IMDb & Rotten Tomatoes

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Motivation

I have noticed and experienced within my own family that one movie reviewing site is exclusively used because they trust it more than other the alternatives. There are two major movie scoring sites: IMDb and Rotten Tomatoes. This drove me to investigate what the differences in movie scoring existed between IMDb and Rotten Tomatoes and analyze findings about the movies as well.

Sources

- **IMDb Top 250 Movies**
- **Rotten Tomatoes**
- **Motion Picture Association (MPA)**

Technologies

- **Python**
  - Webscraped
  - Analyzed Data
  - Jupyter Notebook Visuals
- **PowerBI Dashboard**

General Information

I am analyzing IMDb's Top 250 Movies list with Rotten Tomatoes ratings. Since IMDb has classified these movies as the top rated movies, one might expect, if the two scoring sites are similar, Rotten Tomatoes to have the same positive response to these movies.

Important Notices

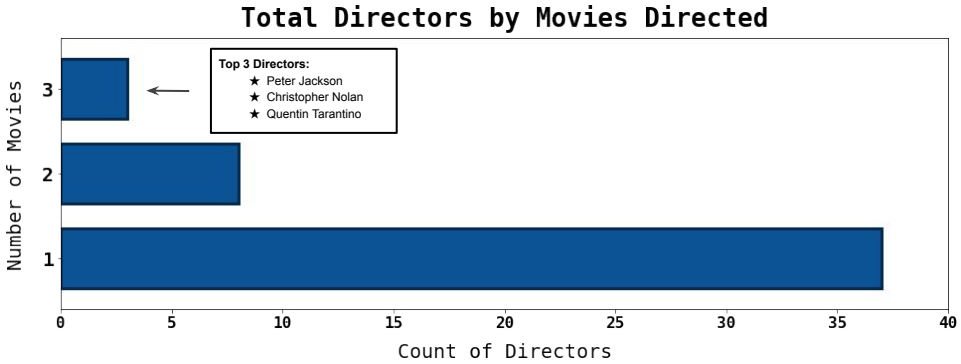
Rotten Tomatoes and IMDb Scoring System
Rotten Tomatoes separates critics and audience scores (both a percentage of 100). Because IMDb does not include or have its own critics score, I will only be using audience scores.. Also, IMDb is scored on the scale of 1 to 10 stars, and I made this into a percentage to accurately compared the two sites.

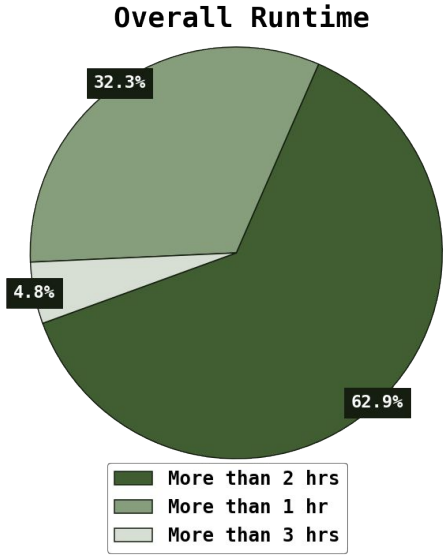
Language
For original languages, there are specific dialects or country-specific classification for a common mother tongue. Such as French (France) and French (Canada) or English and English (United Kingdom). In any such instances, I combined them into 'French' or 'English' for simplicity.

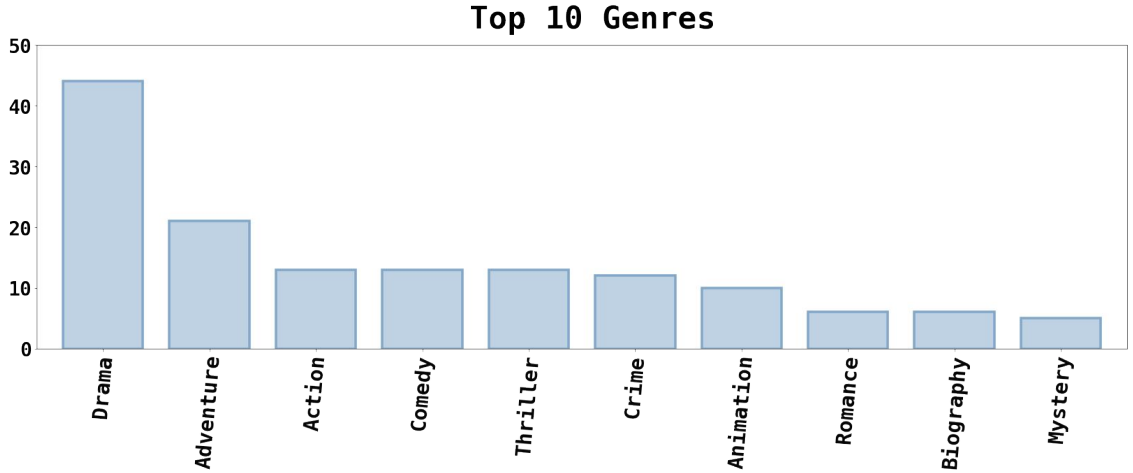
Ratings
Before the modern MPA rating system for movies, there was the Hayes' Code which basically only decided if a movie was deemed moral or immoral for general audiences. Thus, older movies in this list will have an "approved" or "passed" classification to mean they passed the Hayes' Code at that time. The two classifications have been combined to be "approved."

