Success in the Movie Industry

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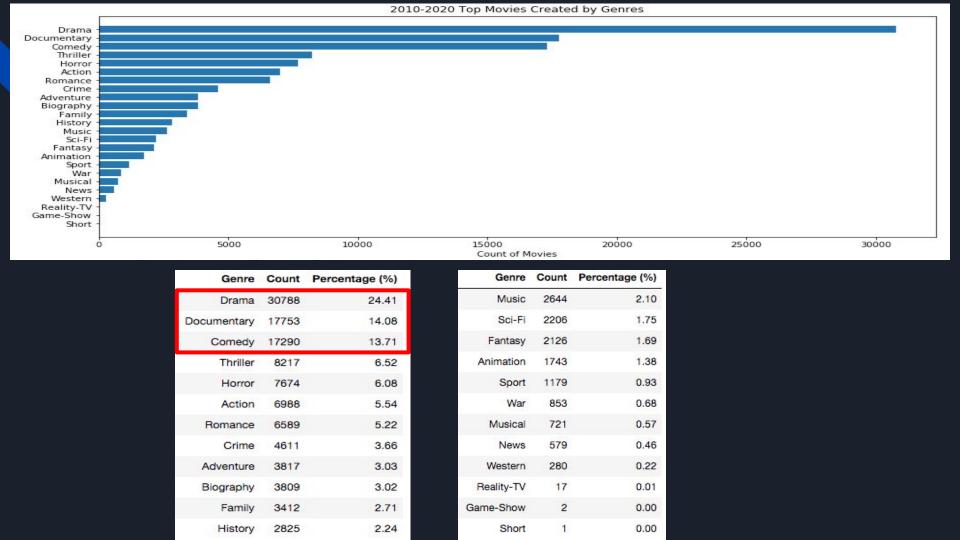
Project Goals

Have a better understanding of the movie industry and what type of films our company should create

What is the distribution for movies in each genre? What are the top 3 genres that film studios create the most?

- Action?
- Thriller?
- Drama?

- Comedy?
- Romance?
- Animation?

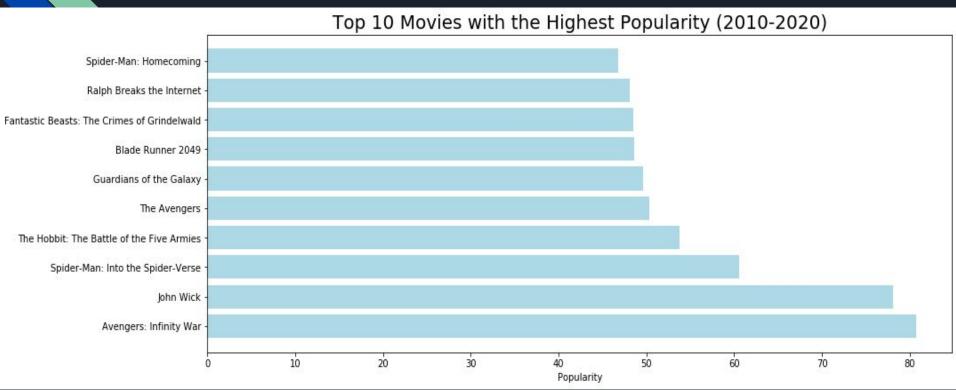


What films have been most popular and highest rated between 2010 - 2020?

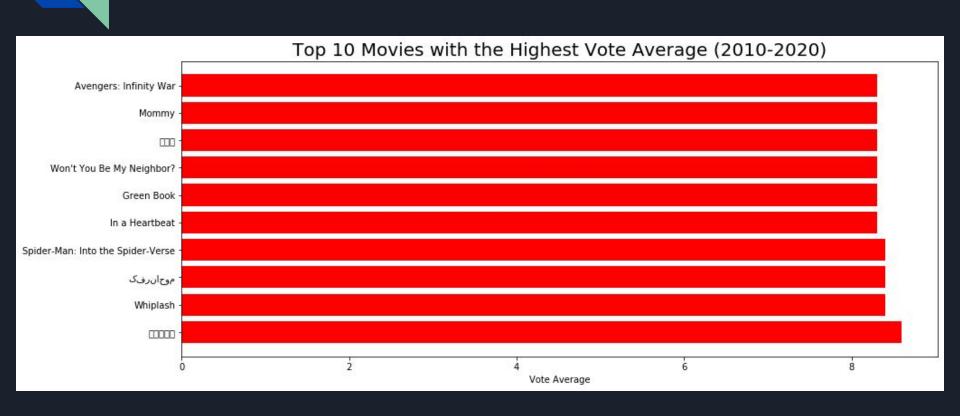


Definitely not this (Rotten Tomatoes - 7%)

