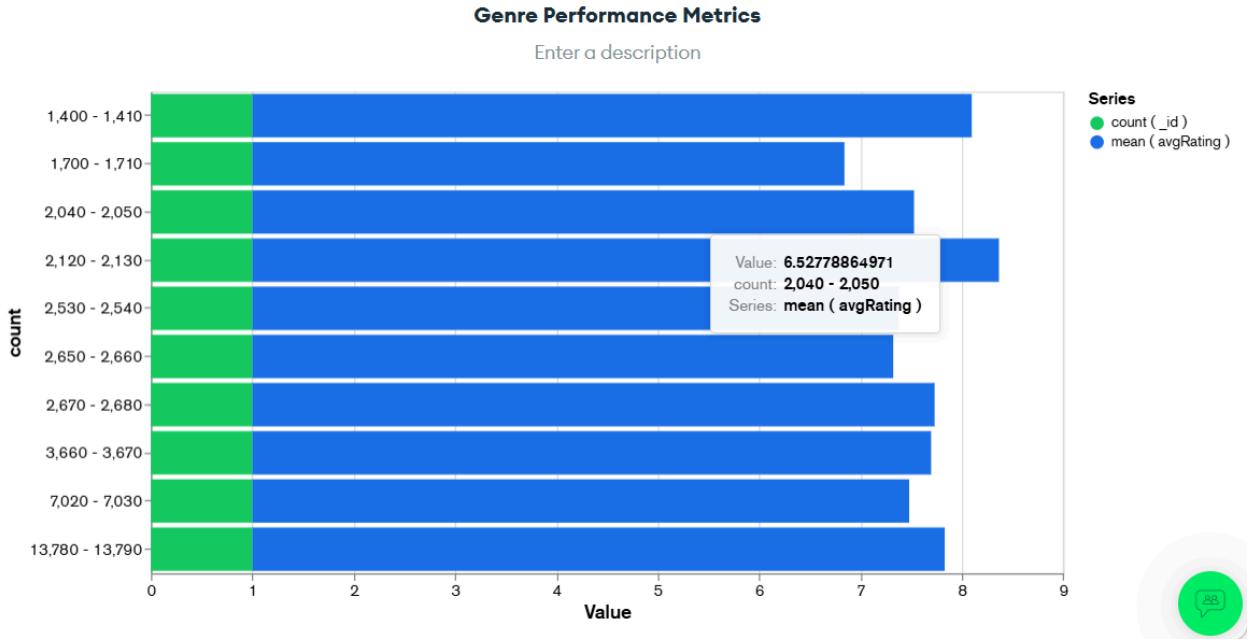
Movies Dashboard Visuals

📊 1. Genre Performance Metrics (Stacked Bar Chart)

Goal: See the most popular genres & their average IMDb rating

Visual Setup

- **Chart Type: Stacked Bar Chart**
- **X-Axis:** `_id` (Genre)
- **Y-Axis:** `count` (Number of Movies)
- **Stacked by:** `avgRating` (Average IMDb Rating)

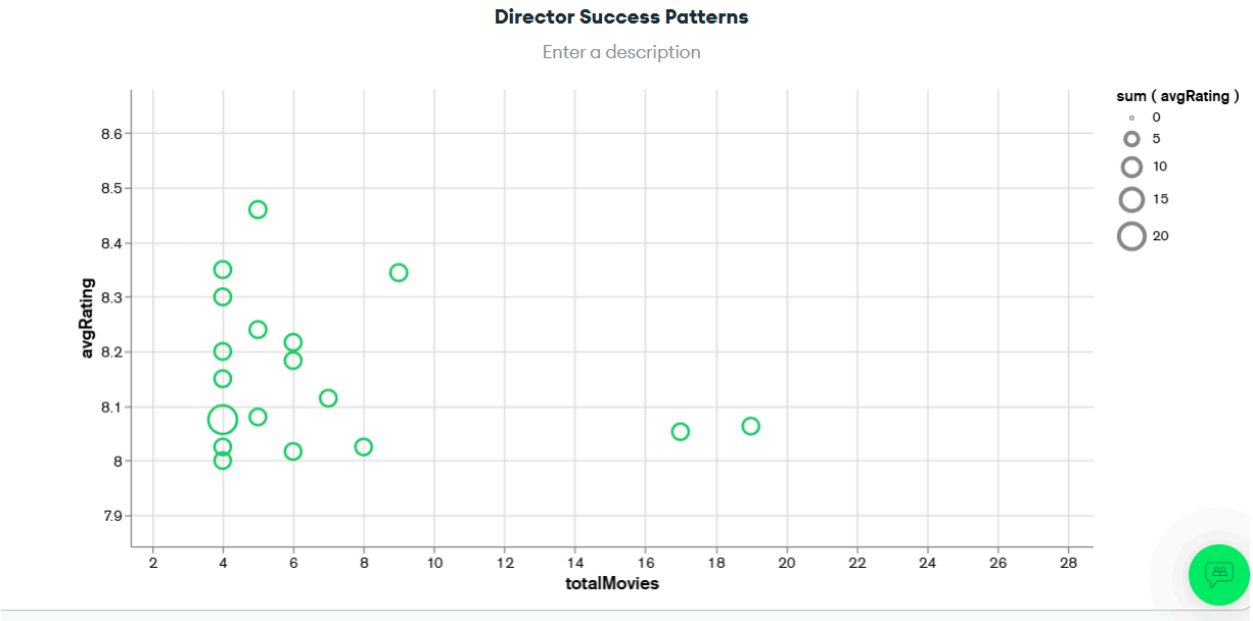


🟠 2. Director Success Patterns (Bubble Chart)