Genre
The genre count could be higher than 250 because movies have more than one.

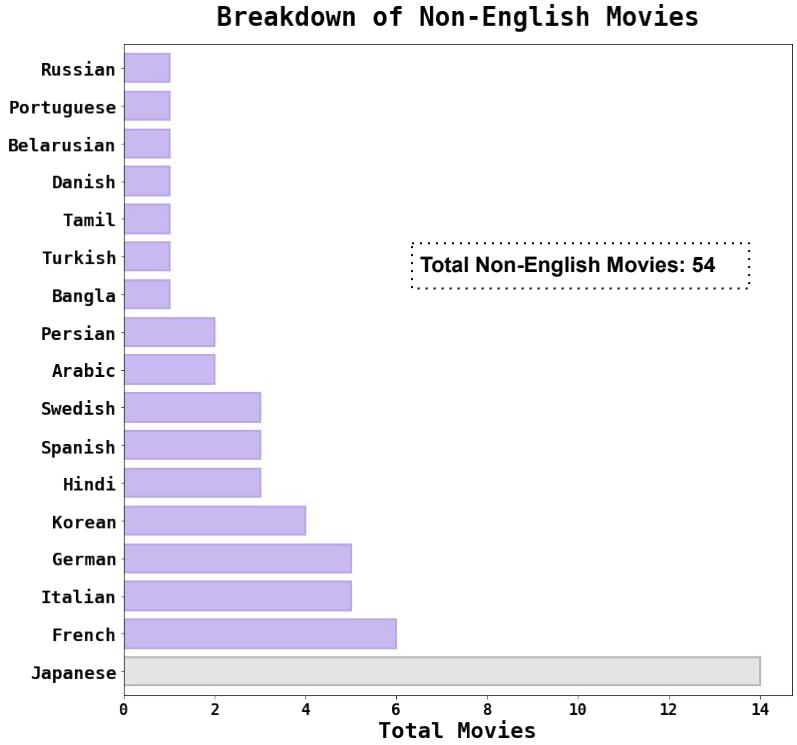
Top 25% of Award Winning Movies

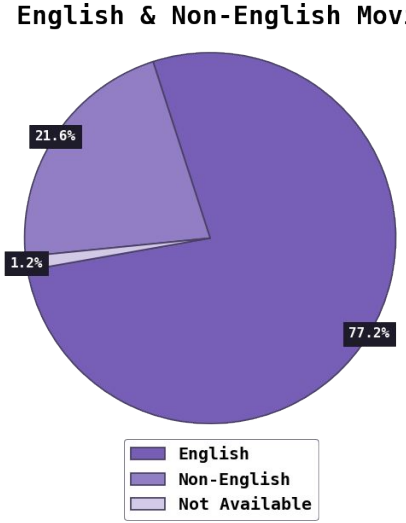






Language

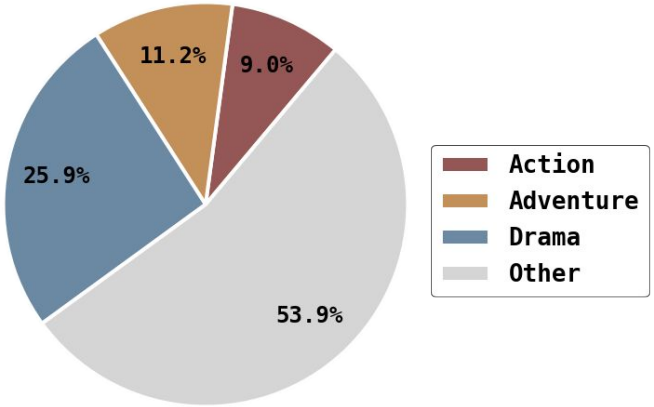

Breakdown of Non-English Movies
Russian
Portuguese
Belarusian
Danish
Tamil
Turkish
Bangla
Persian
Arabic
Swedish
Spanish
Hindi
Korean
German
Italian
French
Japanese
Total Non-English Movies: 54
0
2
4
6
8
10
12
14
Total Movies


