



# Filmweb Movie Analysis

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# Project Overview

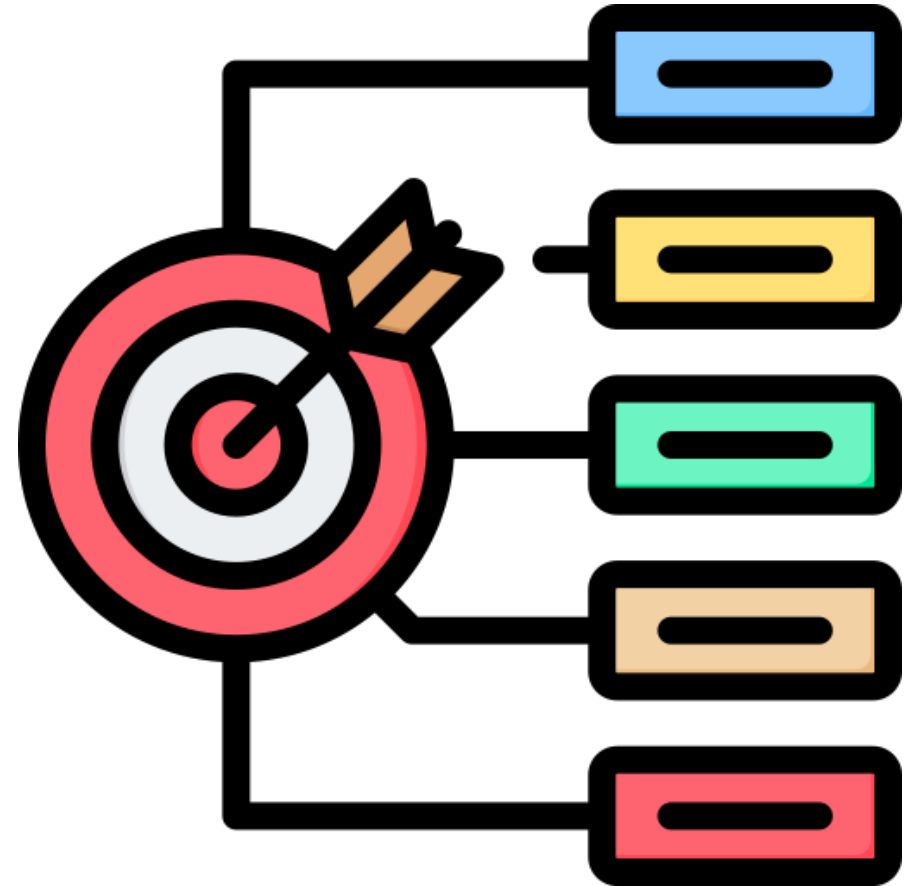
- Analyzing data from the top 500 movies listed on Filmweb, a leading Polish film platform. The dataset was collected via web scraping and serves as the basis for uncovering trends and insights in the film rankings.



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# Objectives

- Identify prevailing trends shaping the film industry through audience ratings and reviews
- Examine which genres consistently receive the highest acclaim from viewers
- Contrast the opinions and preferences of general users with those of professional critics
- Highlight the most popular films and filmmakers that resonate strongly with the audience



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# Methodology

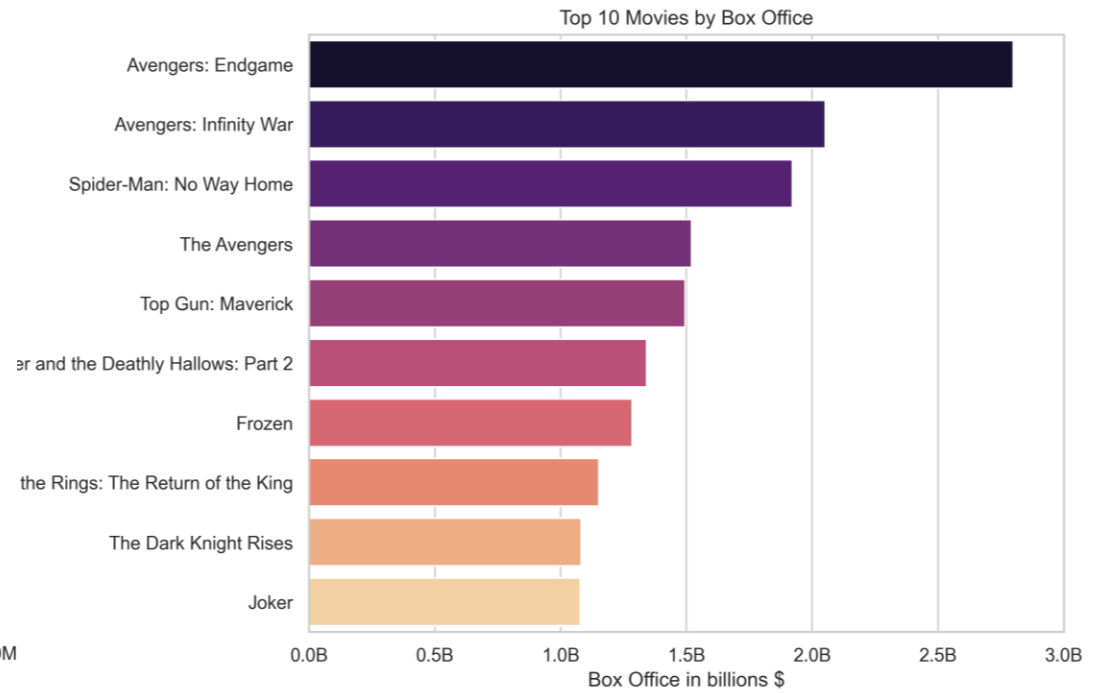
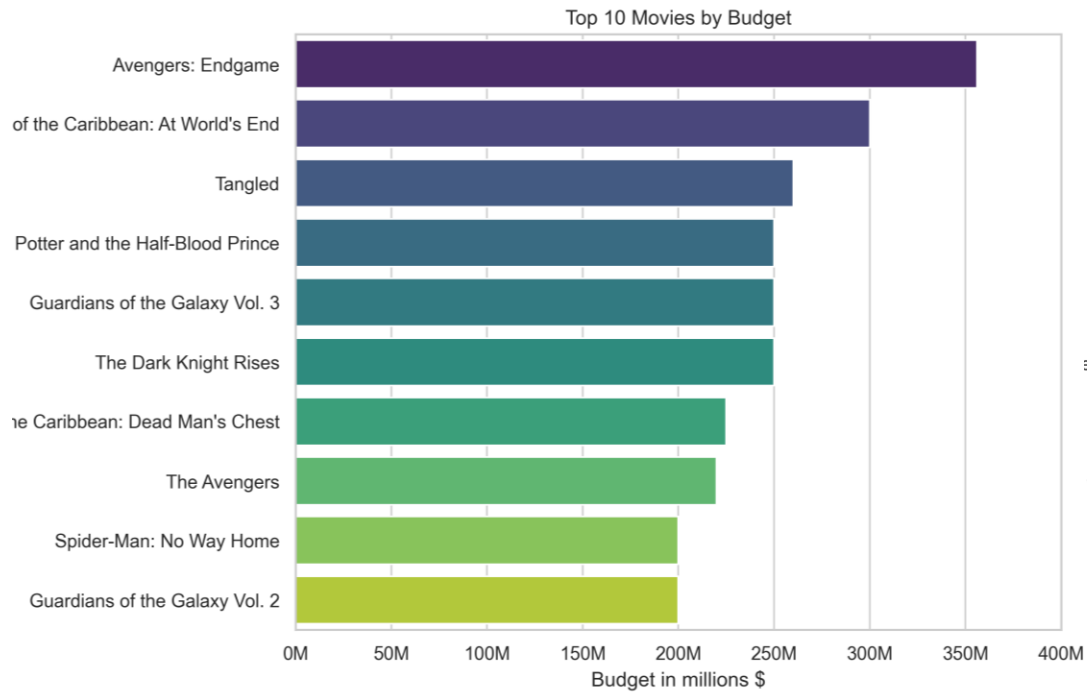
The project was built using **Python**, with the dataset created by web scraping the top 500 movies from Filmweb. The scraped data was exported to a CSV file for analysis. For data exploration and visualization, libraries such as **Pandas**, **Matplotlib**, **Seaborn**, and **Plotly Express** were used. Development took place in **Visual Studio Code** and **Jupyter Notebook**, providing an interactive and flexible environment.



