

### **Table of Contents**

- Title Page
- Table of Contents
- Sources, Metrics, Methods & Standards
- Financial Analysis
  - Financially Important Unique Genre Combinations
  - Financially Important Individual Genres
  - <u>Financially Important Genres</u>
  - Financially Important Creative Types
- Recommendations to Maximize Subscribers
- Recommendations to Maximize Profits
- Interactive Visualization Feature
- Future Investigations
- Thank You & Contact Information

### **Data Sources**



## **Category Types**

- > IMDb Category Types
  - Unique Genre Combinations
    - > Number of Different Combinations: 183
  - > Individual Genres
    - Action
    - > Adventure
    - > Animation
    - Biography
    - Comedy
    - > Crime
    - Documentary

- > Drama
- > Family
- Fantasy
- > History
- > Horror
- > Music
- Musical

- Mystery
- > Romance
- > Sci-Fi
- > Sport
- > Thriller
- > War
- Western

## **Category Types**

### OpusData Category Types

- > Genres
  - > Adventure
  - Action
  - > Drama
  - Musical
  - Comedy
  - > Horror
- > Creative Types
  - Kids Fiction
  - Contemporary Fiction
  - Historical Fiction
  - Science Fiction
  - > Fantasy

- > Thriller/Suspense
- > Romantic Comedy
- Black Comedy
- Western
- Concert/Performance

- Dramatization
- > Super Hero
- > Factual
- Multiple Creative Types

## **Important Financial Metrics**

**Total Worldwide Gross Revenue** 

**Average Worldwide Gross Revenue** 

**Total Worldwide Profits** 

**Average Worldwide Profits** 

### **IMDb Category Types**

#### Standards for Qualifying as an Important Unique Genre Combination

- For a unique genre combination to even be considered as an Important Unique Genre Combination for a metric, there had to have been at least three movies made with that specific genre combination within the period covered.
- ➤ If a genre combination's value was in the **Top 10** of all of the genre combinations for a metric, it was considered a financially important genre combination for that metric.

### **Standards for Qualifying as an Important Individual Genre**

- For an individual genre to even be considered as an Important Individual Genre, there had to have been at least nine movies made that included that individual genre in their 'genres' description within the period covered.
- > If an individual genre's value was in the **Top 25**% of all of the individual genres for a metric, it was considered a financially important individual genre for that metric.

### **OpusData Category Types**

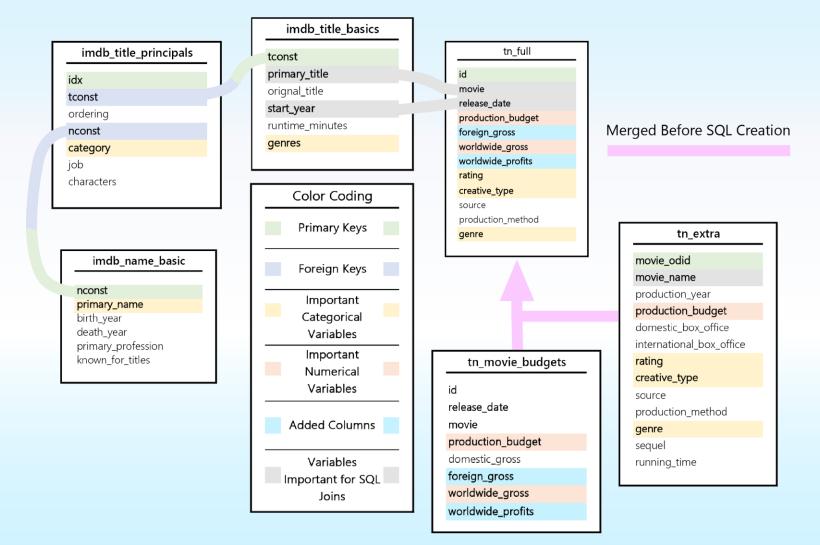
### **Standards for Qualifying as an Important Genre**

- For an genre to even be considered as an Important Genre, there had to have been at least nine movies made with that genre within the period covered.
- ➤ If a genre's value was in the **Top 25**% of all of the genres for a metric, it was considered a financially important genre for that metric.