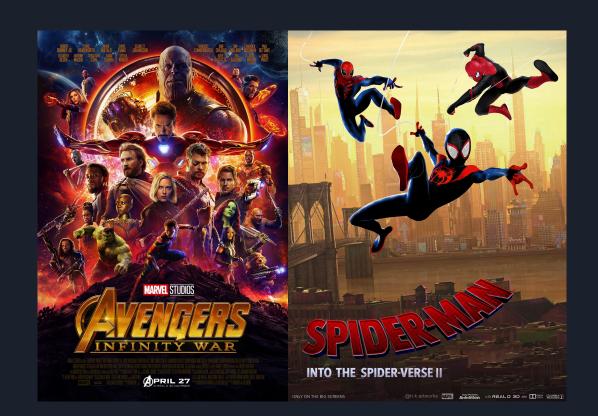
Top 10 Most Popular Movies (2010-2020)



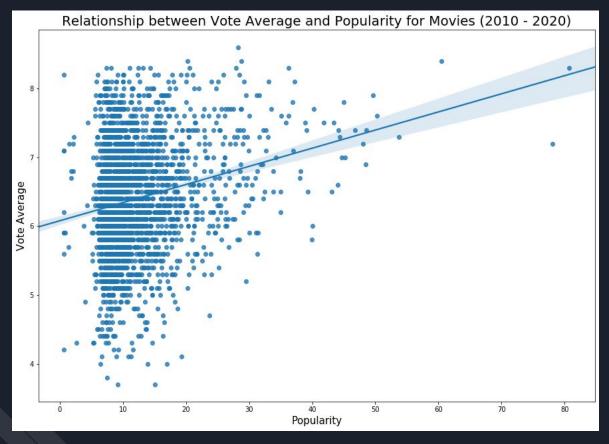
Top 10 Most Highest Rated Movies (2010-2020)



Both these are in the top 10 Most Popular and Highly Rated. What do they have in common?



Is there a relationship between Popularity and Highest Rated Movies?



Correlation Coefficient: 0.21

Total Records: 2412

Popularity

Min: 8.23 Max: 80.77

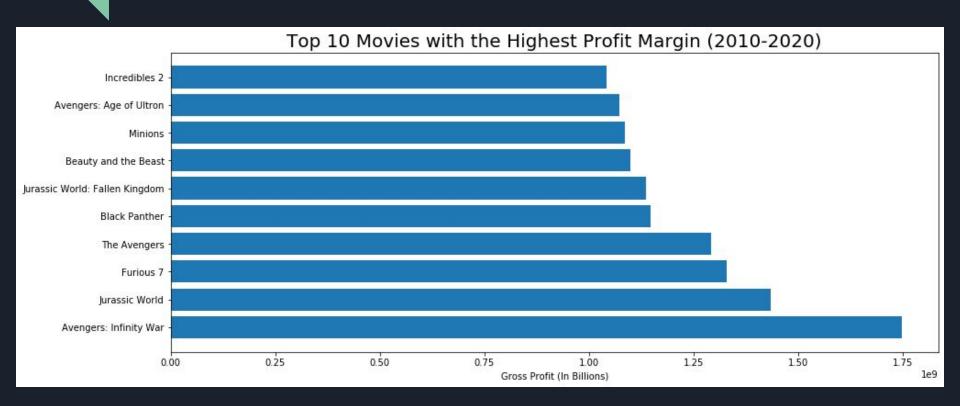
Median: 10.32 Mean: 12.38

Vote Average

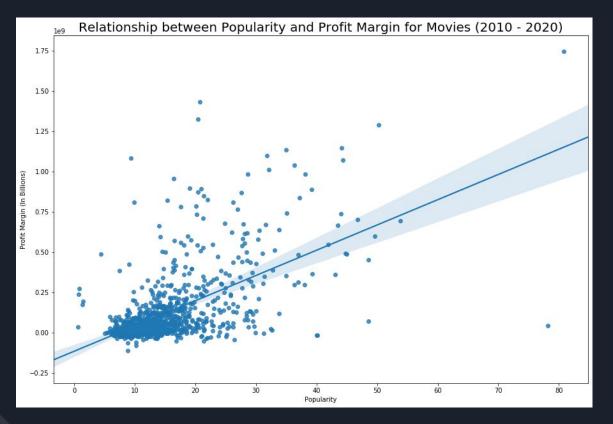
Min: 3.70 Max: 8.60

Median: 6.40 Mean: 6.40

Top 10 Movies with the Highest Profit Margin (2010-2020)



Is there a relationship between Popularity and Profit Margin?