English & Non-English Movies
21.6%
1.2%
77.2%
English
Non-English
Not Available

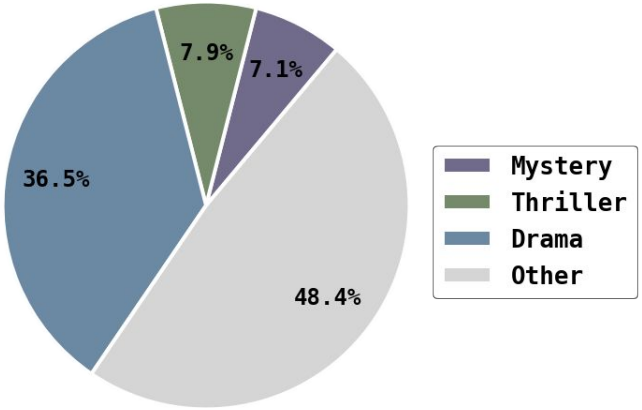
Language Continued...

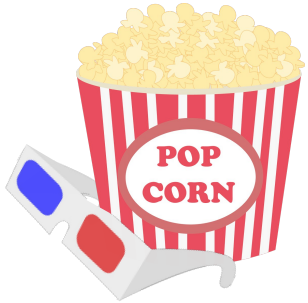
Top 3 Genres

English



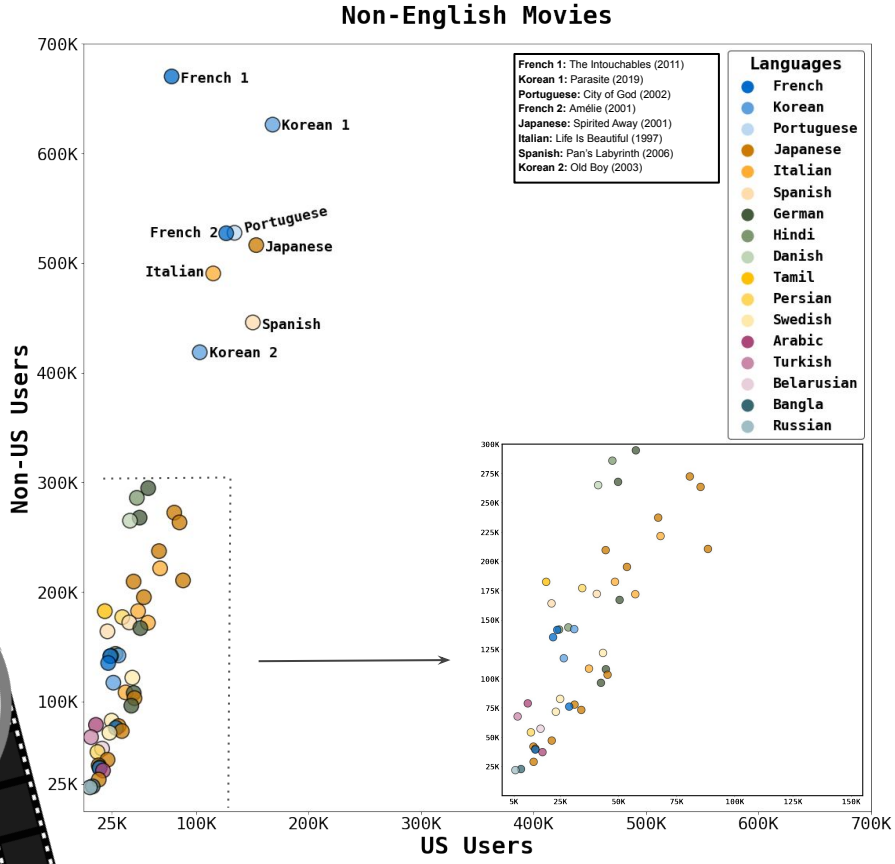
Non-English

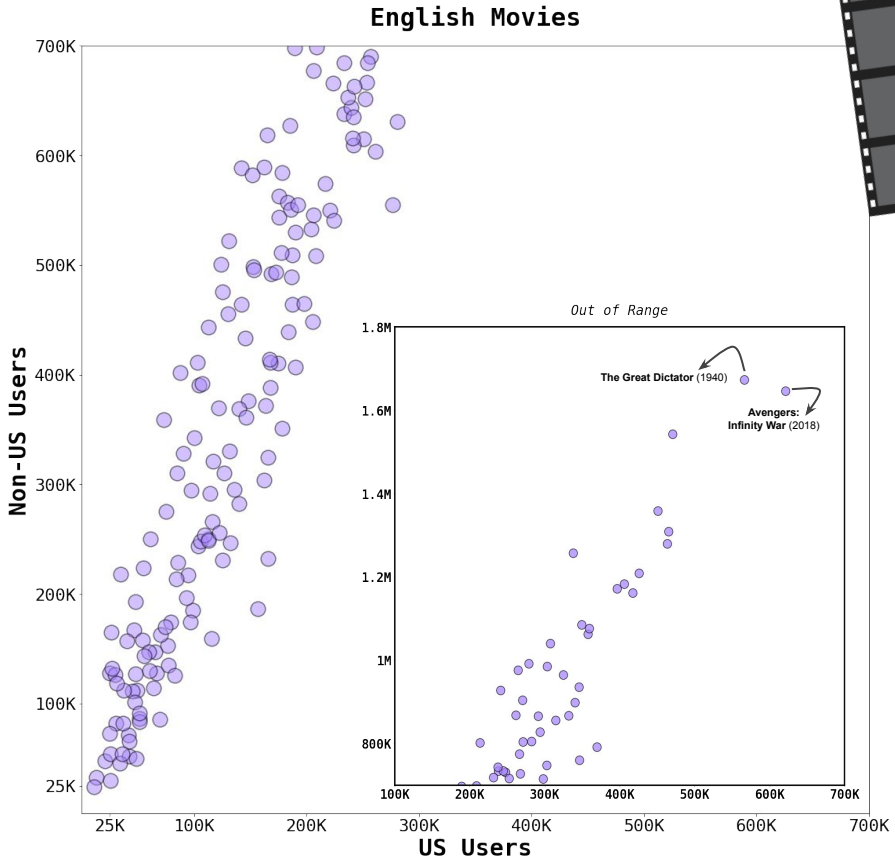




US v Non-US

IMDb Reviewers