#### **Standards for Qualifying as an Important Creative Type**

- For a creative type to even be considered as an Important Creative Type, there had to have been at least nine movies made with that creative type within the period covered.
- $\triangleright$  If a creative type's value was in the **Top**  $1/3^{rd}$  of all of the creative types for a metric, it was considered a financially important creative type for that metric.

## **SQL Database Diagram**



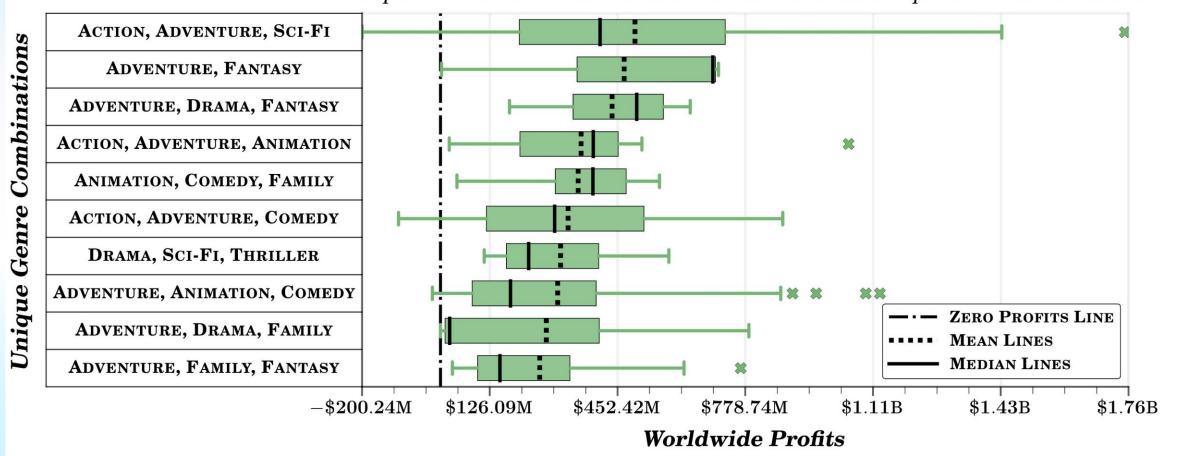


