

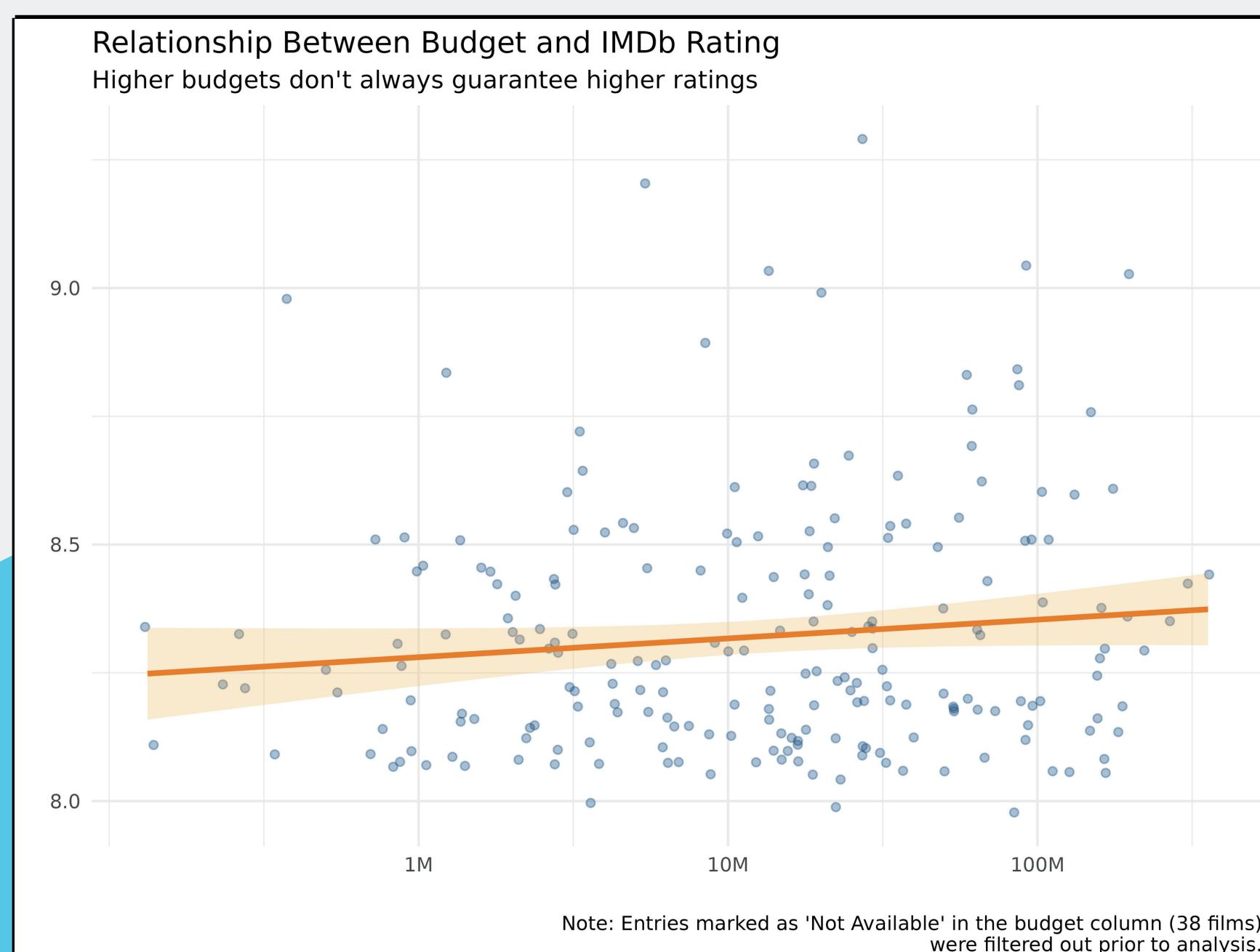


ANALYSIS OF BUDGET VS IMDB RATING



