

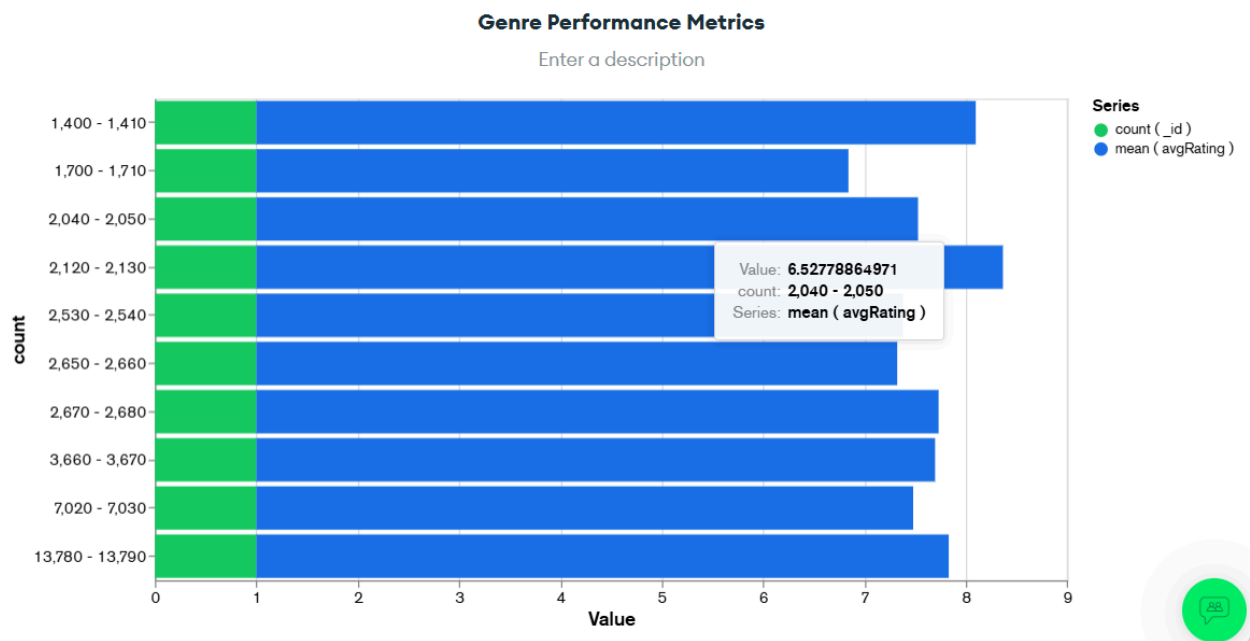


1. Genre Performance Metrics (Stacked Bar Chart)

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)

