

Data Science

The Movie Industry

Bao Tram Duong

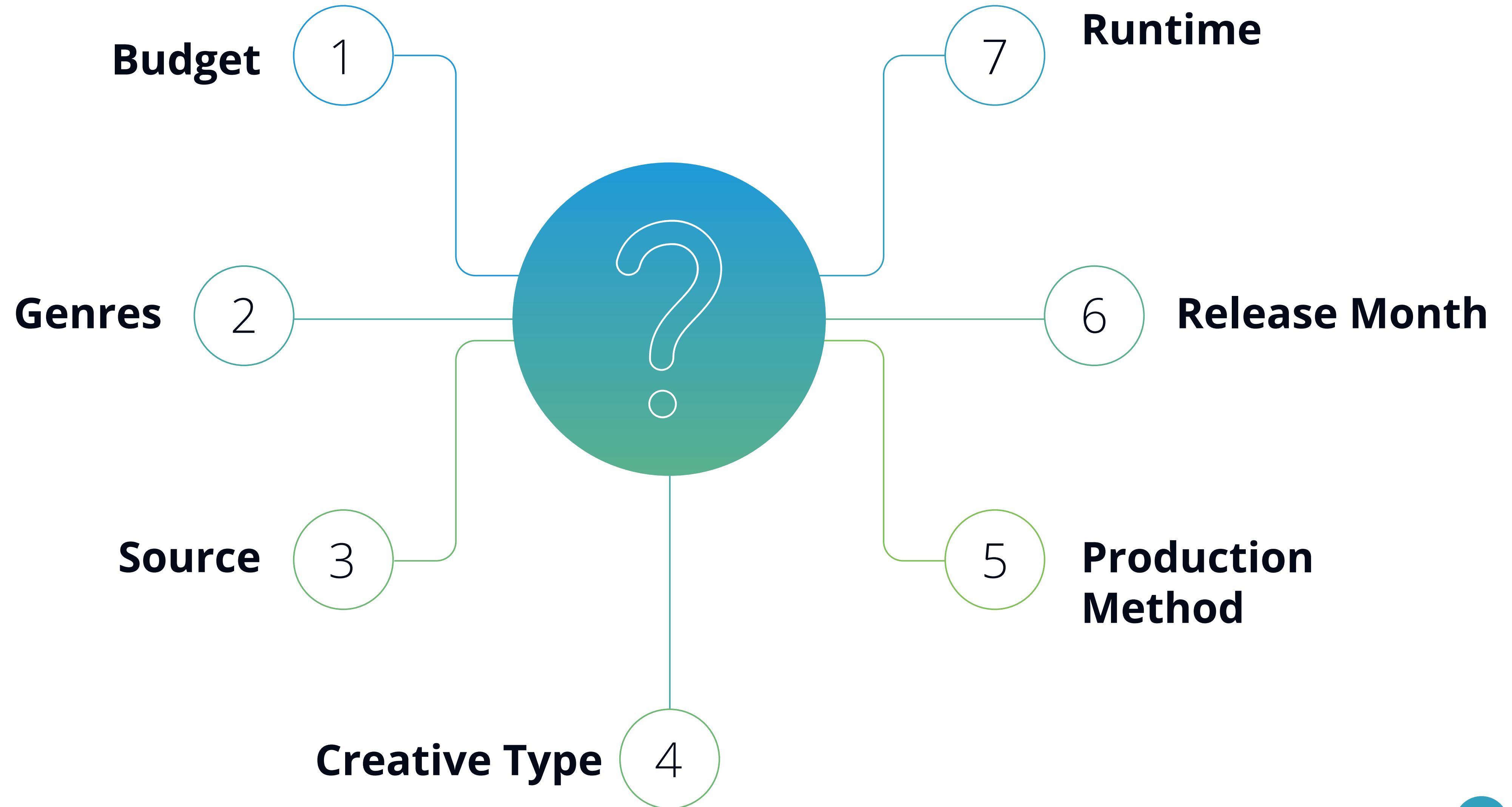


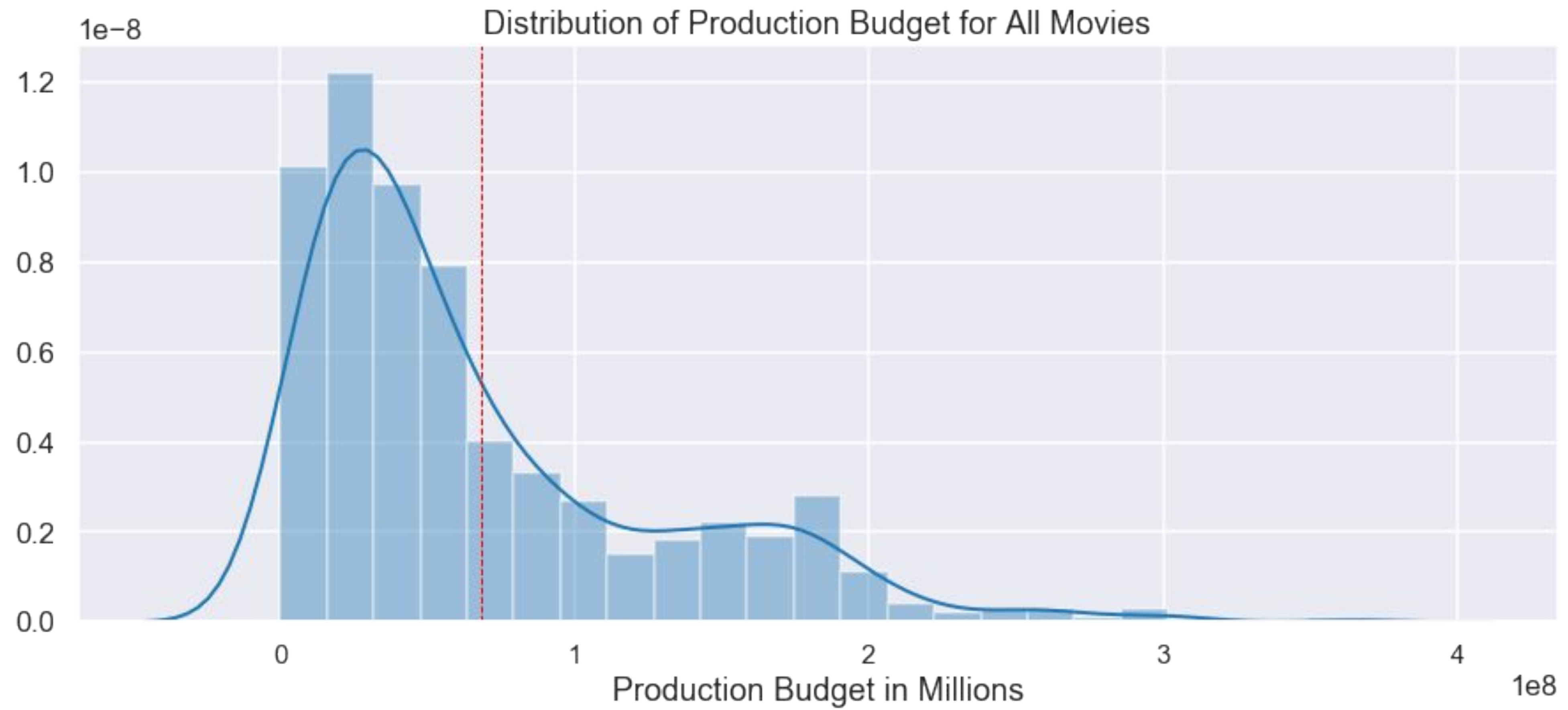
Introduction

- The movie industry generated \$35.3B in revenue in 2019
- The U.S is among the biggest film industries in the world

We are here to help **Microsoft** to become a powerful contributor in this industry.

Business Problems





- **\$68M** to produce a major studio movie
- **\$35M** for marketing and distributions



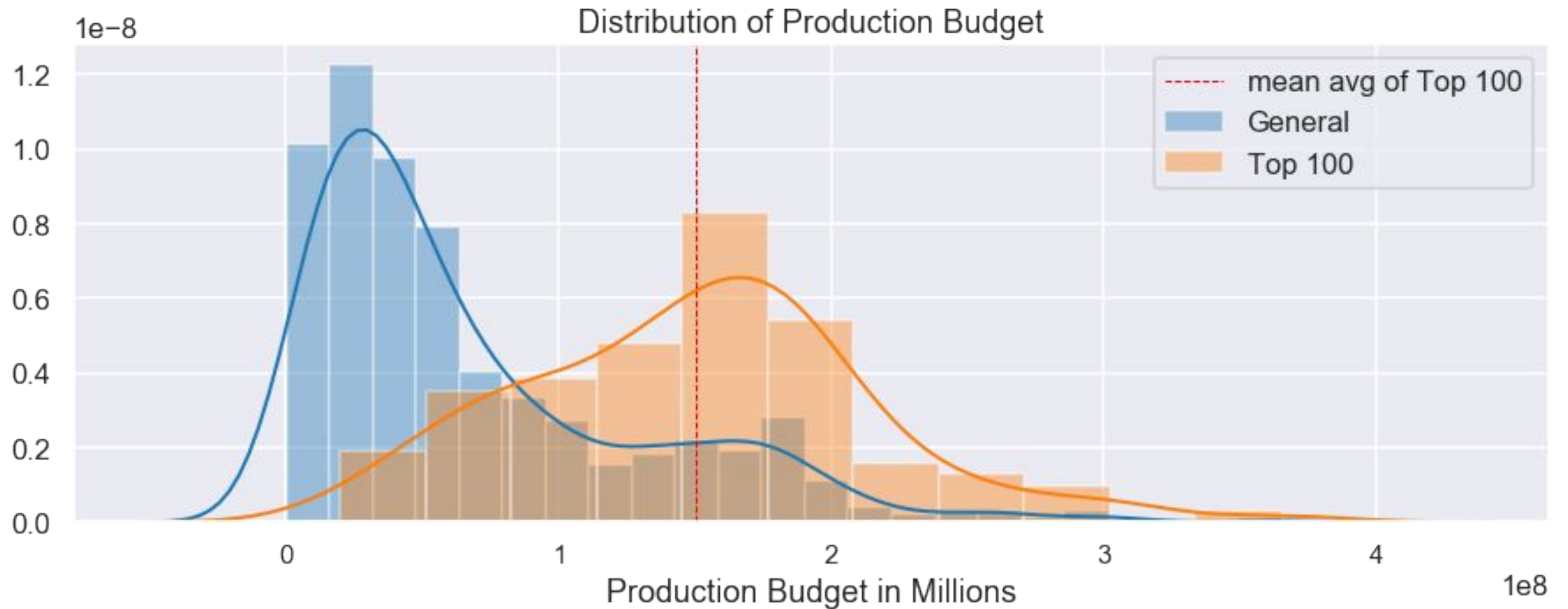
Methodology

We split our dataset into 2 groups:

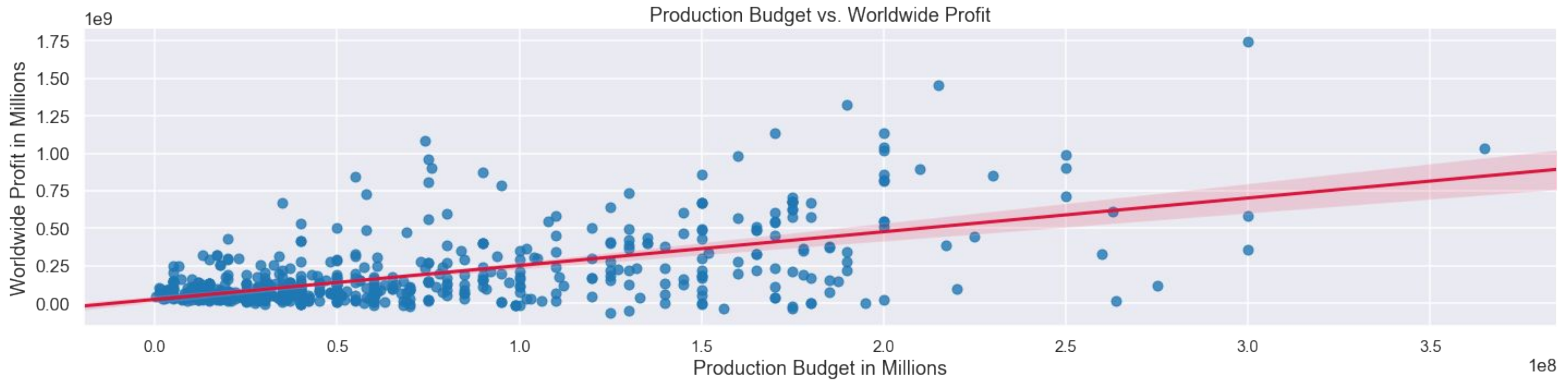
- The **General Movies** group contains all 625 movies in the dataset.
- The **Top 100 Movies** group contains the top 100 movies that generate the highest worldwide profit.

Compare & observe what the Top 100 Movies are doing differently to set themselves apart





- The average production budget in the General Movies group is **\$68M**.
- The average production budget in Top 100 Movies group is **\$150M**.

