

Movie Success Insights: Statistics, Popularity and Timing Considerations

Team/Contributors

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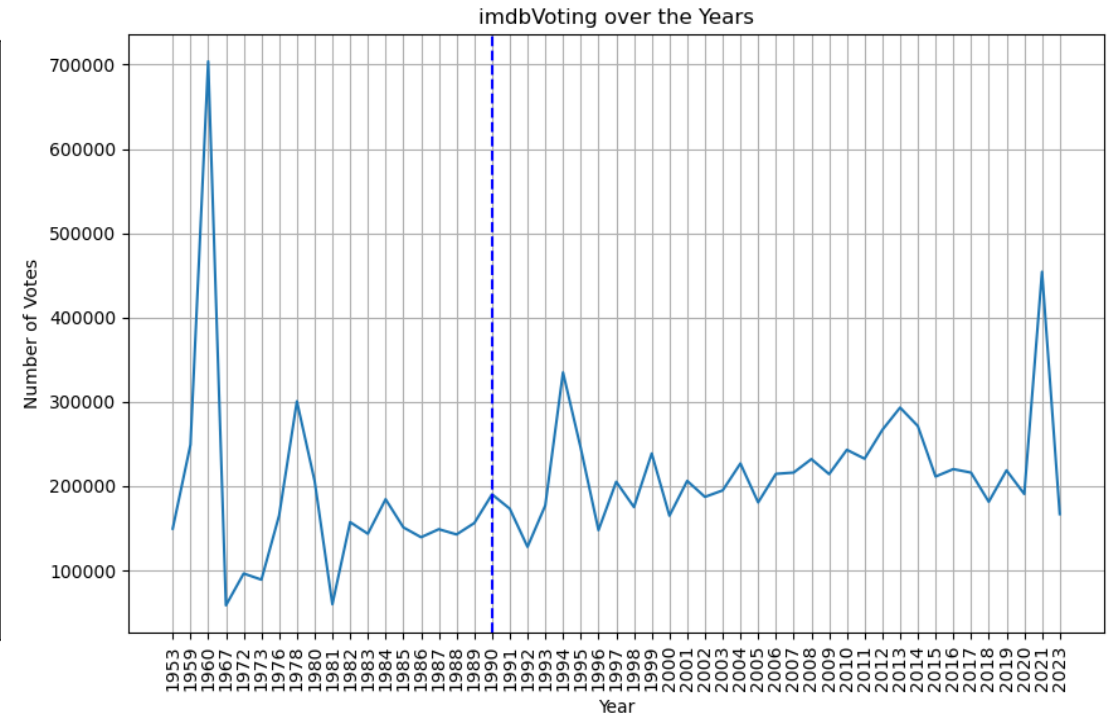
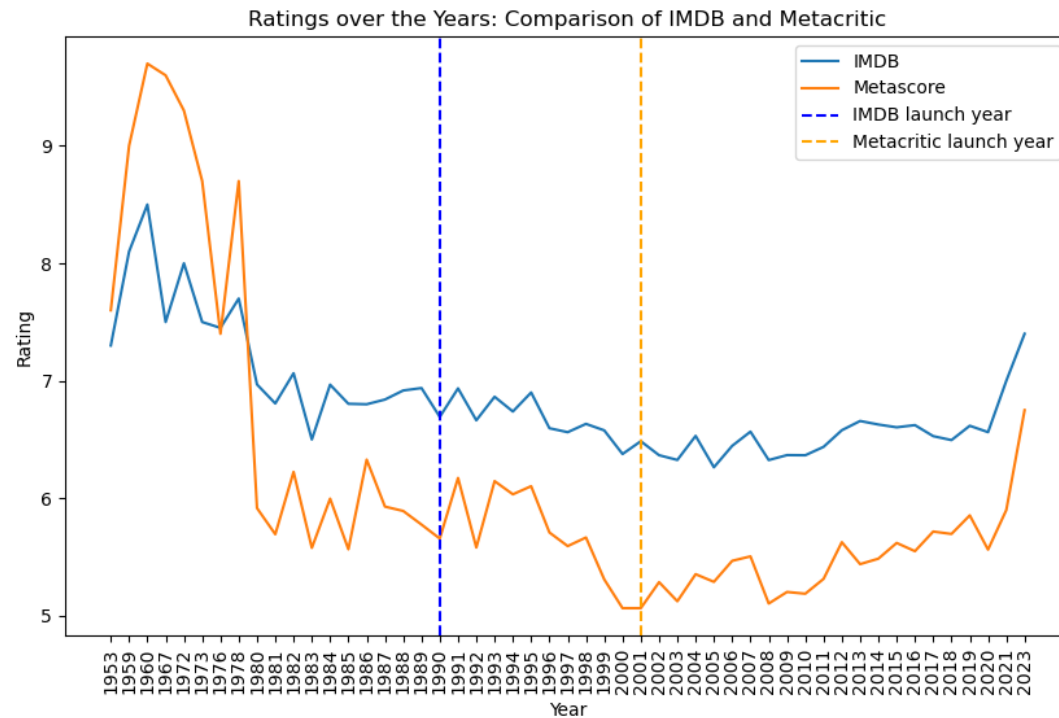
Mohammed Sadek Ahmed

Research Questions

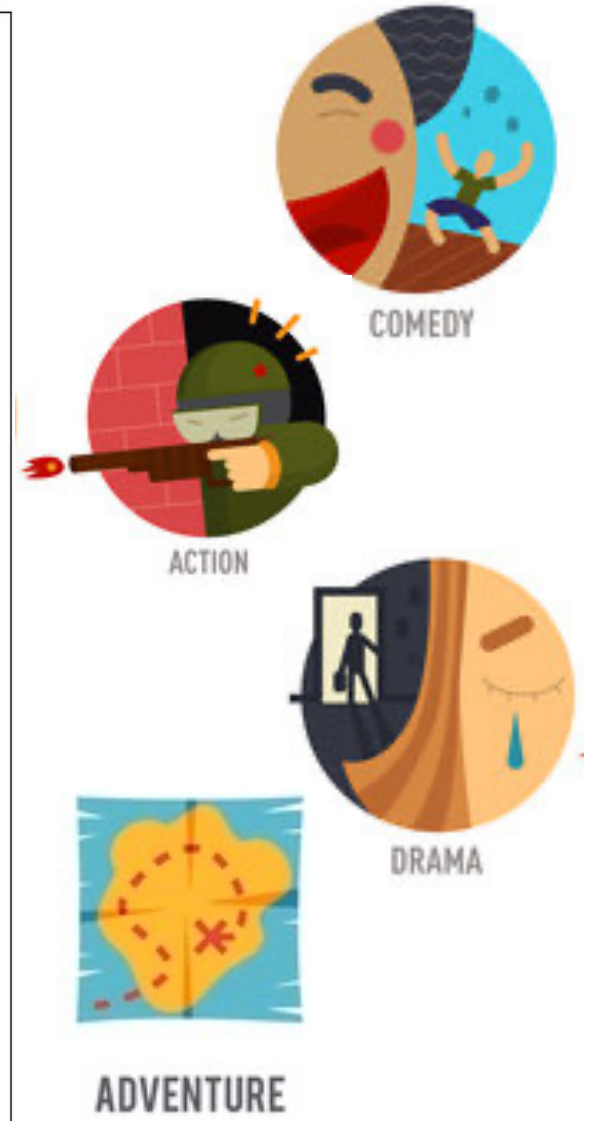
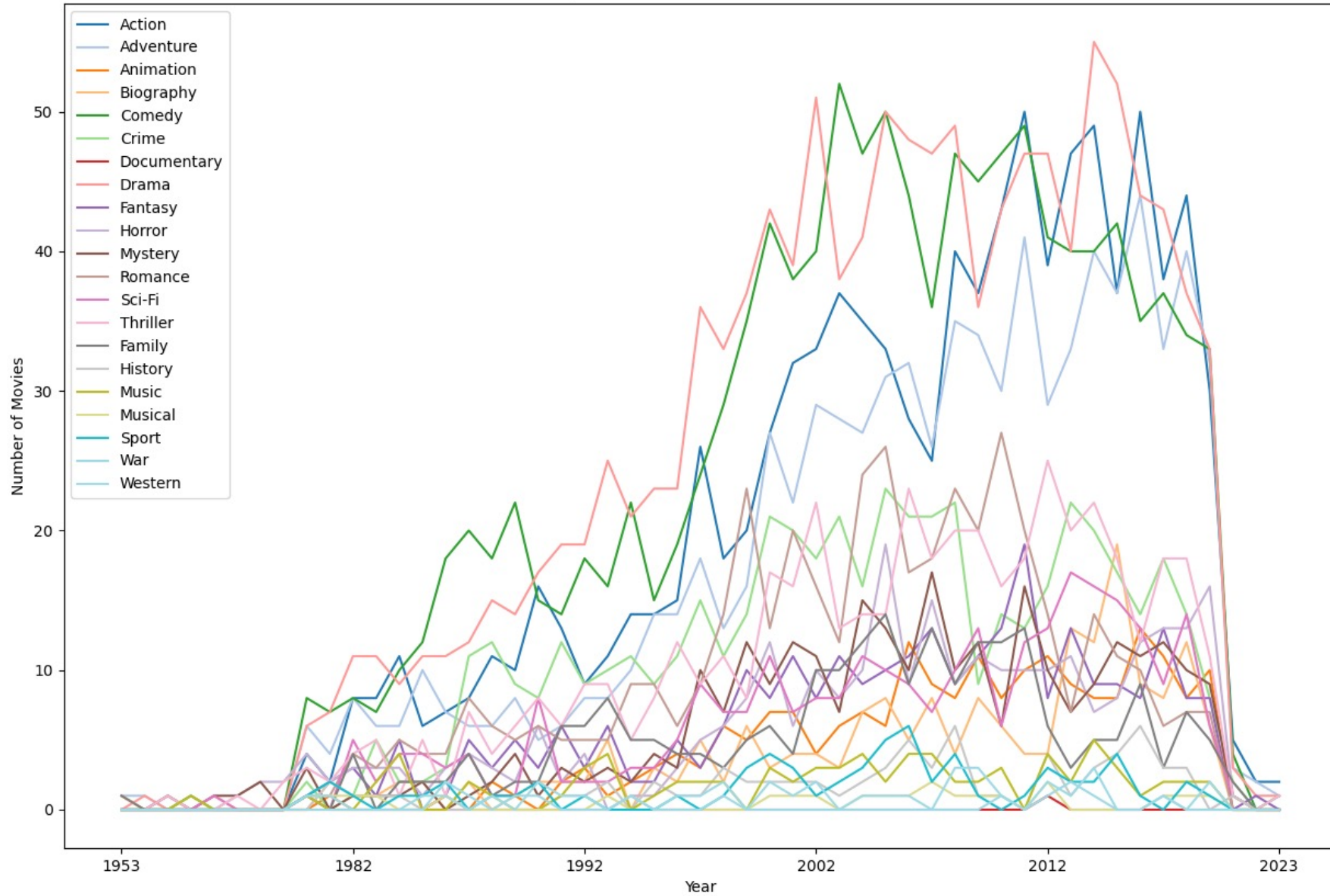
- How have movie ratings evolved over the years, and are there discernible trends within different genres?
- Which movie genres reign supreme in popularity, and is there a correlation between a movie's genre and its commercial success?
- Do certain directors or actors wield a significant influence on a movie's success or ratings?
- How does the duration of a movie impact audience reception and ratings? Are longer or shorter movies more favorably received?
- Is there a relationship between a movie's budget, box office performance, ratings, and how timing influences these dynamics?