# Key Visualizations

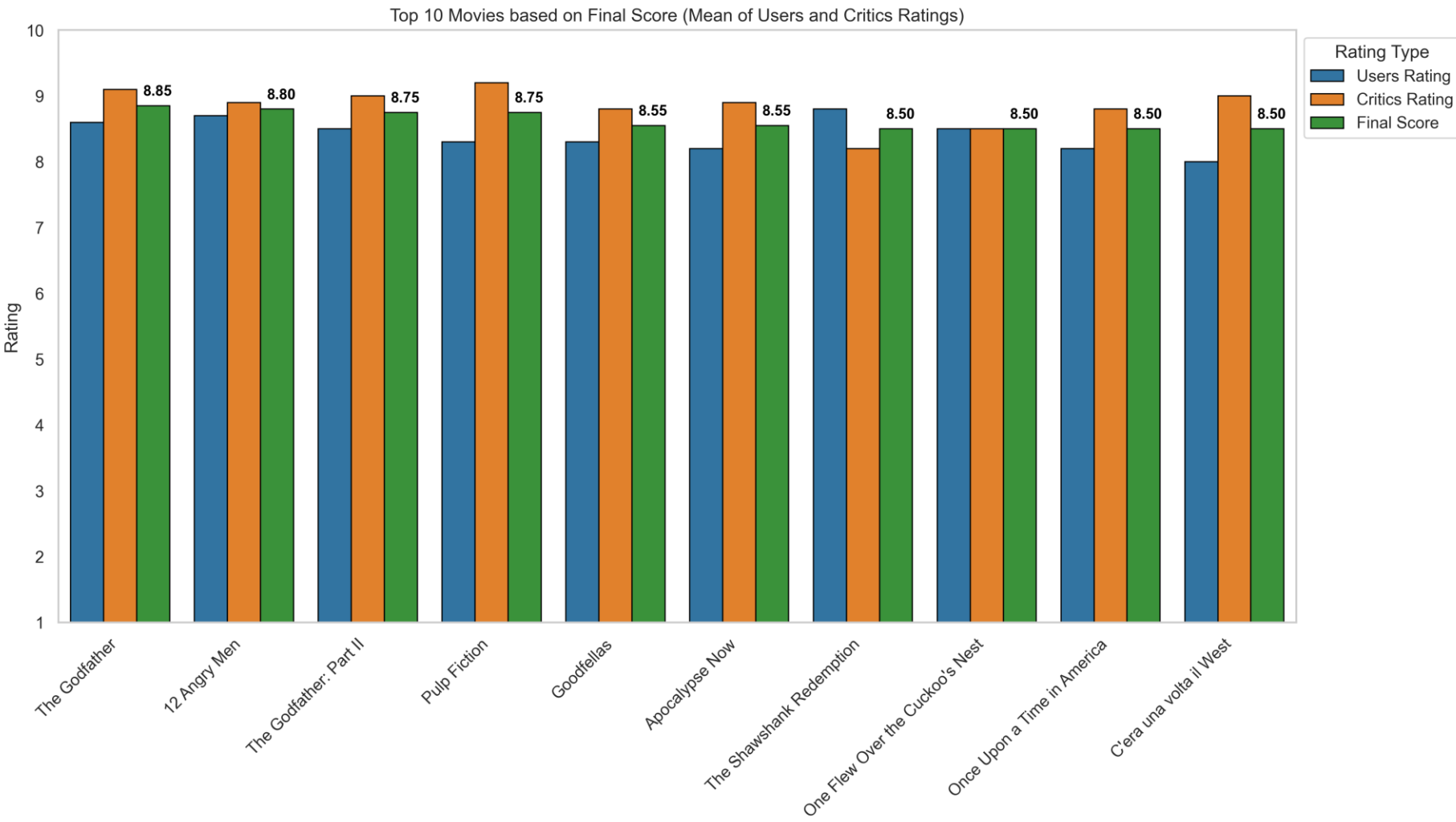
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# Leading Titles by Budget, Revenue & Rating

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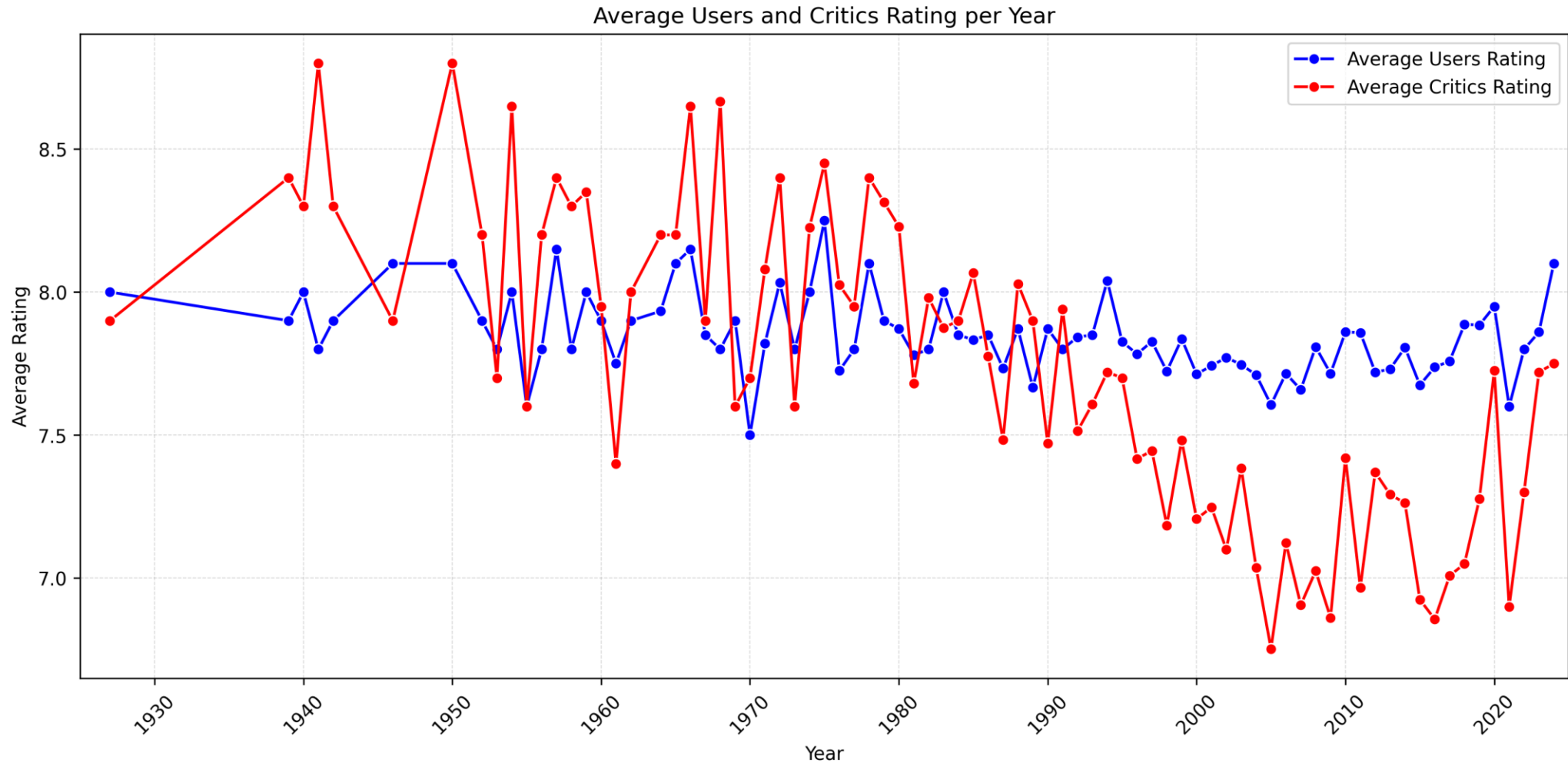
# Leading Titles by Budget, Revenue & Rating Insights & Implications