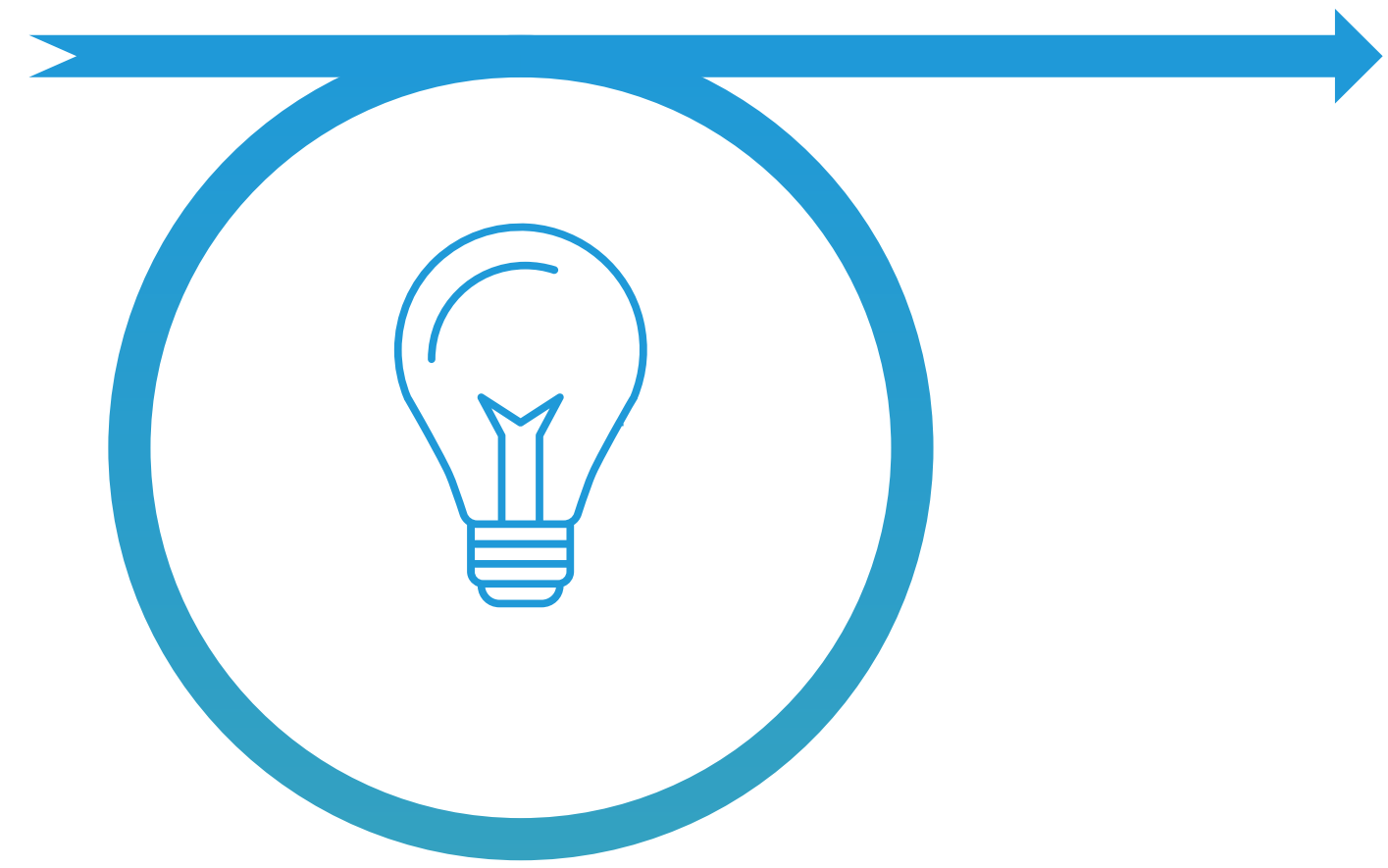


- The average worldwide profit in General Movies group is **\$179M**.
- The average worldwide profit of the Top 100 Movies group is **\$624M**.



Conclusion

\$150+ M



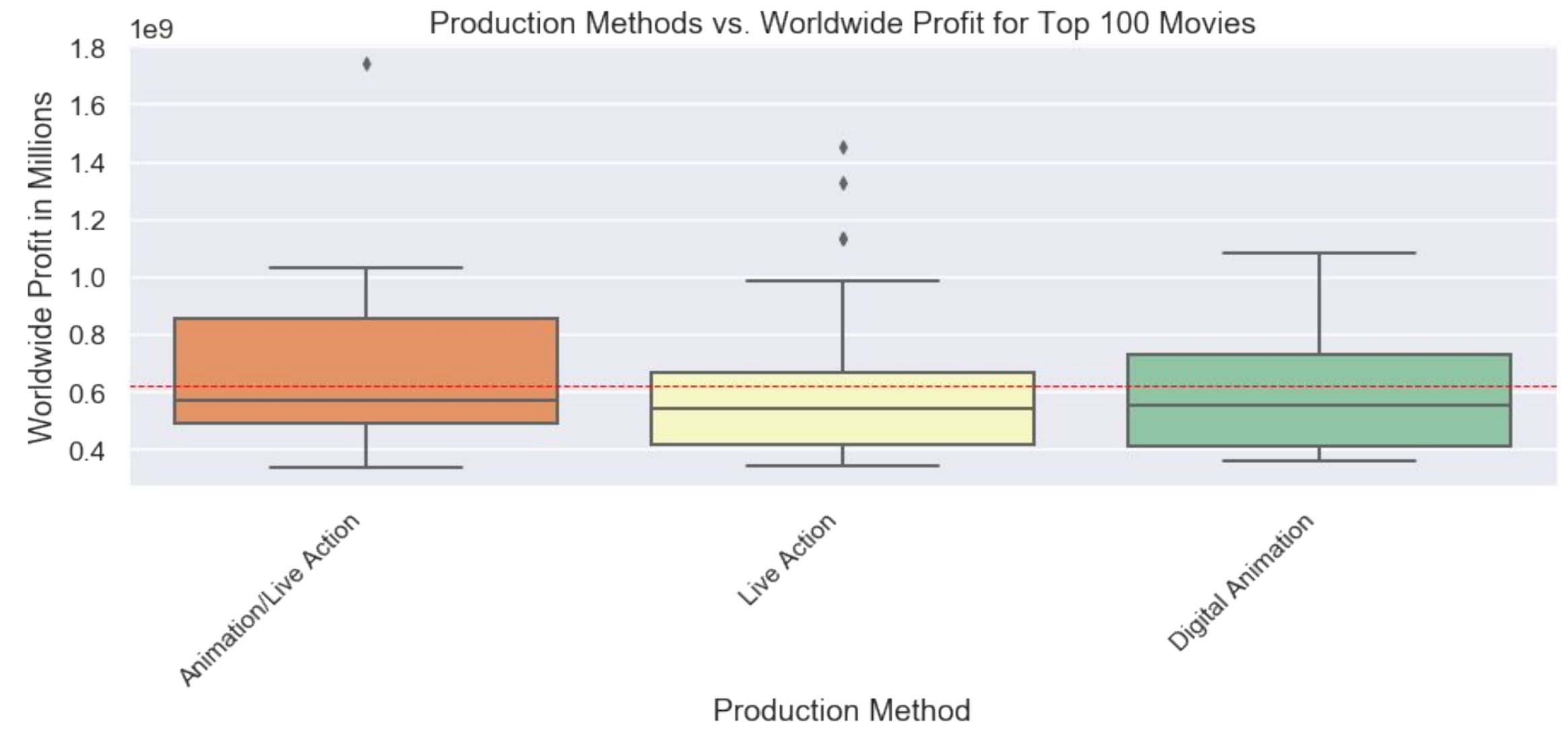
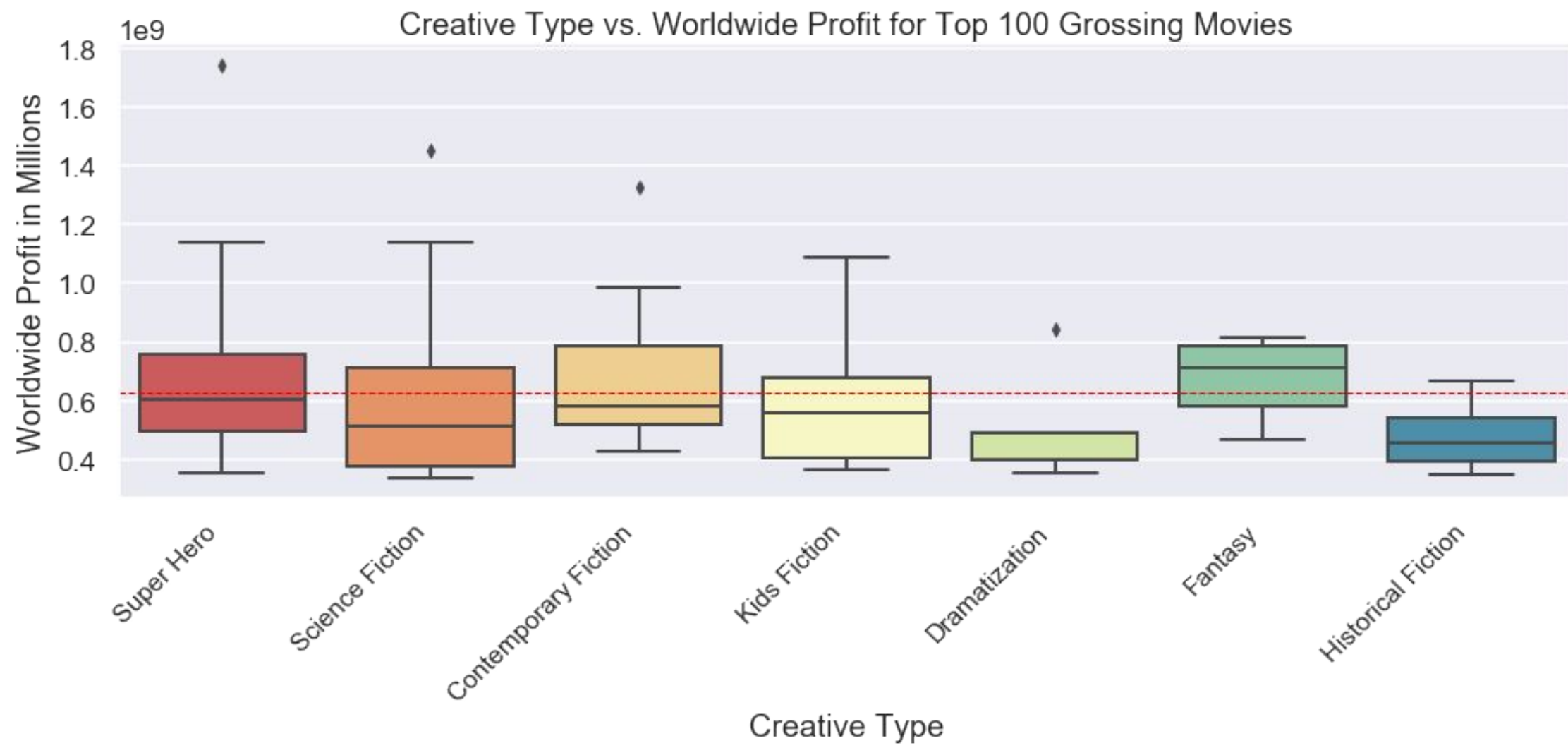
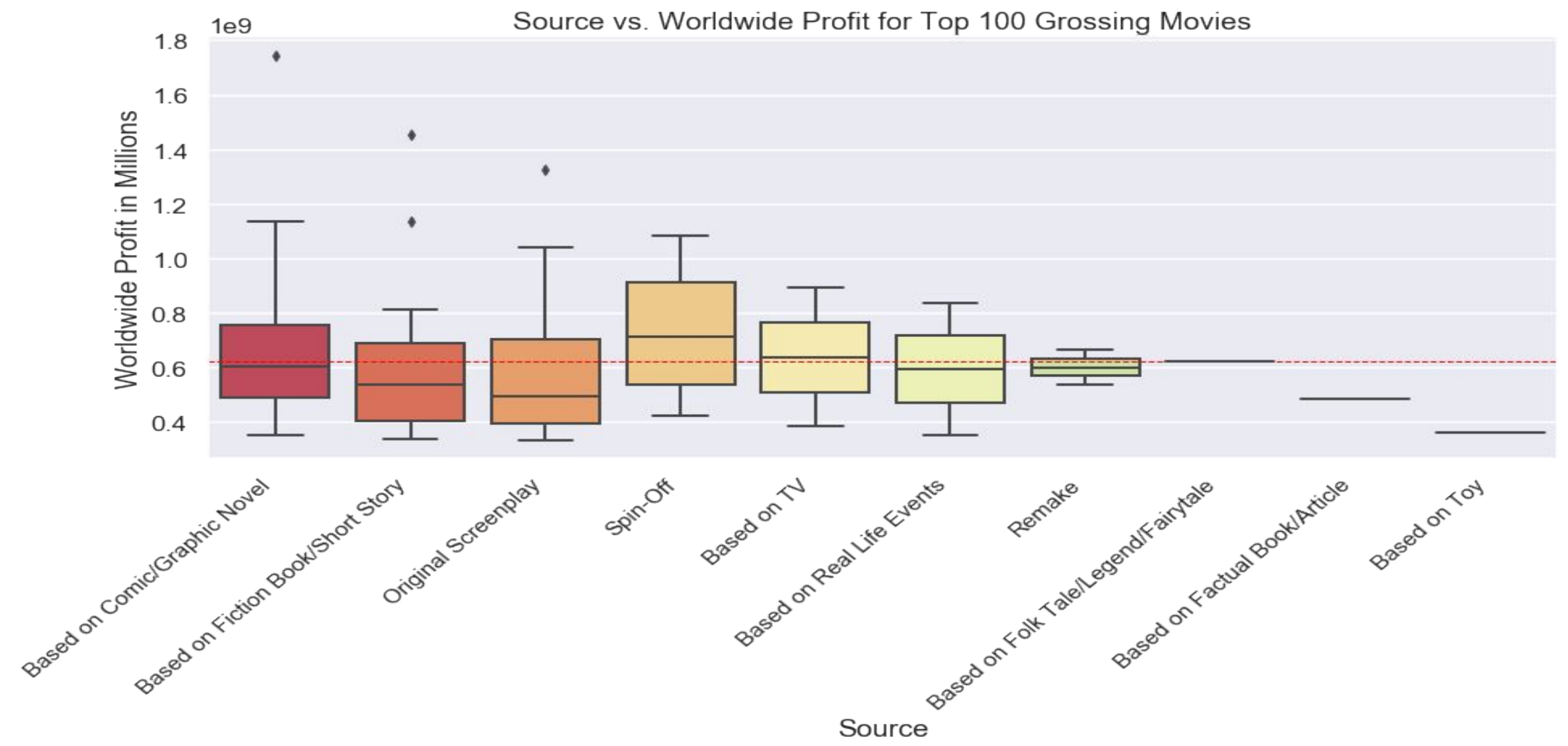
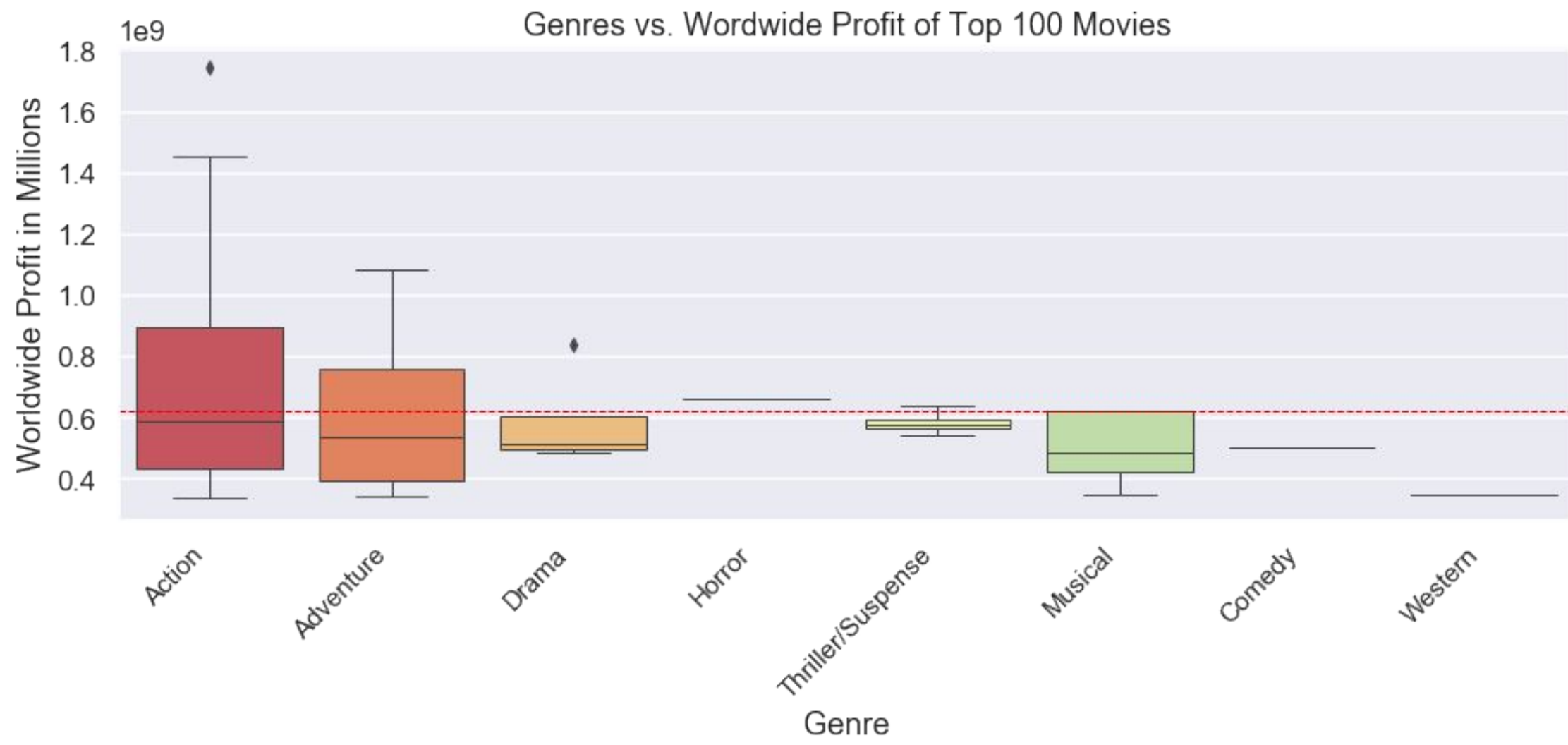
Business Solution