🎯 Goal: Identify successful directors based on movie count & rating

✅ Visual Setup

- **Chart Type: Bubble Chart**
- **X-Axis:** `totalMovies` (Total Movies Directed)
- **Y-Axis:** `avgRating` (Average IMDb Rating)
- **Bubble Size:** `avgAwards` (Average Award Wins/Nominations)
- **Filter:** Total Movies > 3

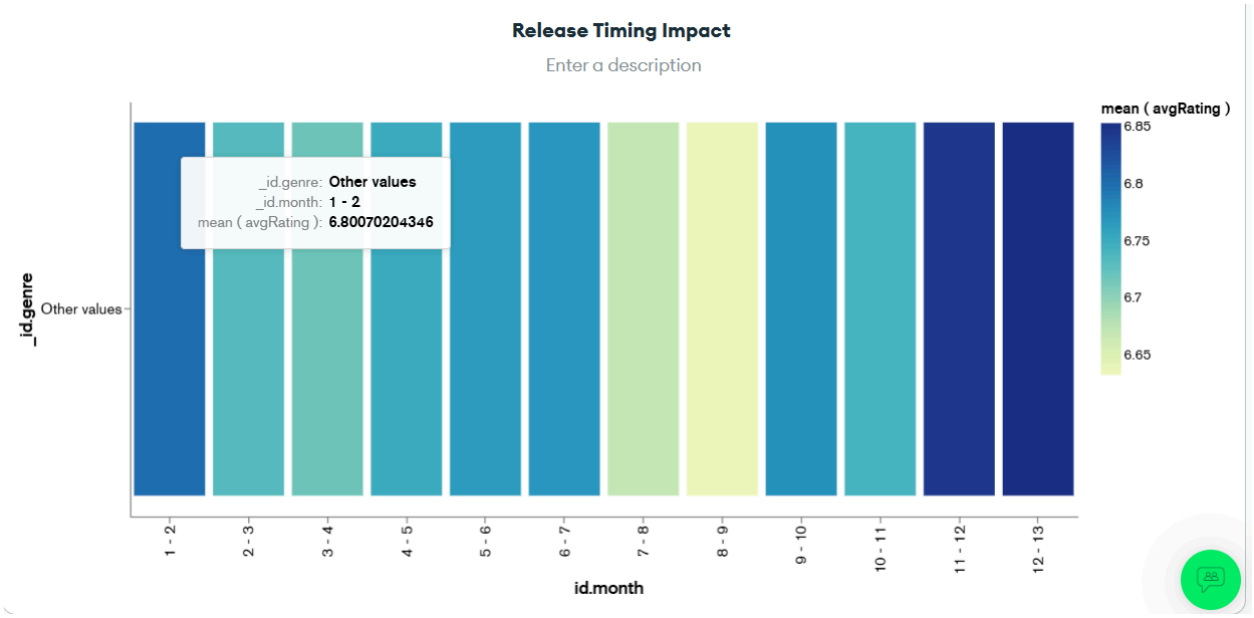


🔥 3. Release Timing Impact (Heatmap)

🎯 Goal: Find out which months perform best for certain genres

✅ Visual Setup

- **Chart Type: Heatmap**
- **X-Axis:** `_id.month` (Month of Release)
- **Y-Axis:** `_id.genre` (Genre)
- **Color Gradient:** `avgRating` (Average IMDb Rating)



📈 4. Average Metacritic Score by Country (Choropleth Map)

Goal: Visualize and analyze the average Metacritic score of movies produced in different countries to identify regions with critically acclaimed films.

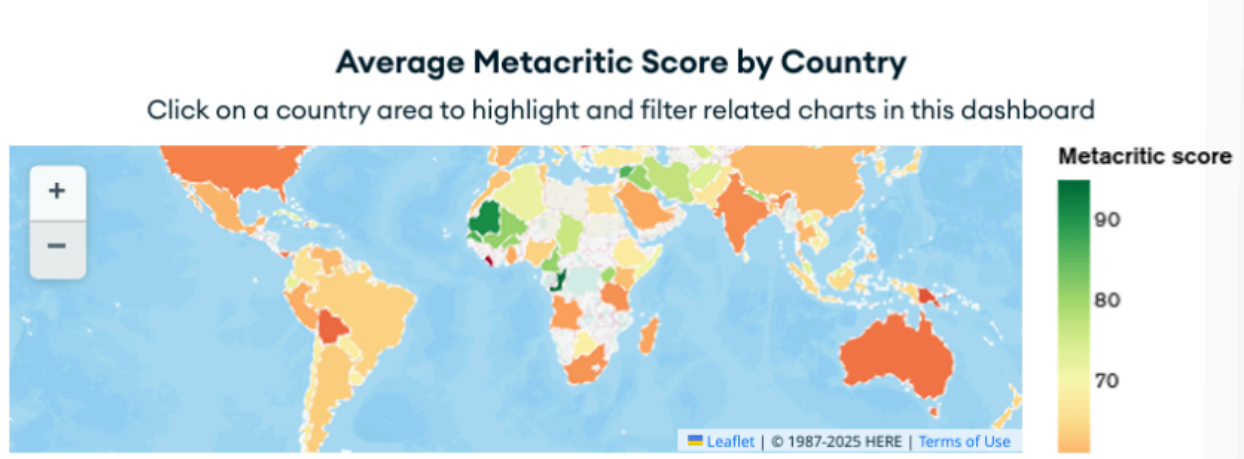
Analysis:
This choropleth map illustrates the global distribution of average Metacritic scores, with color gradients representing the score range. Countries with higher average scores (closer to 90) are shown in shades of green, while those with lower scores (closer to 70) are represented in shades of red and orange.