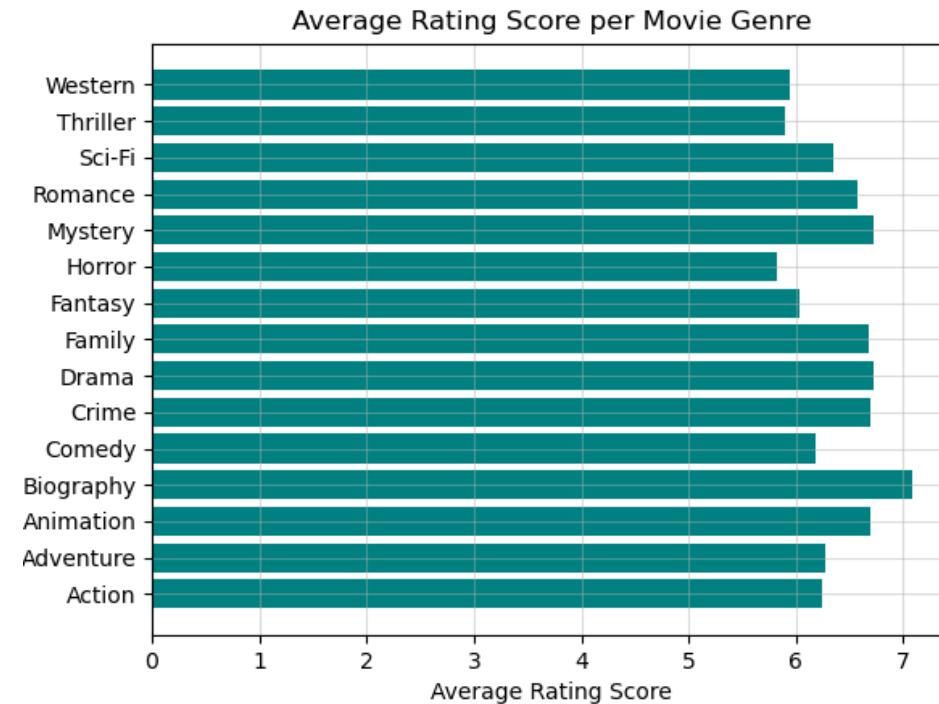
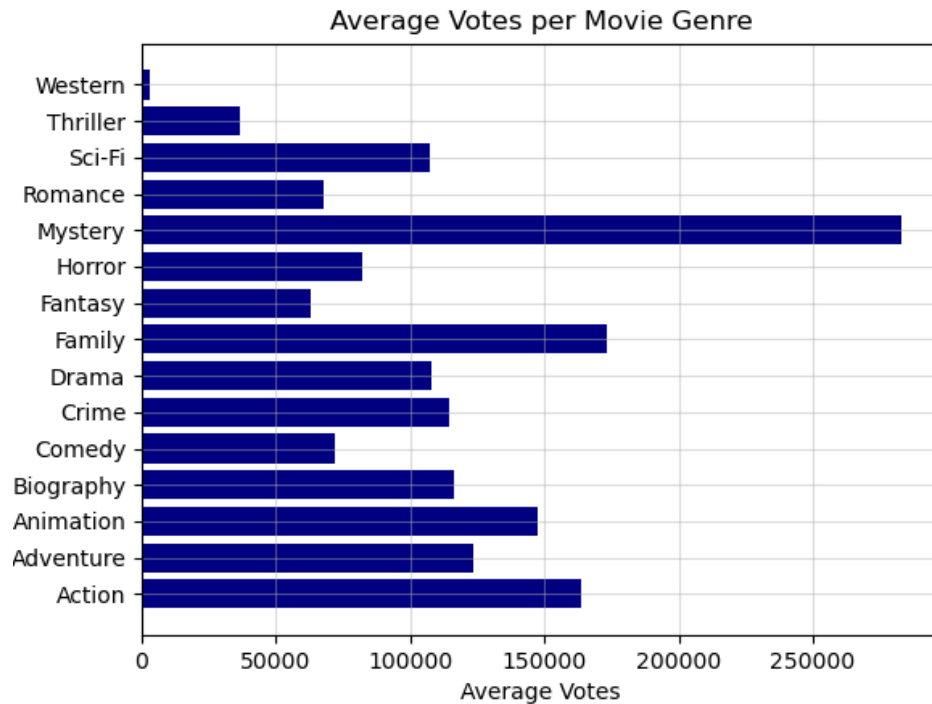
1. How have movie ratings evolved over the years, and are there discernible trends within different genres?