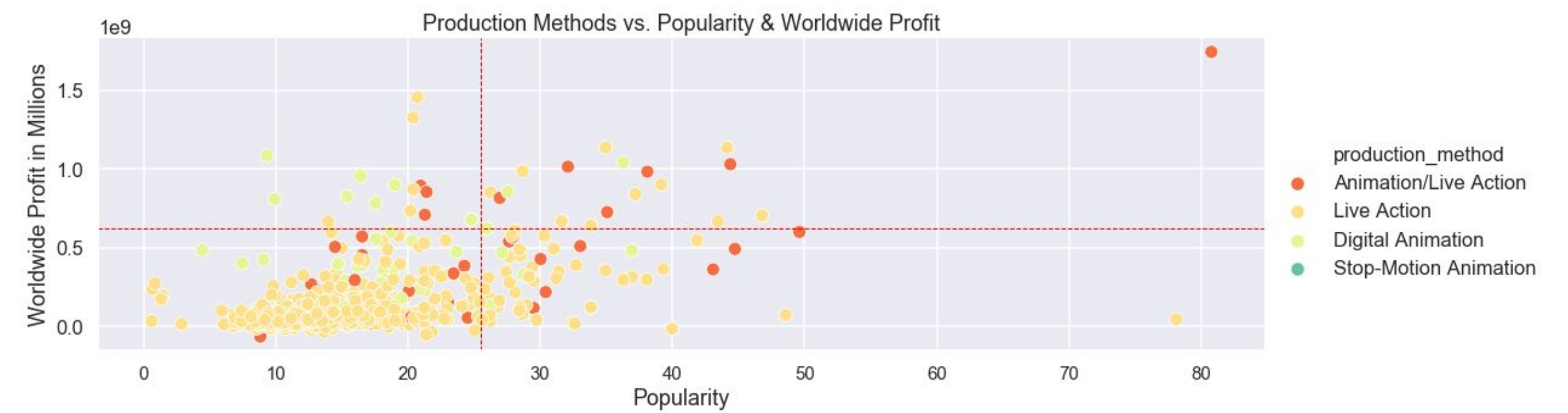
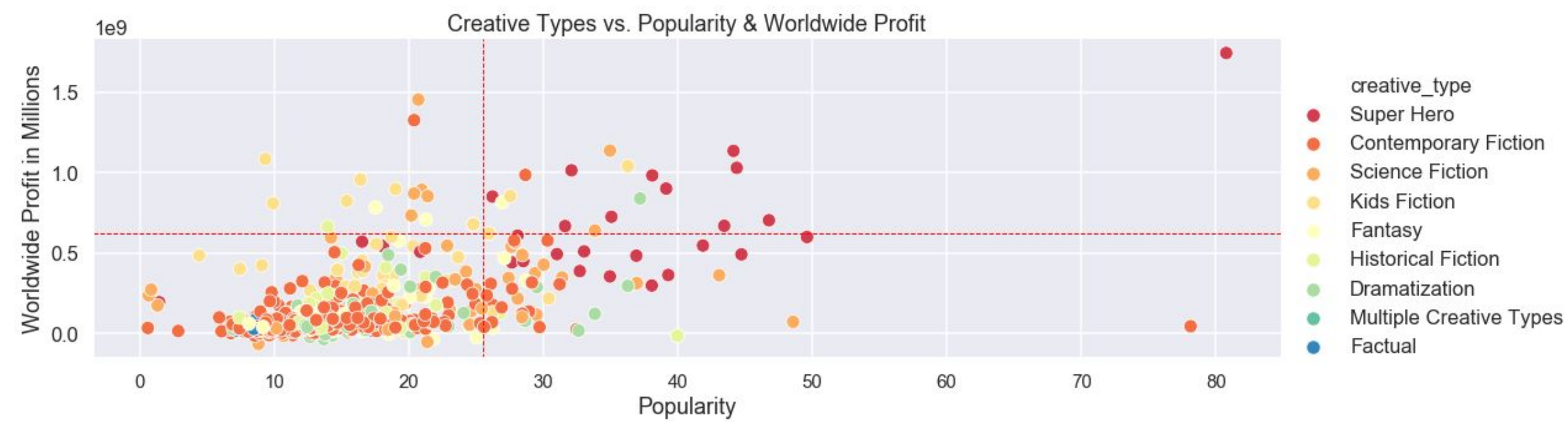
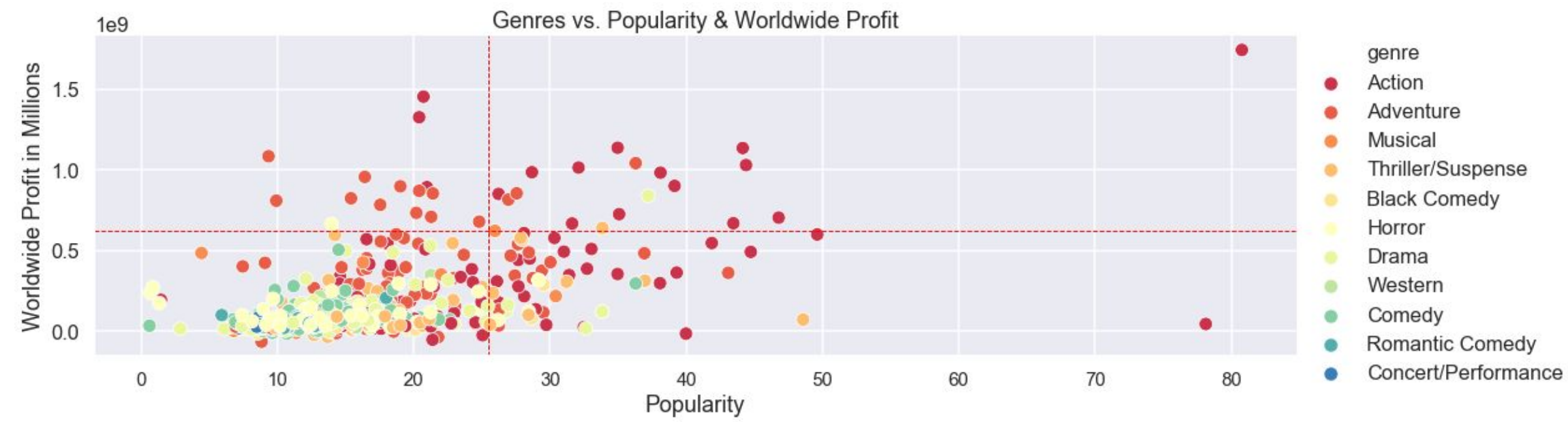
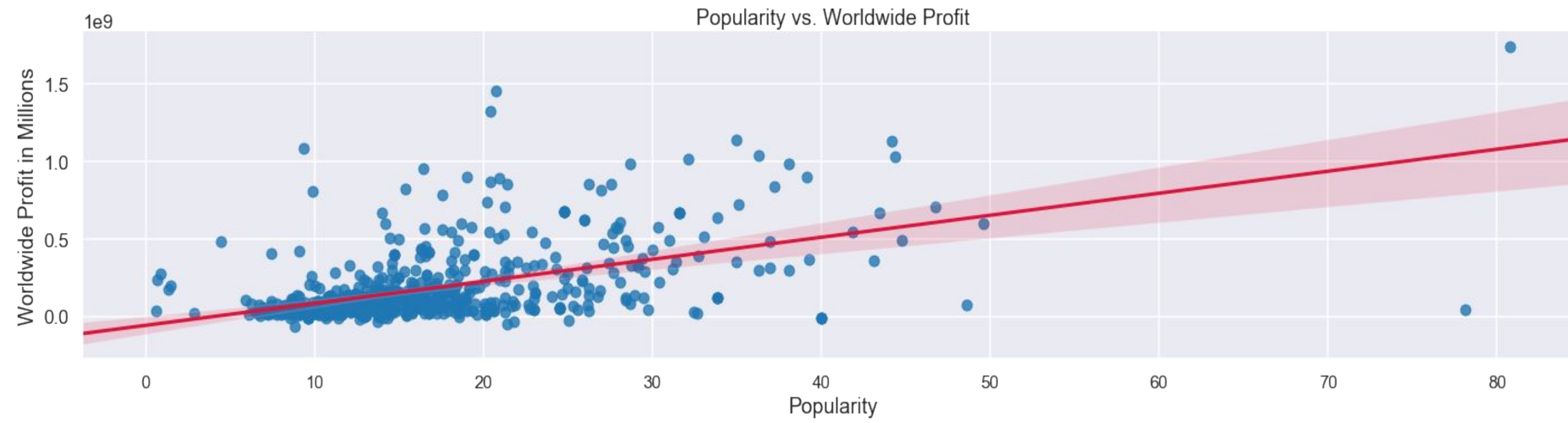
Genre

