

Capstone 2

Data Cleaning Process	Highest Movie Gross of All Time	Highest Grossing Per Year	Most Popular Movies of All Time	Most Critically Acclaimed Movies	Best Movies of All Time	Genre Analysis
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To Begin: This dataset pertains to all the movies found on the website TMDb (The Movie Database). As the original movies dataset obtained from Kaggle contained over 500,000 titles, the overall scope of the project had to be shrunk. Other than a few exceptions, titles seen in this presentation fulfill the following requirements:

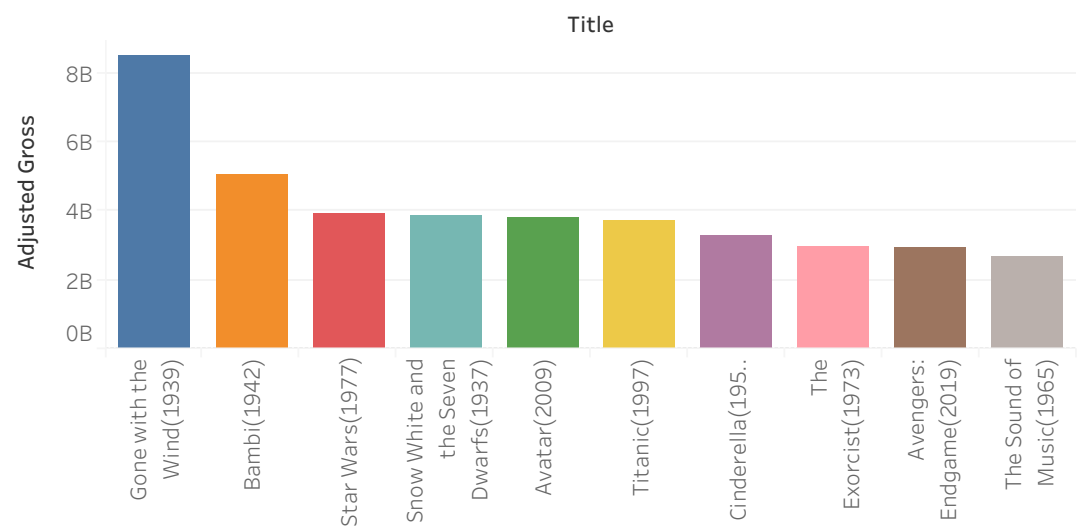
1. Their original release language be in English
2. They must be full length films, meaning their runtime is greater than 40 min
3. They are not films intended for television (i.e. no TV-film genre)
4. They must be made by credited production companies
5. They must have credited actors/actresses

Important Note: While the dataset from Kaggle is consistently updated every week, it was first downloaded for this presentation in mid-May, so extremely current, recently released movies will not be seen in this presentation. Also, gross numbers may not be accurate for movies released in late 2022 to early 2023 that were still in theaters while this presentation was being made.

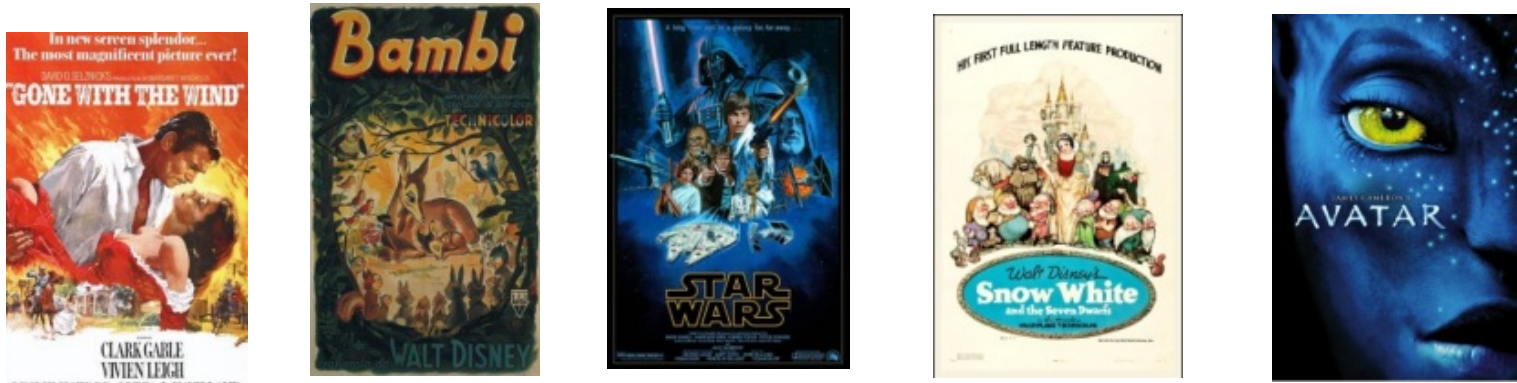
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After adjusting gross profits for inflation, we can see a lot of classic movies (prior to 1980) make the top ten grossers of all time. Each movie has a unique story line from each other