🎯 Goal: Find the ideal runtime for high-rated movies

✅ Visual Setup

- **Chart Type: Line Chart with Markers**
- **X-Axis:** `_id.runtime` (Runtime Category)
- **Y-Axis:** `avgRating` (Average IMDb Rating)
- **Series:** `_id.genre` (Different genres for trends)

- **Sort by:** Runtime Category Order

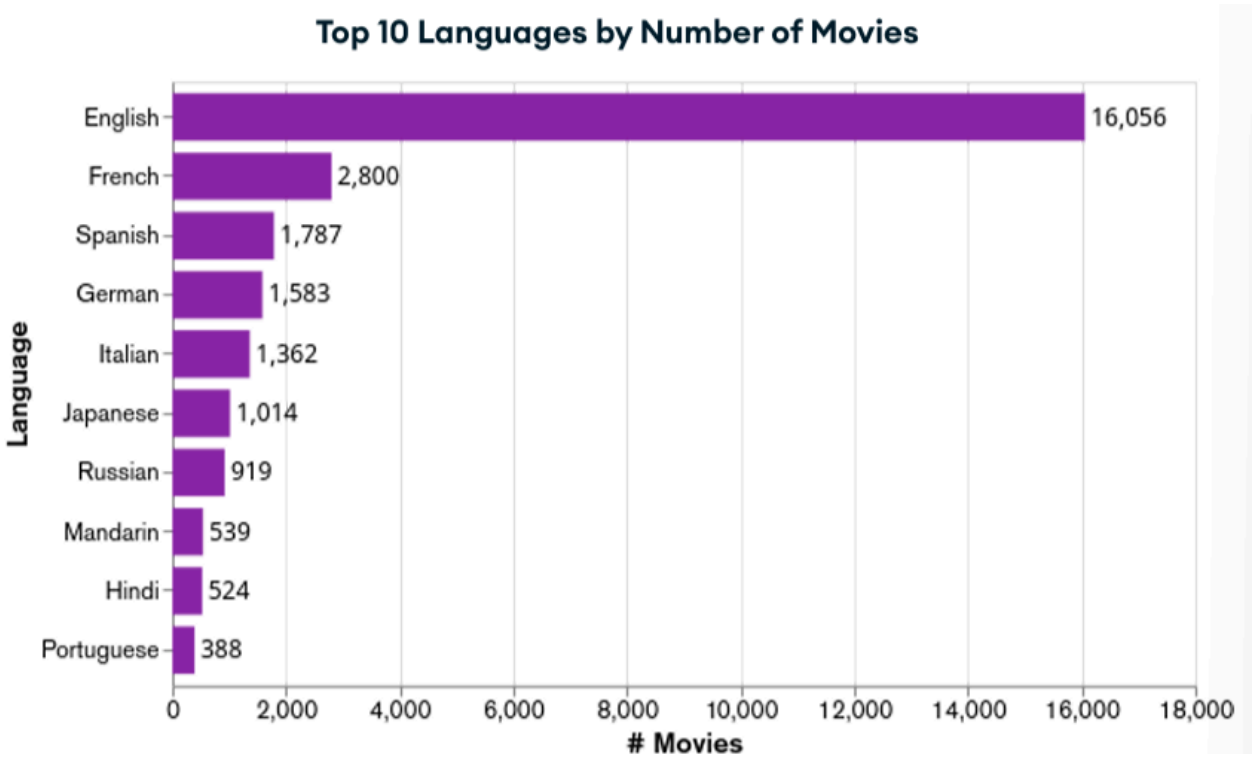


⏳ 5.Top 10 Languages by Number of Movies (Horizontal Bar Chart)

🎯 **Goal: Analyze the distribution of movies by language to identify the most common languages used in filmmaking.**

✅ **Visual Setup**

- **Chart Type:** Bar Chart
- **X-Axis:** # Movies (Number of Movies)
- **Y-Axis:** Language
- **Bars:** Each bar represents a different language, and the height of the bar indicates the number of movies produced in that language.