- The Marvel Cinematic Universe dominates the Box Office rankings, occupying the top four positions. *Avengers: Endgame* leads both in terms of budget and box office revenue.
- The highest-grossing and most expensive films tend to be recent releases, frequently belonging to **superhero franchises**, **fantasy** genres, or **animated** films. In contrast, the best-rated movies are often classic films produced throughout the 20th century.
- *The Godfather* stands out as the highest-rated film when considering the combined scores from both users and critics on Filmweb.

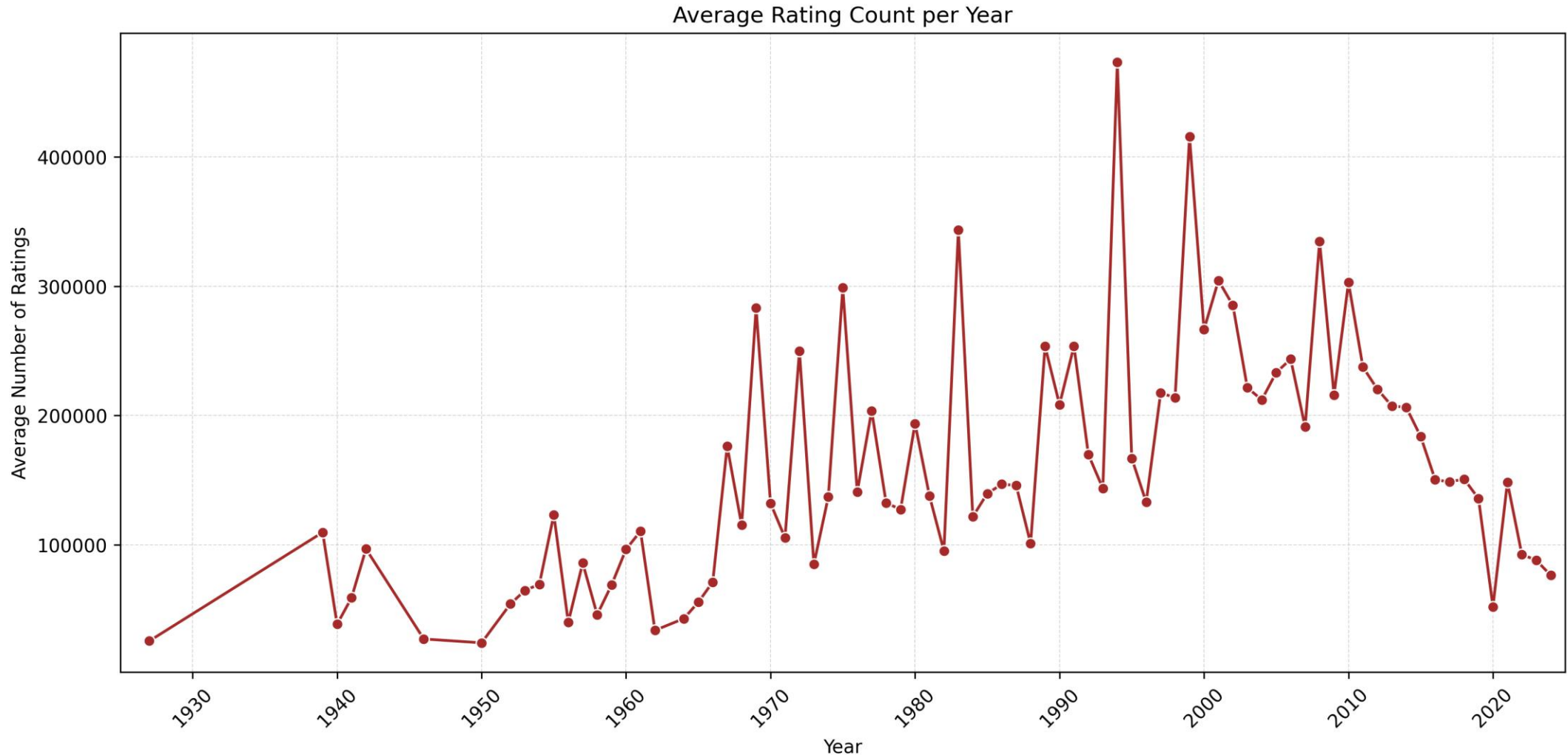




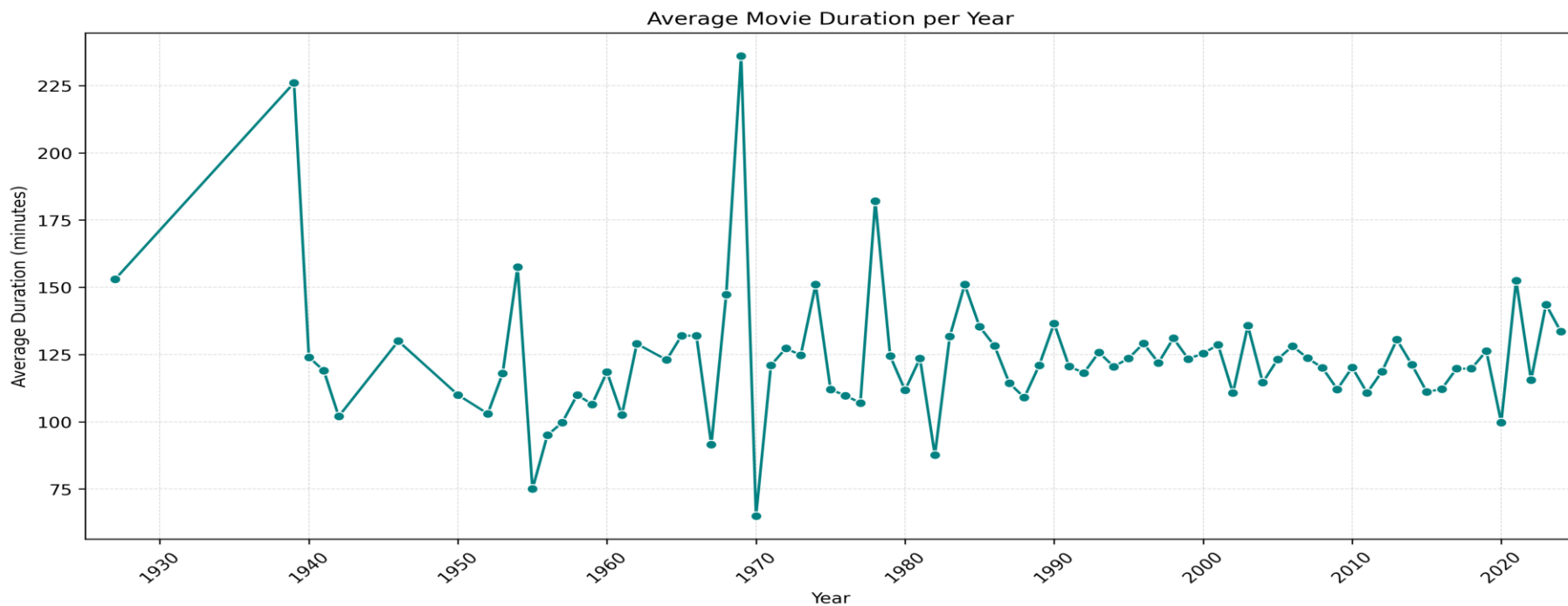
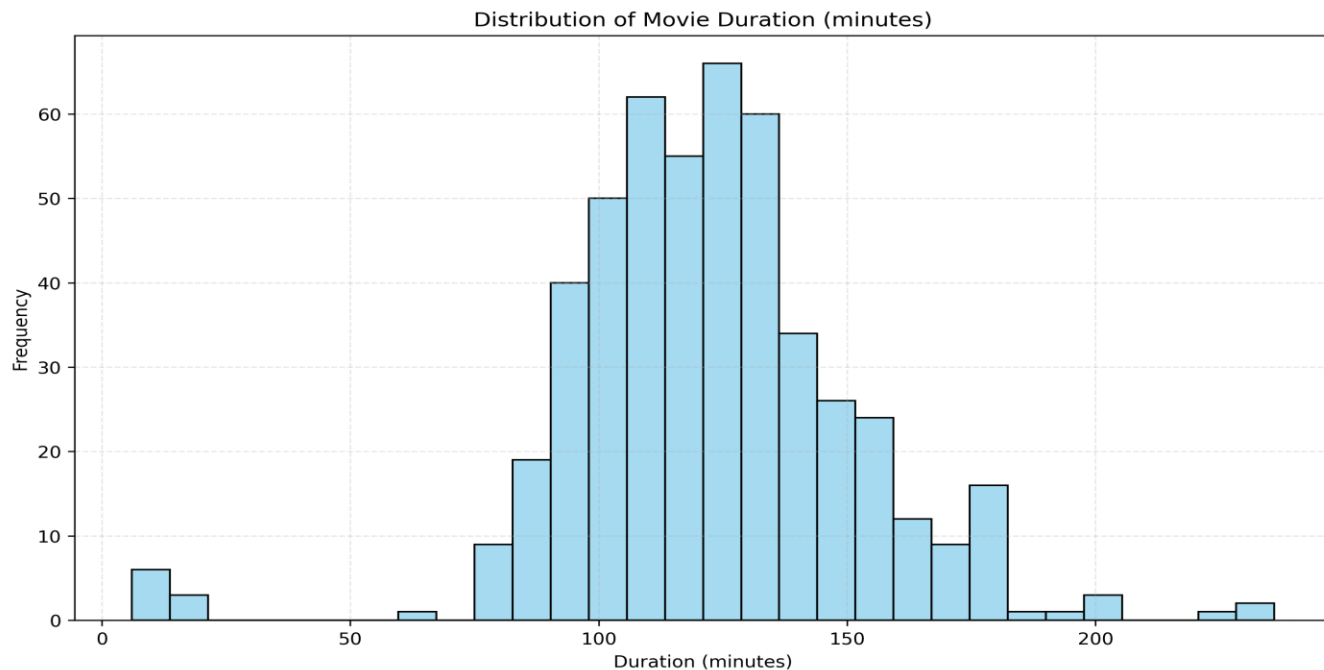
# The Evolution of Top Movies Through the Decades