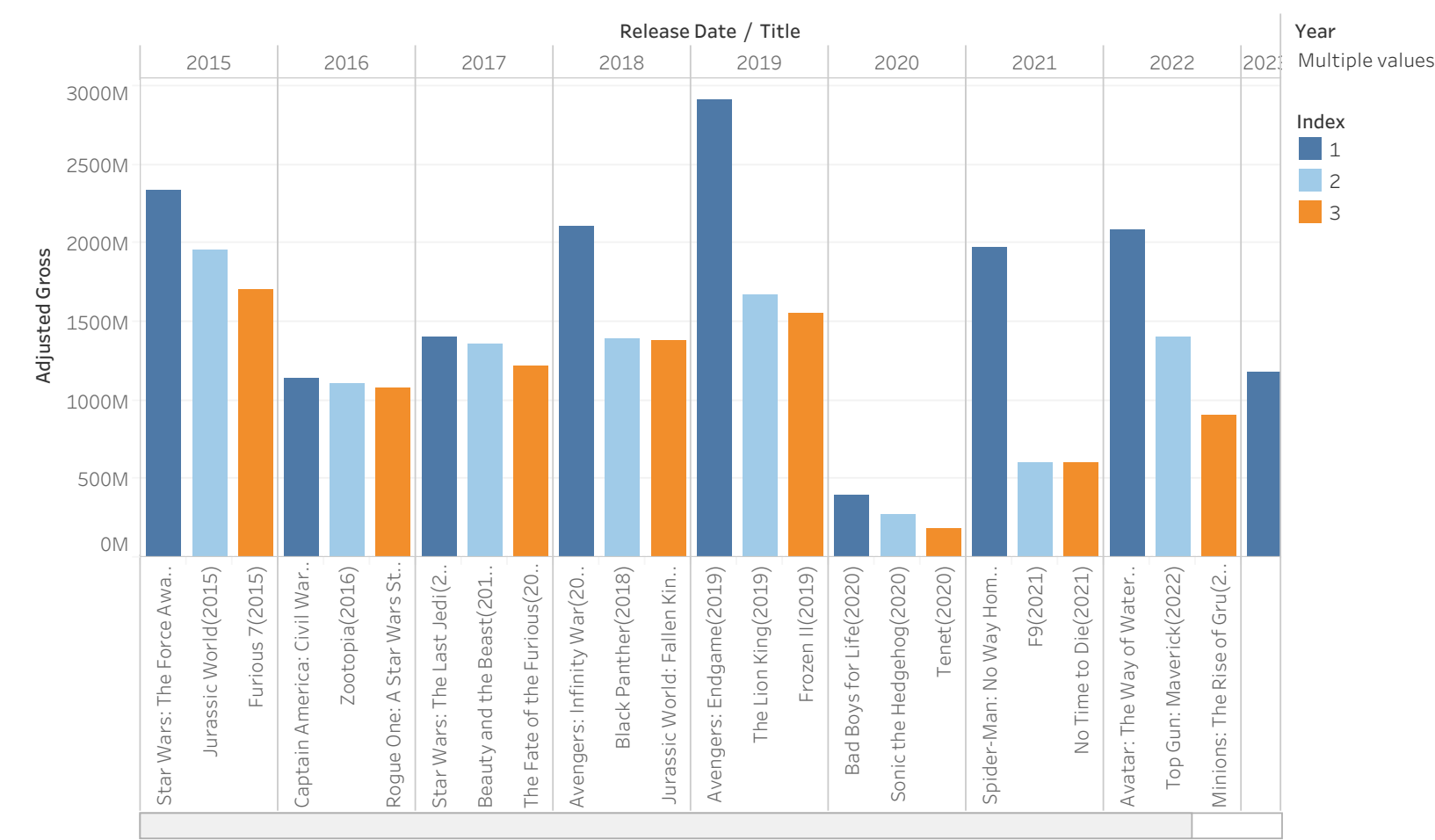
Many of the films in the usable dataframe (~ 87%) had missing budgets and/or revenues. This is because production companies either lose that information over time, or no reputable, reliable data source has that information. Attempts to fill in as much missing information as possible were made but proven to be futile and take too much extra work. The data pertaining to movie gross was eventually accepted for the information that it had