## IMDb Categorical Data • The Numbers Financial Data 2010 o 2019

Top 10 Unique Genre Combinations • Ranked by Boxplots of the Worldwide Profits

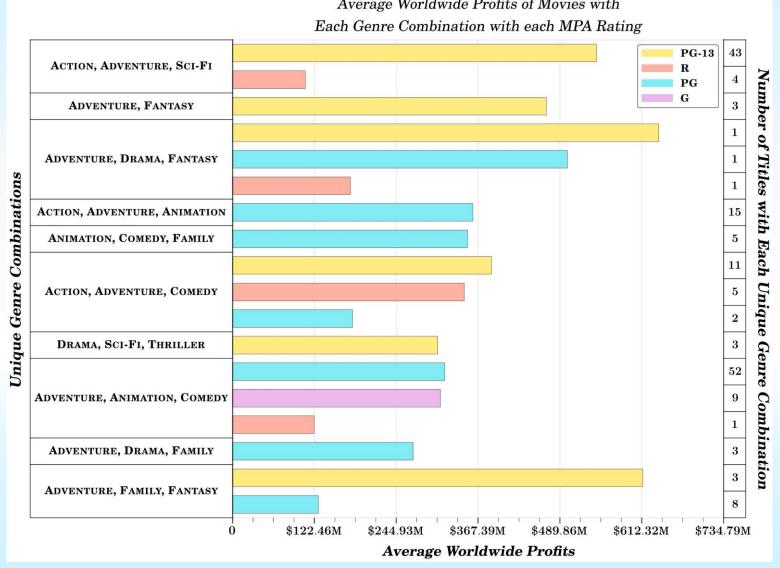
Ranked by Average Worldwide Profits

Boxplots of the Worldwide Profits of Movies with these Unique Genre Combinations



#### IMDb CATEGORICAL DATA OPUSDATA RATINGS DATA • THE NUMBERS FINANCIAL DATA $2010 \rightarrow 2018$

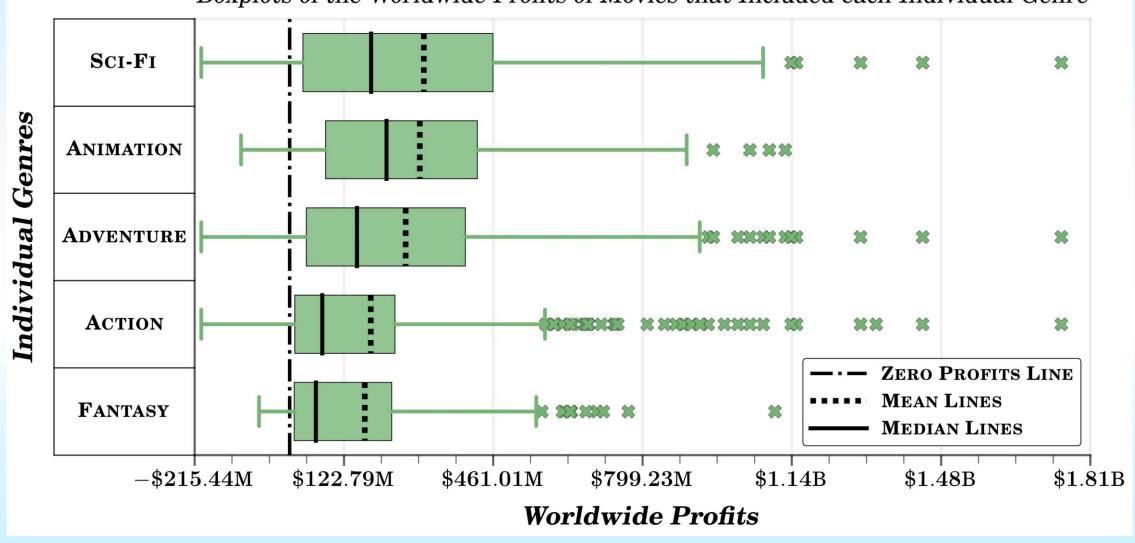
Average Worldwide Profits of Movies with