Source

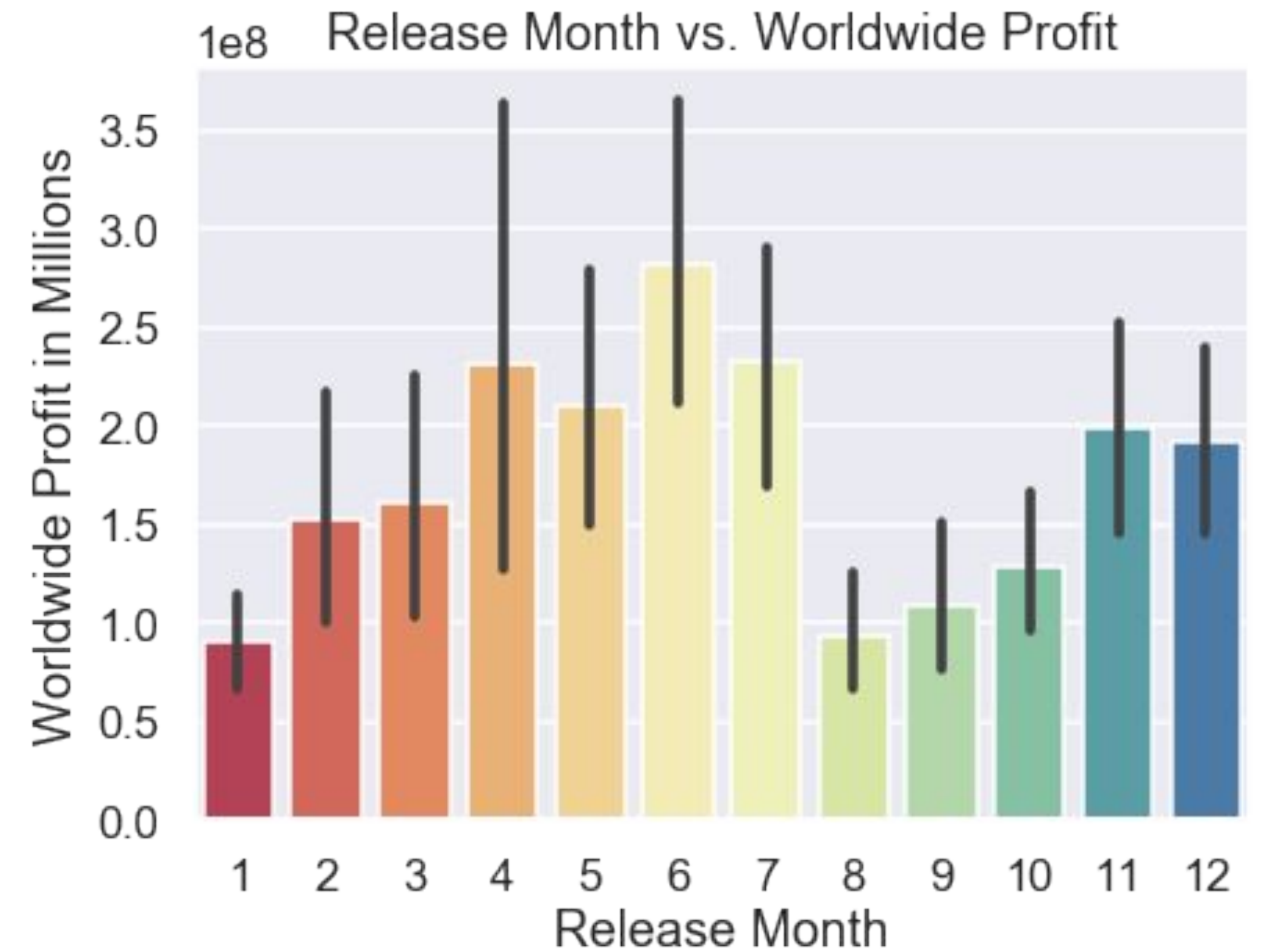
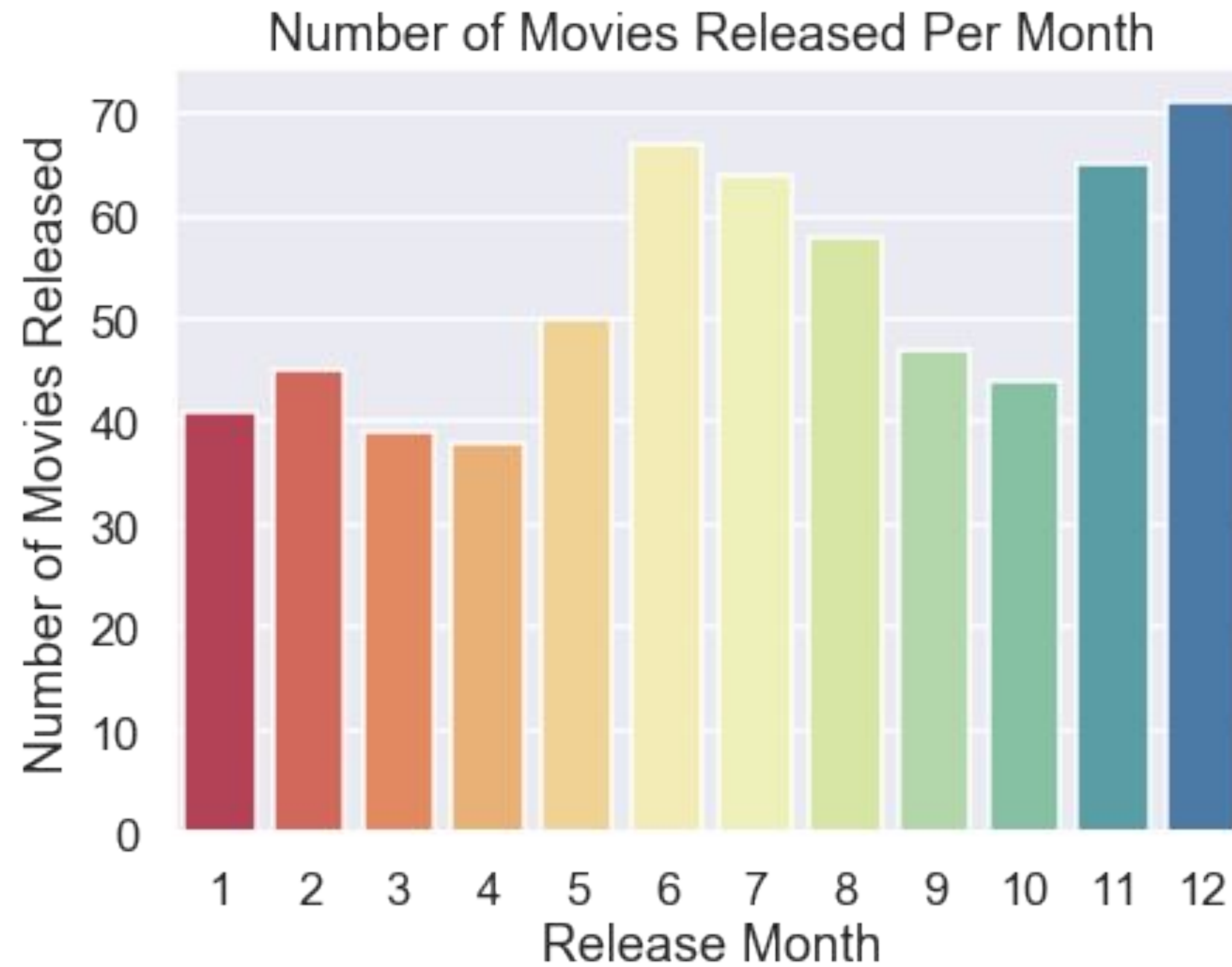
Creative Type

Production Method









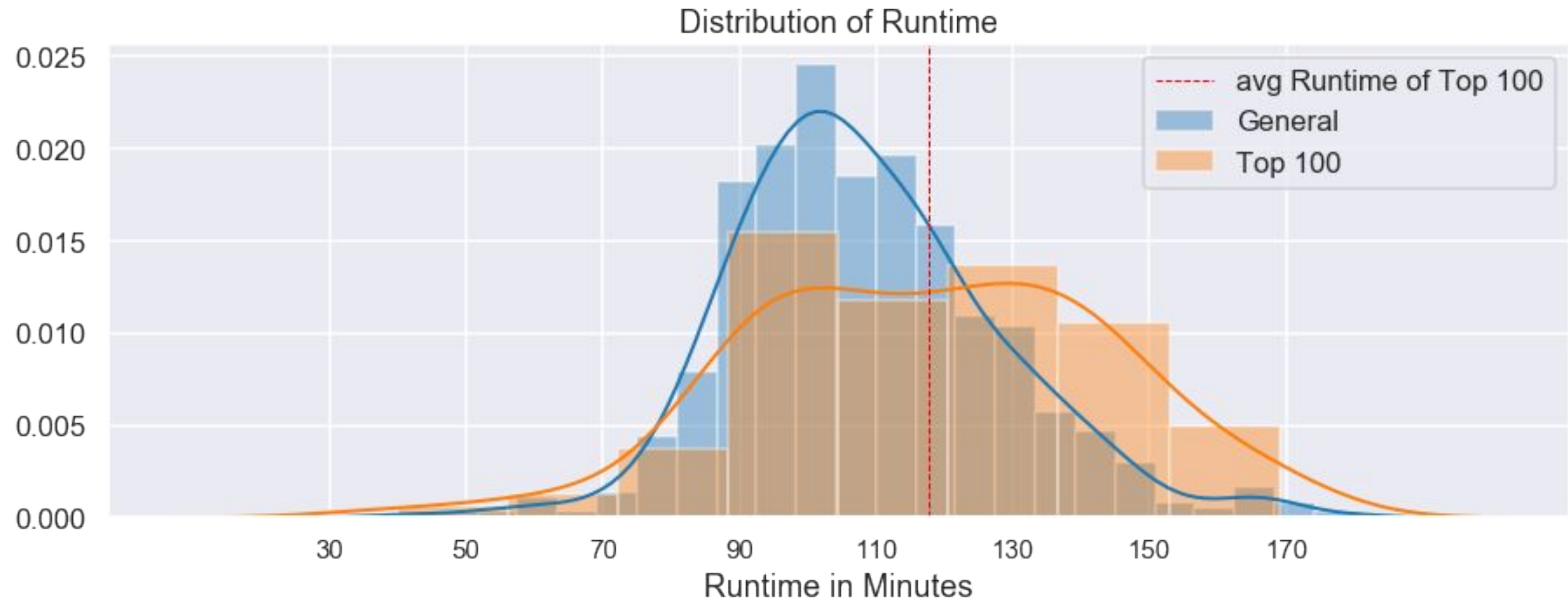
- Most release = June, December
- Most profit = June



Conclusion

June





- The average runtime in General Movies is 108 minutes.
- The average runtime in Top 100 Movies is 118 minutes.

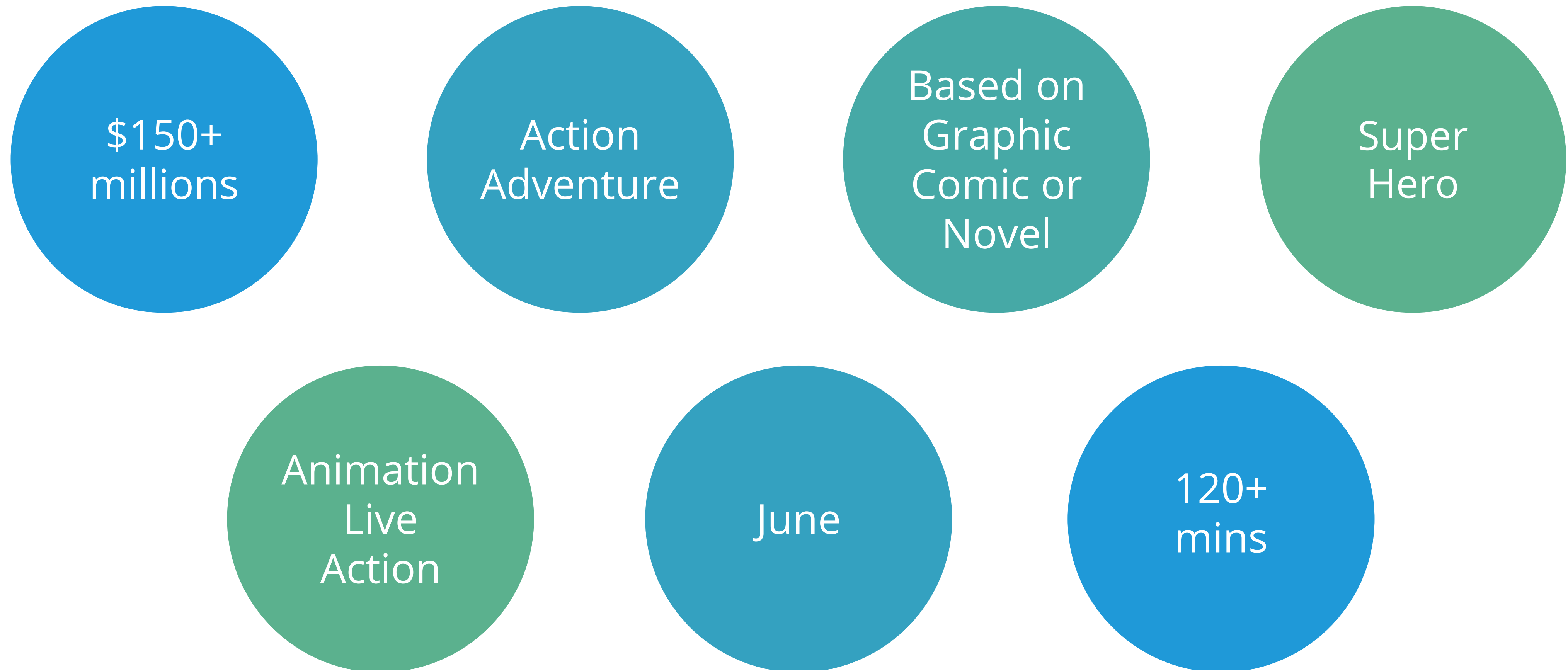


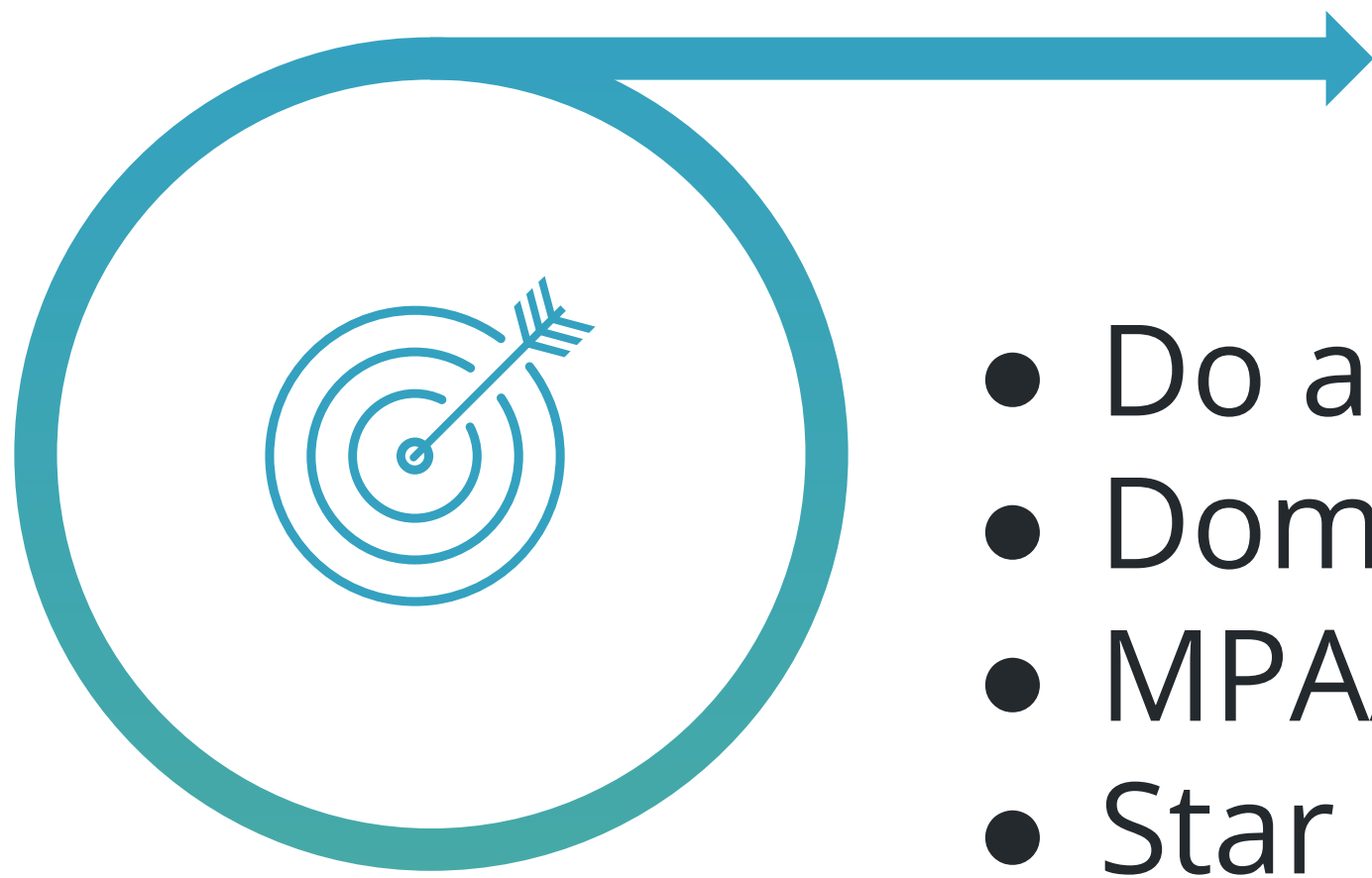
Conclusion

120+ MINS

Our Recommendations

What Makes a Movie Successful





Future Works

- Do analysis in term of ROI
- Domestic market and international market
- MPAA rating
- Star quality
- Script quality
- Special effects, sound design, music
- Marketing campaign
- Popularity of the film preceding it (if it's a sequel)
- Directors
- Writers
- Critics
- Diversity: female directors, women of color, Black Lives Matter movement, LGBTQ+, etc.