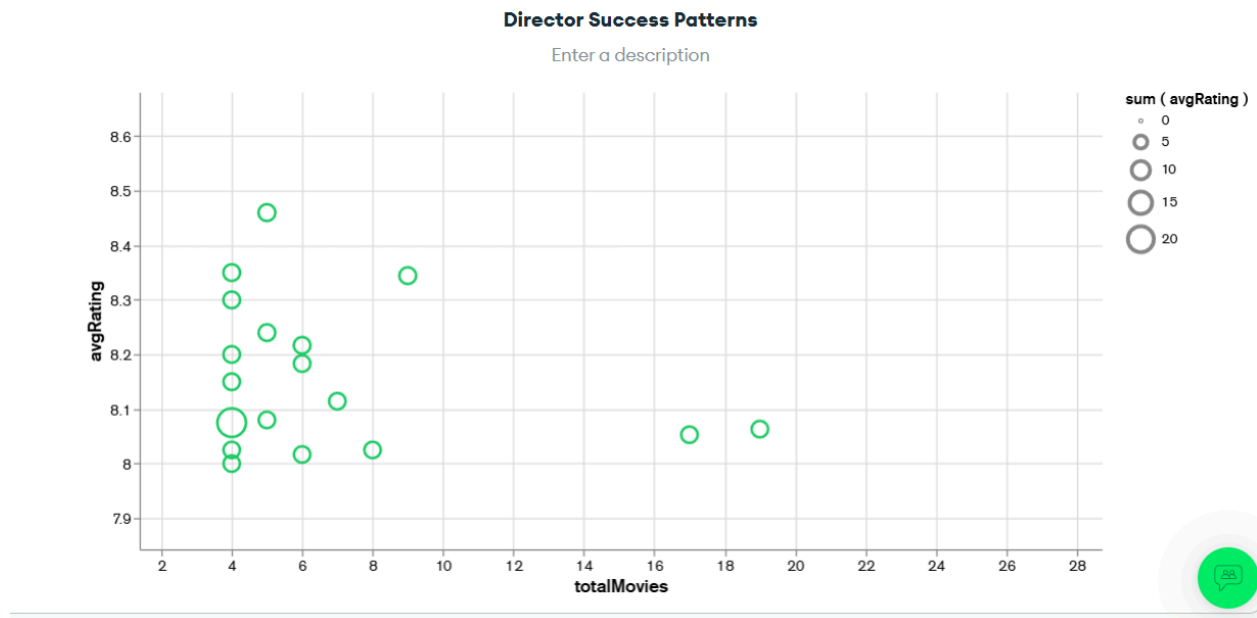


2. Director Success Patterns (Bubble Chart)

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

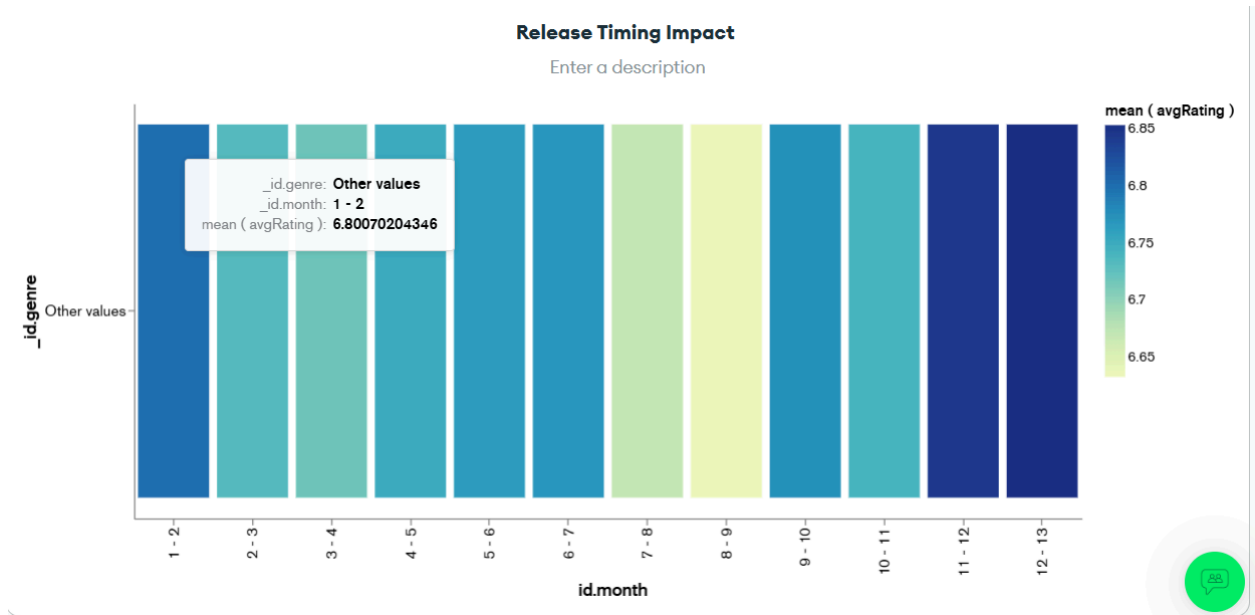


🔥 3. Release Timing Impact (Heatmap)

🎯 **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. Runtime Optimization (Line Chart)