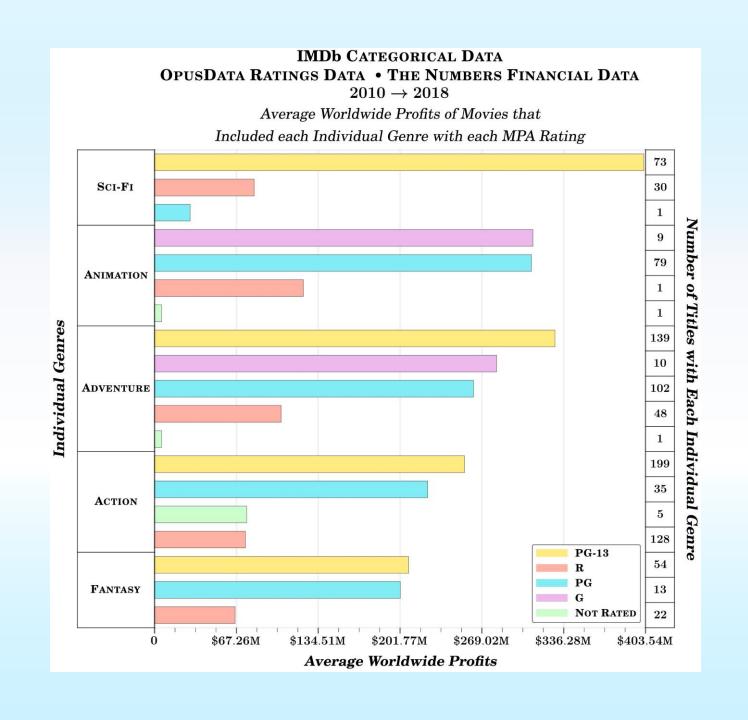


# **Financially Important Individual Genres**

# IMDb Categorical Data $\, \bullet \,$ The Numbers Financial Data $2010 \rightarrow 2019$

Boxplots of the Worldwide Profits of Movies that Included each Individual Genre

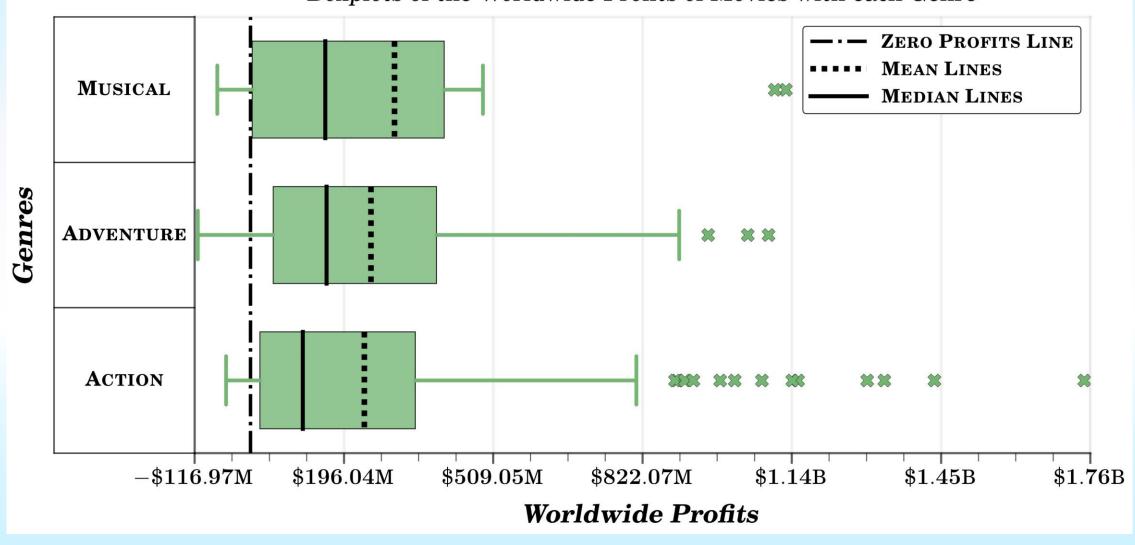


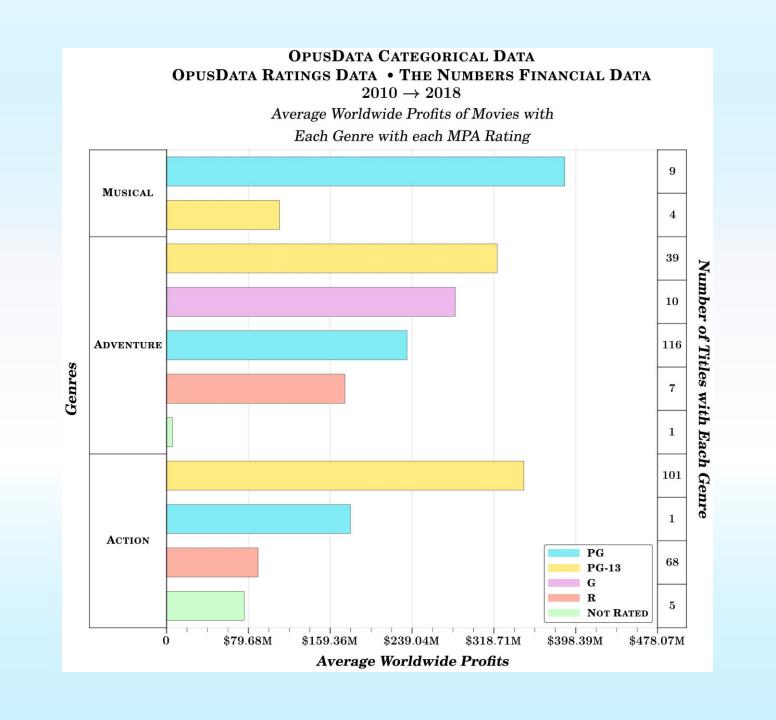


# **Financially Important Genres**

# Opus<br/>Data Categorical Data • The Numbers Financial Data $2010 \rightarrow 2018$

Boxplots of the Worldwide Profits of Movies with each Genre

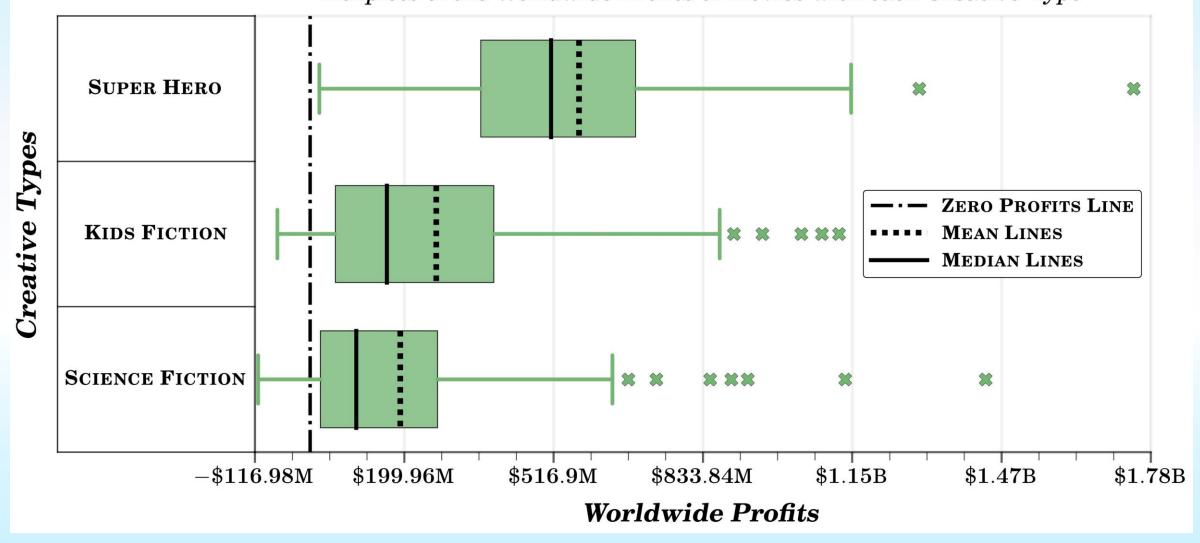


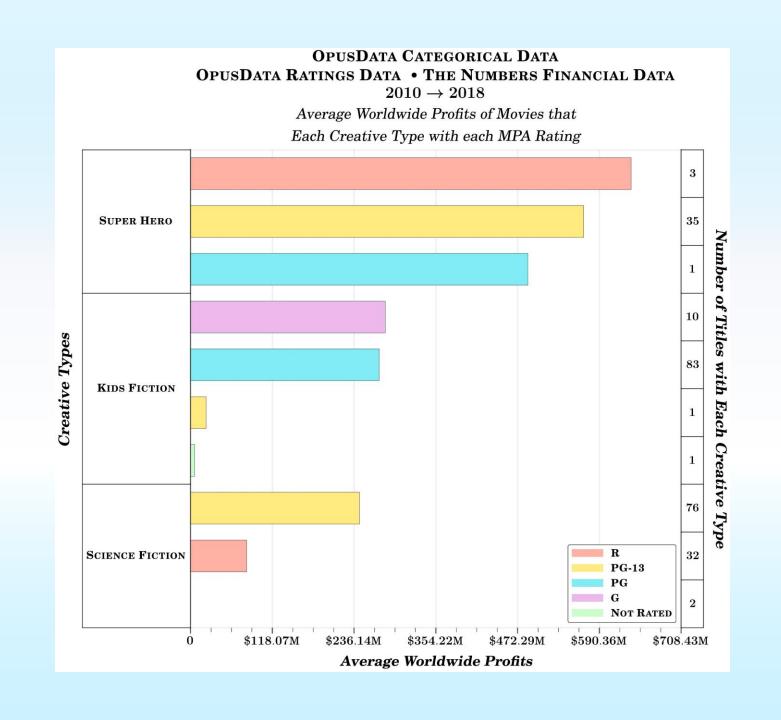


# **Financially Important Creative Types**

# OPUSDATA CATEGORICAL DATA • THE NUMBERS FINANCIAL DATA 2010 o 2018

Boxplots of the Worldwide Profits of Movies with each Creative Type