Q & A





Thank You





Appendix





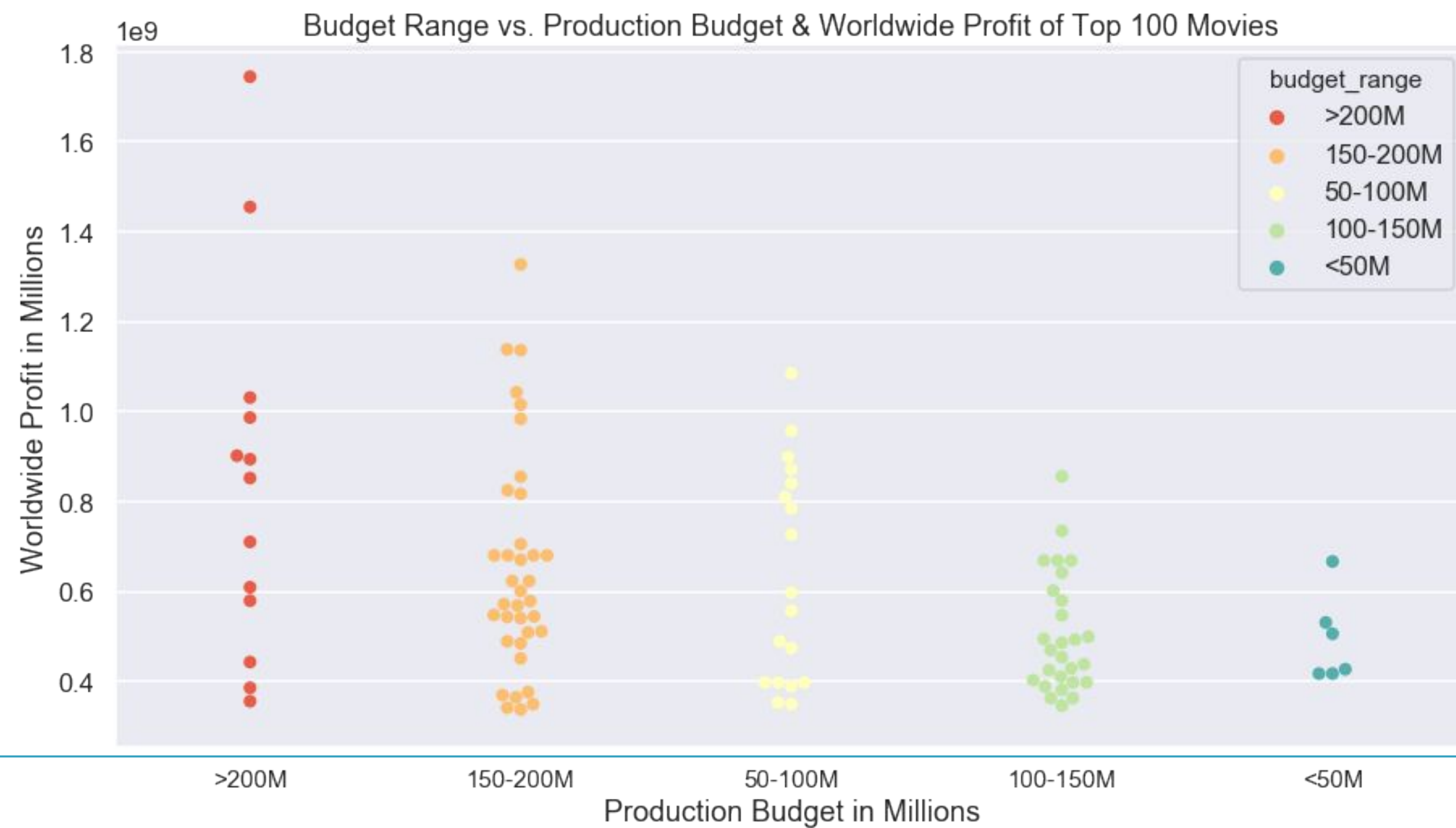
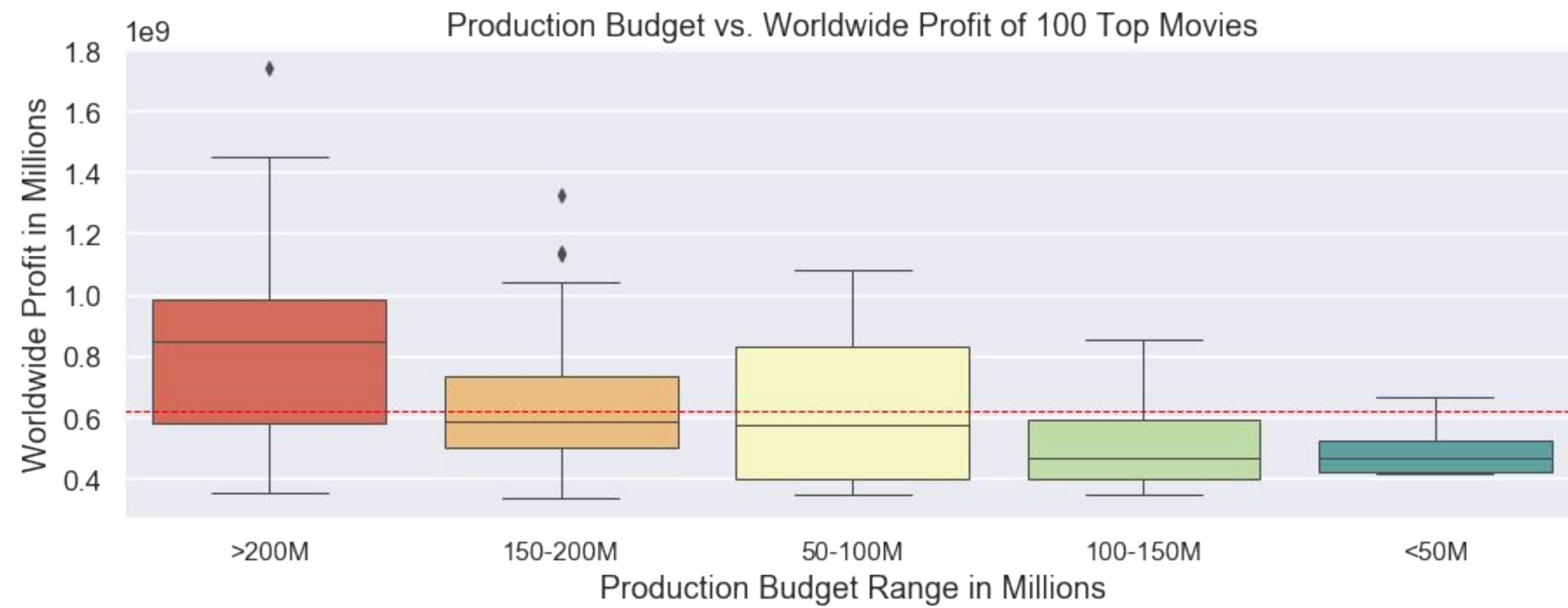
Examples

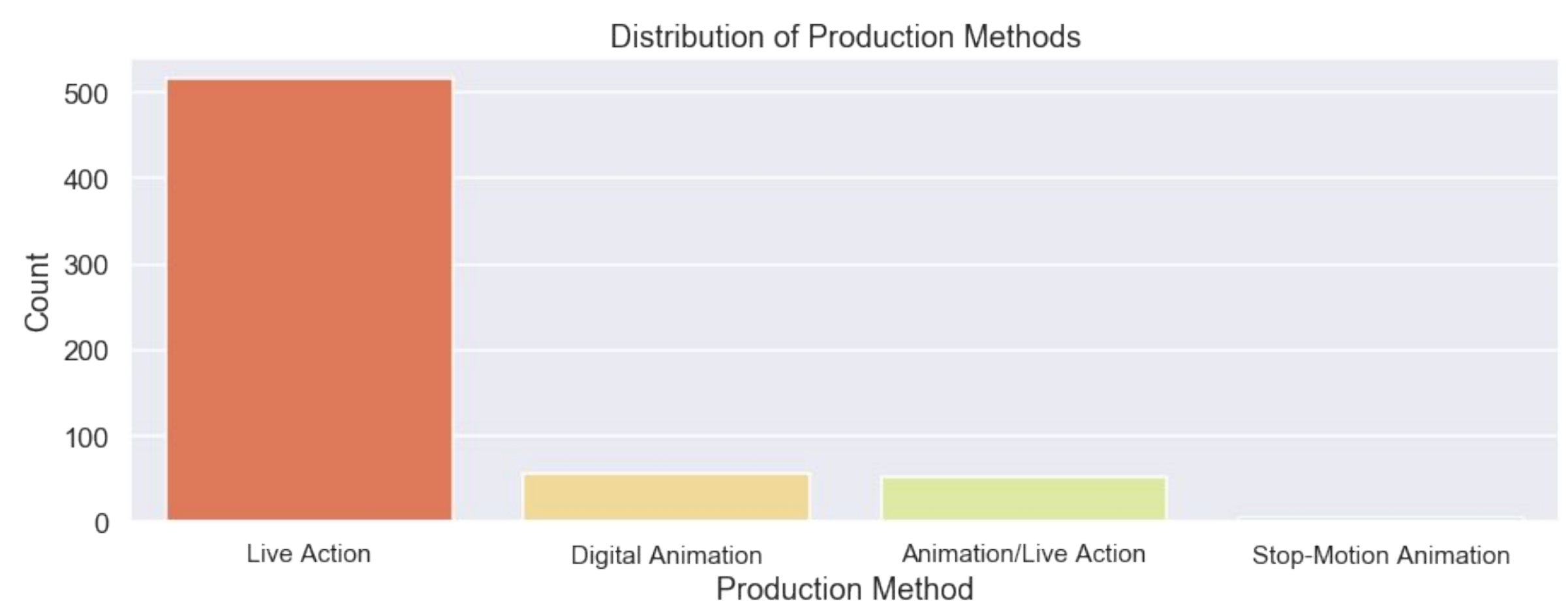
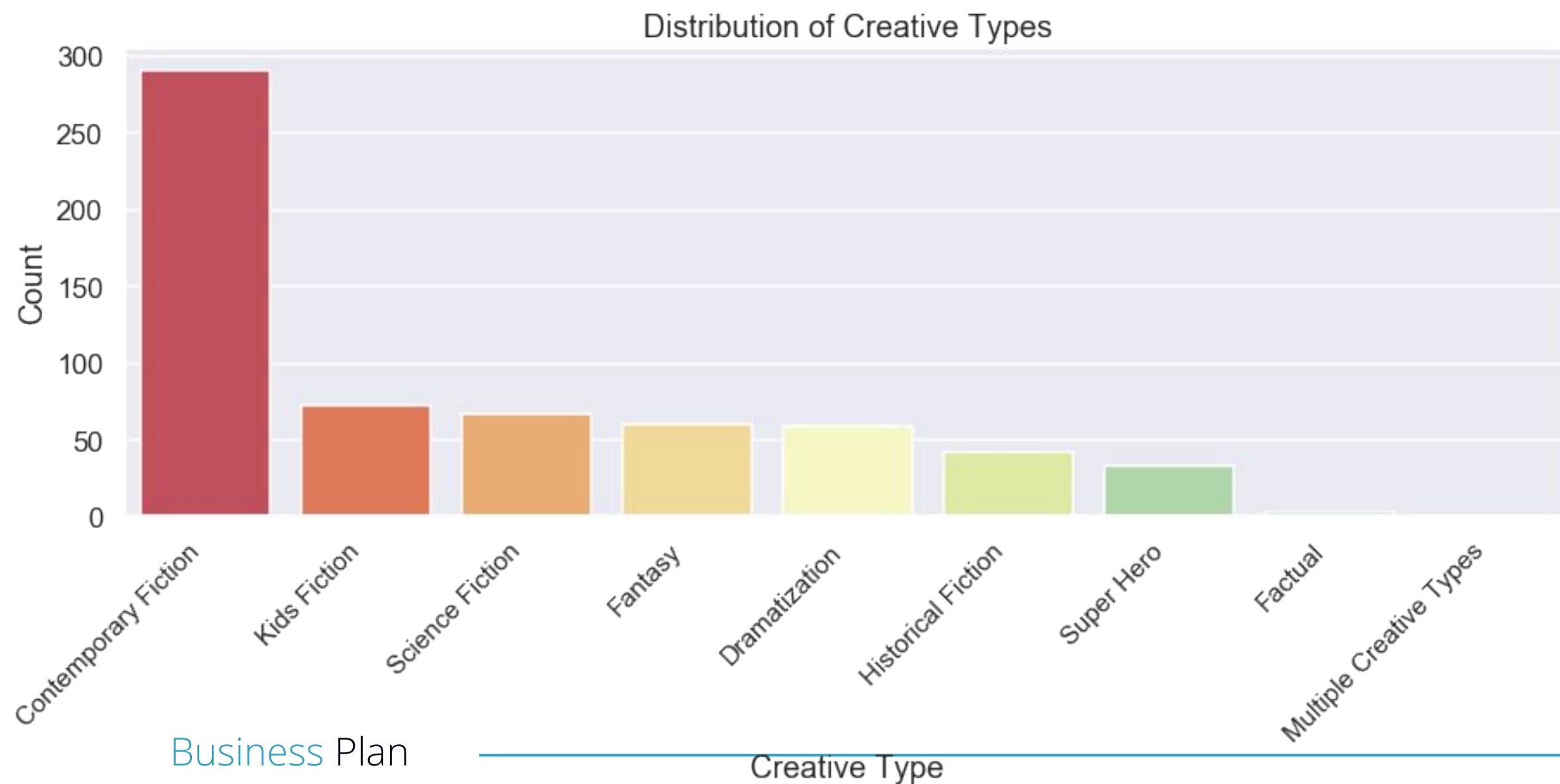
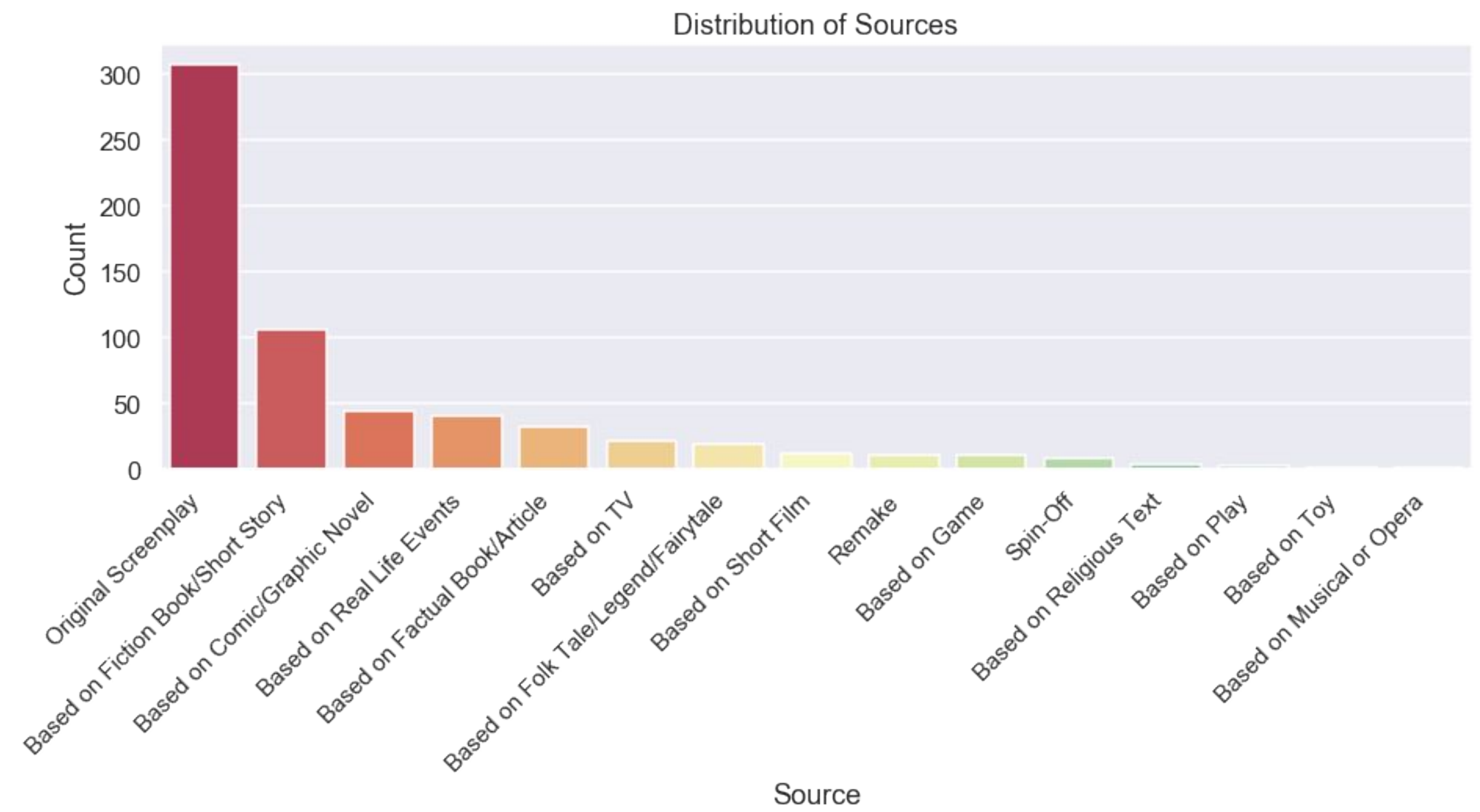
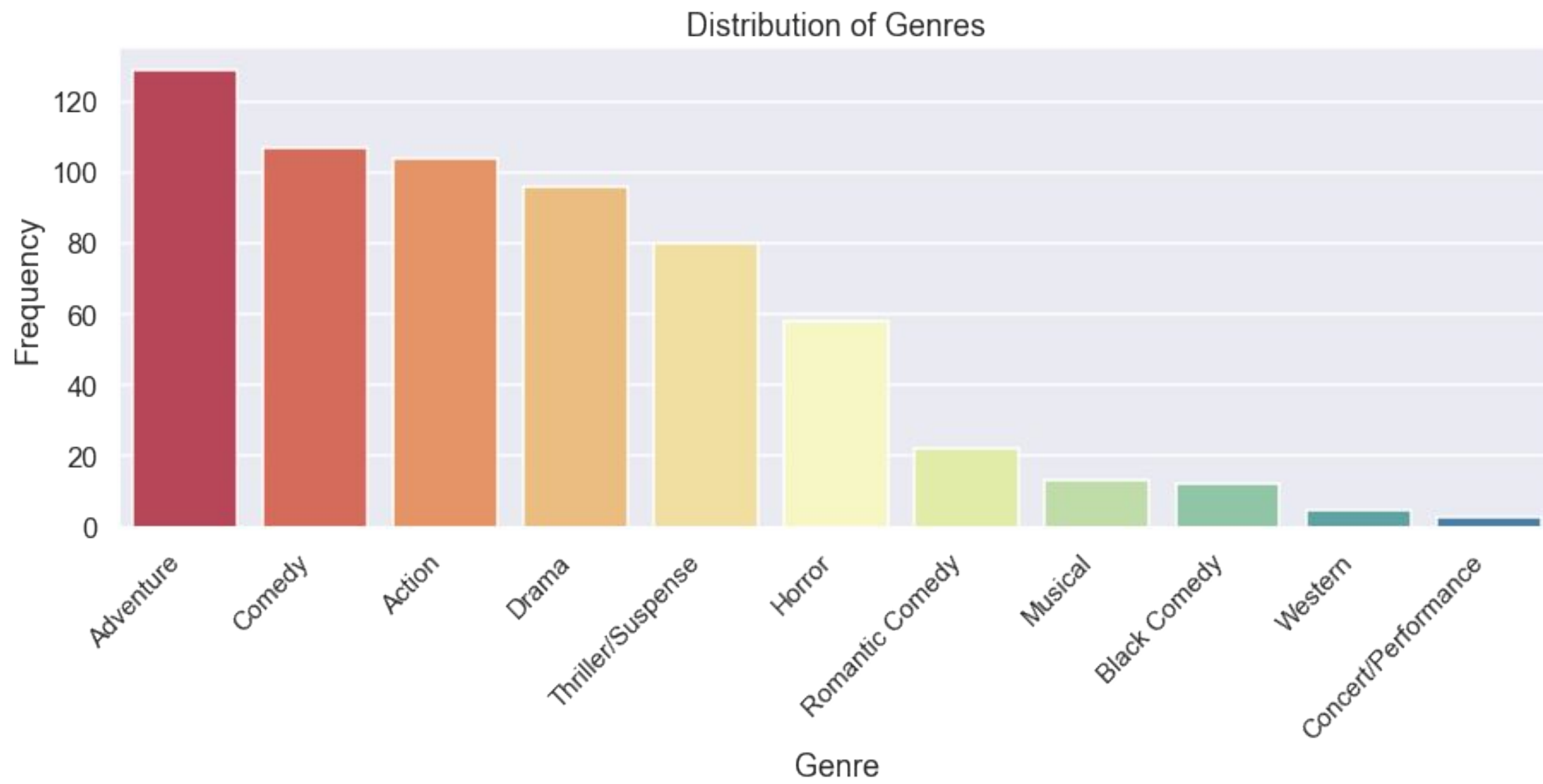
- ***Pirates of the Caribbean: On Stranger Tides*** (2011) - \$379M budget, \$1 B earned
- ***Avenger: Age of Ultron*** (2015) - \$365M budget, \$1.3B earned
- ***Spectre*** (1997) - \$300M budget, \$879M earned