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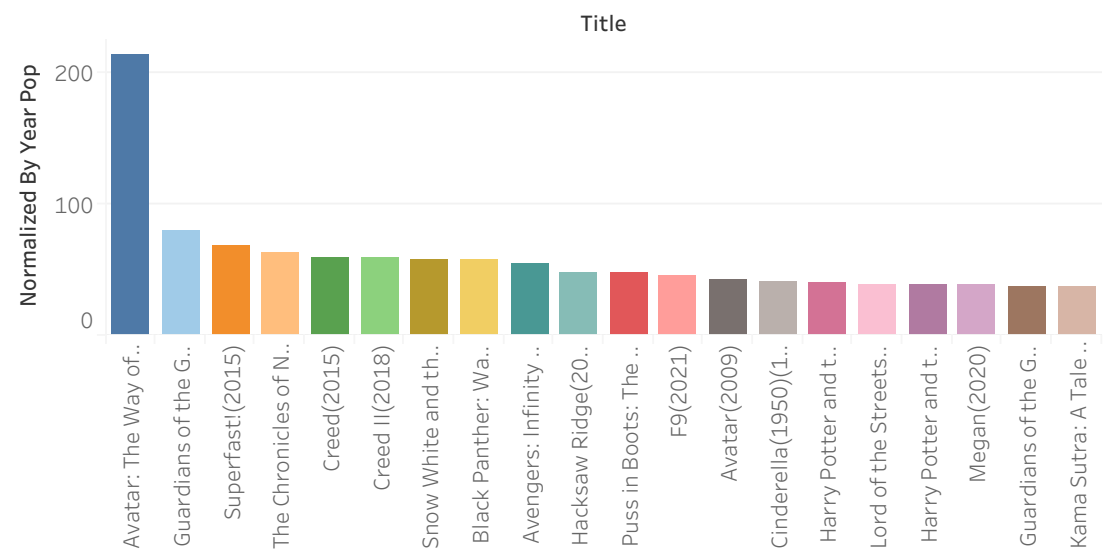
Looking at top three grossing movies per year, we can see a sharp decrease in gross due to the pandemic



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Popular movies are heavily skewed towards more recent movies



The 'Popularity' score on TMDB is calculated on the following criteria: 1) Number of votes for the day. 2) Number of views for the day. 3) Number of users who marked film as a "favorite" for the day. 4) Number of users who added it to their "watchlist" for the day. 5) Release Date. 6) Number of total votes. 7) Previous day's score. It is important to keep in mind that more current movies will be marked as "most popular" but that doesn't mean that it is the most popular **of all time**, nor does it mean that more popular movies according to the data are better than other more cherished movies.



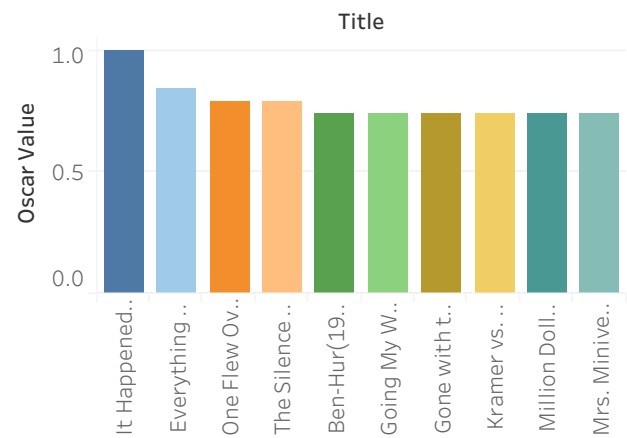
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Highest Movie Gross of All Ti..	Highest Grossing Per Year	Most Popular Movies of All Time	Most Critically Acclaimed Movies	Best Movies of All Time	Genre Analysis	Highest Grossing and Most Popular..
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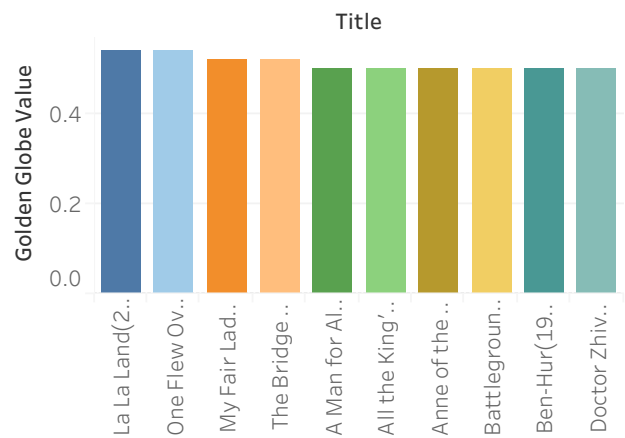
Across all three award ceremonies, movies tend to achieve a fairly even proportion of "important" awards