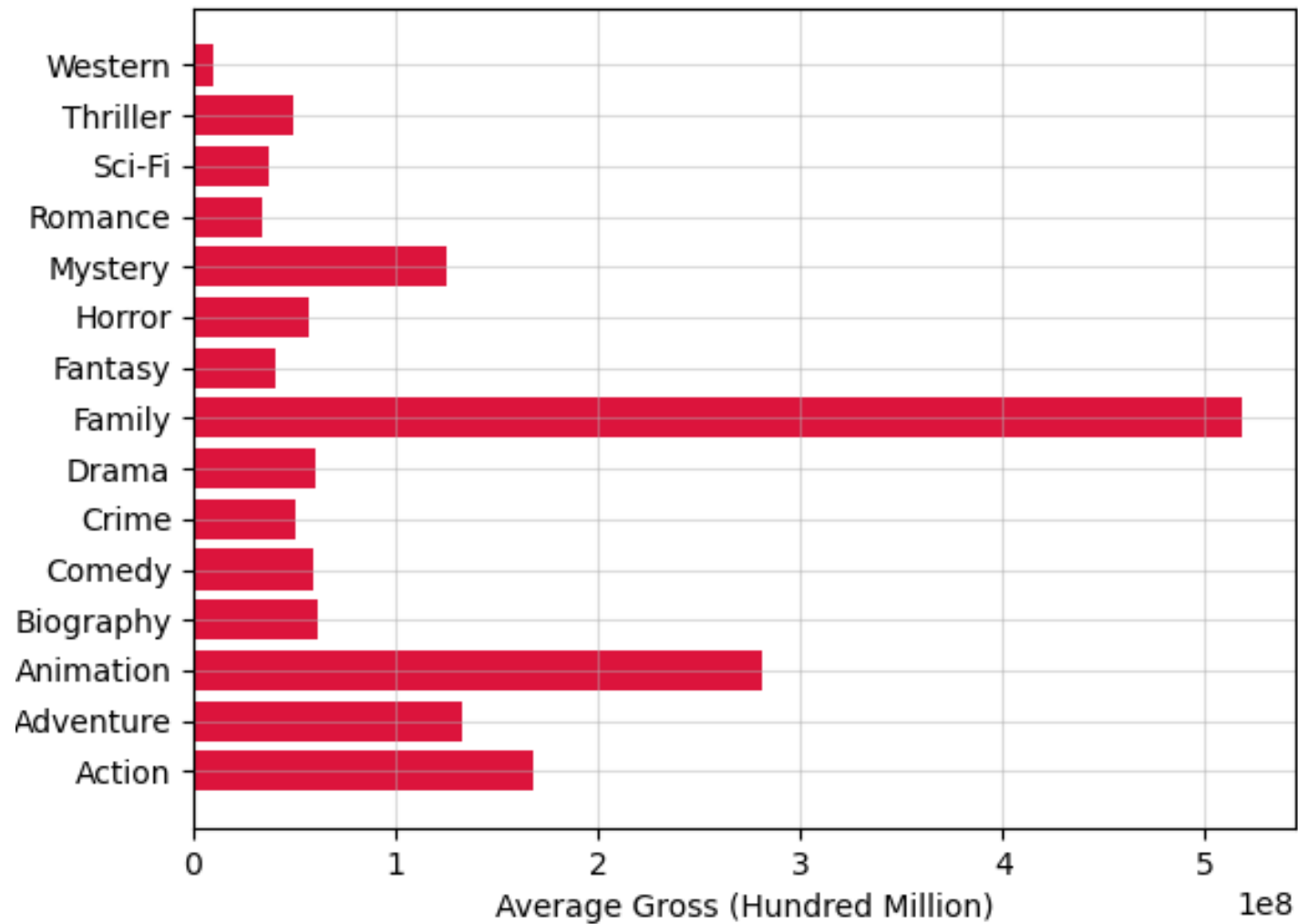
Comparison of Genres over the Years

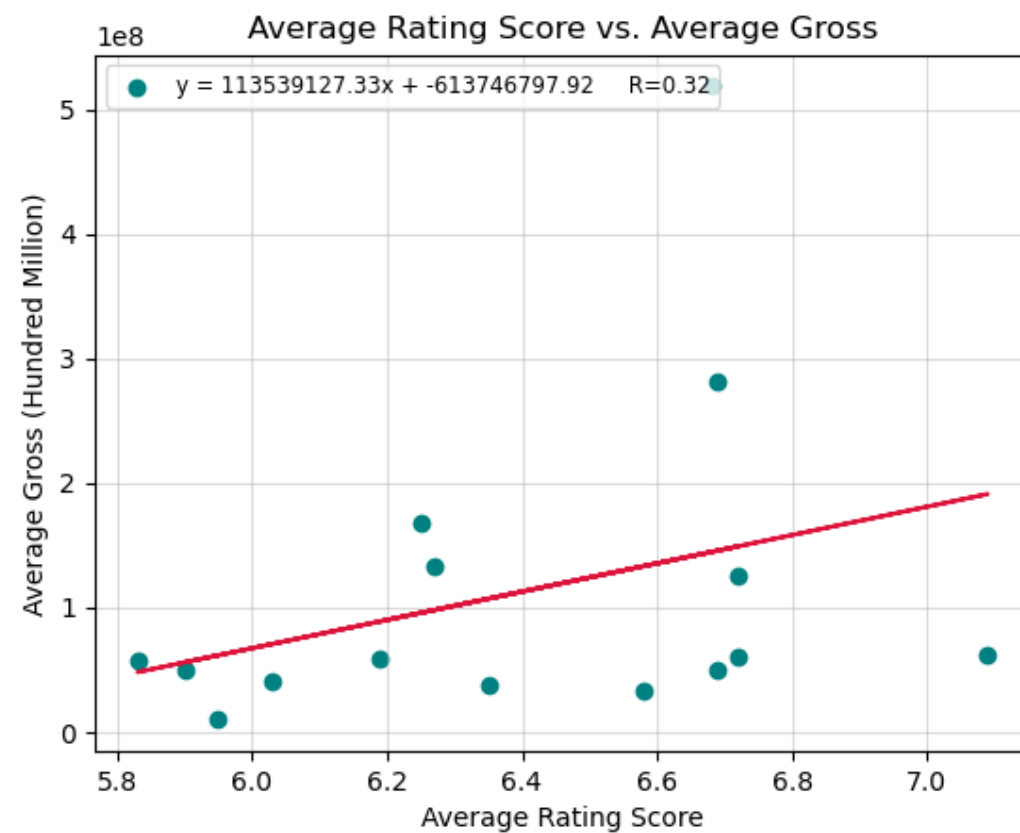
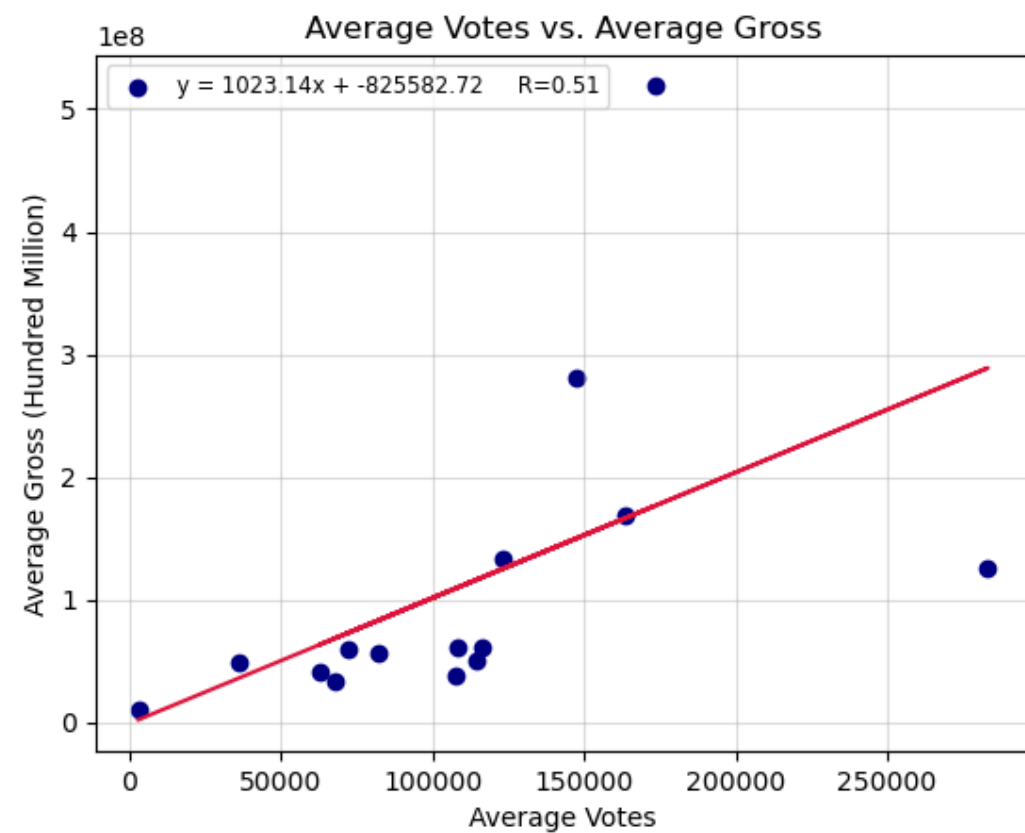


2. Which movie genres reign supreme in popularity, and is there a correlation between a movie's genre and its commercial success?

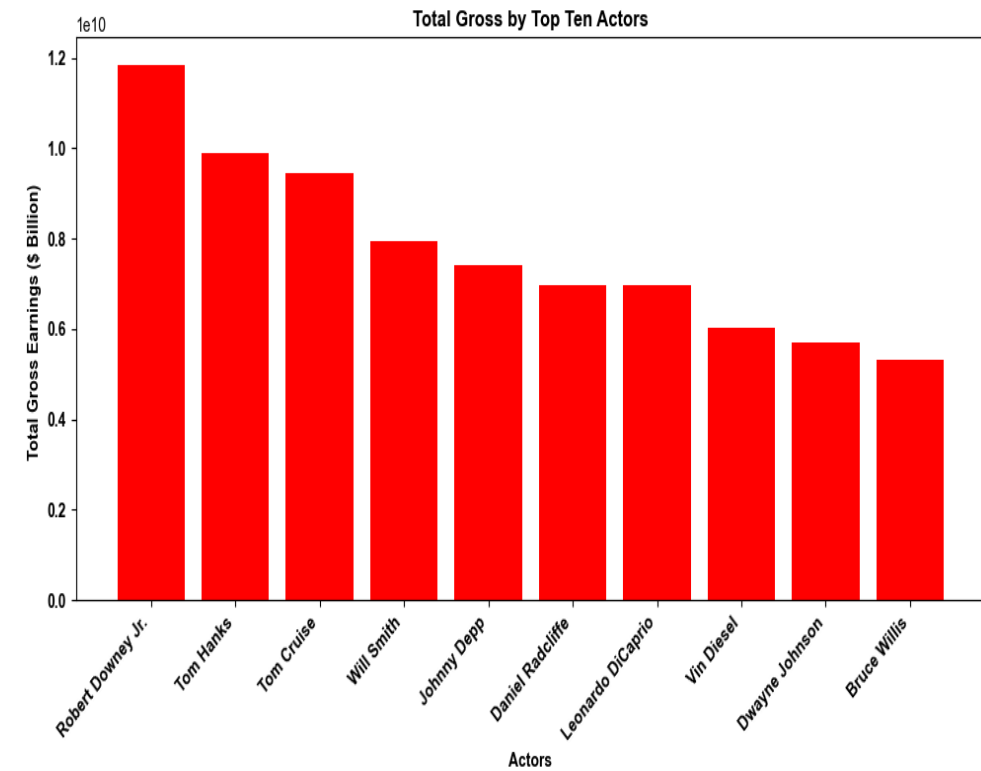
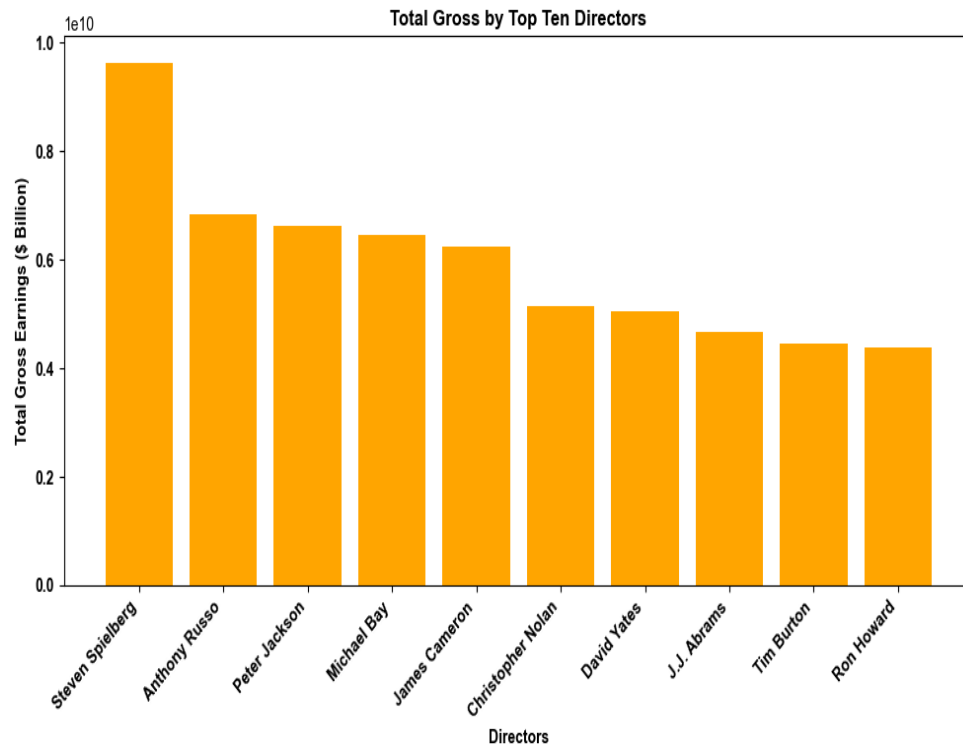