### **Recommendations to Maximize Subscribers**

#### **Total Worldwide Gross Revenue**

### **Average Worldwide Gross Revenue**

IMDb Catgegory Types	Recommended Categories (In order of Importance)	Recommended MPA Ratings for each Category (In order of Importance for each Category)	IMDb Catgegory Types	Recommended Categories (In order of Importance)	Recommended MPA Ratings for each Category (In order of Importance for each Category)
Unique Genre Combinations	Action, Adventure, Sci-Fi Action, Adventure, Animation Adventure, Family, Fantasy Adventure, Animation, Comedy Action, Adventure, Fantasy Action, Adventure, Comedy	PG-13 PG PG-13 • PG PG • G PG-13 PG-13 • R	Unique Genre Combinations	Action, Adventure, Sci-Fi Adventure, Fantasy Action, Adventure, Animation Animation, Comedy, Family Adventure, Drama, Fantasy Adventure, Family, Fantasy	PG-13 • R PG-13 PG PG PG PG PG-13 • PG-13 • R PG-13 • PG
Individual Genres	Sci-Fi Adventure Action Comedy Drama	PG-13 PG-13 • PG PG-13 • R • PG PG • PG-13 • R PG-13 • R	Individual Genres	Sci-Fi Animation Adventure Fantasy Action	PG-13 • R G • PG • R PG-13 • G • PG • R PG-13 • PG • R PG-13 • PG • R
OpusData Catgegory Types	Recommended Categories (In order of Importance)	Recommended MPA Ratings for each Category (In order of Importance for each Category)	OpusData Catgegory Types	Recommended Categories (In order of Importance)	Recommended MPA Ratings for each Category (In order of Importance for each Category)
Genres	Adventure Action Drama	PG • PG-13 PG-13 • R PG-13 • R	Genres	Musical Adventure Action	PG • PG-13 PG-13 • G • PG • R PG-13 • PG • R
Creative Types	Kids Fiction Science Fiction Contemporary Fiction	PG • G PG-13 • R PG-13 • R	Creative Types	Super Hero Kids Fiction Science Fiction	PG-13 • R • PG G • PG • PG-13 PG-13 • R • PG