1st Oscars Awards: 1928
1st Golden Globes: 1947
1st SAG Awards: 1994

Top 10 Oscar Winners



Top 10 Golden Globe Winners



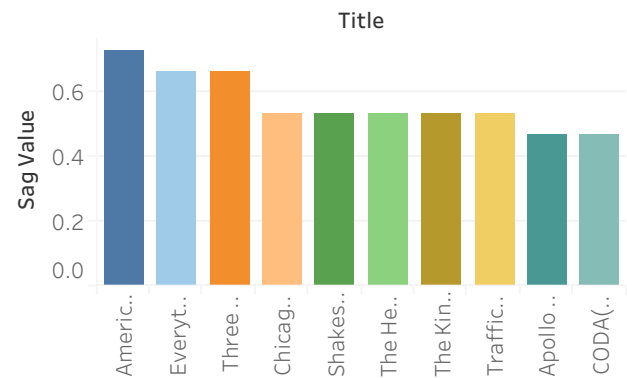
Possible Awards for Oscars:

- Best Actor
- Best Actress
- Best Supporting Actor
- Best Supporting Actress
- Best Direction
- Best Picture

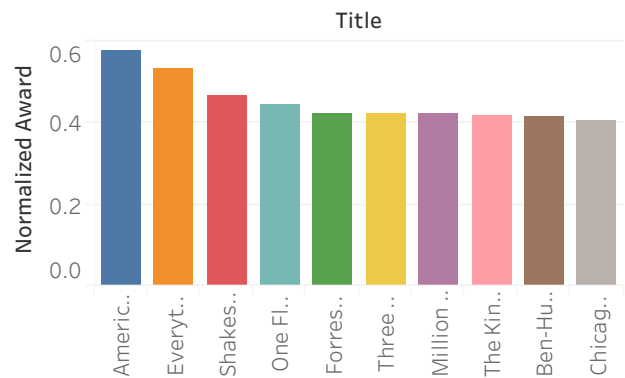
Possible Awards for Golden Globes:

- Best Actor (Music/Comedy or Drama)
- Best Actress (Music/Comedy or Drama)
- Best Direction (Music/Comedy or Drama)
- Best Picture (Music/Comedy or Drama)
- Best Screenplay

