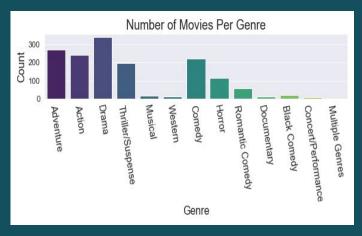
diane.j.tunnicliffe@gmail.com

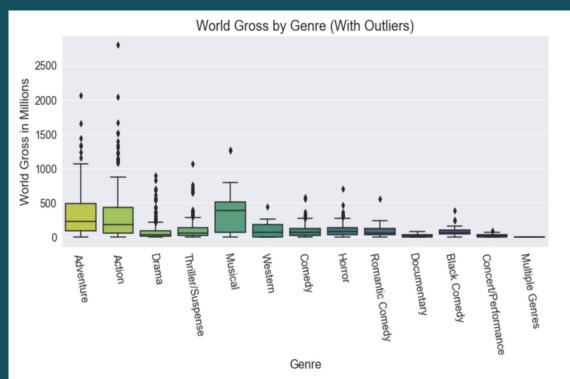
https://github.com/dtunnicliffe/movie-analysis-project www.linkedin.com/in/diane-tunnicliffe

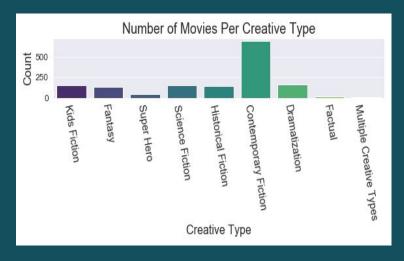
> CREDITS: This presentation template was created by Slidesgo, including icons by Flaticon, and infographics & images by Freepik.

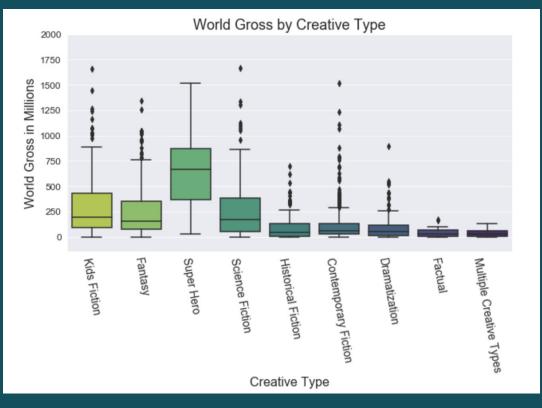
APPENDIX

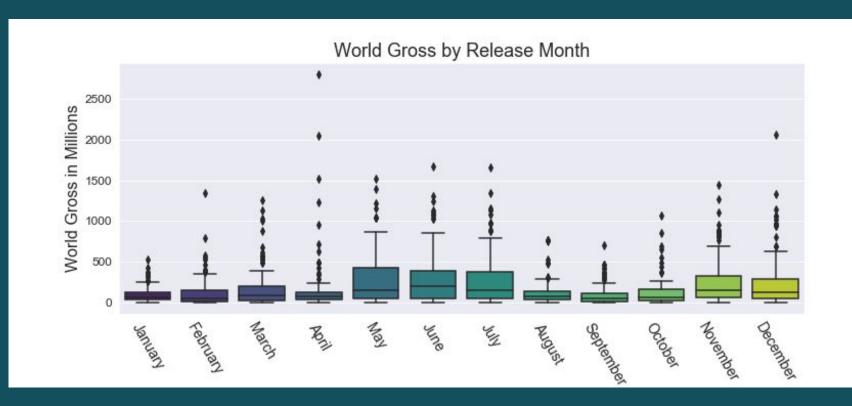
Additional visualizations from this analysis.



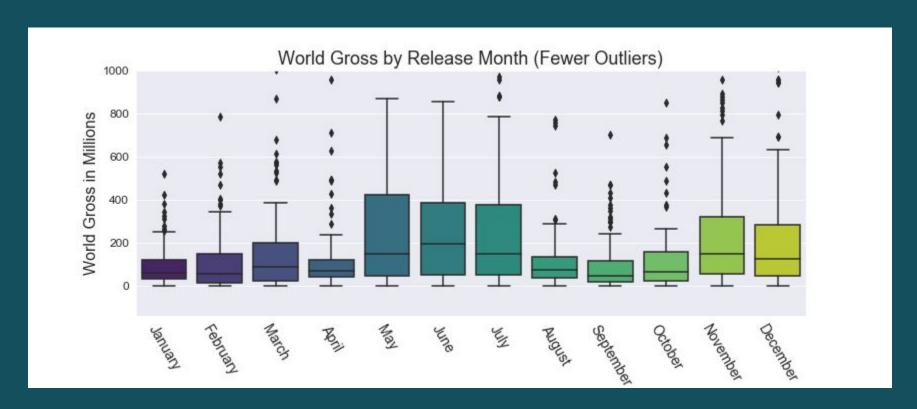




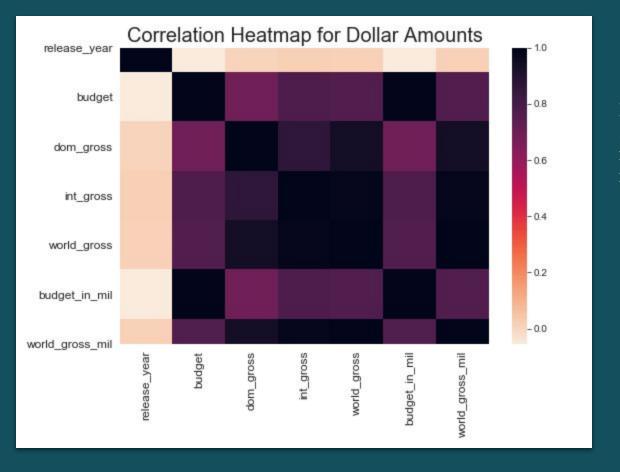




World gross by release month for all movies in dataset.

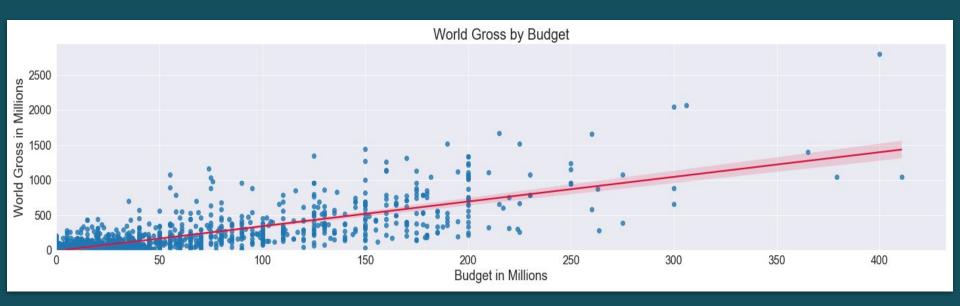


World gross by release month for all movies in dataset.



Heatmap generated off of running .corr method on the dataframe to find correlations between numerical data values.

PRODUCTION BUDGET



In general, for all movie types, world gross increases as budget increases.

For more information, please visit.

https://github.com/dtunnicliffe/movie-analysis-project
to view the entire repository for this analysis project.