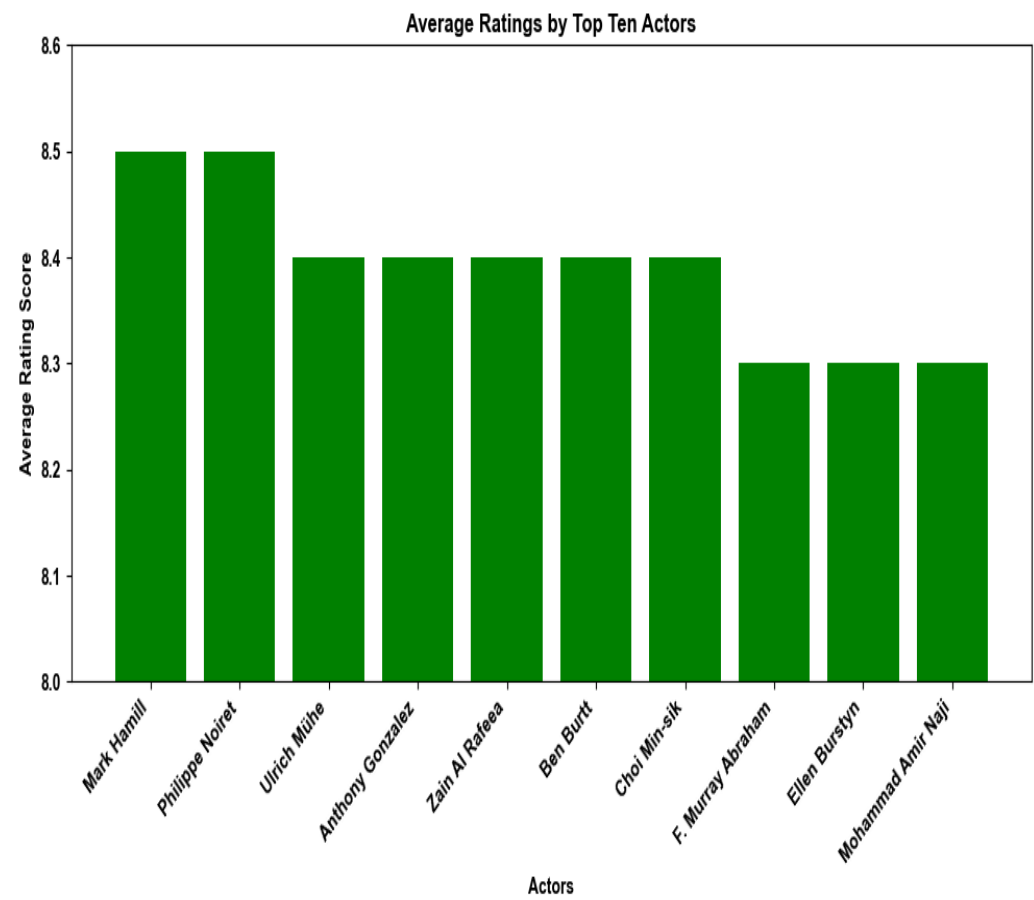
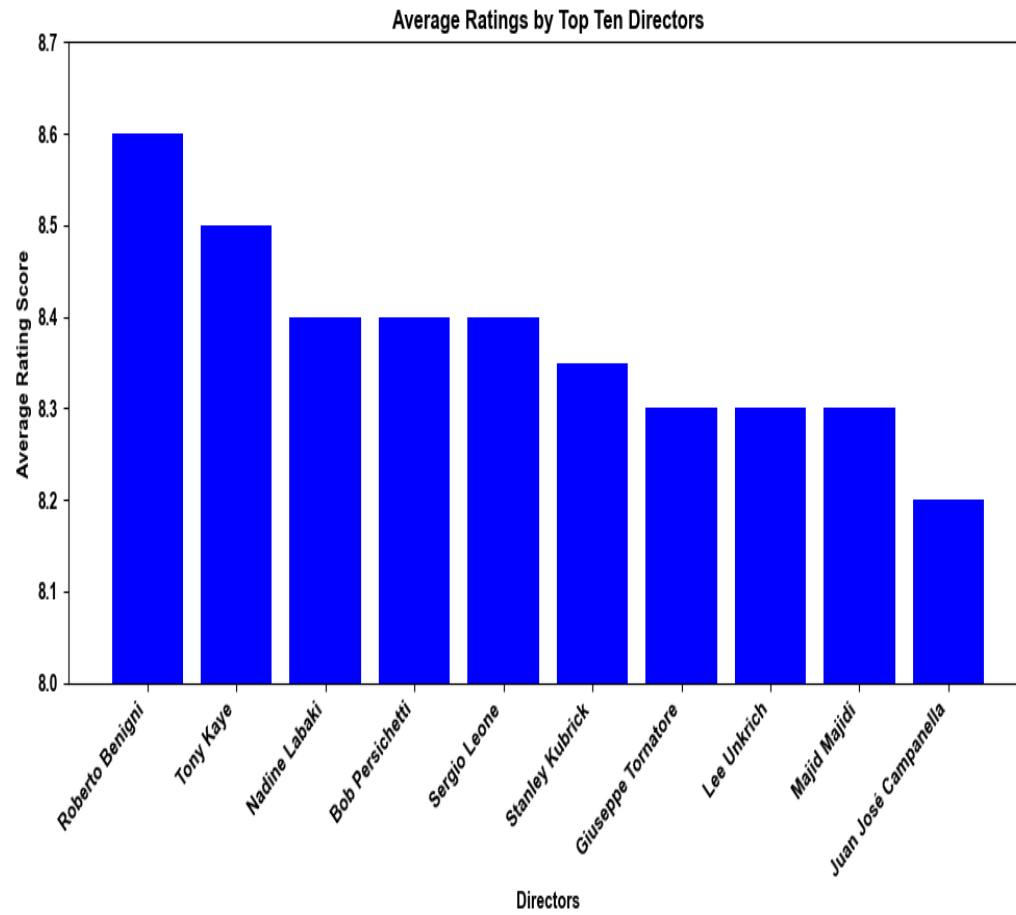
Average Gross per Movie Genre

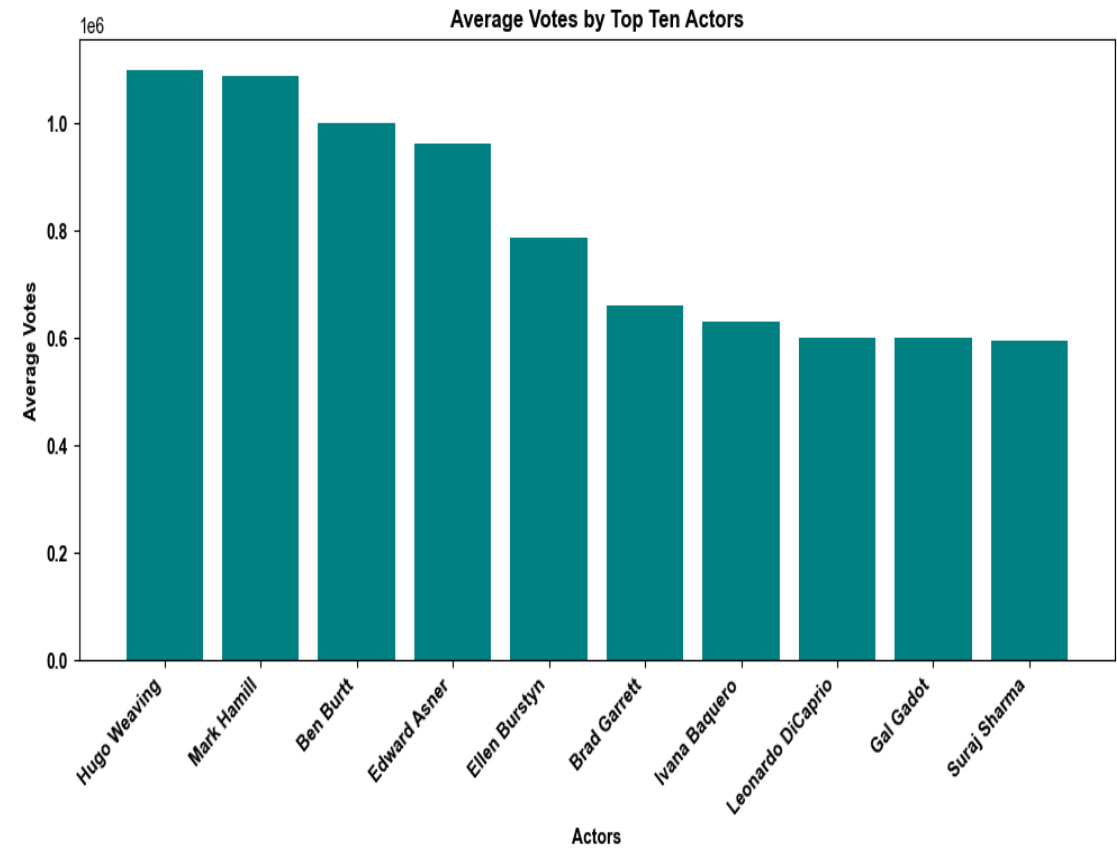
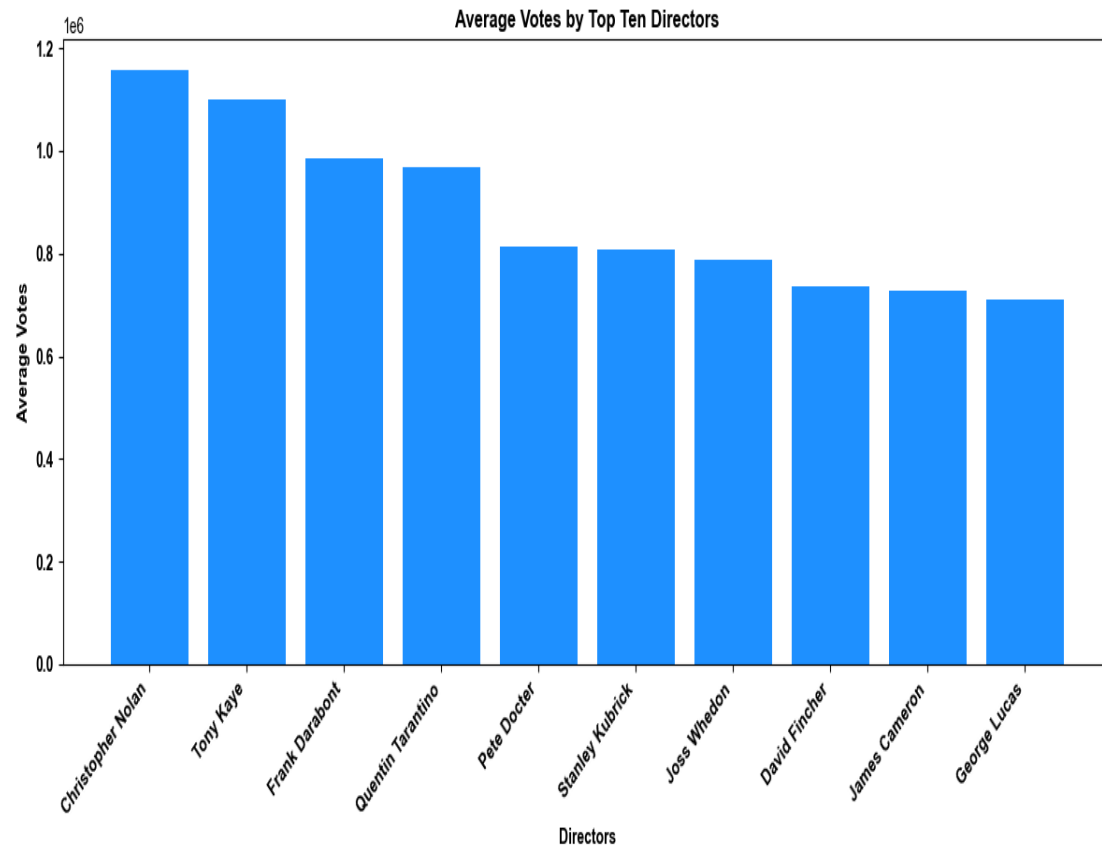