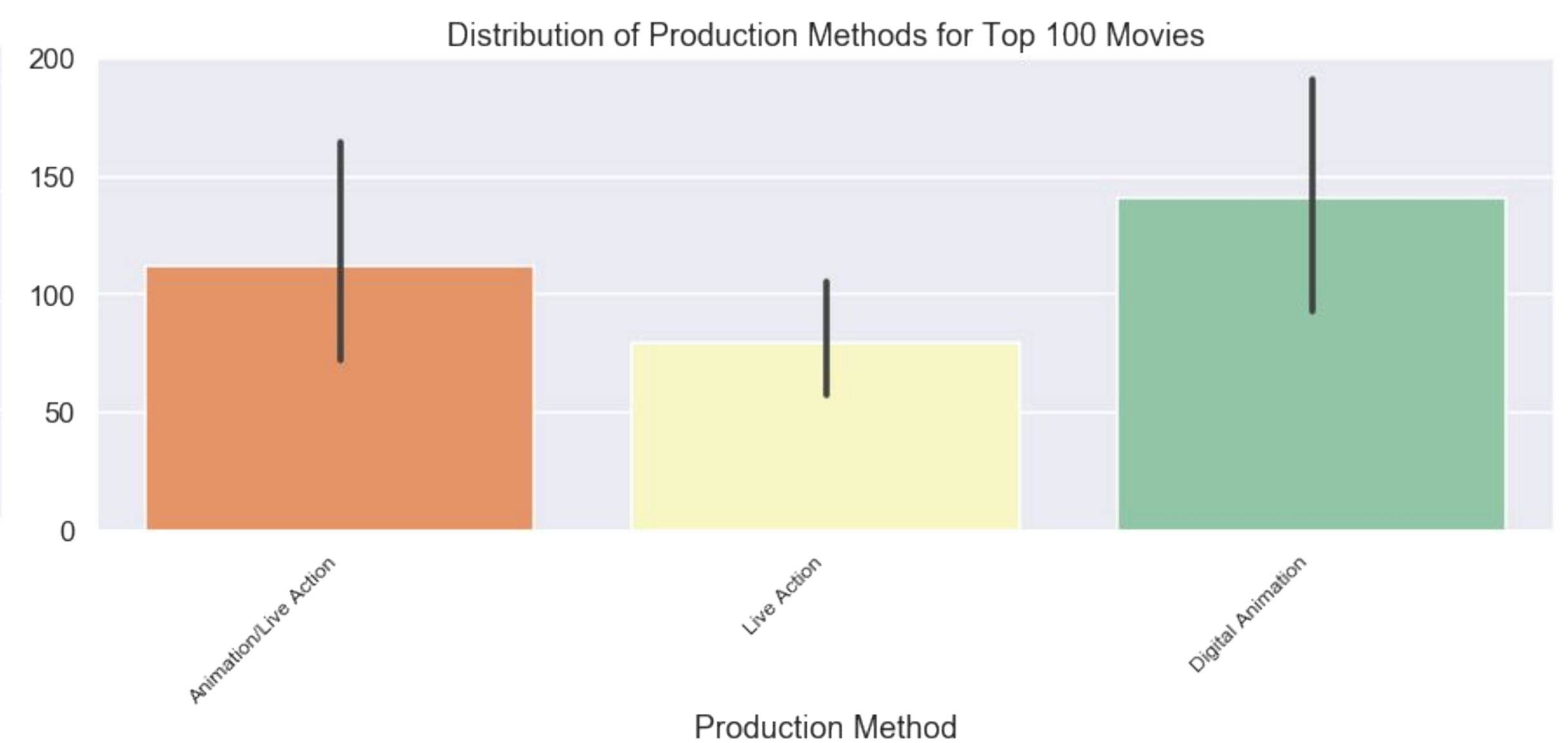
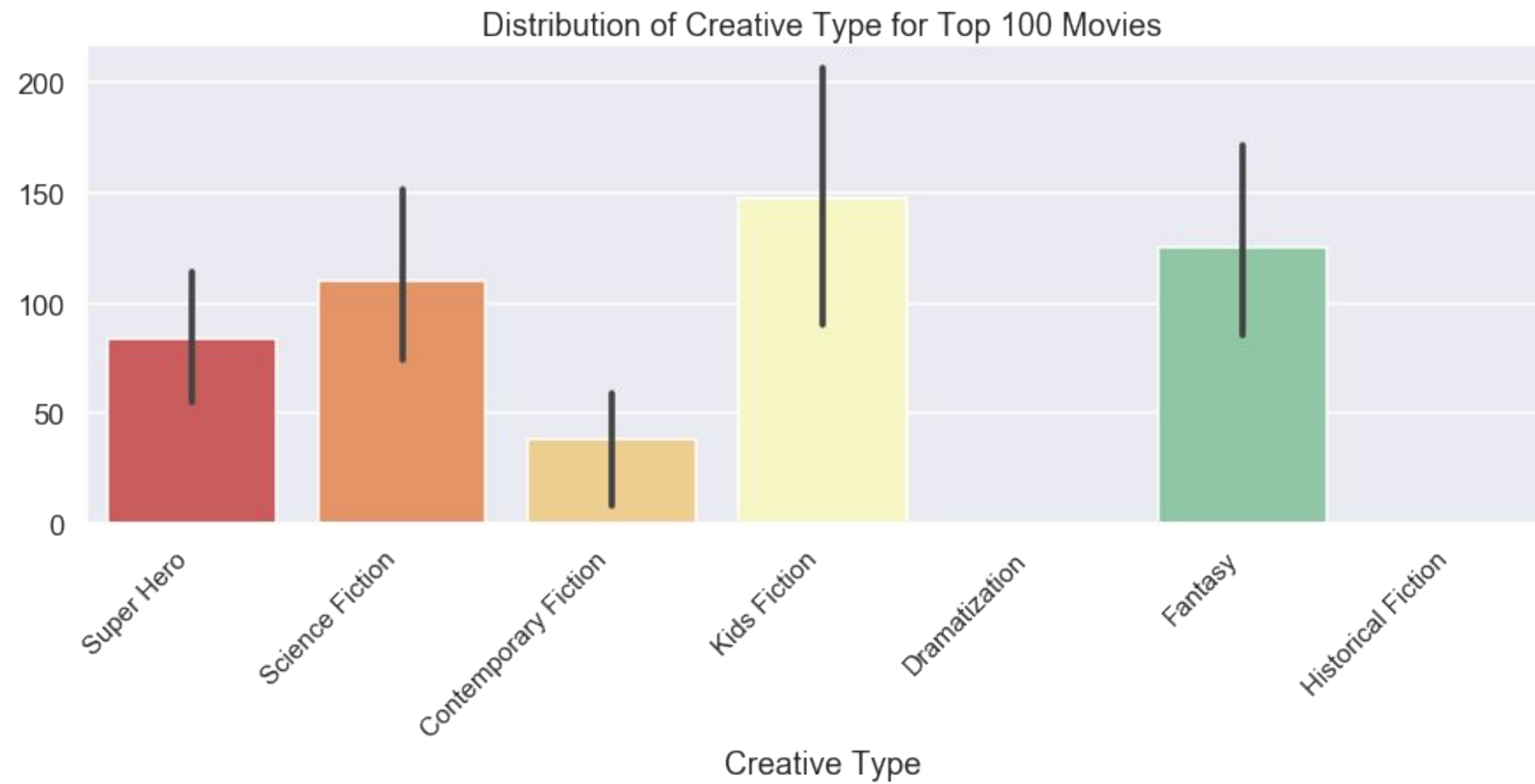
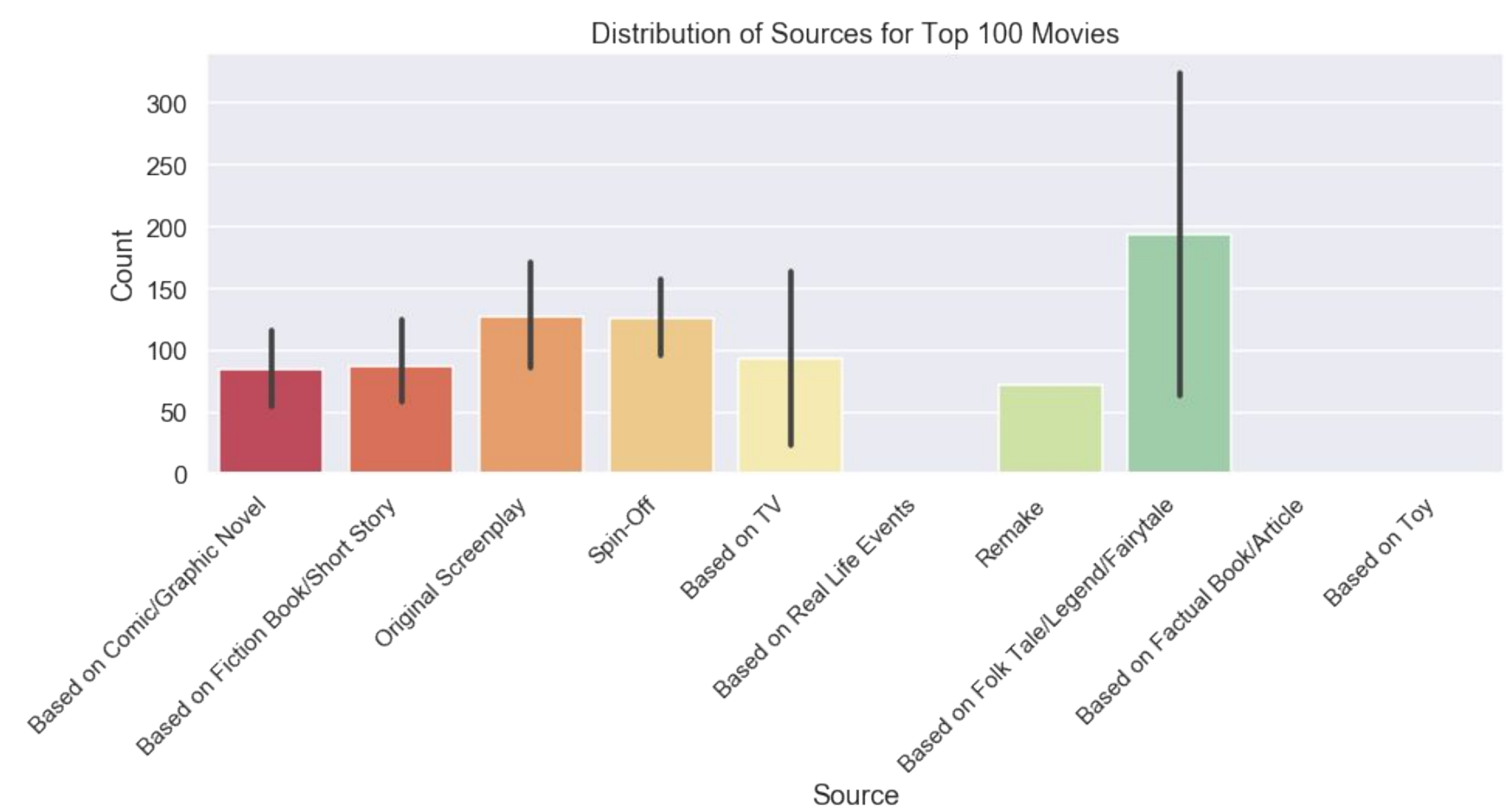
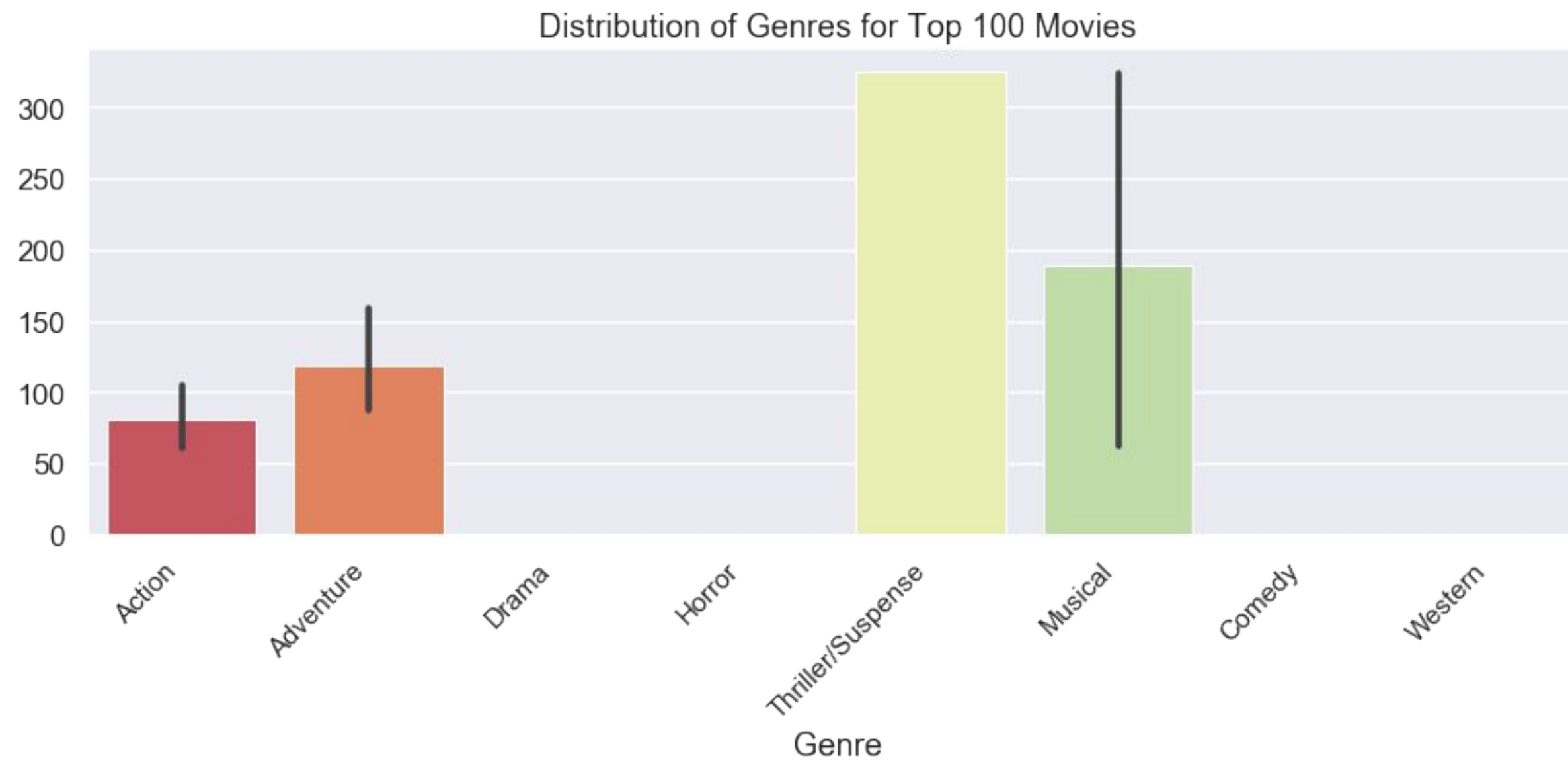