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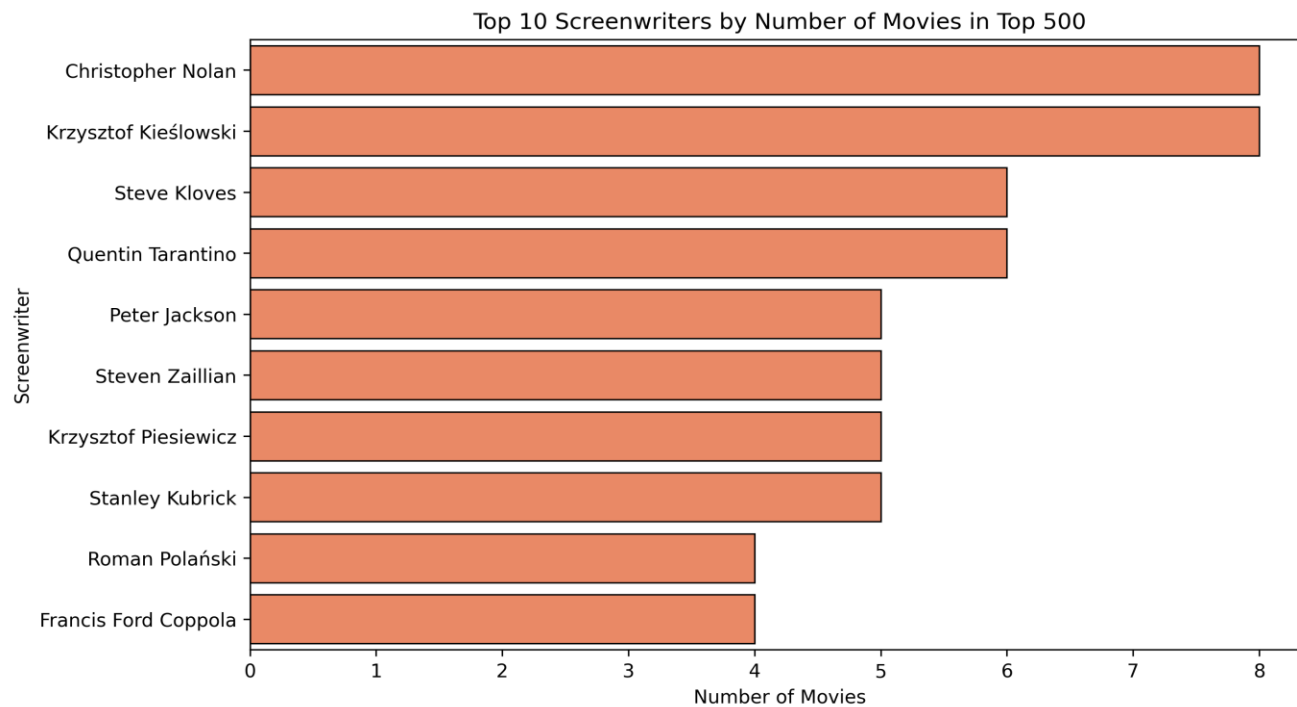
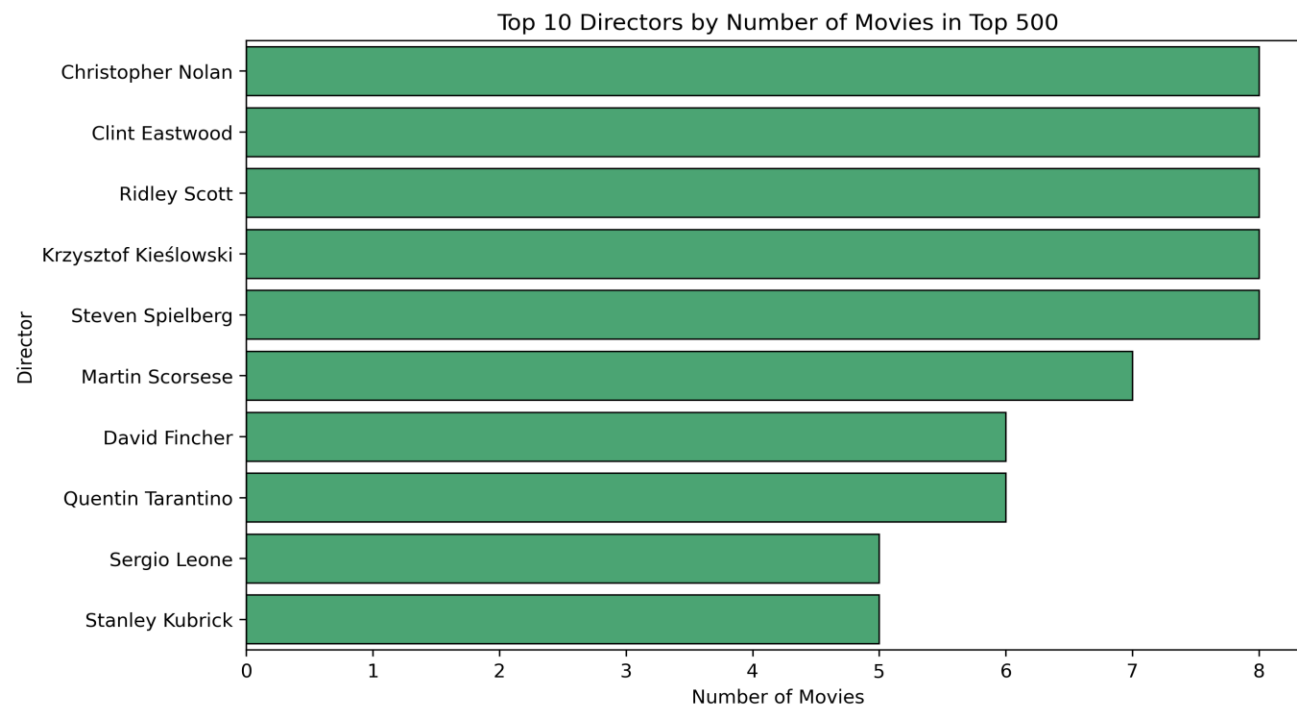
# The Evolution of Top Movies Through the Decades

## Insights & Implications

- User ratings remain relatively stable regardless of a film's release year, suggesting consistent audience appreciation across eras. In contrast, critic ratings show a noticeable decline for newer films, which may indicate a preference among critics for older, perhaps more classic cinema.
- Popularity, measured by the number of user ratings, begins to rise significantly for films from the **1970s** onward, peaking for movies released in the **1990s** and early **2000s**. More recent films have yet to accumulate as many ratings, likely due to limited exposure time.
- Regarding film length, there is no substantial change over the decades, aside from a few outliers. The most common duration for top-ranked films hovers around **two hours**, though the ranking also includes both longer epics and very short productions. Notably, the shortest film in the ranking is "*Sztuka Spadania*", lasting only six minutes.