### **Recommendations to Maximize Profits**

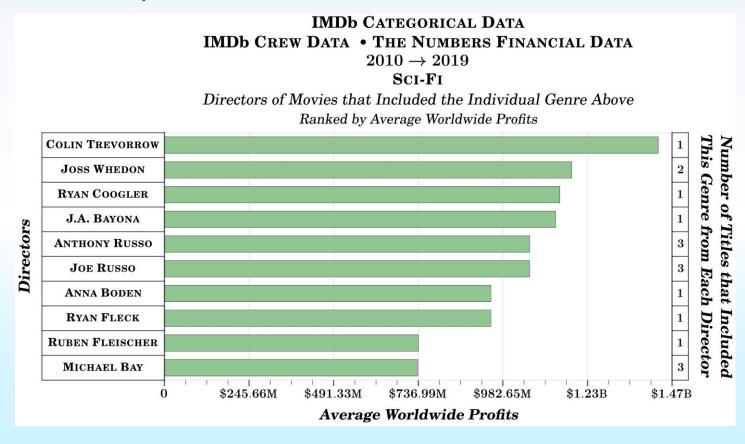
#### **Total Worldwide Profits**

### **Average Worldwide Profits**

Recommended Categories (In order of Importance)	Recommended MPA Ratings for each Category (In order of Importance for each Category)
Action, Adventure, Animation	PG
Adventure, Animation, Comedy	PG • G
Action, Adventure, Comedy	PG-13 • R
Adventure, Family, Fantasy	PG-13 • PG
Action, Adventure, Fantasy	PG-13
Action, Adventure, Sci-Fi	PG-13
Sci-Fi	PG-13
Adventure	PG-13 • PG
Action	PG-13 • R • PG
Comedy	PG • PG-13 • R
Drama	PG-13 • R
Recommended Categories (In order of Importance)	Recommended MPA Ratings for each Category (In order of Importance for each Category)
Action	PG-13 • R
Adventure	PG • PG-13
Drama	PG-13 • R
Super Hero	PG-13
Kids Fiction	PG • G
Contemporary Fiction	PG-13 • R
	(In order of Importance)  Action, Adventure, Animation Adventure, Animation, Comedy Action, Adventure, Comedy Adventure, Family, Fantasy Action, Adventure, Fantasy Action, Adventure, Sci-Fi Sci-Fi Adventure Action Comedy Drama  Recommended Categories (In order of Importance)  Action Adventure Drama Super Hero Kids Fiction

IMDb Catgegory Types	Recommended Categories (In order of Importance)	Recommended MPA Ratings for each Category (In order of Importance for each Category)
Unique Genre Combinations	Adventure, Drama, Fantasy Adventure, Fantasy Animation, Comedy, Family Drama, Sci-Fi, Thriller Action, Adventure, Animation Adventure, Family, Fantasy Adventure, Animation, Comedy Action, Adventure, Sci-Fi	PG-13 • PG • R PG-13 PG PG-13 PG PG-13 • PG PG-13 • PG PG-13 • PG
Individual Genres	Animation Sci-Fi Adventure Fantasy Action	G • PG • R PG-13 • R PG-13 • G • PG • R PG-13 • PG • R PG-13 • PG • R
OpusData Catgegory Types	Recommended Categories (In order of Importance)	Recommended MPA Ratings for each Category (In order of Importance for each Category)
Genres	Adventure Action Musical	PG-13 • G • PG • R PG-13 • PG • R PG • PG-13
Creative Types	Super Hero Kids Fiction Science Fiction	R • PG-13 • PG G • PG PG-13 • R

My final recommendation is to use the feature that starts on the next slide to find the most important crew members of the categories from each category type that I recommended in the previous slides, or to explore the category types themselves. An example visualization is shown below.



Click on and follow the instructions for each menu as they appear to choose the properties of the visualization you wish to create. Then click the 'Access Visualization' button once you have selected the desired visualization.

Choose a data source from the choices below				
IMDb				
OpusData				

Click on and follow the instructions for each menu as they appear to choose the properties of the visualization you wish to create. Then click the 'Access Visualization' button once you have selected the desired visualization.

Choose a category type from the choices below...

Important Unique Genre Combinations

Important Individual Genres

Click on and follow the instructions for each menu as they appear to choose the properties of the visualization you wish to create. Then click the 'Access Visualization' button once you have selected the desired visualization.

**IMDb** 

**Important Individual Genres** 

Do you wish to explore the Important Individual Genres themselves, or the Important Crew from those Important Individual Genres?