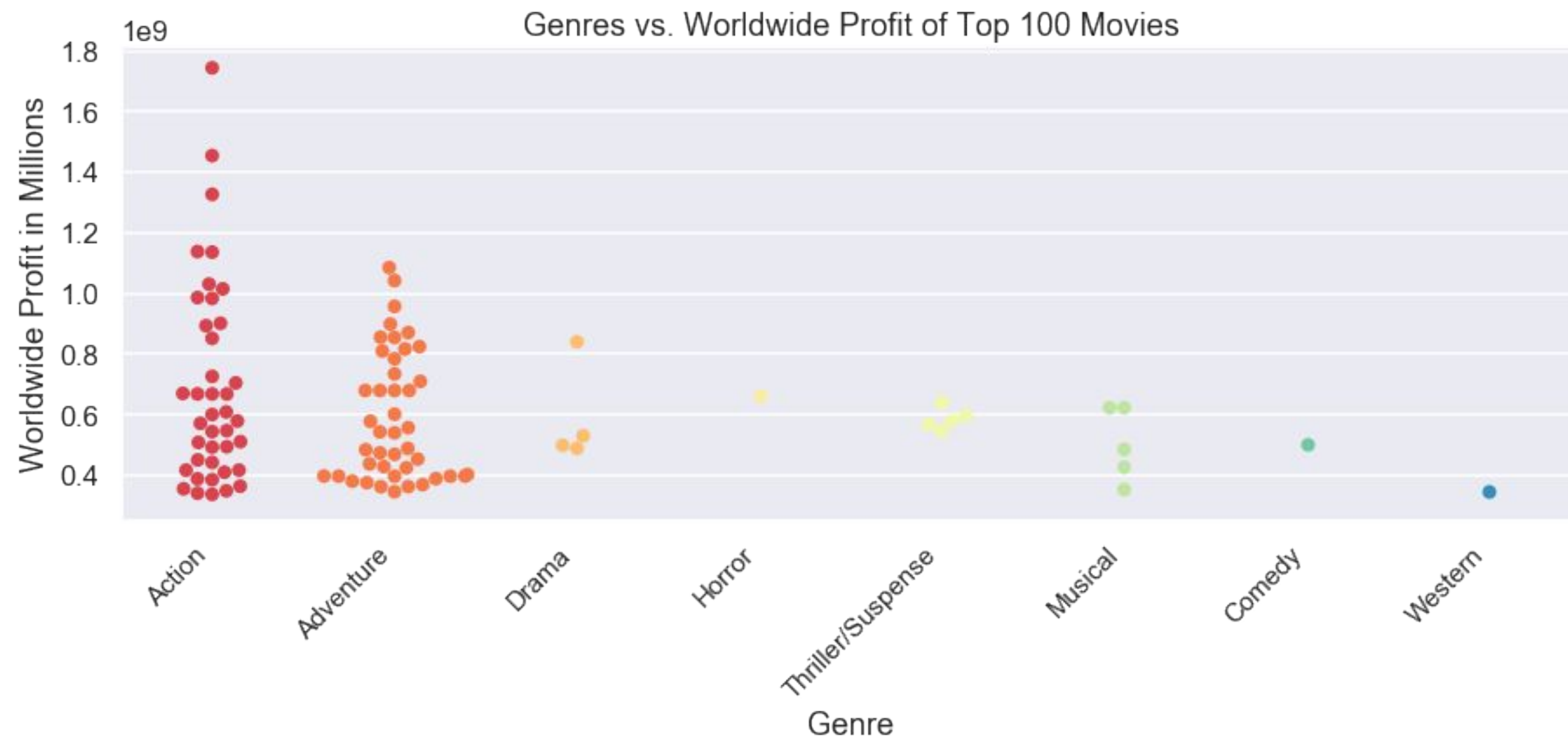
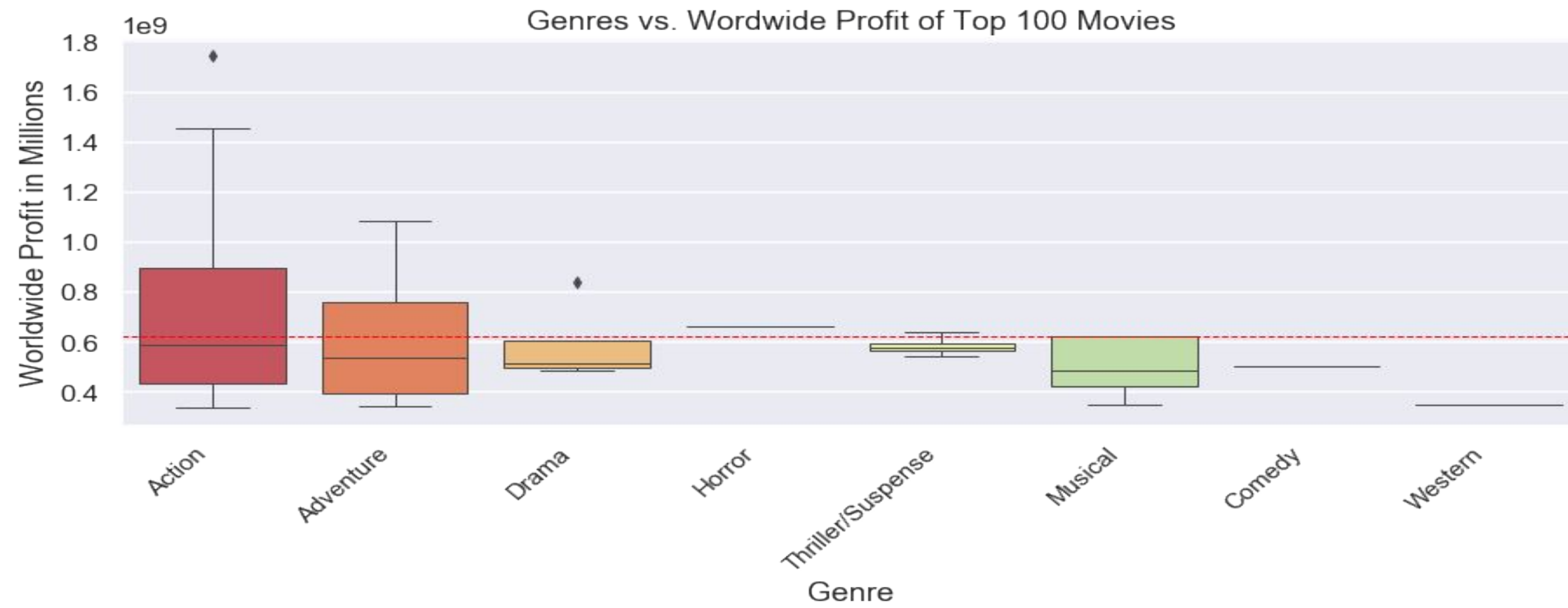
Examples