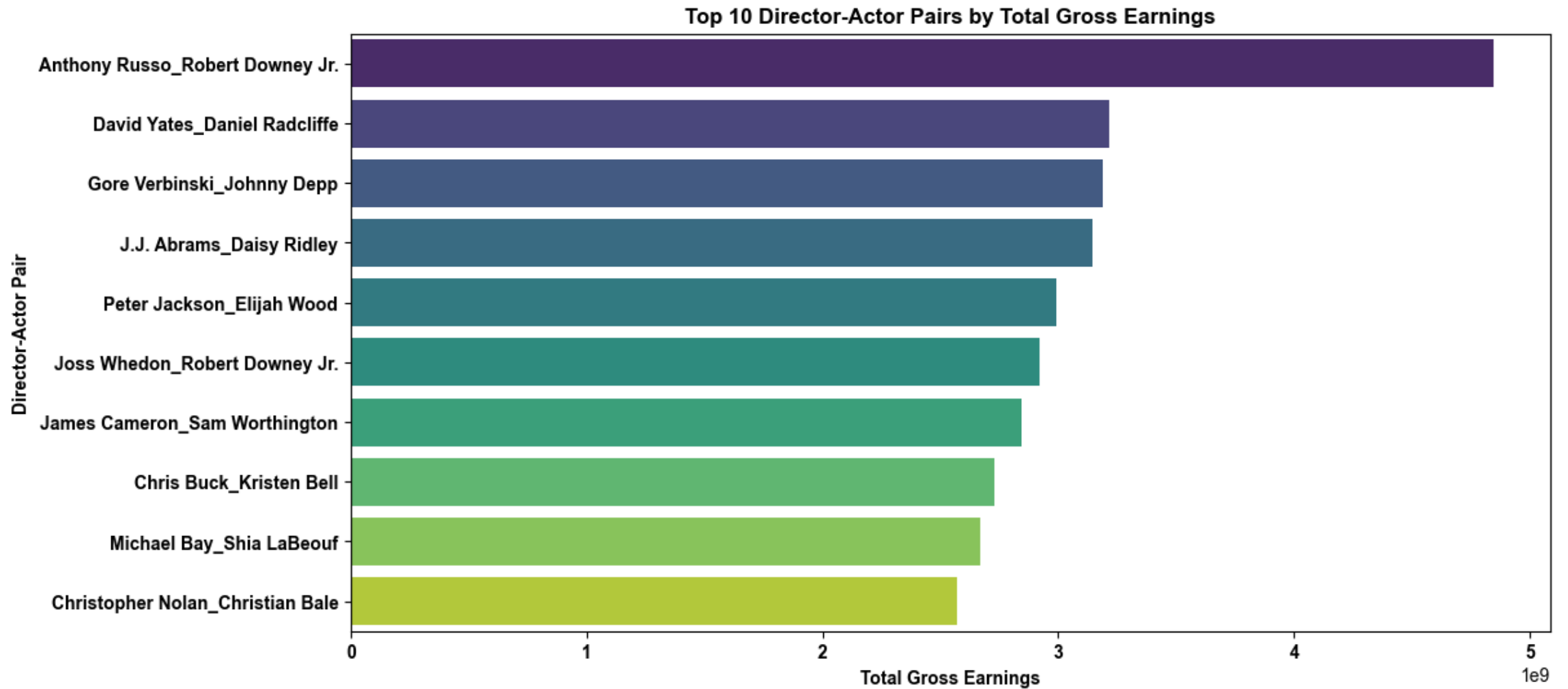


3. Do certain directors or actors wield a significant influence on a movie's success or ratings?

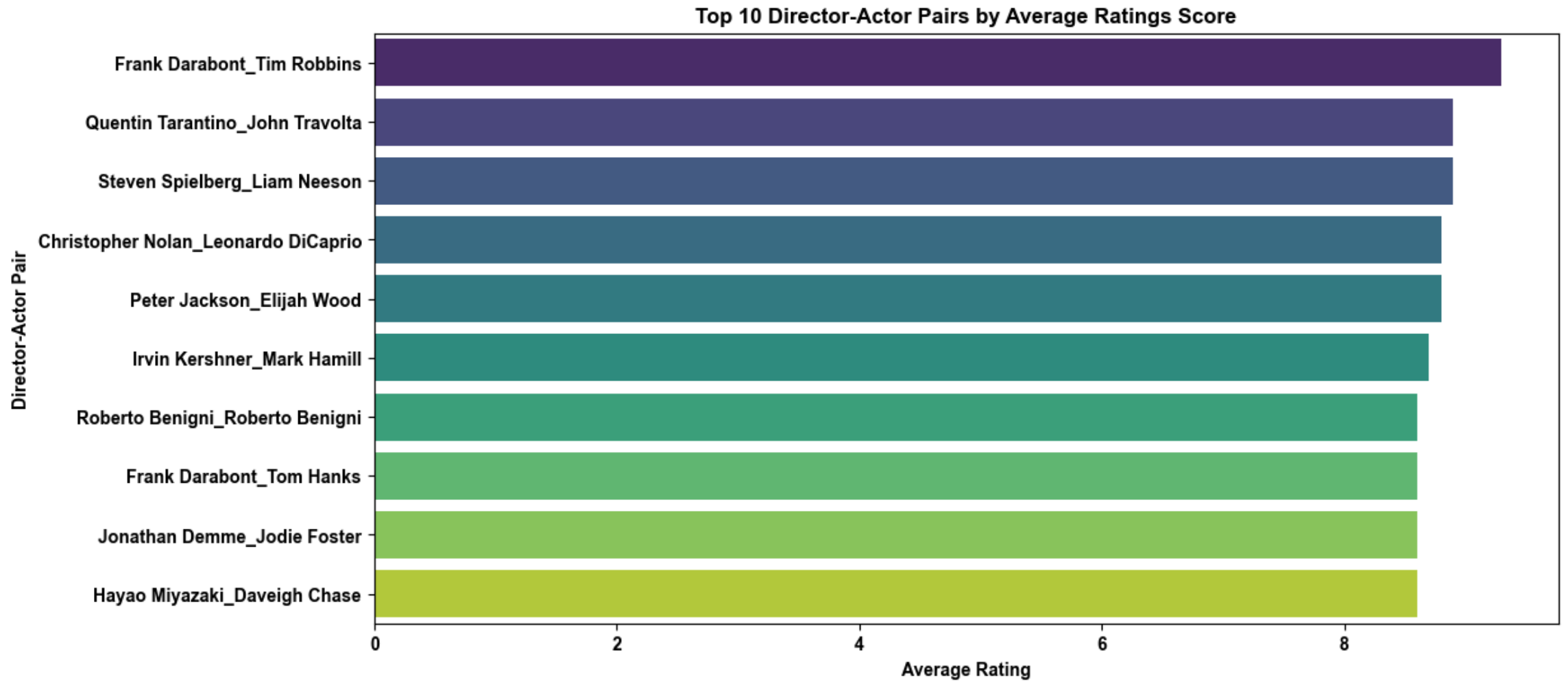






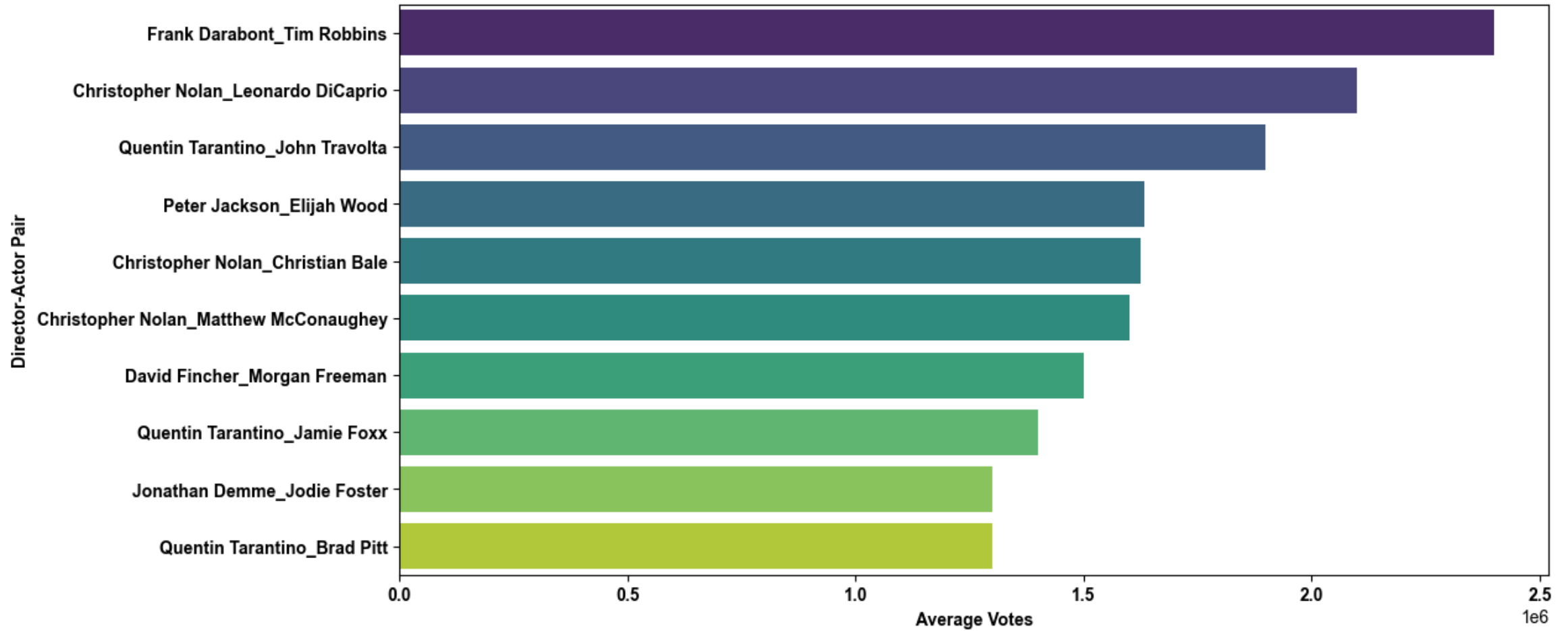


t-statistic: -1.3211, p-value: 0.1865, significant at $p < 0.05$.