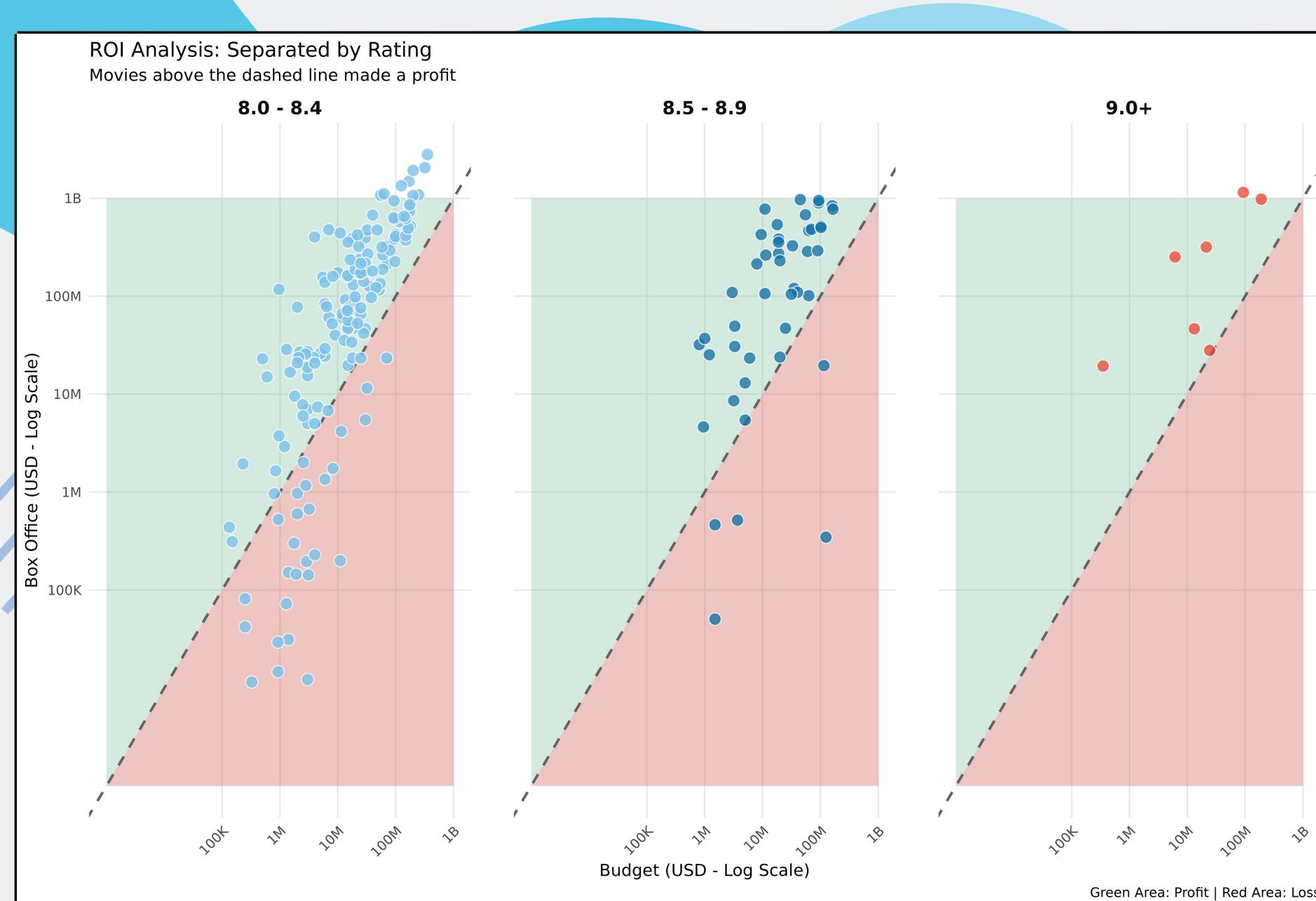
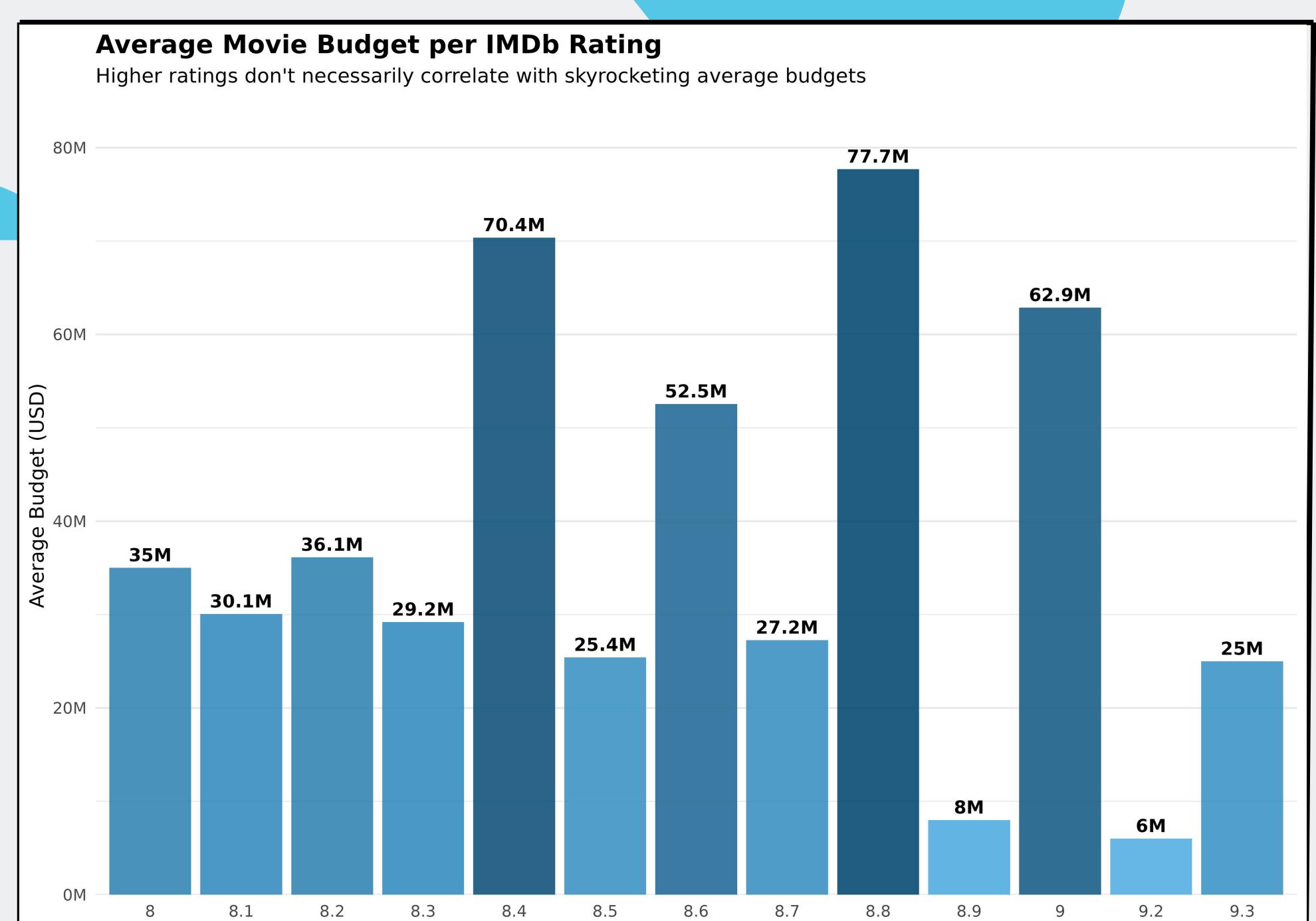
Dataset