Top 10 SAG Winners



Most Critically Acclaimed



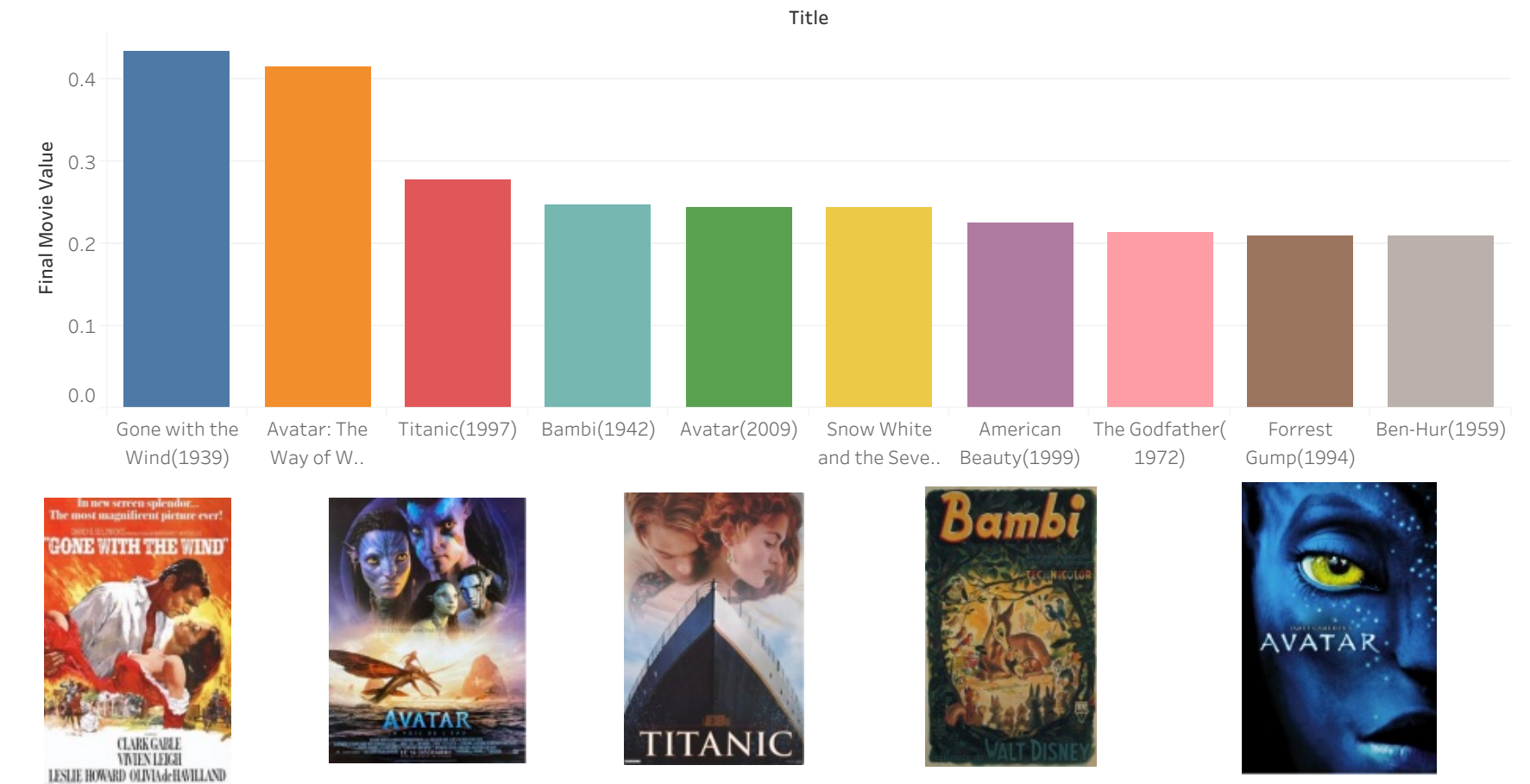
Possible Awards for SAG:

- Best Actor
- Best Actress
- Best Supporting Actor
- Best Supporting Actress
- Best Picture

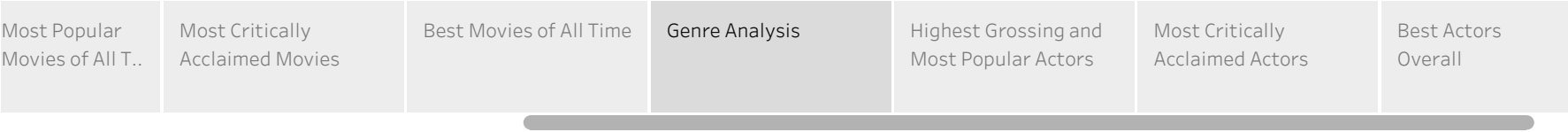
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Highest Grossing Per Y..	Most Popular Movies of All Time	Most Critically Acclaimed Movies	Best Movies of All Time	Genre Analysis	Highest Grossing and Most Popular Actors	Most Critically Acclaimed Actors
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After considering adjusted gross, popularity, and awards won, the final top ten best movies of all time have a decent mix of classic movies and current ones