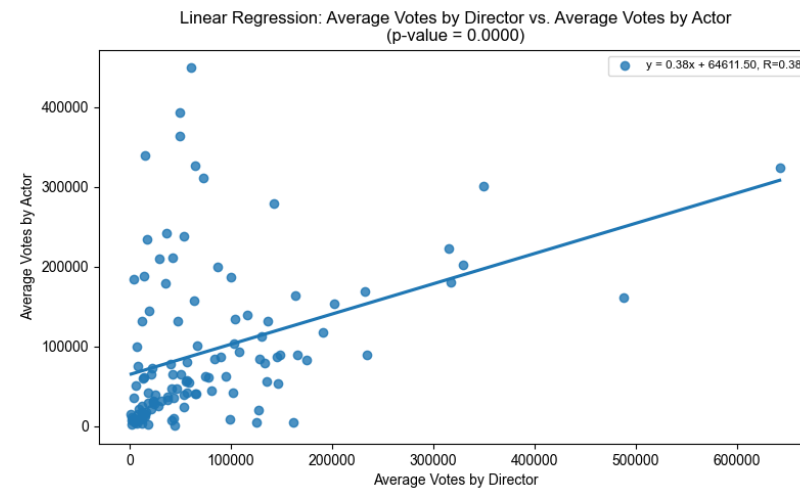
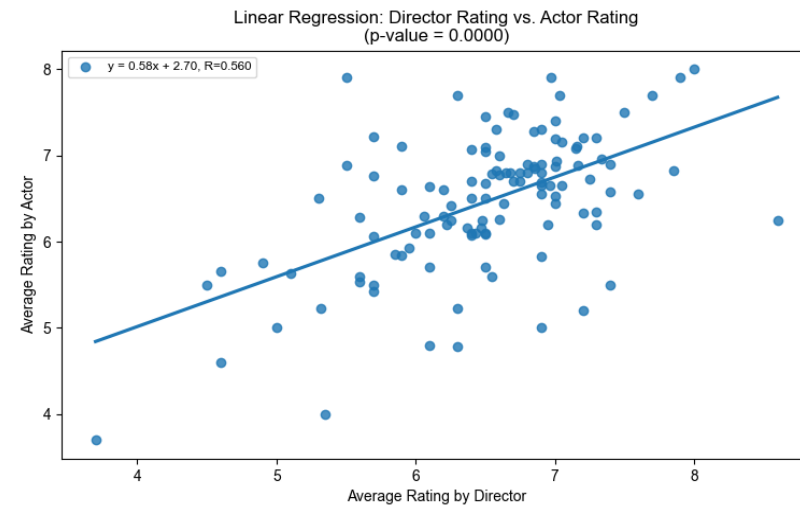
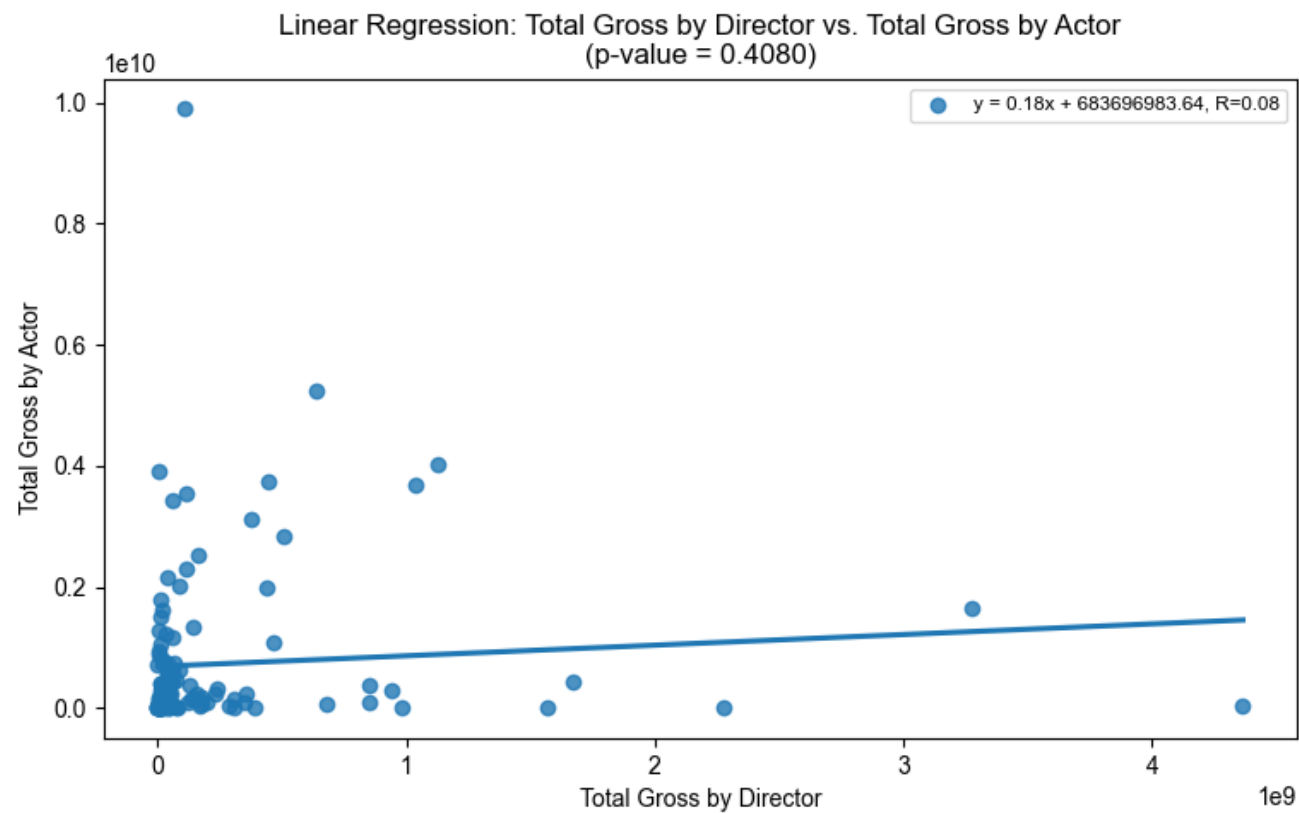


t-statistic: -1.9268, p-value: 0.0541, significant at $p < 0.05$.

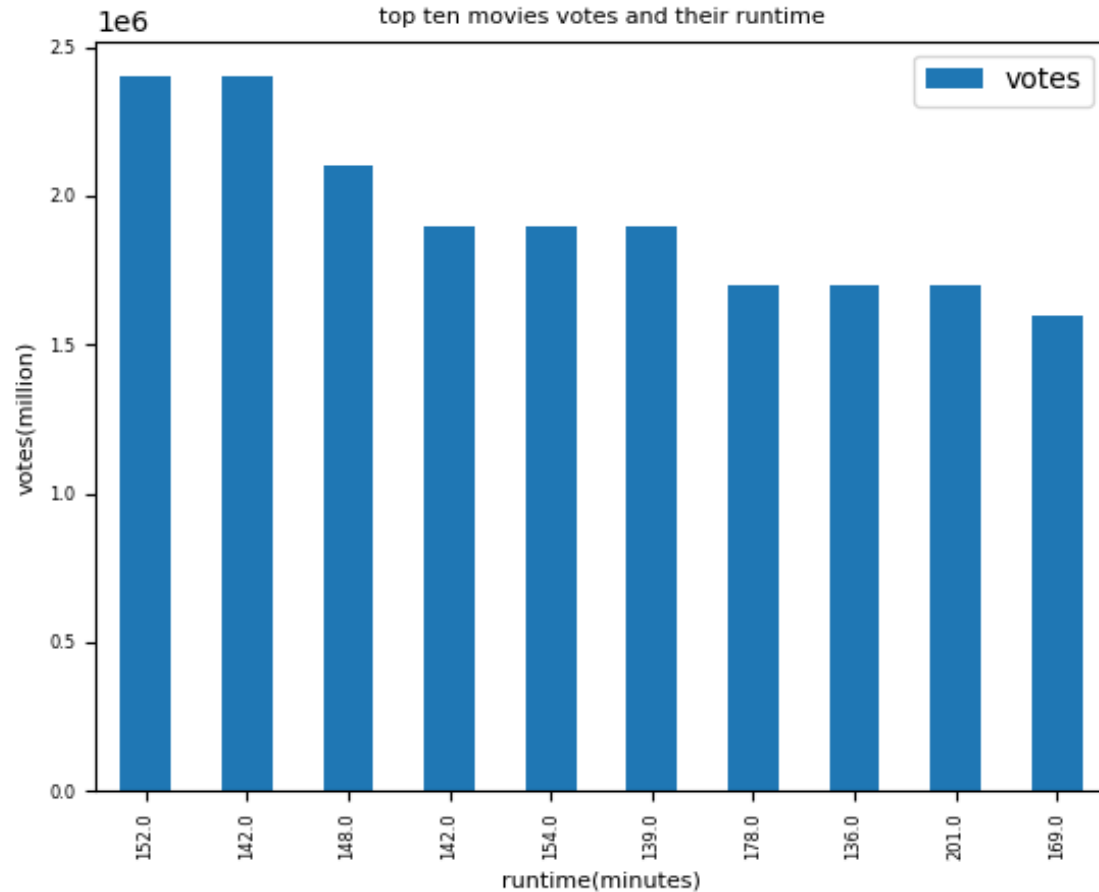
Top 10 Director-Actor Pairs by Average Votes