Total Records: 1028

Popularity

Min: 0.60 Max: 80.77

Median: 12.77 Mean: 14.77

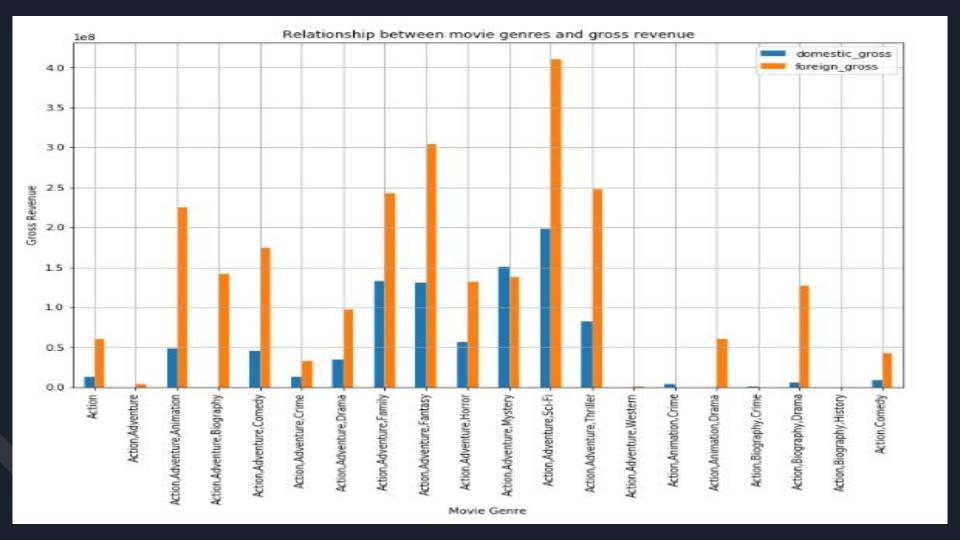
Profit Margin

Min: -110M Max: 1748M

Median: 42M Mean: 118M

Correlation Coefficient: 0.60

What are the most lucrative genre combinations?



Top Movie Genre Combinations

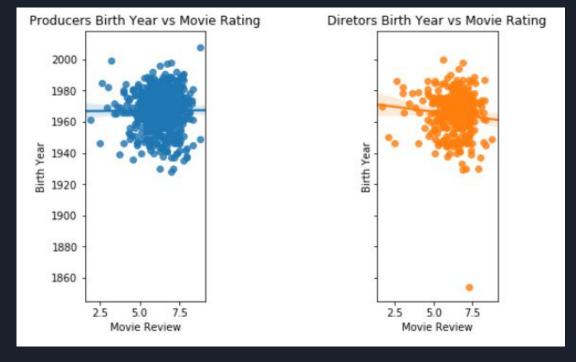
domestic_gross	foreign_gross
1.979944e+08	4.105883e+08
1.304897e+08	3.047091e+08
8.247756e+07	2.482125e+08
1.324500e+08	2.432000e+08
4.871540e+07	2.252333e+08
	1.979944e+08 1.304897e+08 8.247756e+07 1.324500e+08

Who are the top 5 writers, producers, and directors for the top 3 genres?

Based on our analysis the ideal 5 casts for the best genre combination are:

Genre	Producers	Directors	Writers
Action	Chris Hemsworth	Stanley Tucci	John Logan
Action	Frank Grillo	lan McShane	Jeff Pinkner
Action	Stanley Tucci	Don Murphy	Akiva Goldsman
Action	Amber Heard	Irrfan Khan	Steven Spielberg
Action	lan McShane	Akiva Goldsman	T.J. Miller
Adventure	Chris Hemsworth	Stanley Tucci	Jennifer Lee
Adventure	Jennifer Lee	lan McShane	John Logan
Adventure	Stanley Tucci	Don Murphy	Denis Leary
Adventure	Christopher Meledandri	Cate Blanchett	Mike Mitchell
Adventure	Amber Heard	Carolynne Cunningham	Cinco Paul
Sci-Fi	Chris Hemsworth	Stanley Tucci	Jeff Pinkner
Sci-Fi	Stanley Tucci	Don Murphy	Akiva Goldsman
Sci-Fi	Don Murphy	Irrfan Khan	Steven Spielberg
Sci-Fi	Jeff Pinkner	Akiva Goldsman	Jon Hoeber
Sci_Fi		Steven Spielberg	Wai Lun Ng

What's the relationship between the age of a crew member and the rating of a movie?