THE 3 ‘R’S

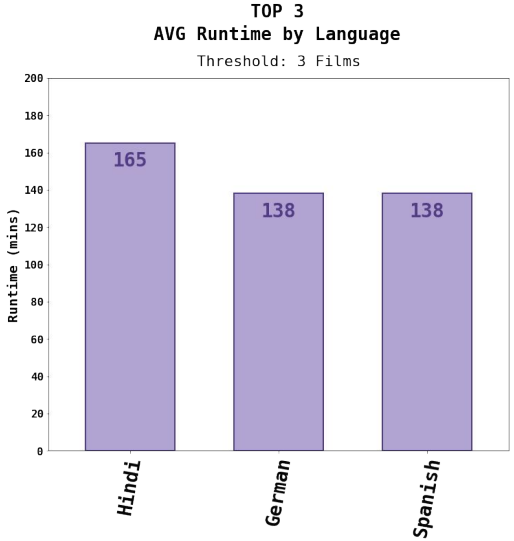
RUNTIME

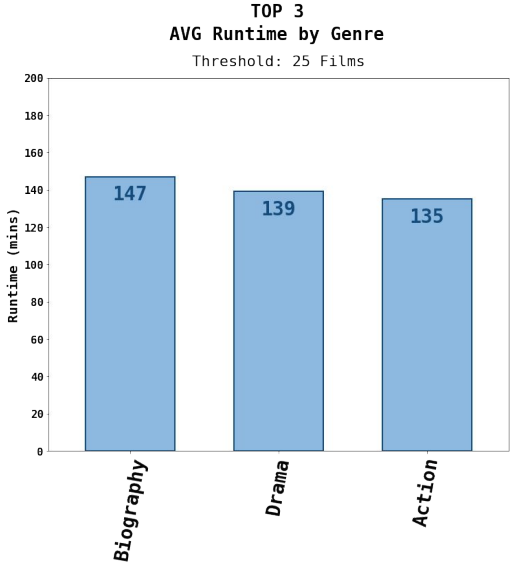
RELEASE

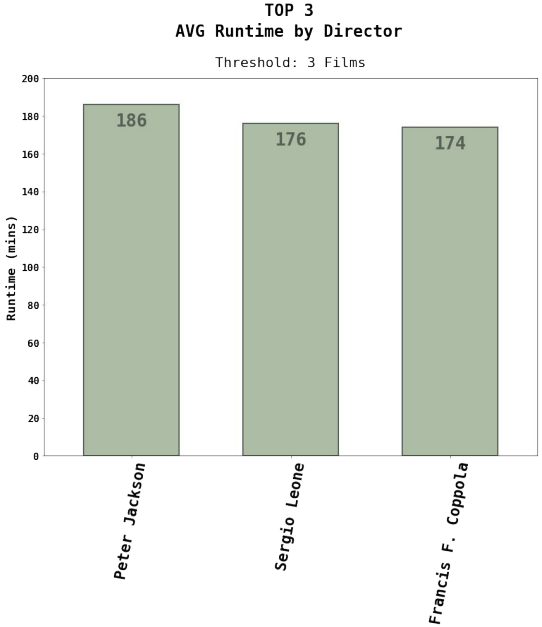
RATING

Runtime

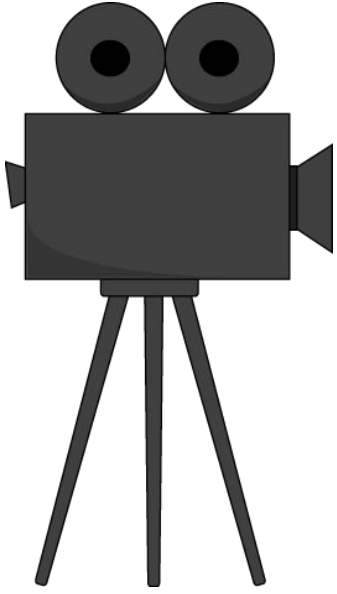
Average Runtime	129 mins	**Longest Movie**	238 mins *Gone with the Wind (1924)*	**Shortest Movie**	45 mins *Sherlock Jr. (1924)*