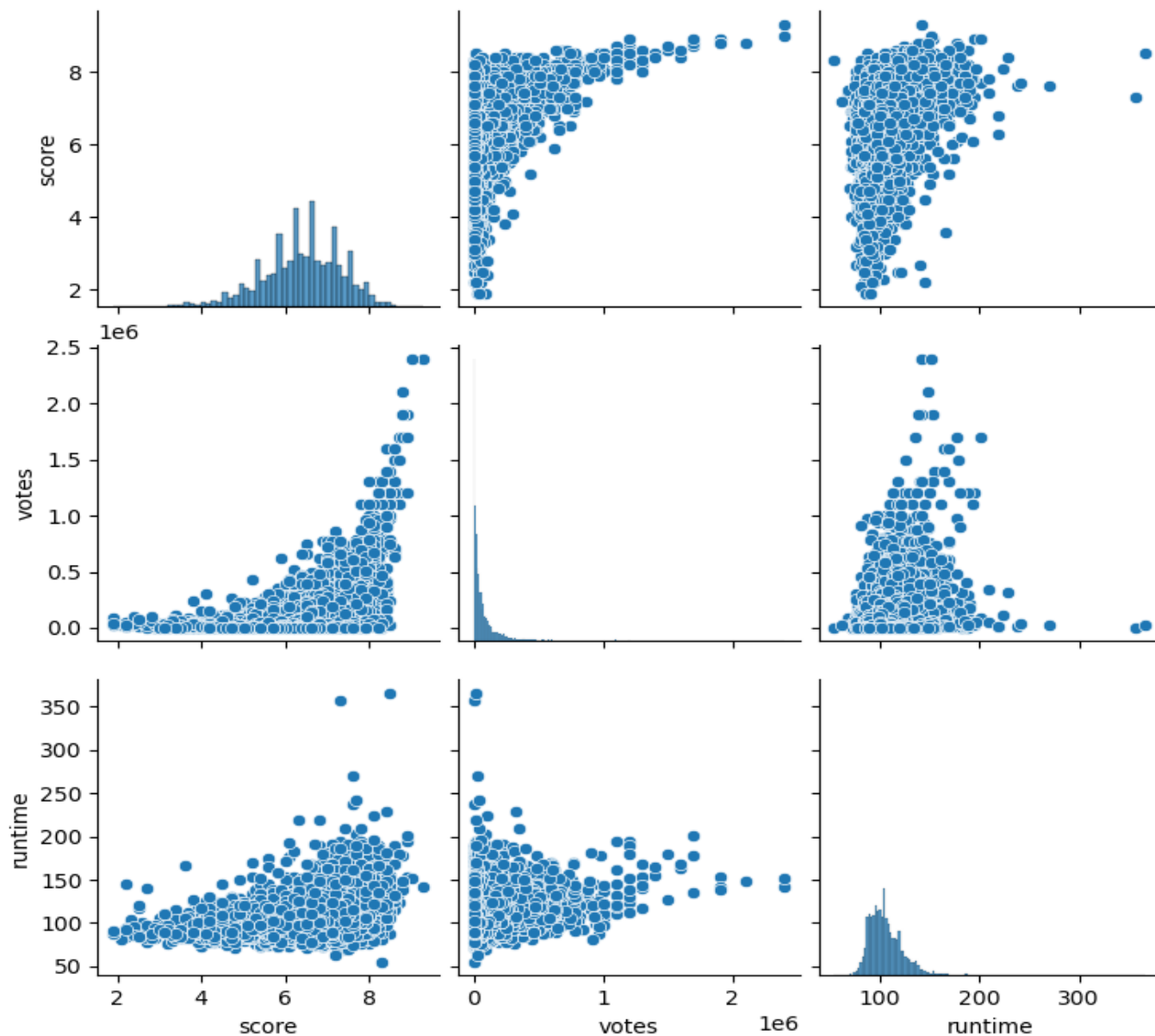


t-statistic: 0.0746, p-value: 0.9405 , significant at $p < 0.05$.

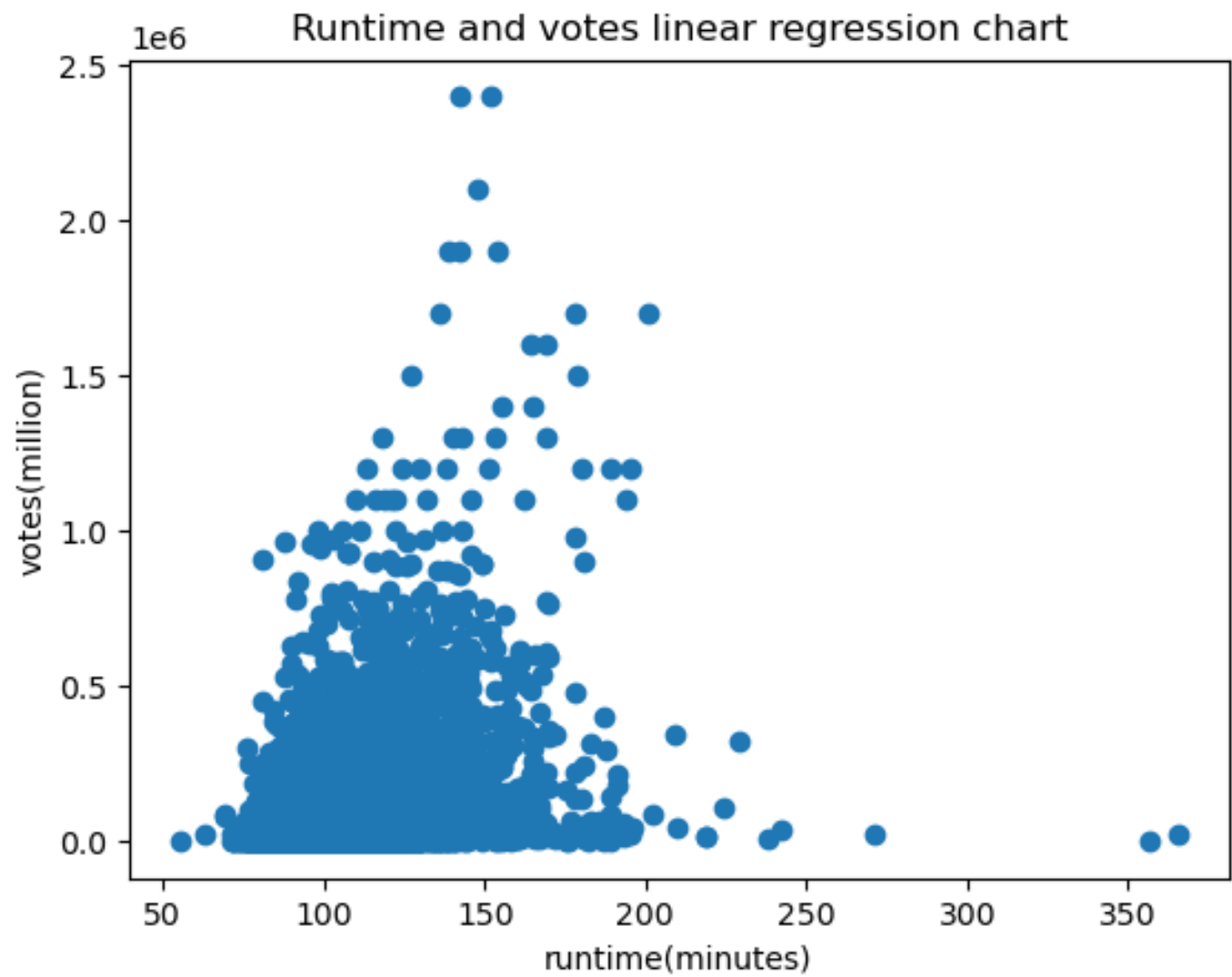


4. How does the duration of a movie impact audience reception and ratings? Are longer or shorter movies more favorably received?



