# **Hit Movie Project**

#### Group 8

- John McDowell "Square"
- Jeremy Ocain "Circle"
- Latifou Amoussa "Triangle"
- Jose Mendez "X"



# Why Hit Movies?

- We all enjoy movies, but what makes them hits?
- What is our definition of a "hit"?
- This analysis attempts to dissect what is a critical hit based on Metascore data and a Monetary hit based on Net Profit.



# Data Sources and Tools Utilized

- 1. CSV file from Kaggle IMDb movies.csv
- Pandas / Python / Sqlalchemy / Scikit-learn
- 3. SQLite to clean and integrate data
- 4. Tableau for visualizations and final presentation



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- Is a movie a hit based on simply Metascore, Gross Income or a mixture of these outputs?
- Is there a seasonality effect in place?
- Does higher budget increase hit probability?
- Has there been a significant change in profitability for movies over the decades analyzed?
- Is there any correlation by genres?





### **Definitions / Terminology Used**

#### **Critically Acclaimed Movies (Based off of Metascore)**

Our group considers a movie to be critically acclaimed (meta\_hit) if the movie achieves a metascore of 75 or greater.

#### **Blockbuster movies**

Our group considers a blockbuster movie by two stipulations:

- A movie with a budget less than 7 million and having a gross profit greater than or equal to 500 percent.
- A movie with a budget over 7 million and having a gross profit greater than or equal to 250 percent.



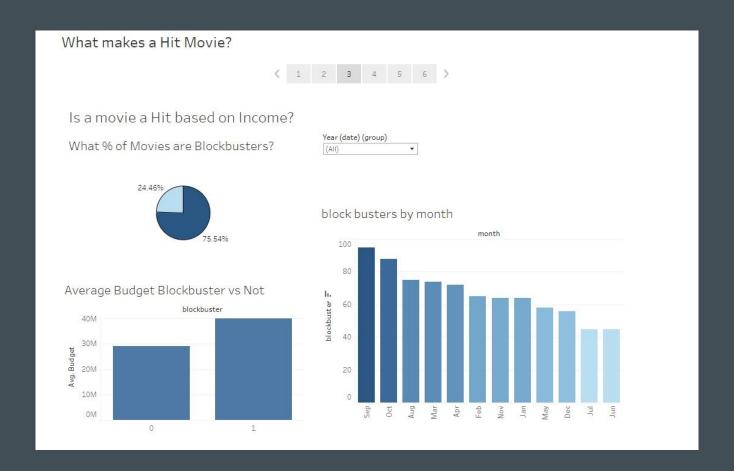
#### **Total Movie Count and Net Profits**



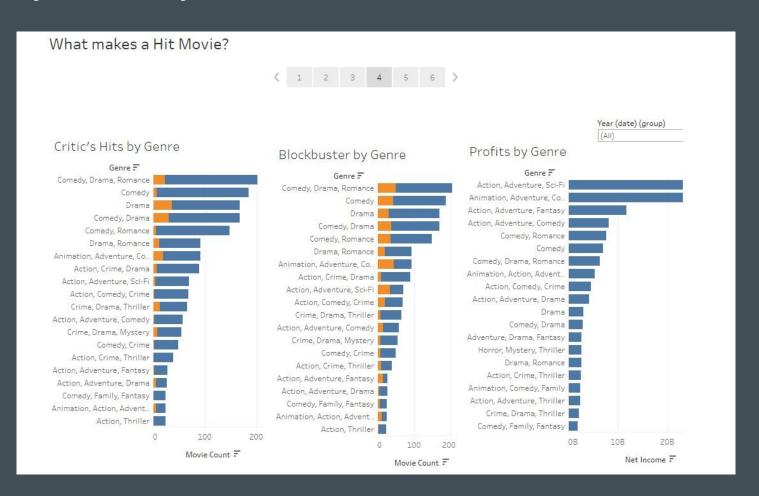
## **Critical Hits - Budget and Month Data**



## **Block-Buster Analysis**



### **Hit Movie by Genre Analysis**



# **Budget Analysis**