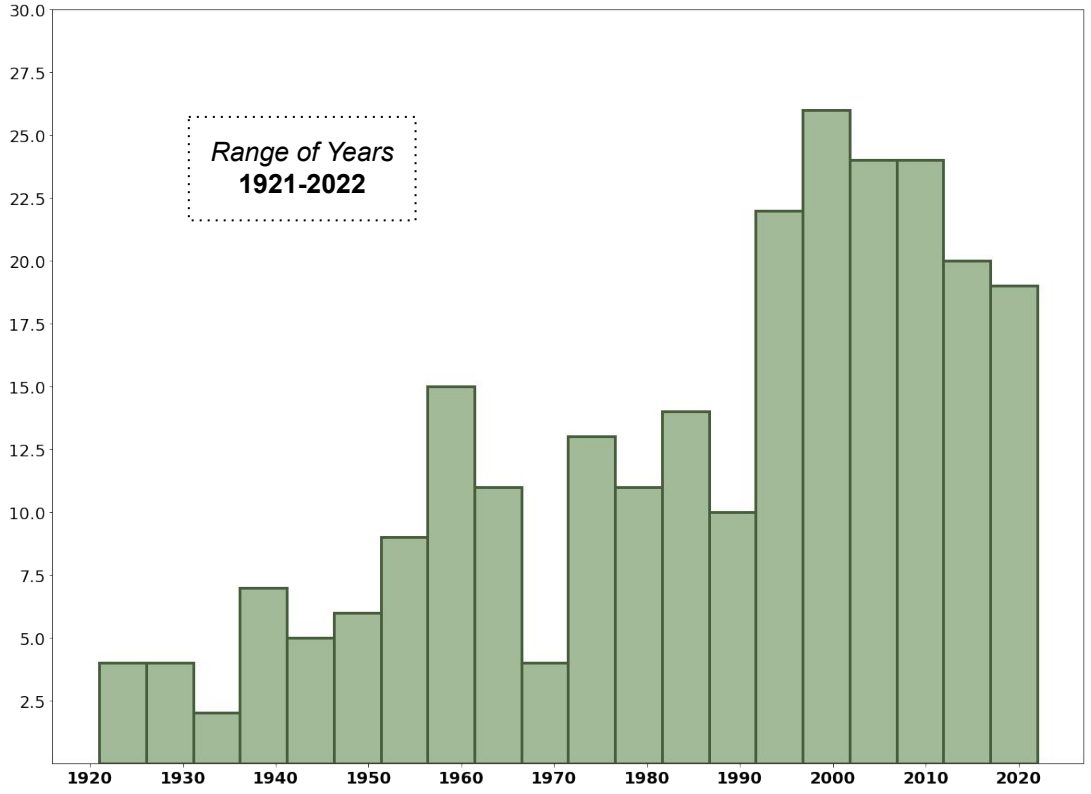


Release

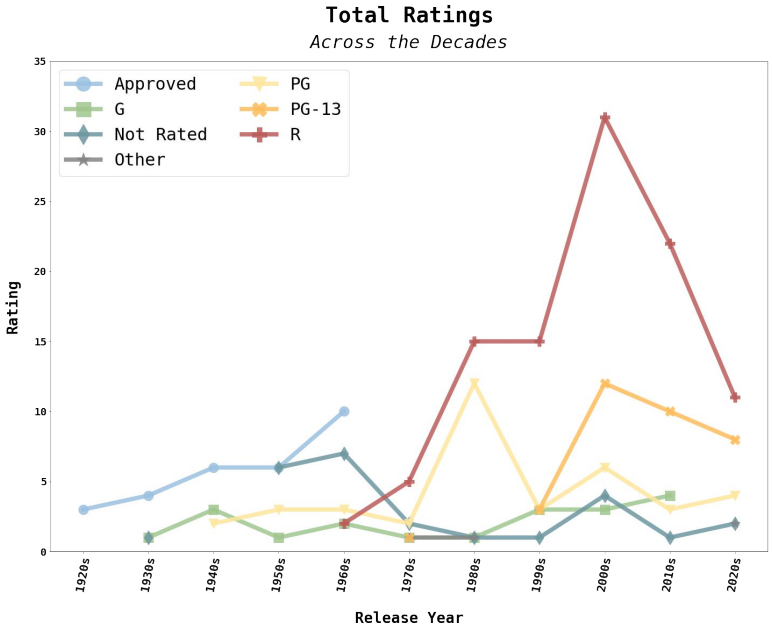


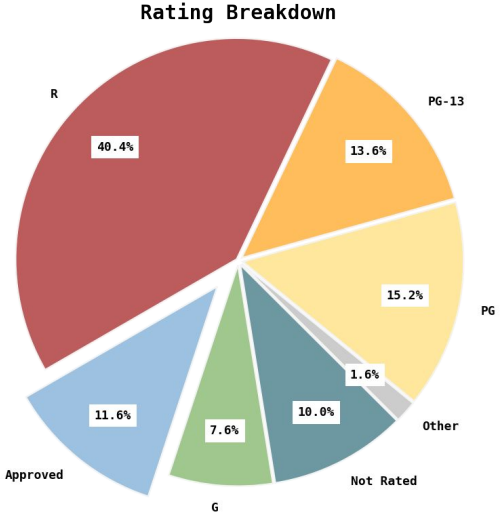
DISTRIBUTION

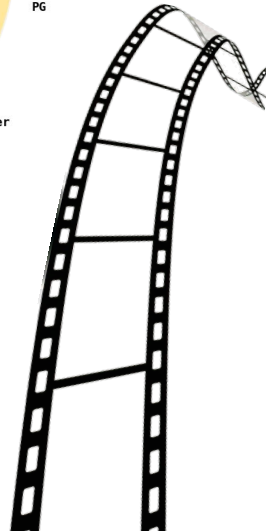
Movie Release Years through the Decades



Rating

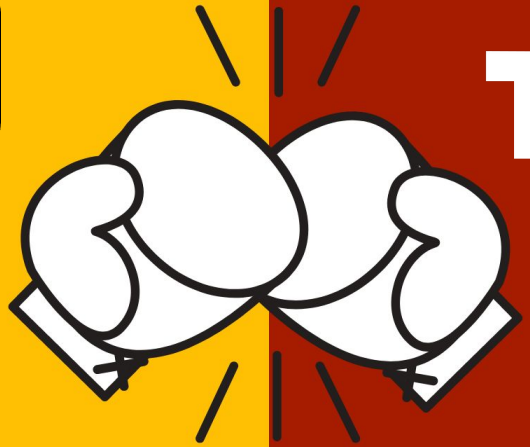

Total Ratings
Across the Decades
Approved
G
Not Rated
Other
PG
PG-13
R
Rating
Release Year
0
5
10
15
20
25
30
35
1920s
1930s
1940s
1950s
1960s
1970s
1980s
1990s
2000s
2010s
2020s


Rating Breakdown
R
PG-13
PG
Other
Not Rated
G
Approved
40.4%
13.6%
15.2%
1.6%
10.0%
7.6%
11.6%