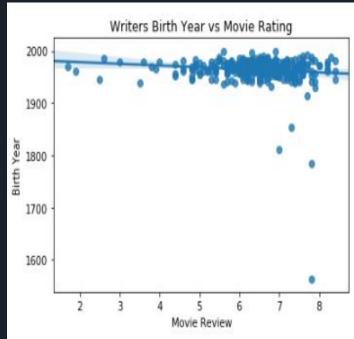


Analysis: Based on this I'll strongly recommend hiring a combination of a younger producer with an older more experienced writer and director.

Slope:

Producers: 0.000527 (Positive) Directors: 0.006959 (Positive)

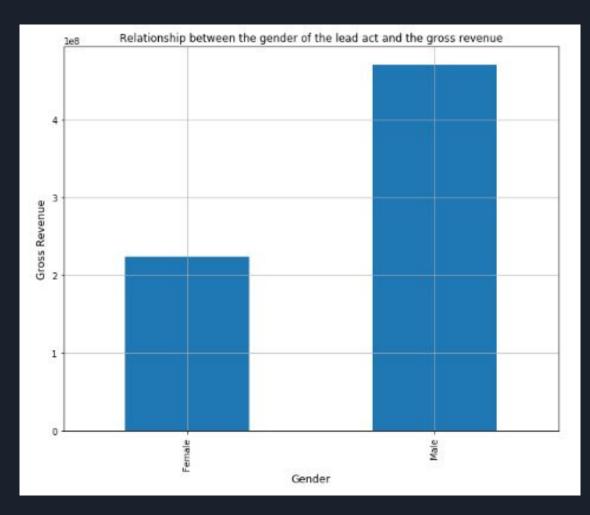
Writers: -0.003943 (Negative)



What's the relationship between the gender of the protagonist in an action movie and the gross revenue of that movie?

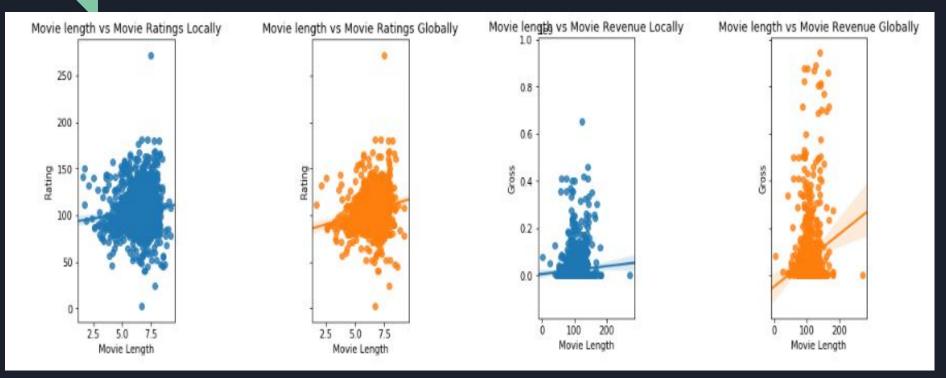
Analysis

Based on this I'll recommend focusing on casting males as the protagonist of action movies. But if casting a female instead, a really solid strategy must be set in place.



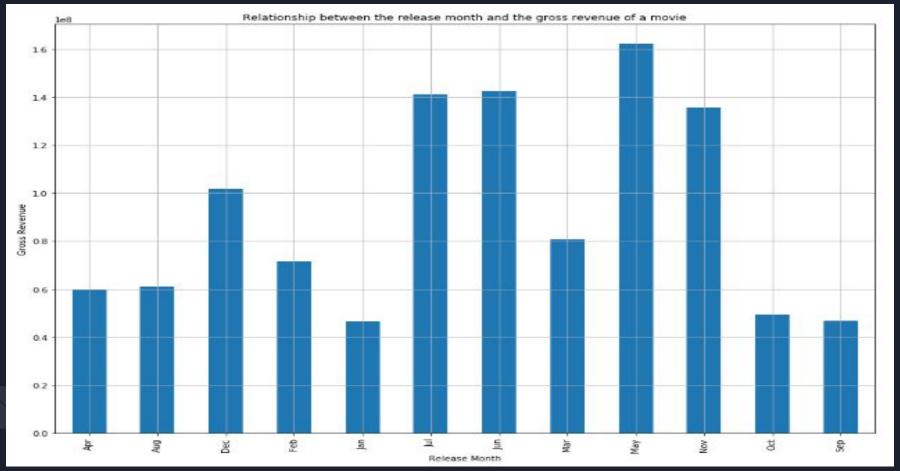
What's the relationship between the length of a movie and the gross revenue/rating of that movie?

Relationship between Movie Length and the Movie Ratings/Revenue



What's the relationship between the movie release month and the gross revenue/rating of a movie?

Highest Grossing Movie Release Months



When your first movie breaks the box office