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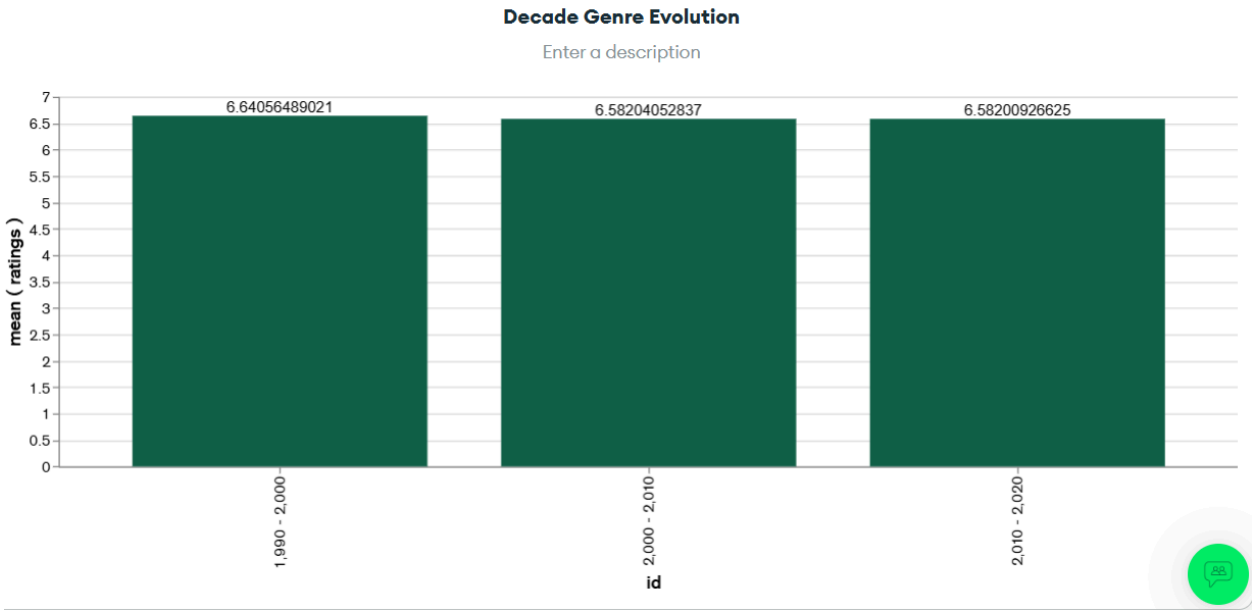
6. Decade Genre Evolution (Bar Chart)

🎯 **Goal:** Analyze the evolution of average movie ratings across decades.

✅ **Visual Setup:**

- **Chart Type:** Bar Chart
- **X-Axis:** `id` (Decade ranges: 1990-2000, 2000-2010, 2010-2020)
- **Y-Axis:** `mean (ratings)` (Average rating for movies in each decade)



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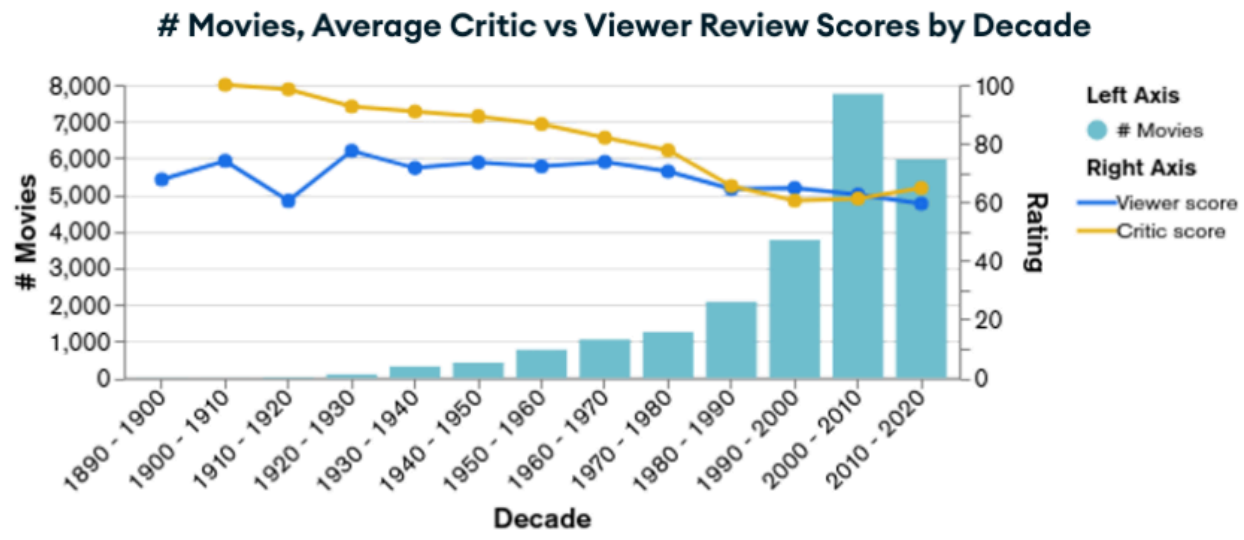
7. Movies, Average Critic vs Viewer Review Scoresby Decade

🎯 **Goal:** Compare the average scores given by critics and viewers across different decades, along with the number of movies released in each decade.

✅ **Visual Setup:**

- **Chart Type:** Combined Column and Line Chart
- **X-Axis:** Decade (1890-1900, 1900-1910, ..., 2010-2020)
- **Left Y-Axis:** # Movies (Number of movies released in each decade)
- **Right Y-Axis:** Rating (Average Critic and Viewer Scores)
- **Series:** * Blue Bars: # Movies
    - Blue Line: Viewer Score
    - Yellow Line: Critic Score



🌎 8. Most Awarded Directors with Average Metacritic Score (Table)

Most Awarded Directors with Average Metacritic Score

Director	# Movies	Wins	Nominations
Steven Spielberg	29	699	912
Martin Scorsese	32	587	744
Alfonso Cuarèn	9	577	402
Peter Jackson	14	527	591
Joel Coen	18	496	616
Ethan Coen	18	496	616
Christopher Nolan	9	488	597
Quentin Tarantino	14	445	572
Ang Lee	13	438	443