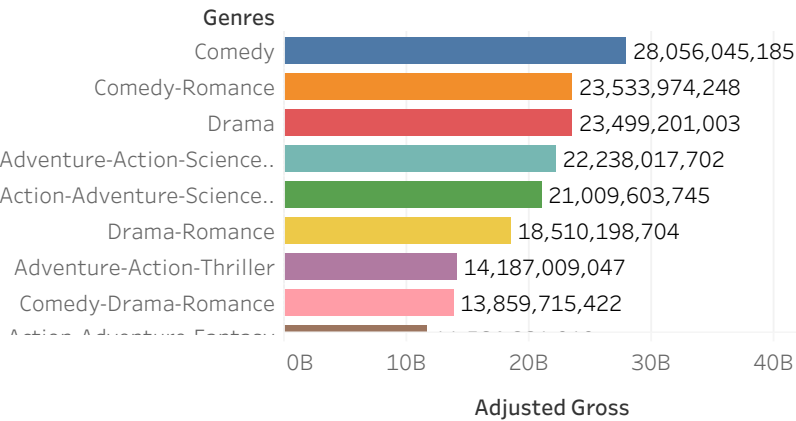


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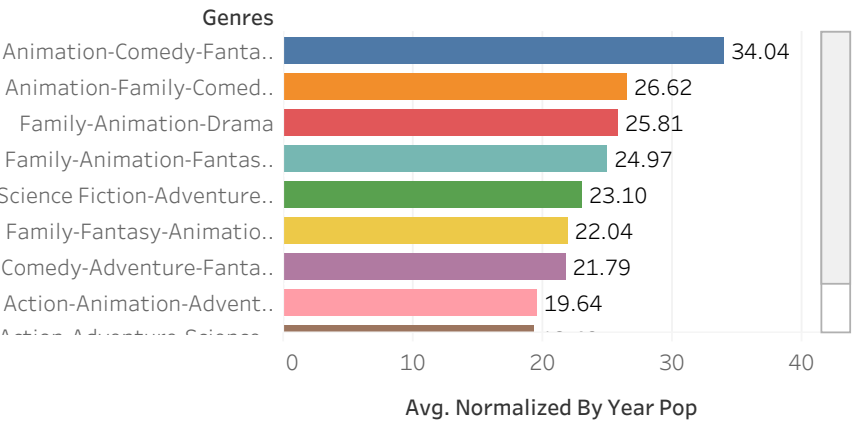


Production companies have a wide range of different genres to focus on to achieve different goals i.e. making the most money, making popular movies and winning the m..