**Important Individual Genres** 

**Important Individual Genres - Crew** 

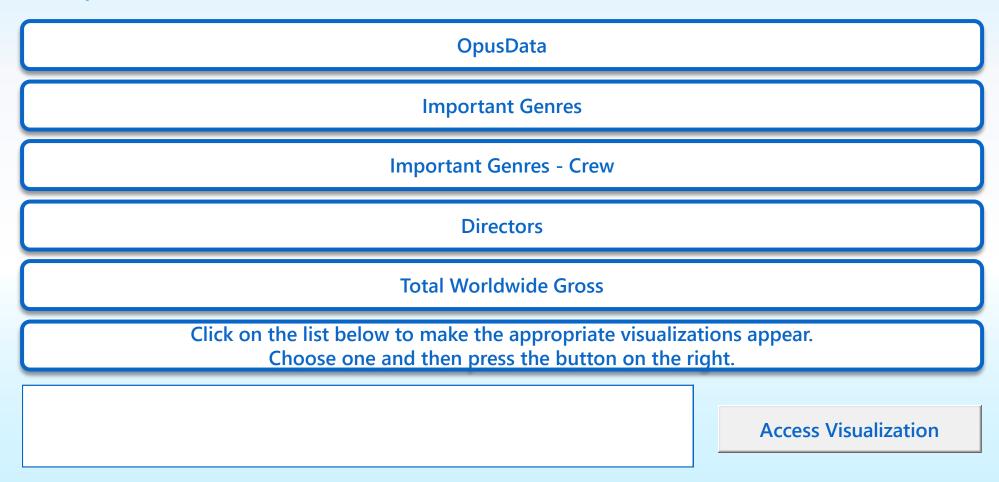
Click on and follow the instructions for each menu as they appear to choose the properties of the visualization you wish to create. Then click the 'Access Visualization' button once you have selected the desired visualization.

**IMDb Important Individual Genres Important Individual Genres** Choose a financial metric from the choices below... **Total Worldwide Gross Total Worldwide Profits Average Worldwide Gross Average Worldwide Profits** 

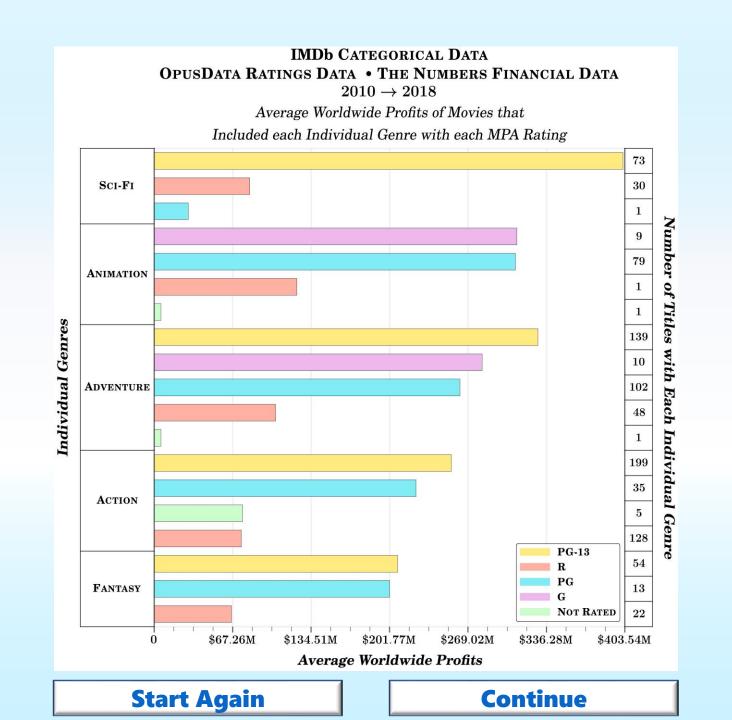
Click on and follow the instructions for each menu as they appear to choose the properties of the visualization you wish to create. Then click the 'Access Visualization' button once you have selected the desired visualization.

IMDb			
Important Individual Genres			
Important Individual Genres			
Average Worldwide Profits			
Click on the list below to make the appropriate visualizations appear.  Choose one and then press the button on the right.			
	Access Visualization		

Click on and follow the instructions for each menu as they appear to choose the properties of the visualization you wish to create. Then click the 'Access Visualization' button once you have selected the desired visualization.



Use the arrow keys on the scroll bar or the directional keys on your keyboard to navigate through the list if necessary.



## **Future Investigations**

**Rotten Tomatoes** 

**Critics Reviews** 

The Numbers / OpusData

**Tomatometer** 

### **Thank You & Contact Information**

- Critical Insights and Recommendations
- > Financial Benefits for Microsoft
- > Benefits for Enthusiasts of High Quality Films and Television
- > Clink on an Icon Below for Contact Information