📡 9. Movie Runtime vs Metacritic Score Heatmap

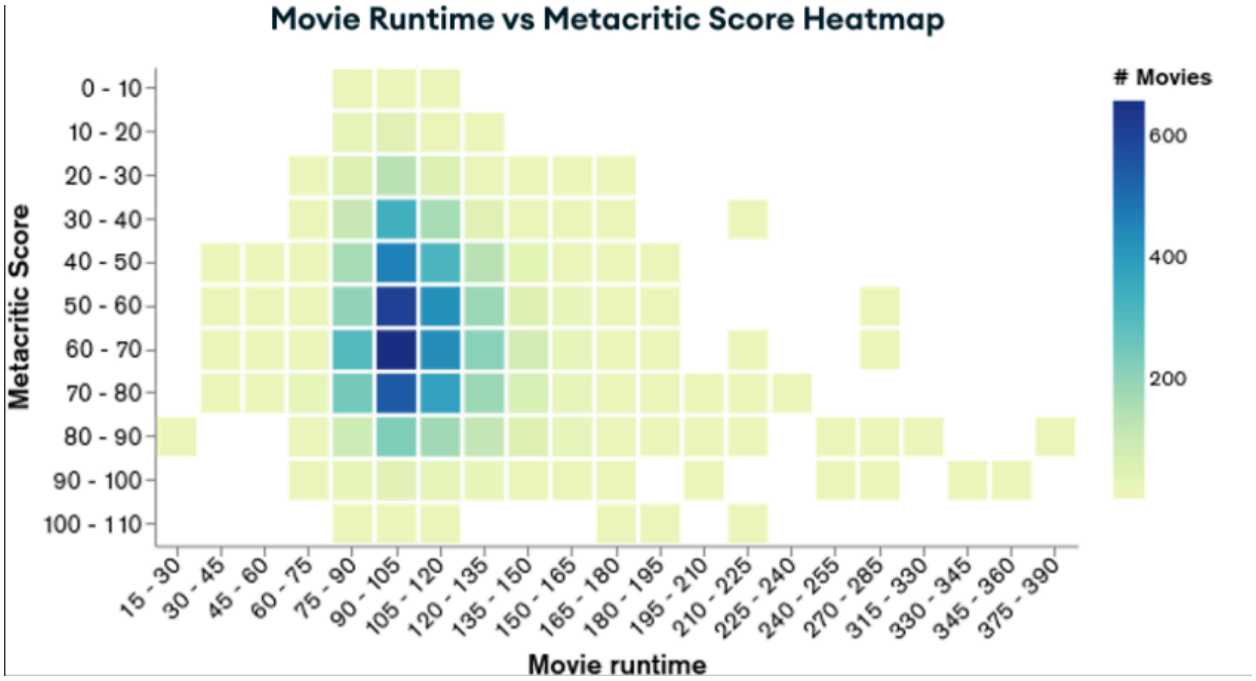
🎯 Goal: Analyze the relationship between movie runtime and Metacritic score.

✅ Visual Setup

Movie Runtime vs Metacritic Score Heatmap

- ***Chart Type:*** *Heatmap*

- ***X-Axis:*** *Movie runtime (runtime categories)*
- ***Y-Axis:*** *Metacritic Score (score ranges)*
- ***Color Gradient:*** *# Movies (Number of movies within each cell, with darker blues indicating higher concentrations)*



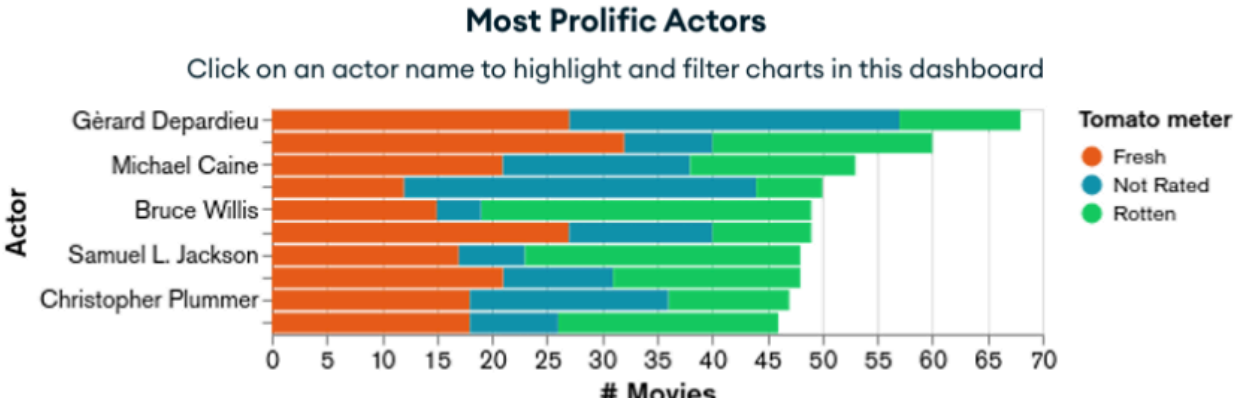
📊 10. Most Prolific Actors (Stacked Bar Chart)

🎯 Goal: Analyze the most prolific actors in the dataset, considering their total number of movies, as well as the distribution of ratings (Fresh, Not Rated, Rotten) for their movies.