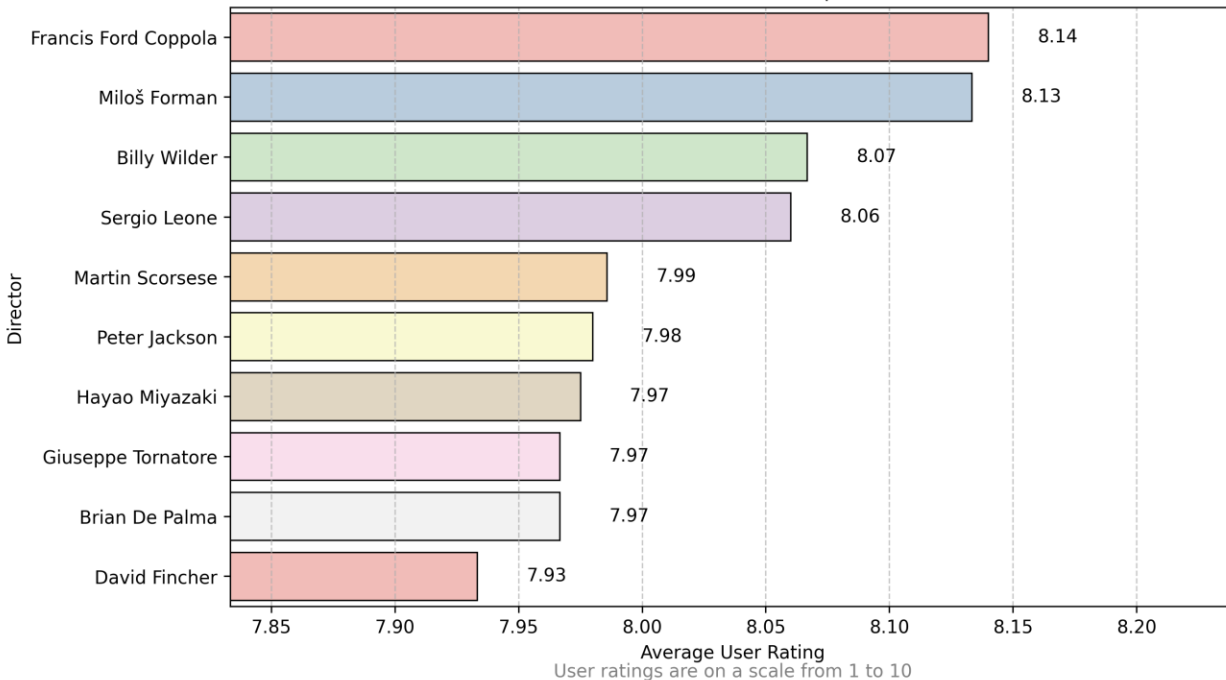


# Spotlight on Creators: Top Directors & Screenwriters

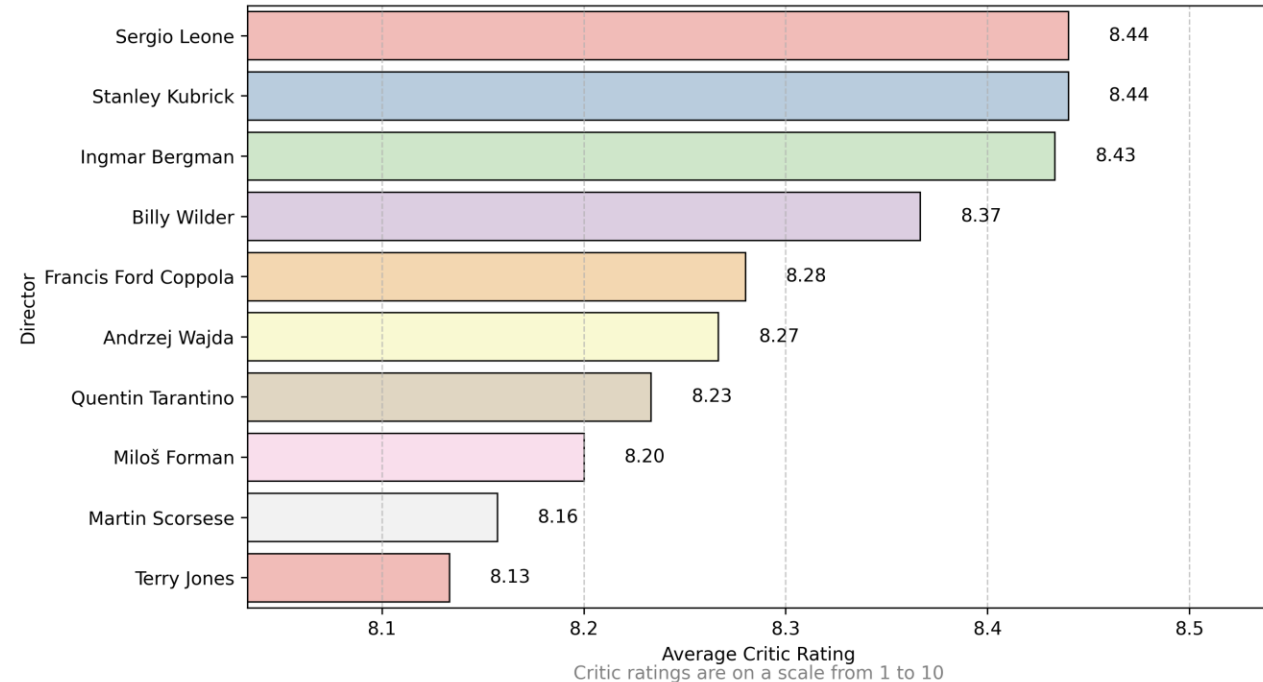


# Spotlight on Creators: Top Directors & Screenwriters

Top 10 Directors by Average User Rating of Movies They Worked On  
(Minimum 3 movies in Top 500)

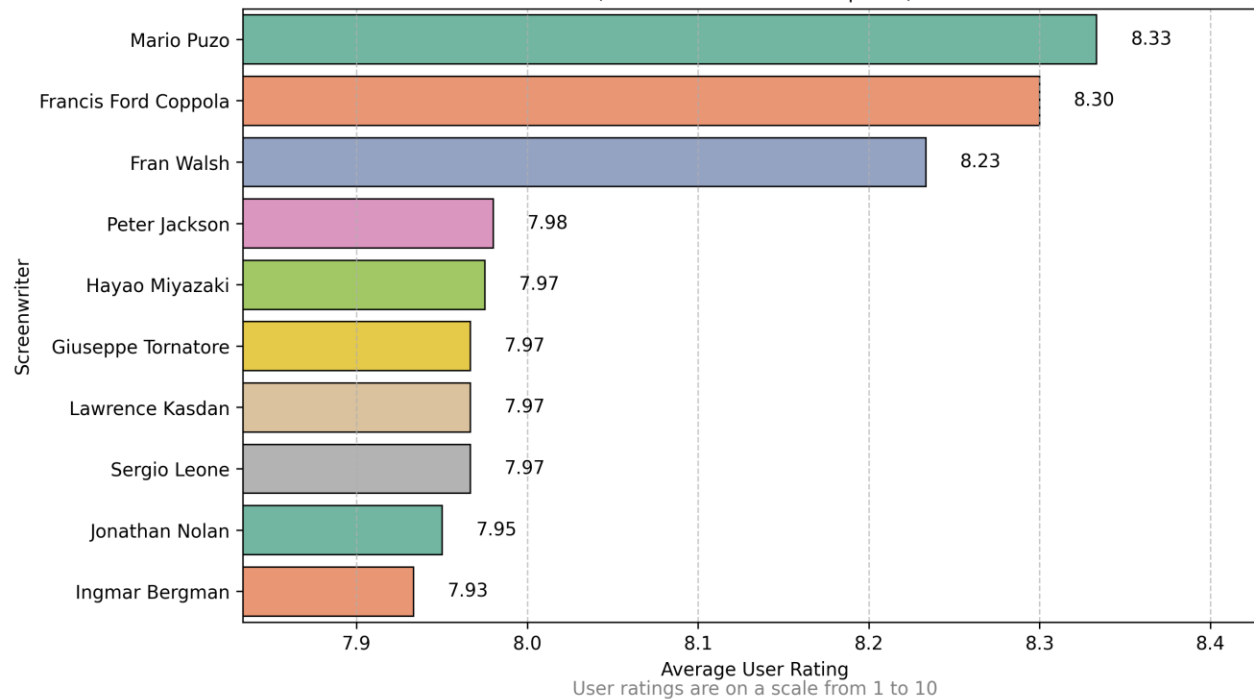


Top 10 Directors by Average Critic Rating of Movies They Worked On  
(Minimum 3 movies in Top 500)