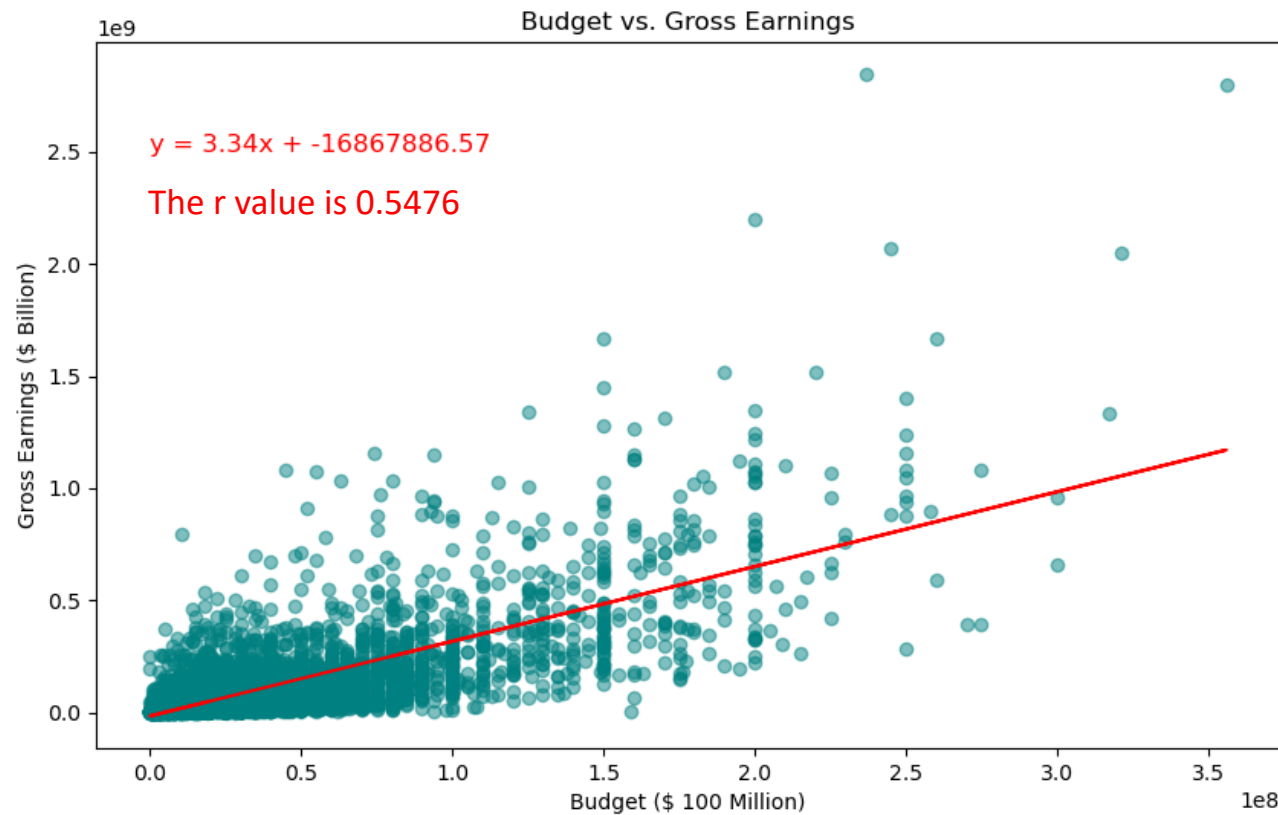


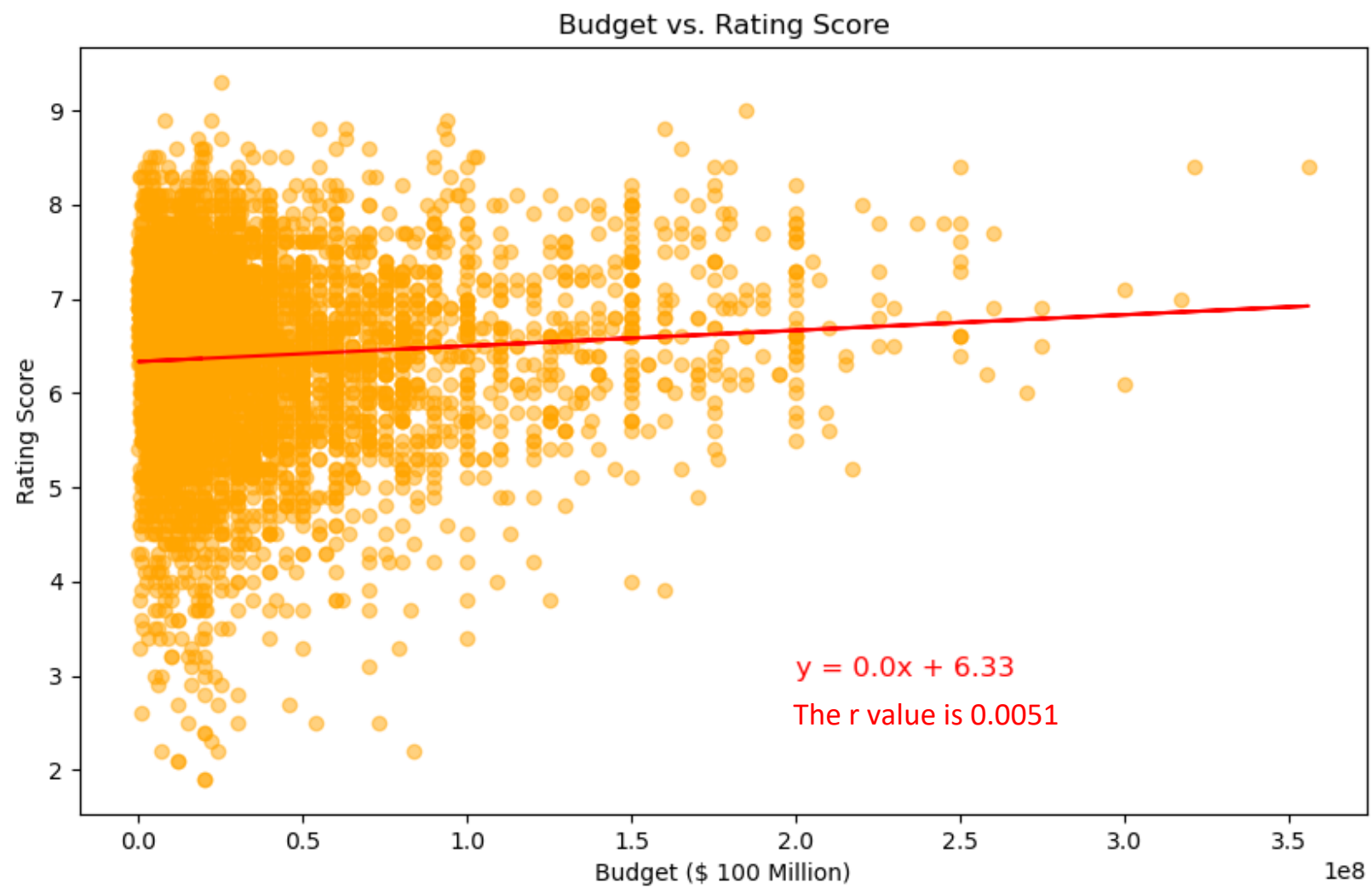
	score	votes	runtime
score	1.000000	0.409182	0.399451
votes	0.409182	1.000000	0.309212
runtime	0.399451	0.309212	1.000000

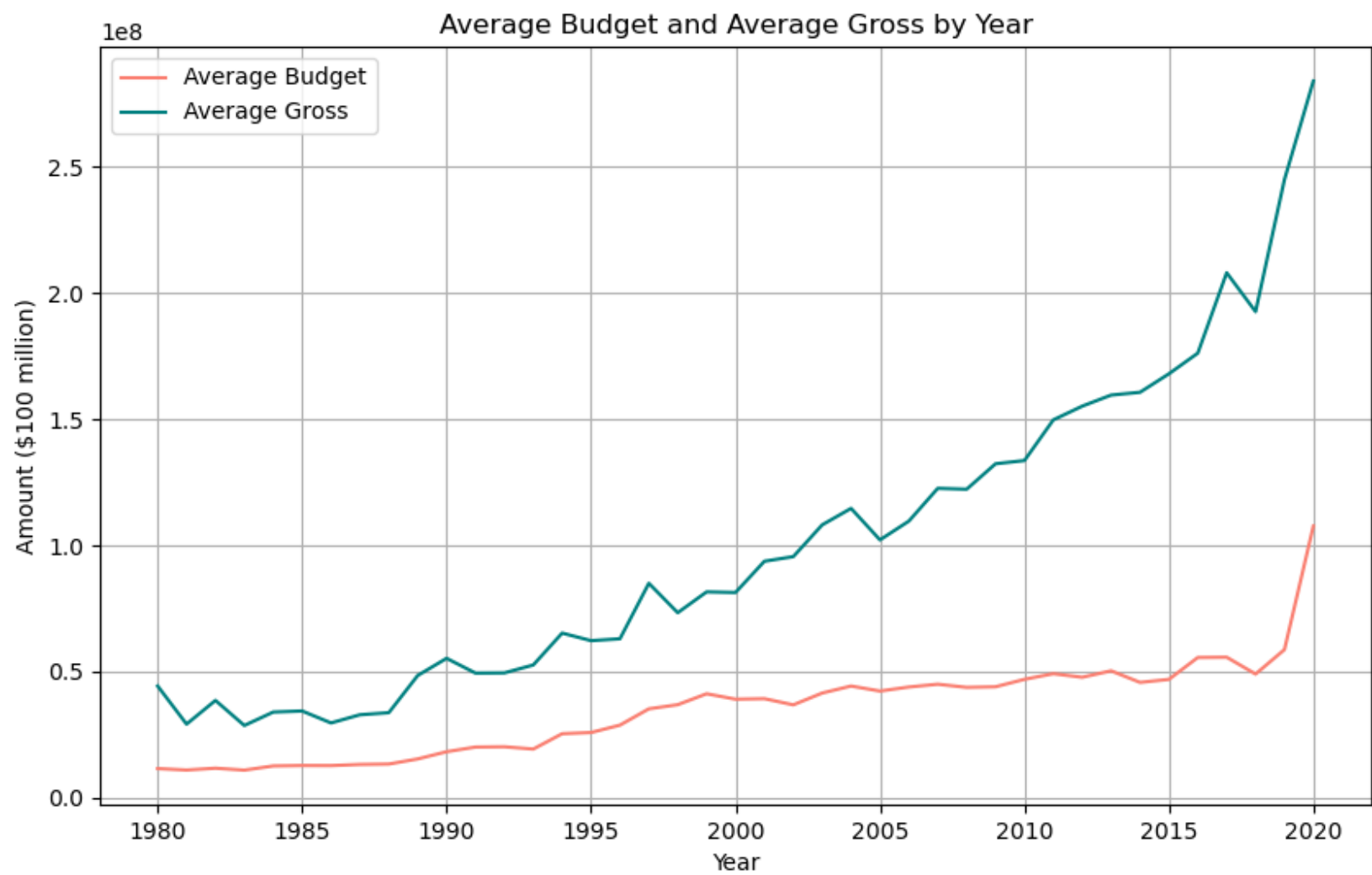


	score	votes	runtime
score	1.000000	0.409182	0.399451
votes	0.409182	1.000000	0.309212
runtime	0.399451	0.309212	1.000000

5. Is there a relationship between a movie's budget, box office performance, ratings, and how timing influences these dynamics?







The coefficient value is
0.5476
The p value is 3.36e-19



Summary

- Stakeholders can benefit by **adopting strategic approaches** to release, marketing, talent investment, budgeting, and adaptation.
- These measures aim to **navigate the dynamic landscape**, contribute to **impactful cinematic experiences**, and **establish a lasting influence** in this competitive environment.
- While a **moderate correlation exists** with some of the variables, it's **essential to consider other factors** such as marketing strategies, script quality, competition etc. when making decisions.
- It's important to note that **correlation doesn't imply causation!**