✅ Visual Setup

- **Chart Type: Stacked Bar Chart**
- **X-Axis: # Movies (Number of movies)**
- **Y-Axis: Actor Name**

- **Bars: Each bar represents a different actor, with the height of the bar indicating the total number of movies they have acted in.**
- **Color: The bars are divided into three sections based on the Rotten Tomatoes rating of the movies:**
    - **Orange: Fresh**
    - **Blue: Not Rated**
    - **Green: Rotten**
- **Tooltips: Hovering over a bar displays the actor's name, the total number of movies, and the breakdown of ratings (Fresh, Not Rated, Rotten).**

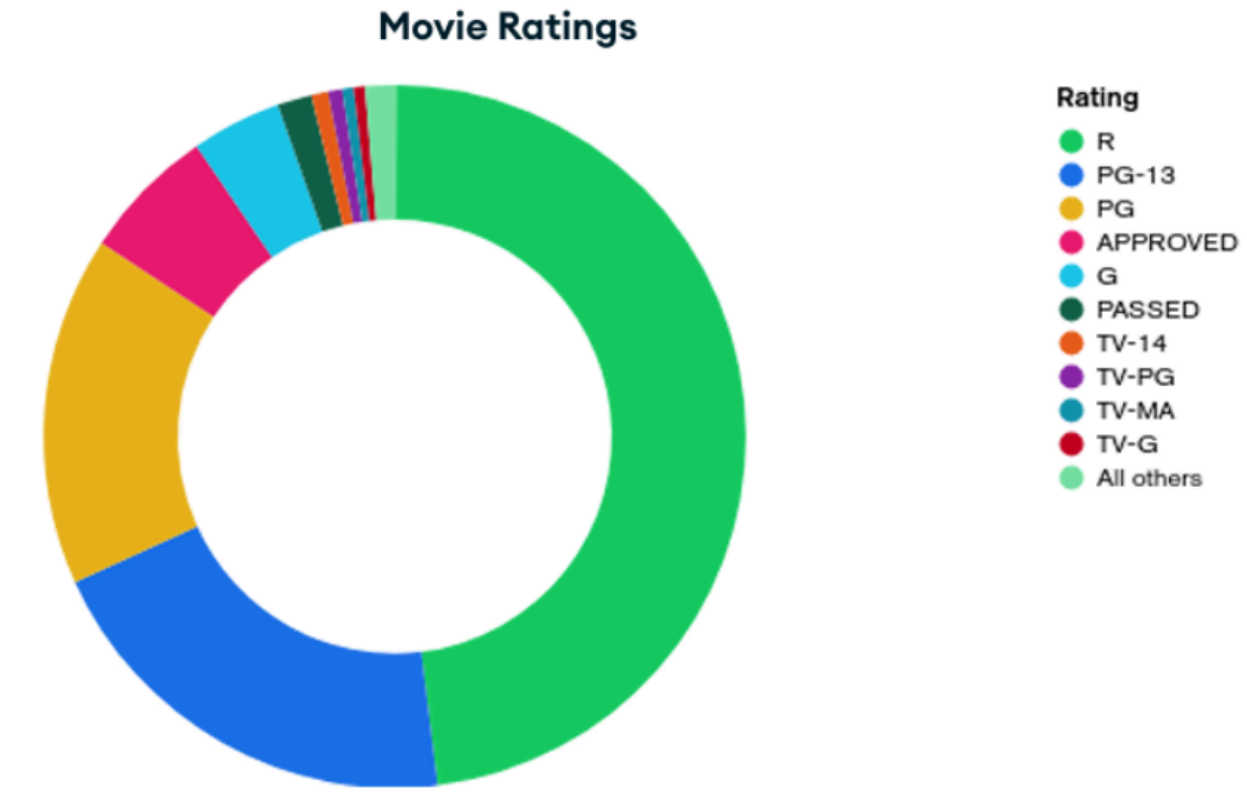


📉 11. Movies Ratings (Donut Chart)

🎯 Goal: Analyze the distribution of movie ratings within the dataset to identify the most common rating categories and understand the prevalence of different content classifications.

✅ Visual Setup

- **Chart Type:** Donut Chart
- **Categories:** Rating (R, PG-13, PG, APPROVED, G, PASSED, TV-14, TV-PG, TV-MA, TV-G, All others)
- **Value:** The size of each segment represents the proportion of movies in each rating category.

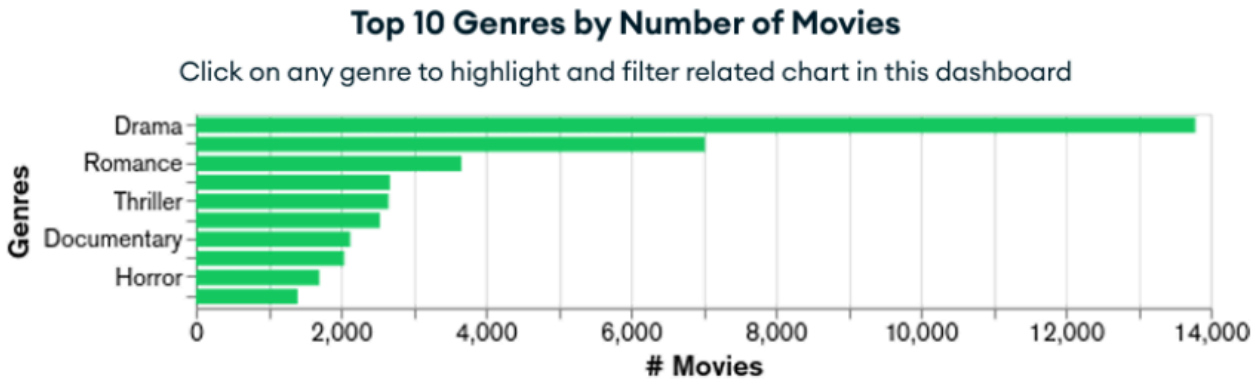


🏆 12. Top 10 Genres by Number of Movies (Horizontal Bar Chart)