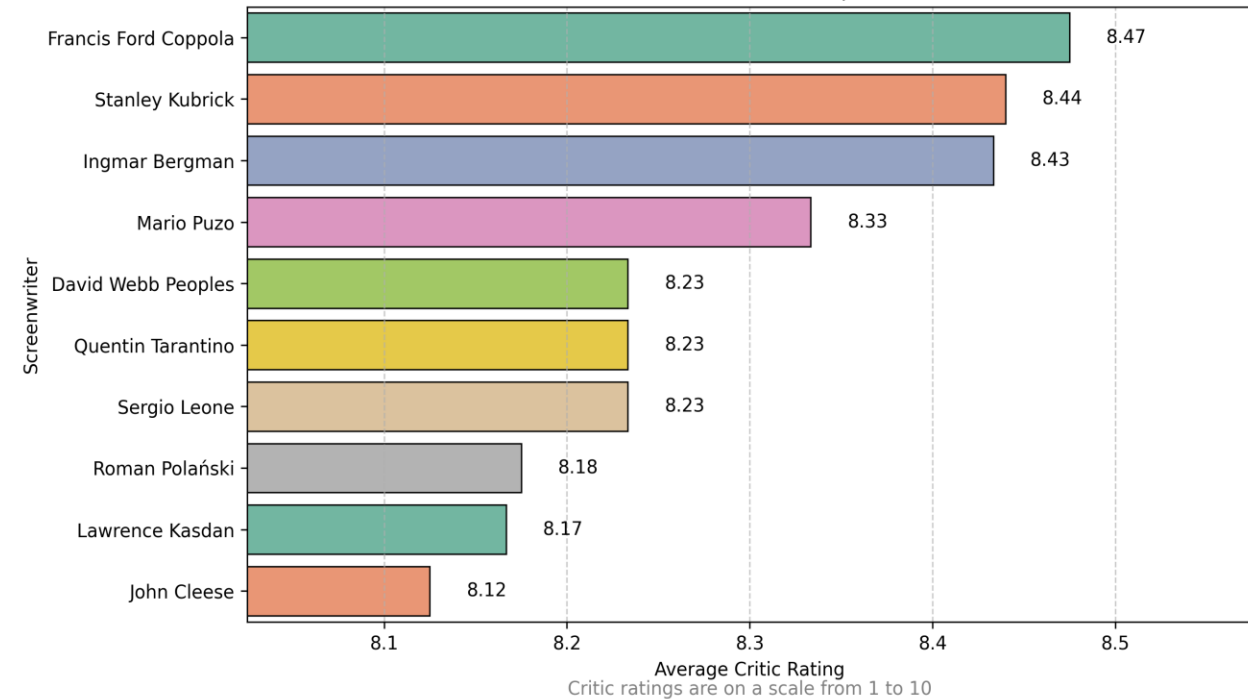


# Spotlight on Creators: Top Directors & Screenwriters

Top 10 Screenwriters by Average User Rating of Movies They Worked On  
(Minimum 3 movies in Top 500)



Top 10 Screenwriters by Average Critic Rating of Movies They Worked On  
(Minimum 3 movies in Top 500)



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# Spotlight on Creators: Top Directors & Screenwriters

## Insights & Implications

- Among the top 500 films, **Christopher Nolan** and **Krzysztof Kieślowski** stand out as the most celebrated creators by the Polish audience, each having an impressive eight films featured in the ranking—often serving as both director and screenwriter.
- Other frequently recognized names among the highest-rated films by both users and critics include **Francis Ford Coppola** (notably for *The Godfather*), **Sergio Leone** (renowned for his Westerns), **Hayao Miyazaki** (founder of Japan's Studio Ghibli), and **Stanley Kubrick**, who is especially acclaimed by critics.
- In addition to Kieślowski, prominent Polish filmmakers such as **Andrzej Wajda** and **Roman Polanski** also appear among the top-ranked creators, highlighting the significant influence of Polish cinema in the top 500.





## Count of Movies in Top 500 by Country



Interactive version of this visualization can be [found here](#)

# Global Footprint of Top Movies

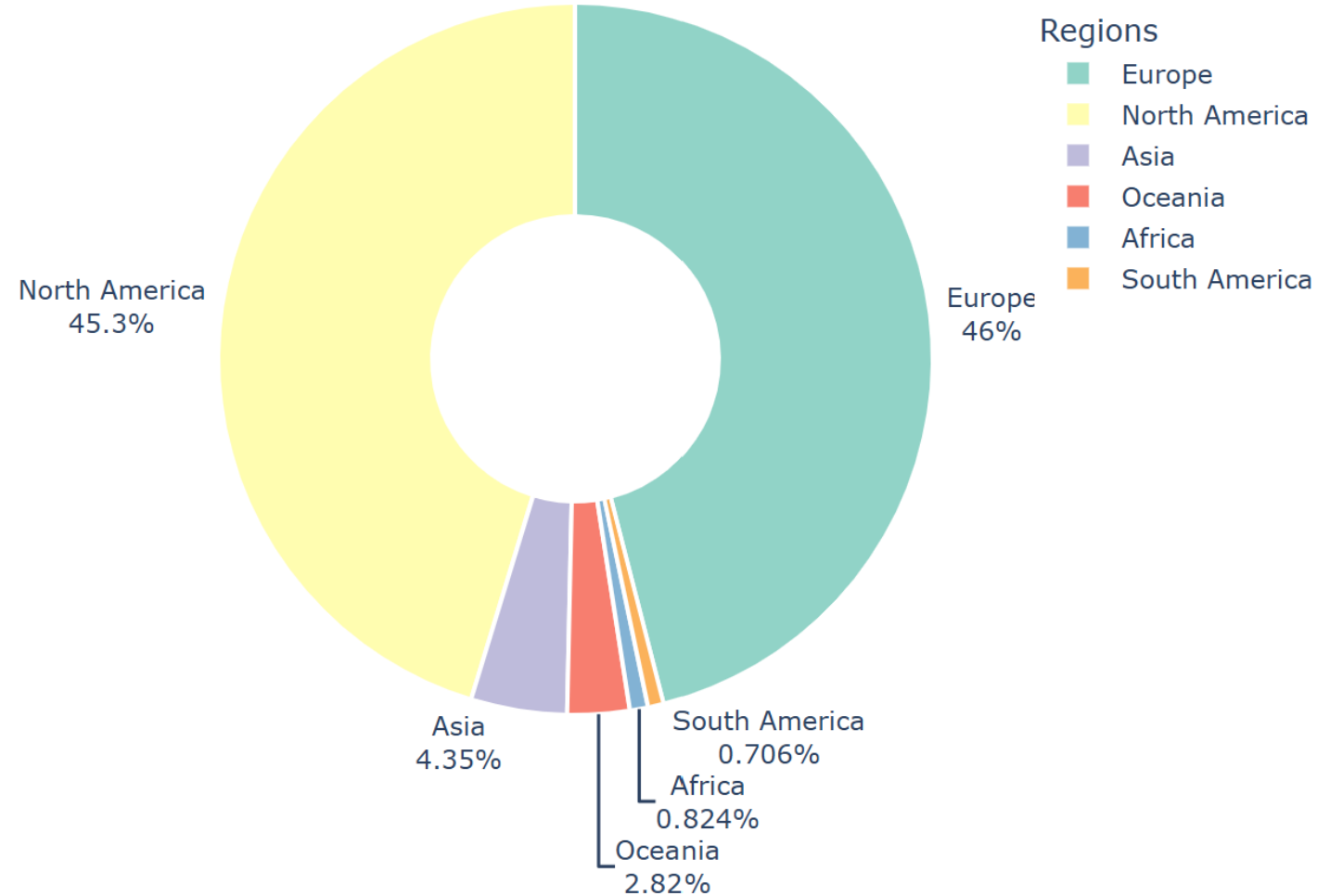


# Global Footprint of Top Movies

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Region Proportions in Top 500 Movies



Interactive version of this visualization can be [found here](#)