SHOWDOWN

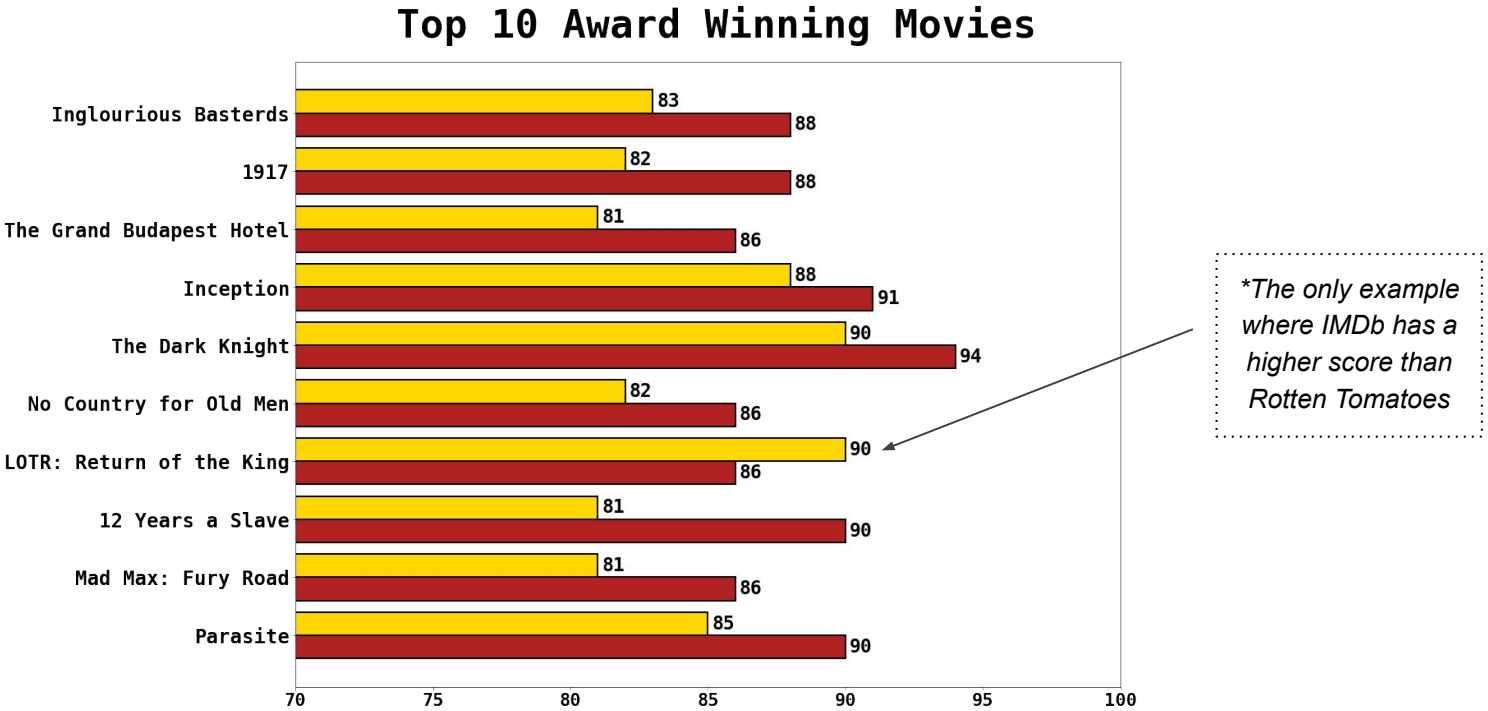
IMDb

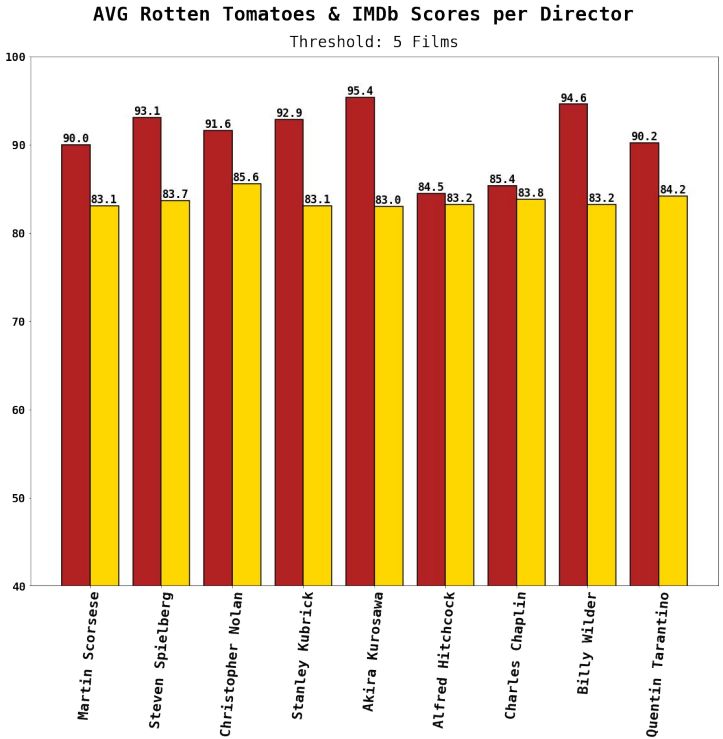


Rotten Tomatoes

Award Winning

- **Greatest Difference:** 12 Years a Slave 9%
- **Least Difference:** *Inception 3%
- **Highest Rotten Tomatoes:** The Dark Knight 94%
- **Highest IMDb:** The Dark Knight & LOTR (tie) 90%