🎯 Goal: Analyze the distribution of the top 10 movie genres based on the number of movies in each genre to identify the most prevalent genres

✅ Visual Setup

- **Chart Type: Horizontal Bar Chart**
- **X-Axis: # Movies (Number of Movies)**
- **Y-Axis: Genres (Drama, Romance, Thriller, Documentary, Horror)**



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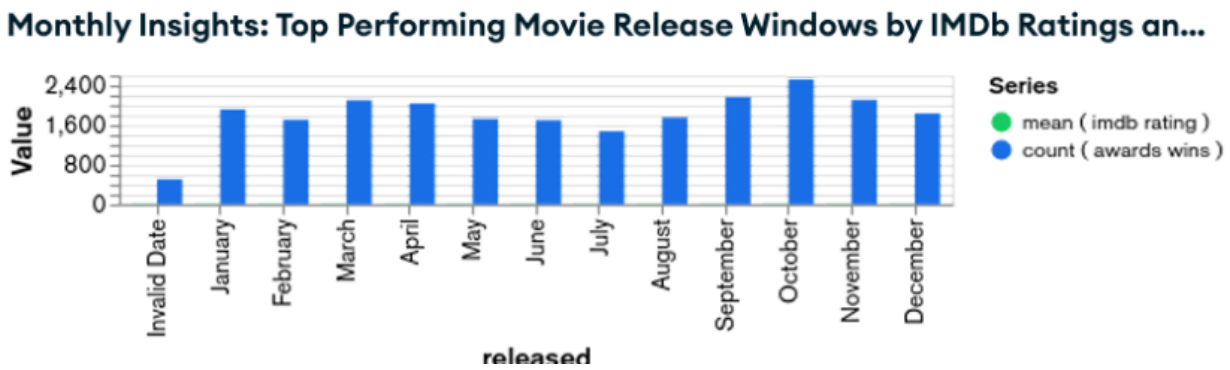
🏆 13. Monthly Insights: Top Performing Movie Release Windows by IMDb Ratings and Awards Wins (Grouped Column Chart)

🎯 Goal: Analyze the relationship between movie release month, IMDb ratings, and the number of awards won. This chart helps identify the months with the highest average ratings and the months with the most award-winning movies.

✅ Visual Setup

- **Chart Type: Combination Bar Chart and Line Chart**
- **X-Axis: Release Month (January to December)**
- **Left Y-Axis: Mean (IMDb Rating)**
- **Right Y-Axis: Count (Awards Wins)**
- **Bars: Blue bars represent the average IMDb rating for movies released in each month.**
- **Lines: Green line represents the number of awards won by movies released in each month.**

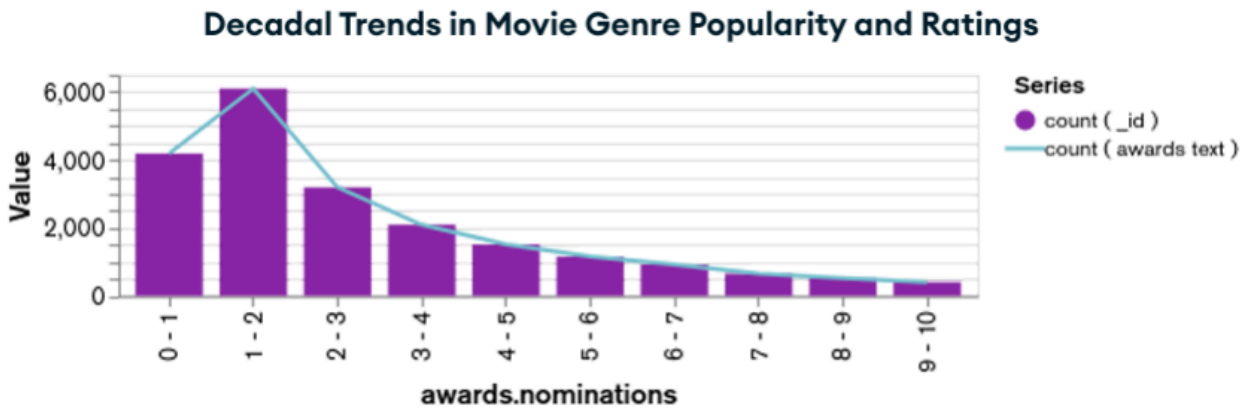


📡 14. Decade Trends inMovie Genre Popularity and Ratings (Combined Column and Line Chart)

🎯 **Goal: Analyze the relationship between the number of award nominations a movie receives and its popularity and critical acclaim. The chart helps identify the range of nominations that typically leads to the highest number of movies and the highest average ratings.**

✅ **Visual Setup**

- **Chart Type: Combination Bar Chart and Line Chart**
- **X-Axis: Number of Awards Nominations (0-1, 1-2, 2-3, etc.)**
- **Left Y-Axis: Count (_id)**
- **Right Y-Axis: Count (awards_text)**
- **Bars: Purple bars represent the number of movies with a given number of award nominations.**
- **Line: Blue line represents the average number of awards won by movies with a given number of nominations.**