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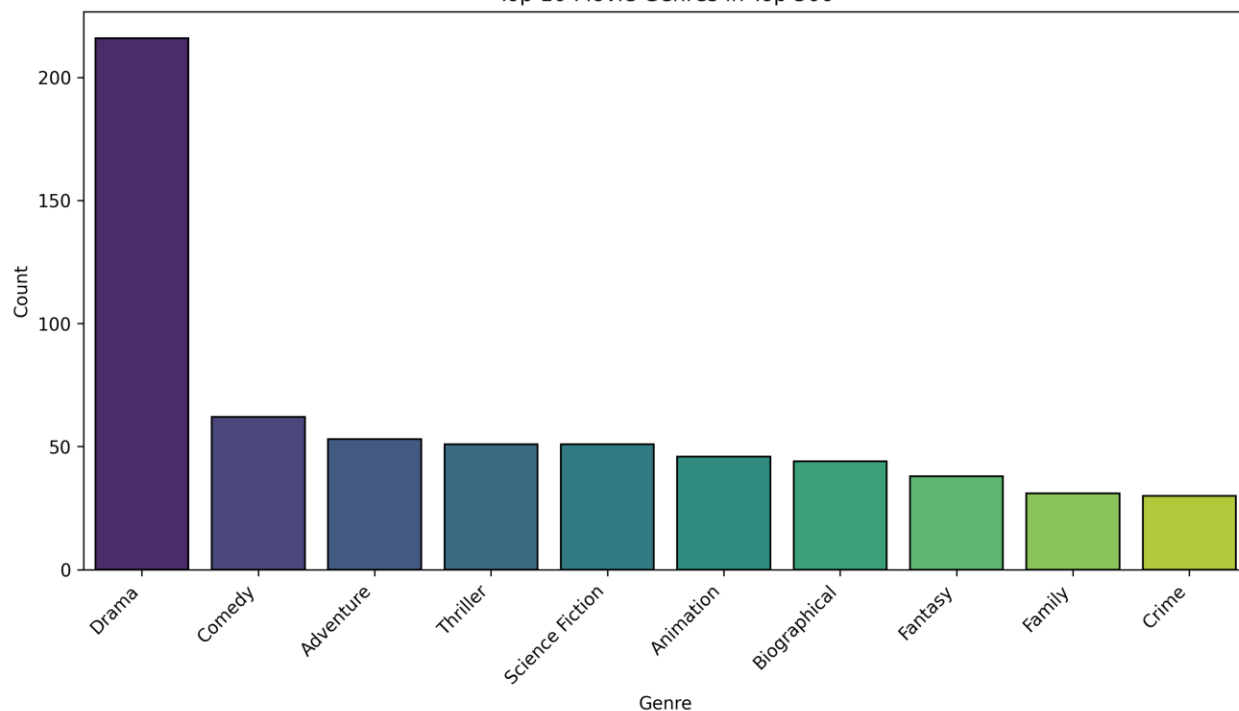
# Global Footprint of Top Movies Insights & Implications

- The **United States** stands out as the leading country in the production of top 500 movies, underscoring **Hollywood's** dominant position and global influence in the film industry.
- When looking at regions, **North America** and **Europe** overwhelmingly contribute to the production of these films, while all other regions combined account for less than 9% of the total production share—highlighting a significant geographic imbalance in the top 500 ranking.



# Exploring Genres in the Top 500 Movies

Top 10 Movie Genres in Top 500

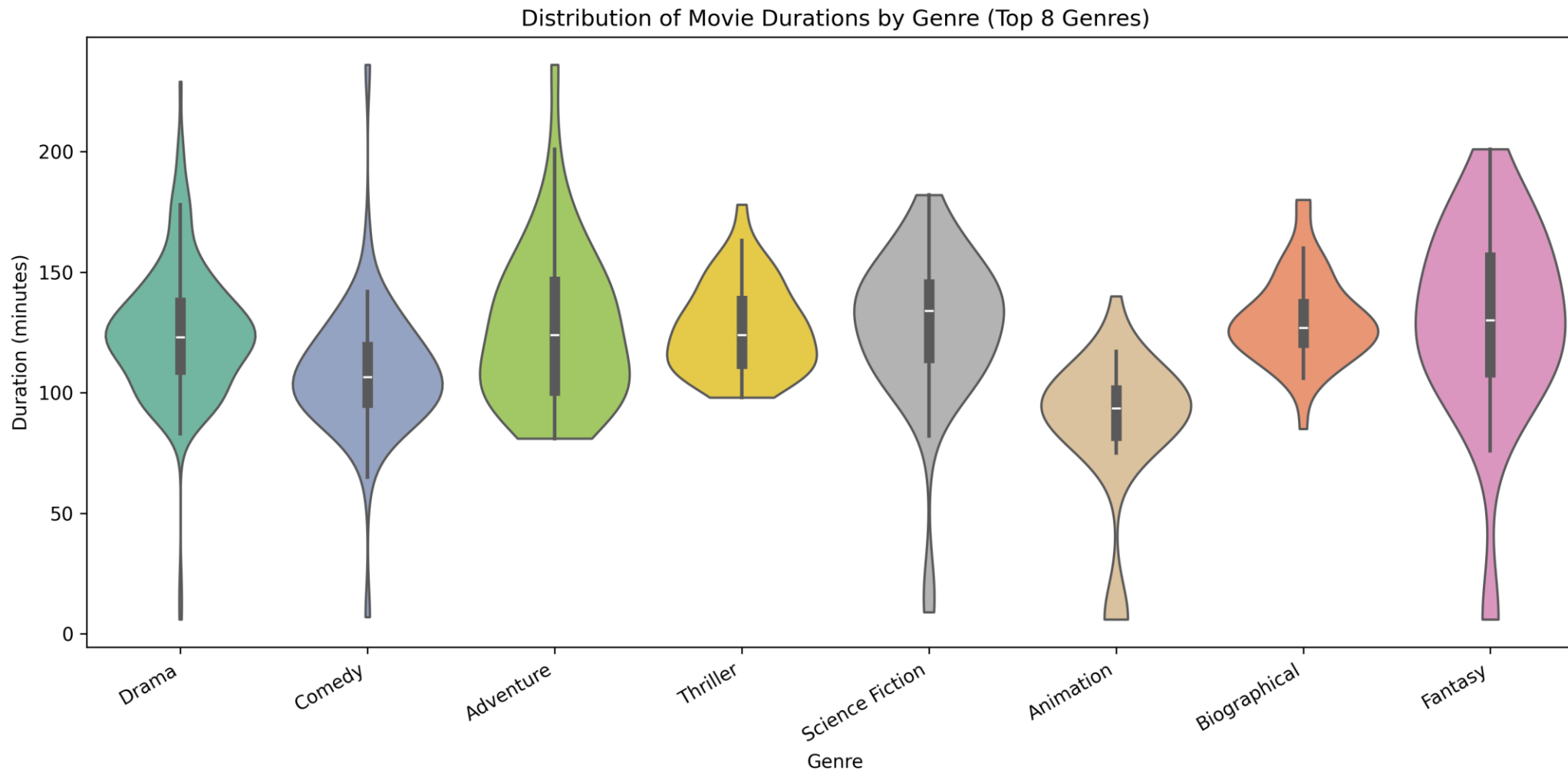


Top 10 Most Common Genre Combinations



Interactive version of this visualization can be [found here](#)

# Exploring Genres in the Top 500 Movies



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## Insights & Implications

- The average duration among the most popular genres is quite consistent, with **animated** films tending to be **slightly shorter**. This may reflect the intensive production demands of animation or the genre's appeal to younger audiences with shorter attention spans.
- **Drama** is by far the most prevalent genre in the top 500, standing out well ahead of others.
- The most frequent genre combinations almost always include **Drama**—such as the leading pair **Drama + War**—though **Action + Sci-Fi** also features prominently, ranking third among combinations.



# Thank You!

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*Thank you for your time and attention! I appreciate your interest in my project.*

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GitHub Profile: [GBortnik](#)

Project repository is available [HERE](#).