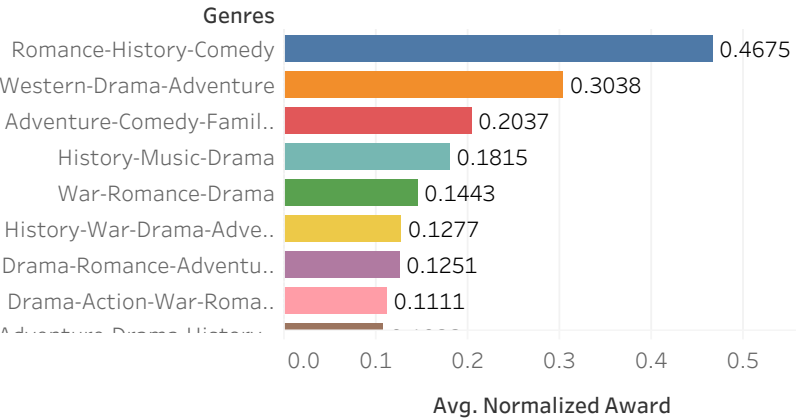
Top Grossing Genres



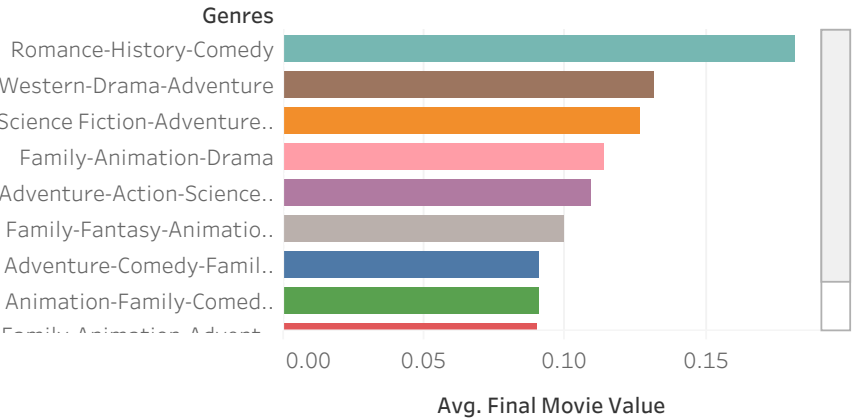
Most Popular Genres



Top Award Winning Genres



Top Overall Genres

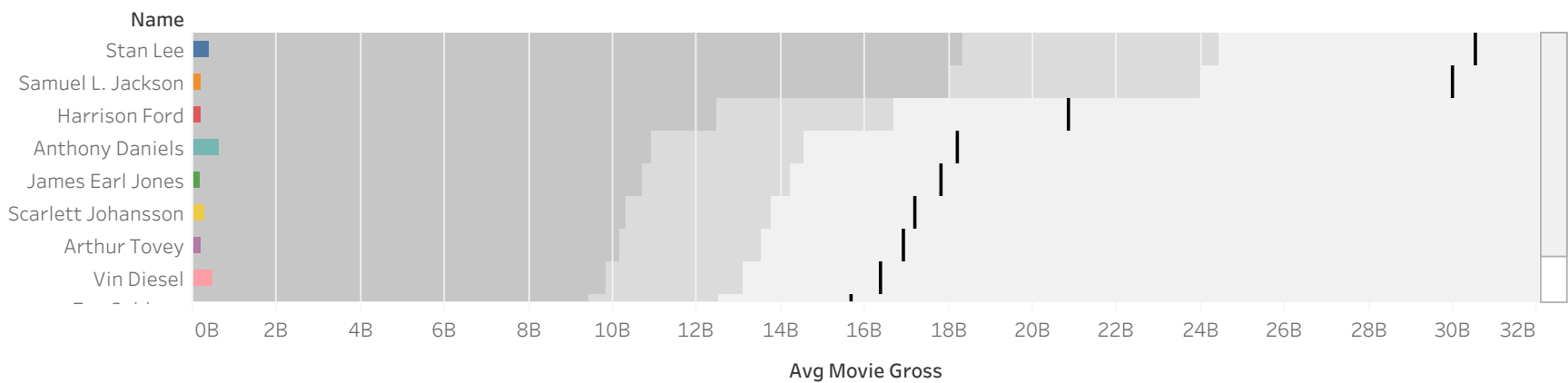


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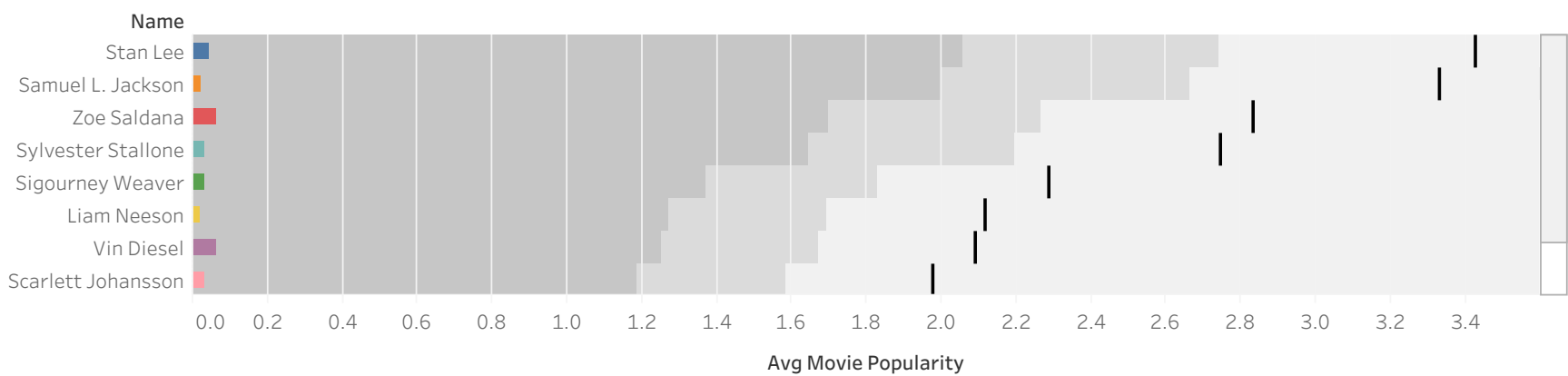
Most Popular ..	Most Critically Acclaimed Movies	Best Movies of All Time	Genre Analysis	Highest Grossing and Most Popular Actors	Most Critically Acclaimed Actors	Best Actors Overall
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For casting purposes, higher grossing actors will typically be associated with movie franchises. A popular actor doesn't have to be in a movie franchise but it certainly gives them an edge