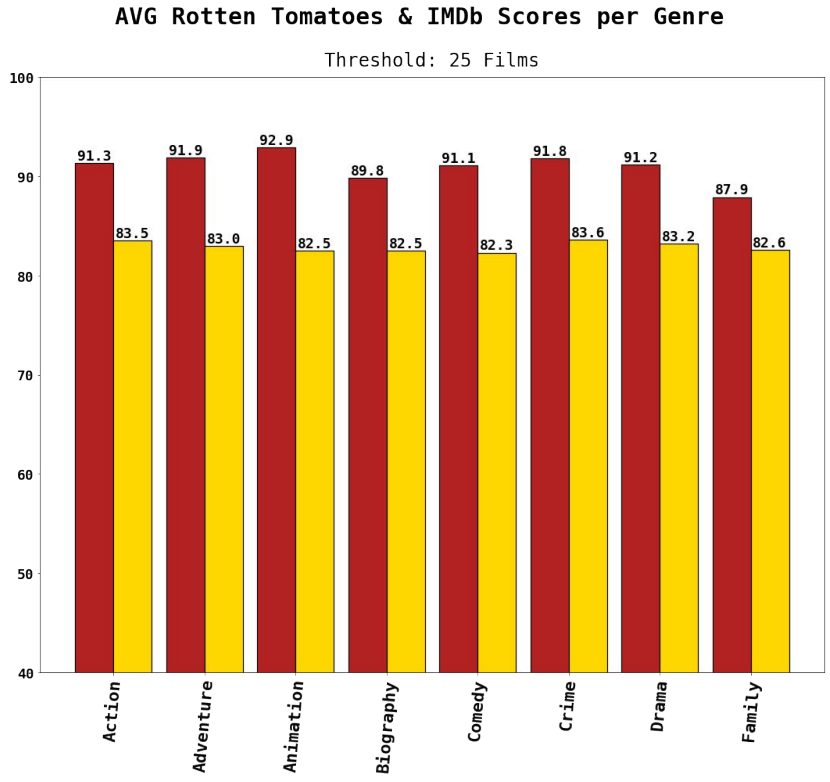


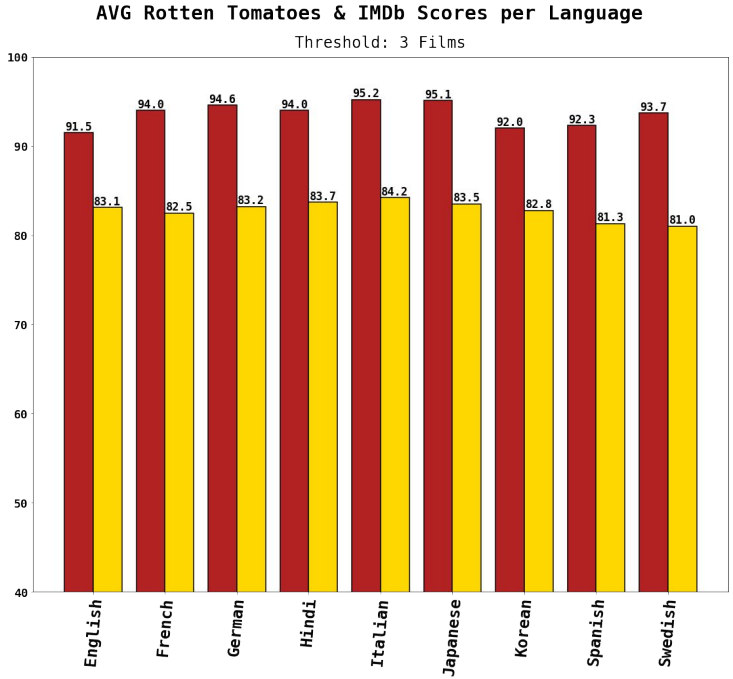
Director

- **Greatest Difference:** Akira Kurosawa 12.4%
- **Least Difference:** Alfred Hitchcock 1.3%
- **Highest Rotten Tomatoes:** Akira Kurosawa 95.4%
- **Highest IMDb:** Christopher Nolan 85.6%

Genre

- **Greatest Difference:** Biography 9.4%
- **Least Difference:** Family 6.4%
- **Highest Rotten Tomatoes:** Action 92.0%
- **Highest IMDb:** Crime 83.6%





Language

- **Greatest Difference:** Swedish 12.7%
- **Least Difference:** English 8.4%
- **Highest Rotten Tomatoes:** Italian 95.2%
- **Highest IMDb:** Italian 84.2%

FINAL ANALYSIS

	IMDb	Rotten Tomatoes
PRO	**More Detailed** **Breakdown of Reviewers** **& IMDb Pro**	**Critic & Audience Scores**
CON	**No Critic Scores (uses Metascore)**	**Contains More Errors** i.e. Typos, Incomplete Information **& Review Counts Not Exact**

…and the winner is…

Thank You

US Box Office

- **Area graph with middle being the average gross and which movies maded above or below this through the decades(beased on release year)**

Directors

Create line chart with top 3 directors and see awards won with each additional movie made