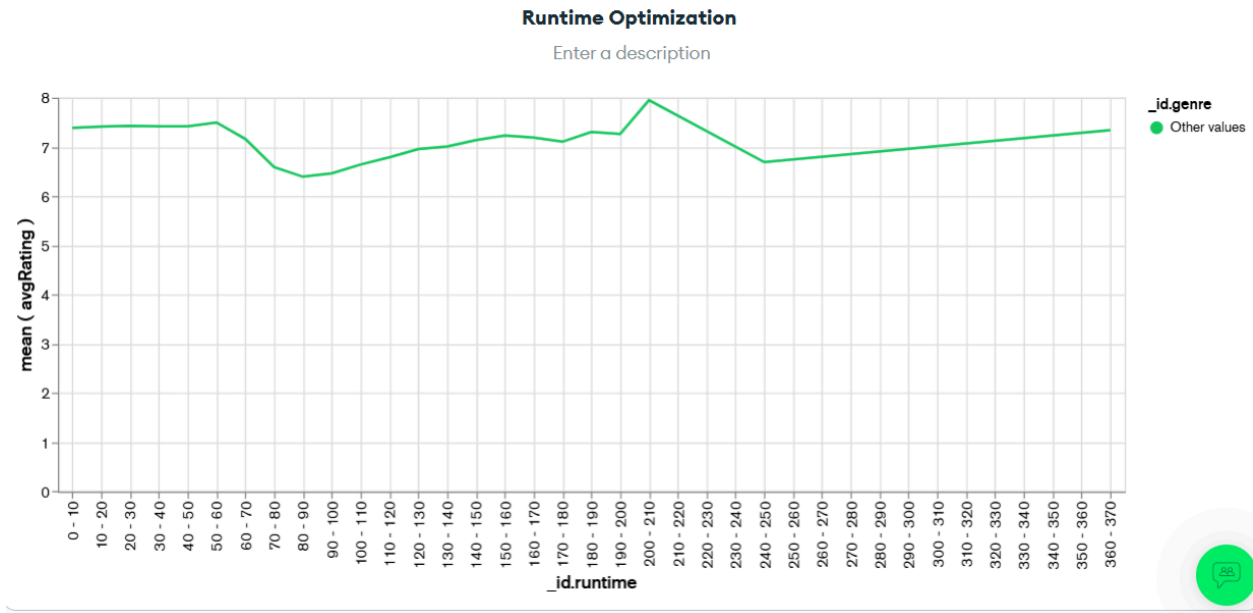


Goal: Find the ideal runtime for high-rated movies



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

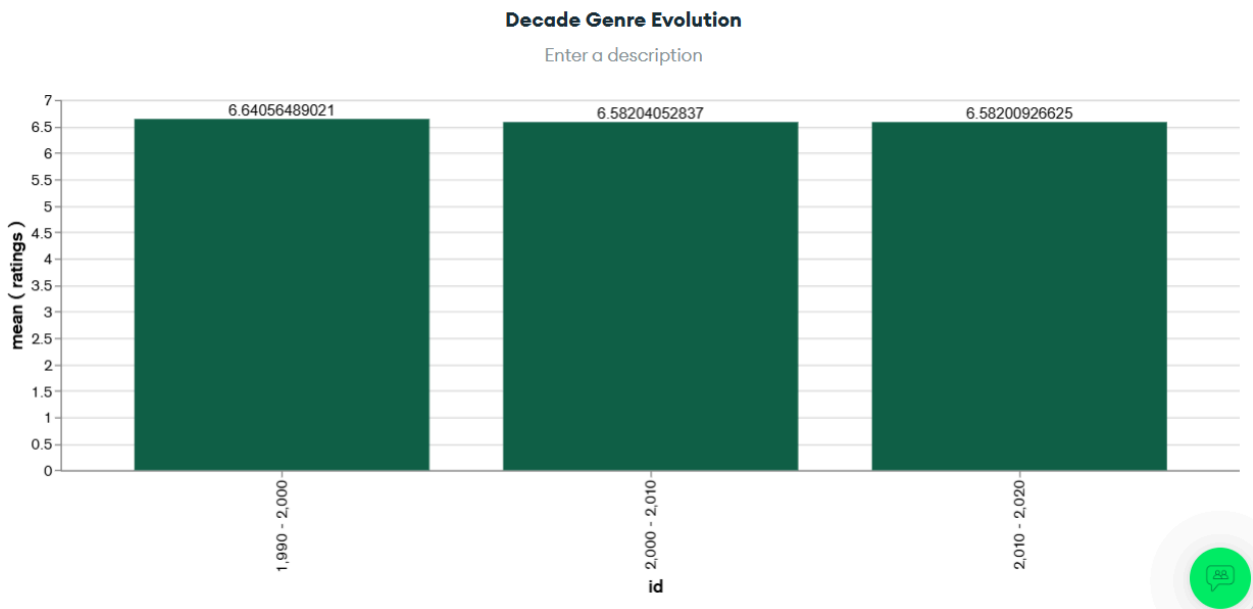
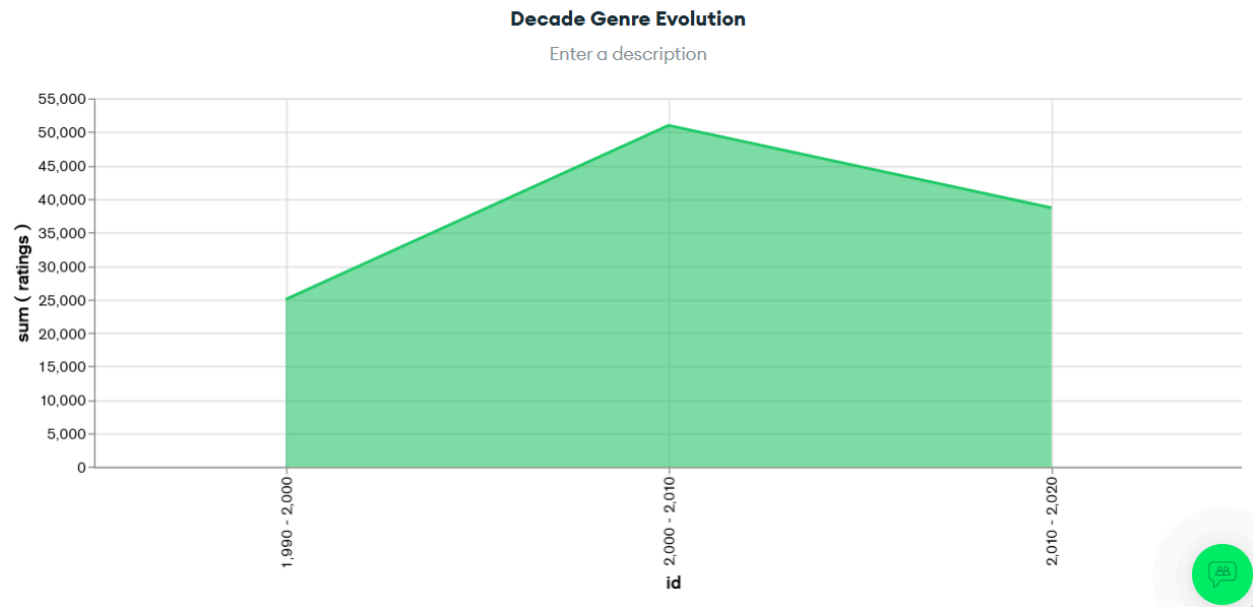


5. Decade Genre Evolution

Goal: See how movie genres evolved over time

Visual Setup

- **Chart Type:** Stacked Area Chart
- **X-Axis:** `_id.decade` (Decade)
- **Y-Axis:** `count` (Number of Movies)
- **Stacked by:** `_id.genre` (Genre)



6. Rating Distribution by Year

 **Goal:** See how movie ratings have varied from 1990-2020

 **Visual Setup**

- **Chart Type:** Box Plot
 - **X-Axis:** `_id` (Year)
 - **Y-Axis:** `ratings` (IMDb Ratings)
 - **Additional Stats:** Min, Max, Average
-

7. Country Production Analysis (Bar Chart)


 **Goal:** Find out which countries produce the most movies

Visual Setup

- **Chart Type:** Bar Chart
- **X-Axis:** `_id` (Country)
- **Y-Axis:** `count` (Number of Movies)
- **Sort by:** `count` (Descending)

Expected Look

A vertical bar chart showing top film-producing countries.