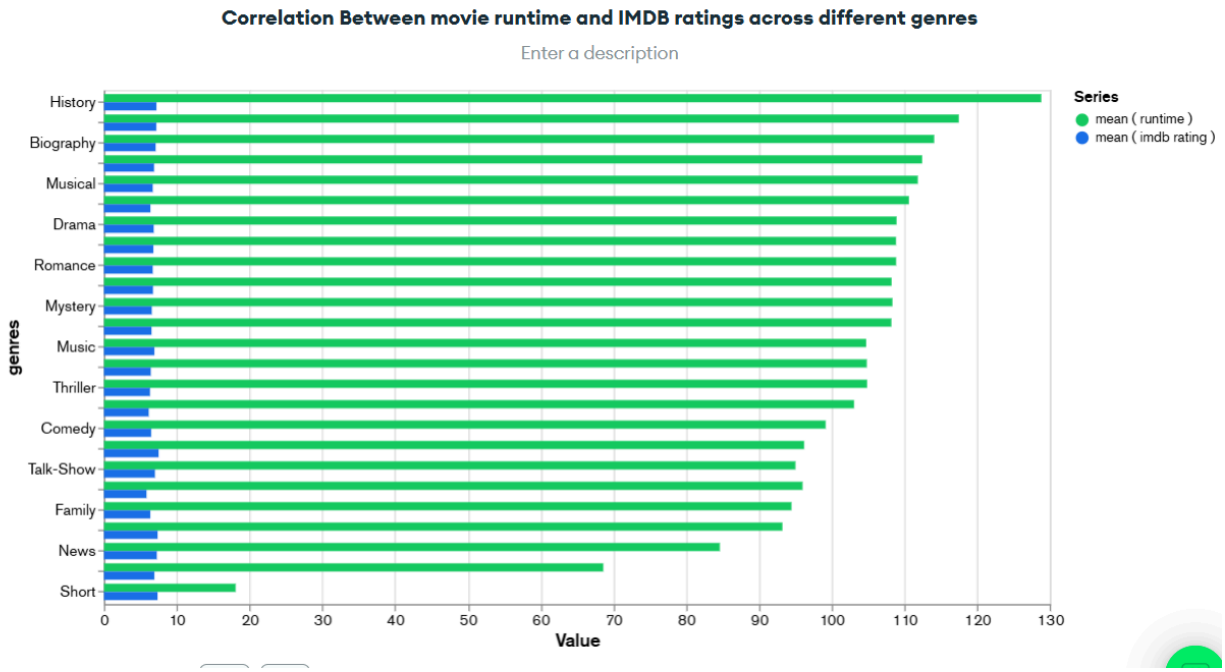


📡 15. Correlation Between Movie Runtime and IMDb Ratings Across Different Genres (Grouped Horizontal Bar Chart)

🎯 **Goal: To visualize and analyze the correlation between movie runtime and IMDB ratings across various genres.**

✅ **Visual Setup**

- **Chart Type: Horizontal Bar Chart**
- **X-Axis: Value (Mean Runtime, Mean IMDB Rating)**
- **Y-Axis: Genres**
- **Bars: Green bars represent the mean runtime for each genre, and blue bars represent the mean IMDB rating for each genre.**
- **Series: The chart uses different colored bars to distinguish between "mean (runtime)" and "mean (imdb rating)."**

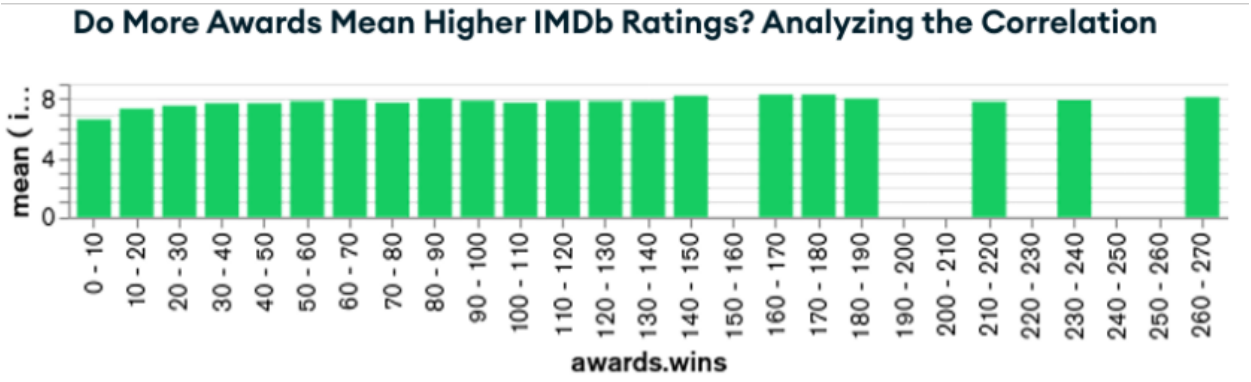


📡 16. Do More Awards Mean Higher IMDb Ratings? Analyzing the Correlation (Bar Chart)

🎯 Goal: Do More Awards Mean Higher IMDb Ratings? Analyzing the Correlation

✅ Visual Setup

- **Chart Type: Bar Chart**
- **X-Axis: awards.wins**
- **Y-Axis: mean (i...) *(It looks like the full label is cut off, likely "mean (imdb rating)")***



📡 17. Trends in User Engagement: Annual Sum of Mflix Comments Over Time (Line Chart)

🎯 **Goal:** **Analyze the trend of user engagement over time, as measured by the total number of comments posted on the Mflix platform annually.**

✅ **Visual Setup**

- ***Chart Type: Line Chart***
- ***X-Axis: year***
- ***Y-Axis: sum (num_mflix_comments)***

Trends in User Engagement: Annual Sum of Mflix Comments Over Time