This poster analyzes whether there is a relationship between IMDb ratings and budgets.



There is a weak positive correlation between budget and IMDb ratings. While a higher budget slightly increases the chances of a better rating, it is not a guarantee of success. Many low-budget films outperform "blockbusters," proving that artistic quality is independent of financial investment.

Analysis of Average Budget by Rating The bar chart reveals an irregular pattern in spending across different rating tiers. Interestingly, the highest average budgets are seen in the 8.8 and 8.4 rating categories, rather than the absolute highest-rated films (9.2 or 9.3). This suggests that massive financial investments are often associated with high-quality "blockbusters," but the most critically acclaimed masterpieces (9.0+) are often produced with relatively leaner budgets.



Budget vs. Box Office: ROI Analysis This chart visualizes the financial efficiency of movies. The dashed line represents the "break-even" point where budget equals earnings.

- High Profitability:** A significant cluster of films sits deep within the "Profit Zone," with many low-to-mid-budget movies earning 10x to 100x their investment.
- The Risk of High Budgets:** While most high-budget films (above \$100M) stay in the profit zone, their ROI ratio is often lower than smaller, successful indie films.
- Rating Impact:** Darker red points (higher ratings) are predominantly located in the upper-right section, indicating that critical acclaim often correlates with commercial sustainability in high-budget productions.

The cinema density landscape this heatmap visualizes the concentration of film productions. The brightest areas indicate the "sweet spot" of the industry.

- The Industry Core:** The highest density of films (brightest center) is NOT found in the high-budget/high-rating corner. Instead, the vast majority of movies cluster around mid-range budgets (\$10M - \$50M) with average ratings (8.00 - 8.20).
- The Blockbuster Paradox:** The top-right corner (High Budget >\$100M & High Rating >8.5) is noticeably sparse. This visually demonstrates that pouring money into a project rarely guarantees a "masterpiece" status. Critical acclaim is elusive and cannot simply be bought with higher production values.