 Is Hollywood still #1? Check the numbers!

(Example reference)

8. Genre Rating Comparison (Radar Chart)

 **Goal:** Compare how different genres rate on IMDb

Visual Setup

- **Chart Type:** Radar Chart
- **Categories:** `_id` (Genre)

- Value: `avgRating` (Average IMDb Rating)

Expected Look

A spider-web chart showing rating spread across genres.

🤔 Which genre consistently gets high ratings?

(Example reference)



9. Ratings vs. Runtime (Scatter Plot)

 Goal: Find any relationship between movie runtime & ratings

Visual Setup

- Chart Type: Scatter Plot
- X-Axis: `runtime`
- Y-Axis: `rating`
- Point Label: `title`

Expected Look

A scatter plot showing how runtime impacts rating.

🕒 Do longer movies get better ratings?

(Example reference)



10. IMDB Votes vs. Rating (Scatter Plot with Trend Line)

 Goal: Understand if more votes correlate with better ratings

Visual Setup

- Chart Type: Scatter Plot with Trend Line
- X-Axis: `votes`
- Y-Axis: `rating`

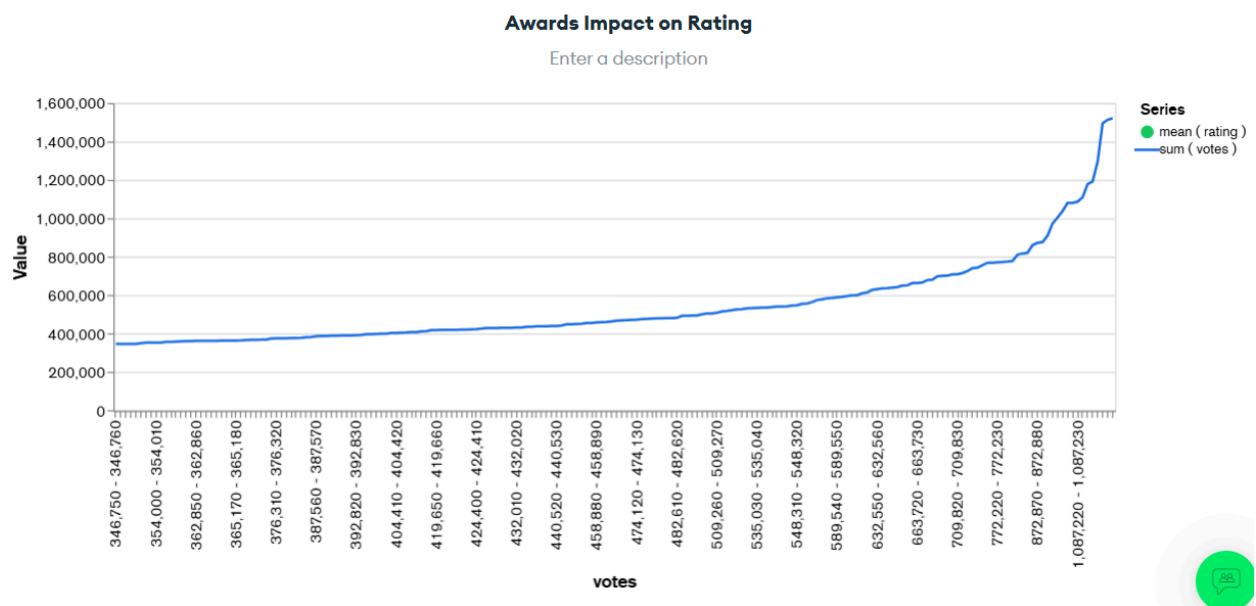
- Sort by: **votes** (Descending)

🏆 11. Awards Impact on Rating (Grouped Bar Chart)

🎯 Goal: Do more awards lead to higher ratings?

✅ Visual Setup

- Chart Type: Grouped Bar Chart
- X-Axis: **_id.awards**
- Y-Axis: **avgRating**
- Grouped by: **_id.genre**



Awards Impact on Rating

Enter a description