Highest Grossing Actors



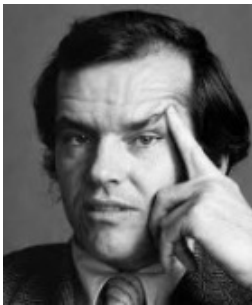
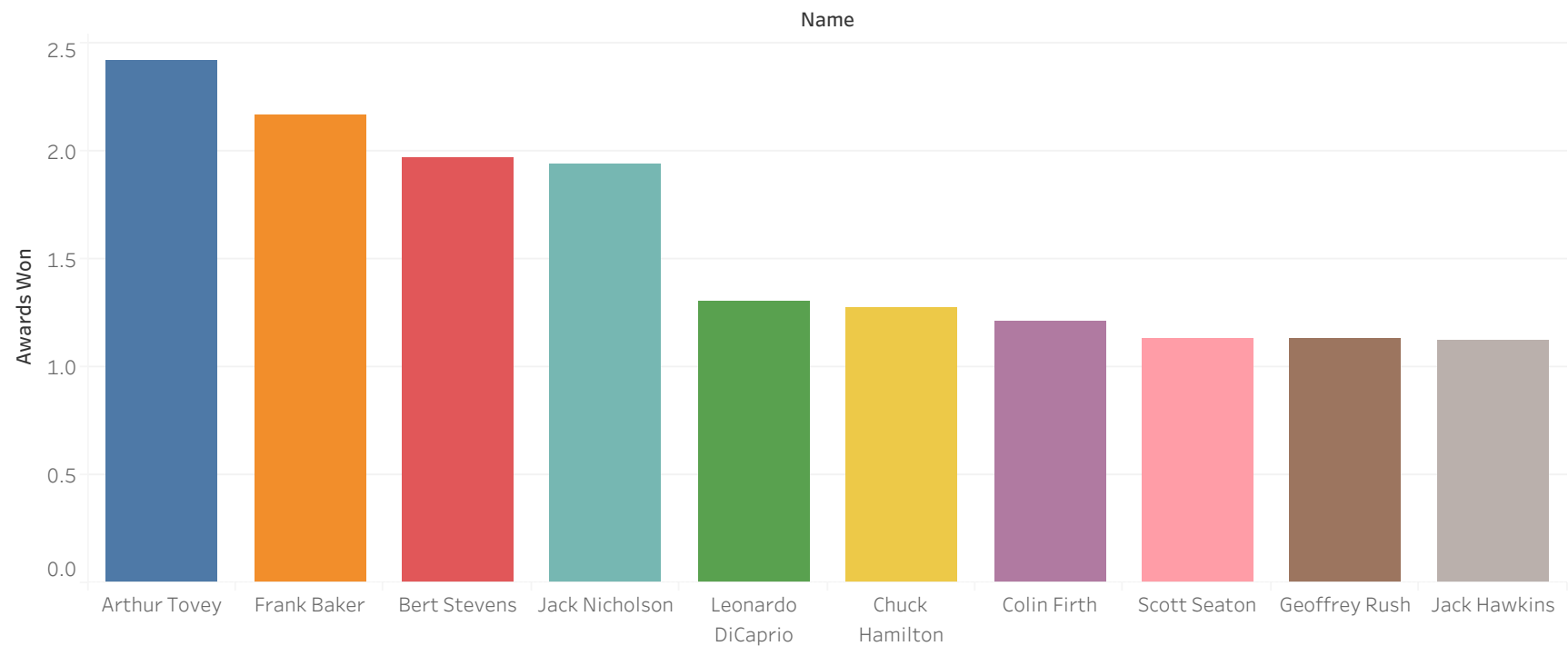
Most Popular Actors



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Most Popular ..	Most Critically Acclaimed Movies	Best Movies of All Time	Genre Analysis	Highest Grossing and Most Popular Actors	Most Critically Acclaimed Actors	Best Actors Overall
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For award winning actors, we begin to see bit actors and extras are most associated with award winning movies



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We see here that there are two approaches to being successful as an actor, meaning you are able to live off of what you make as an actor