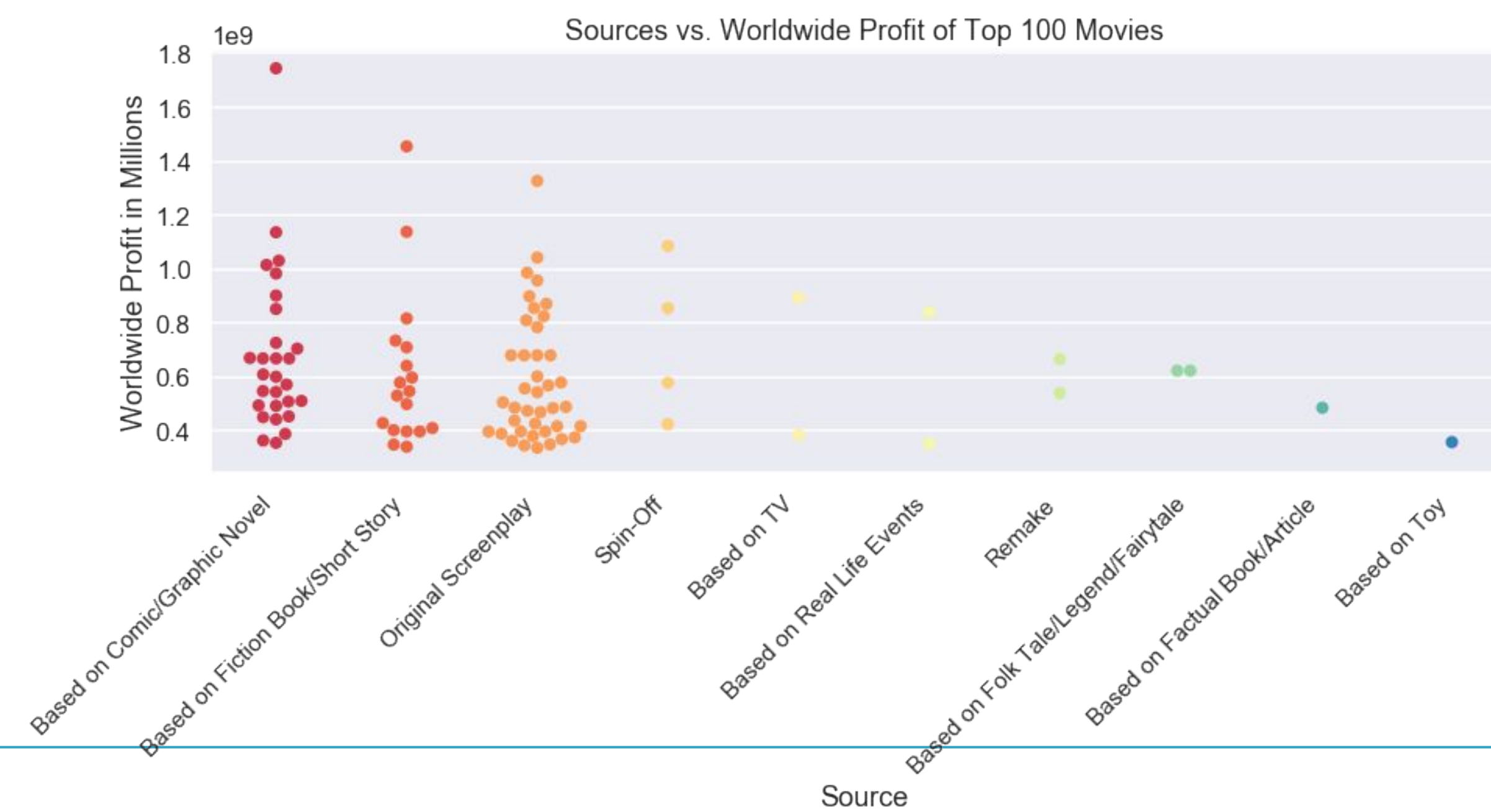
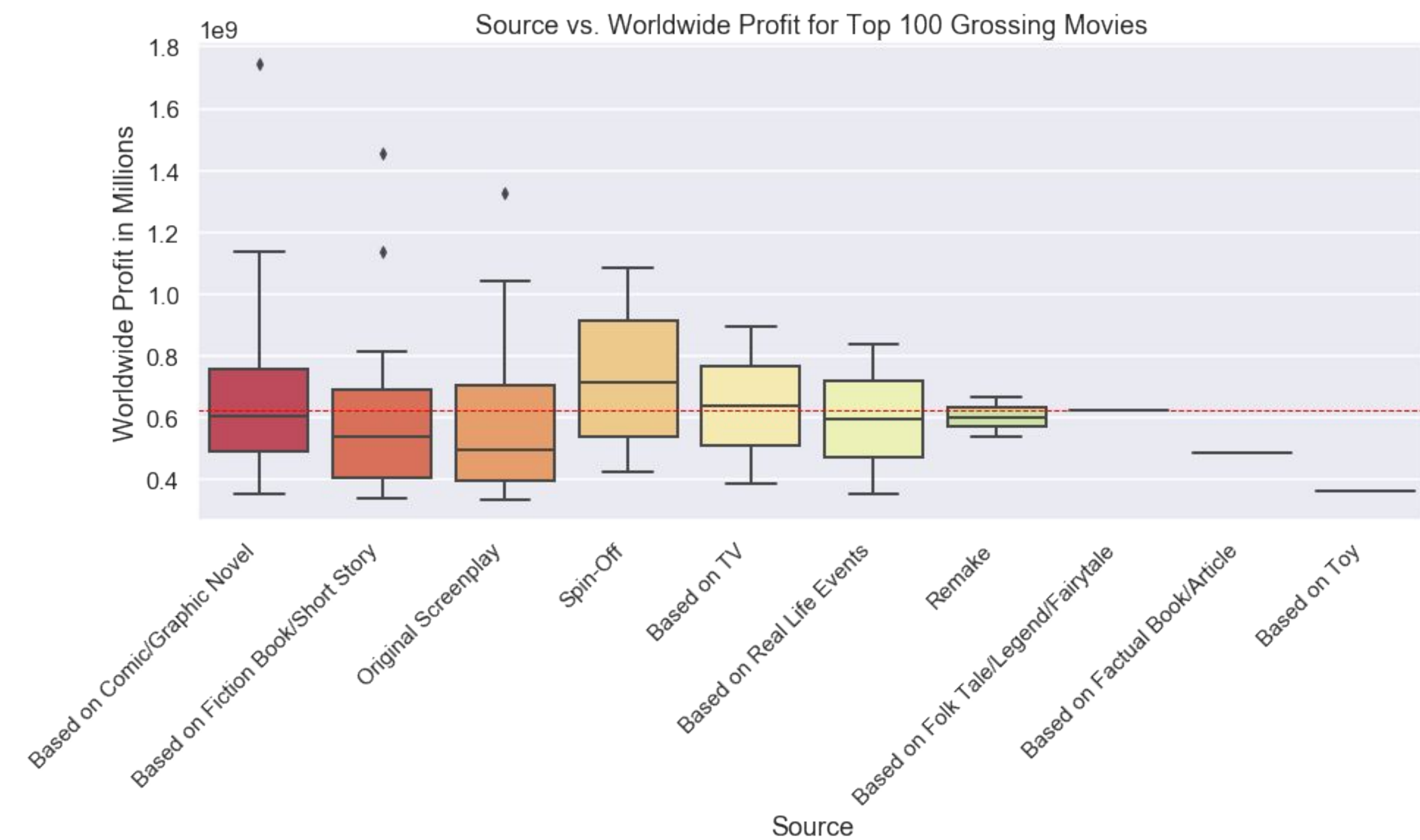
- ***Facing the Giants*** (2006) - \$100,000 budget, \$24.4M earned
- ***Once*** (2007) - \$150,000 budget, Oscar nominations, \$19M earned
- ***Mad Max*** (1980), \$200,000 budget, \$49.6M earned

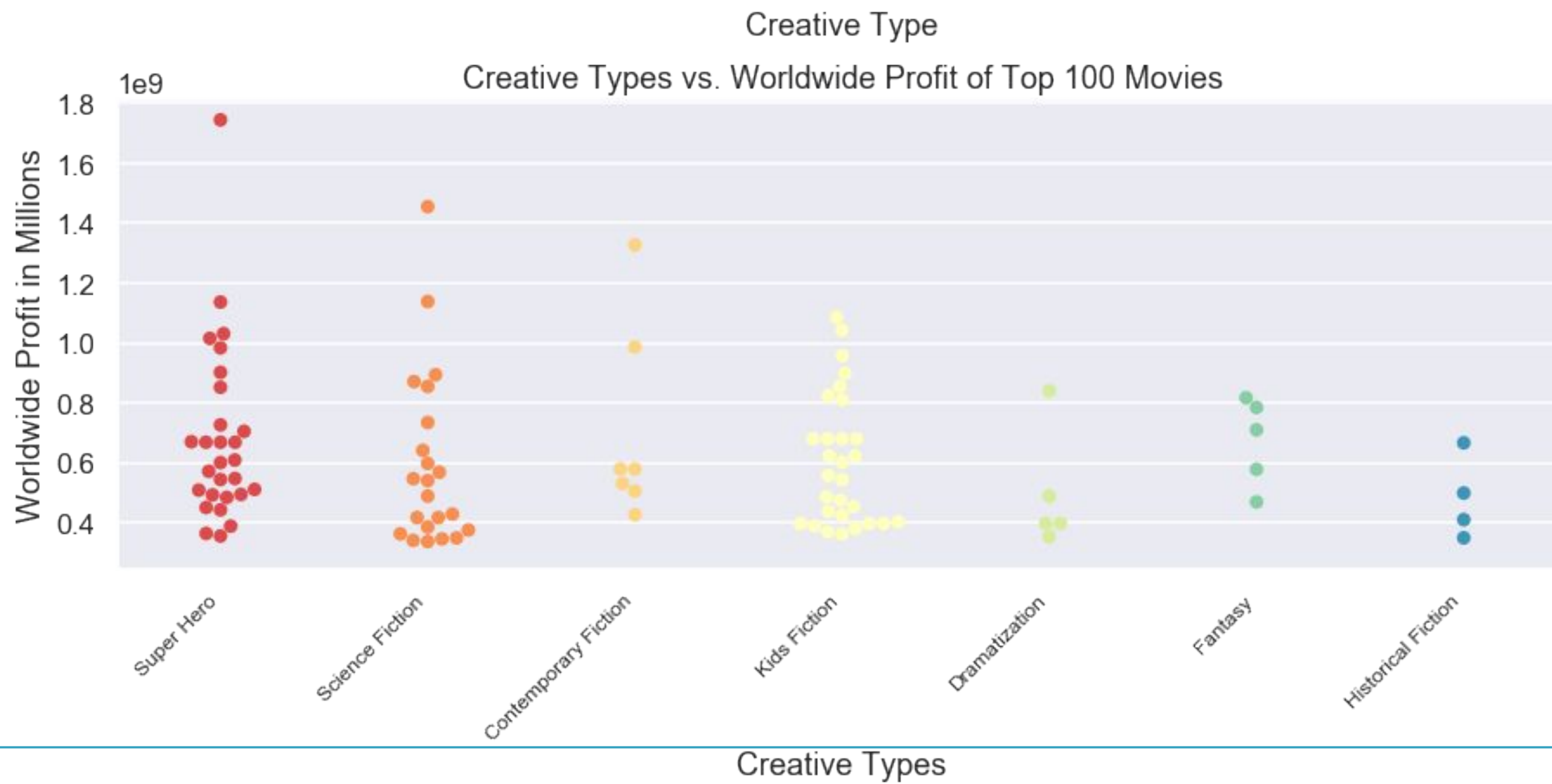
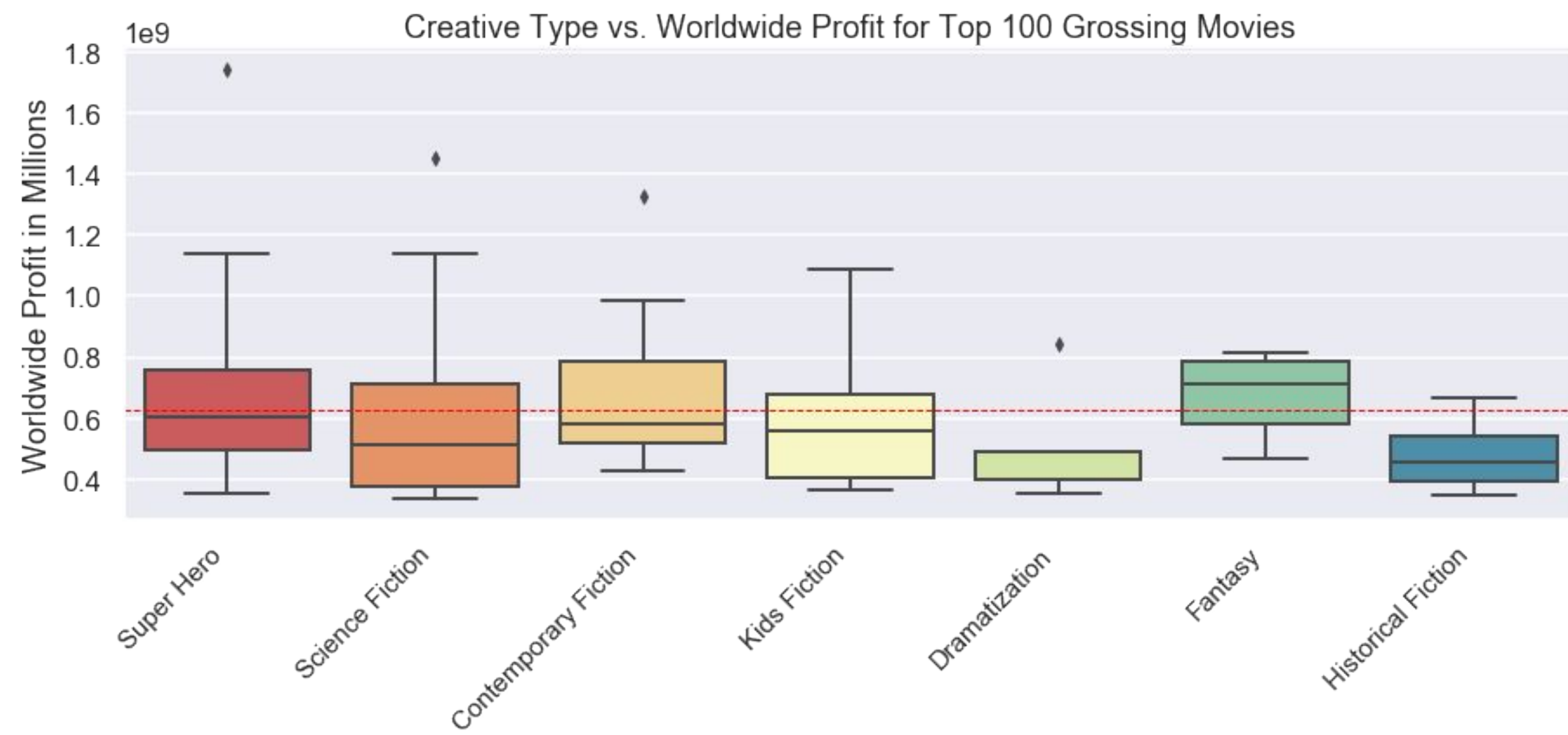


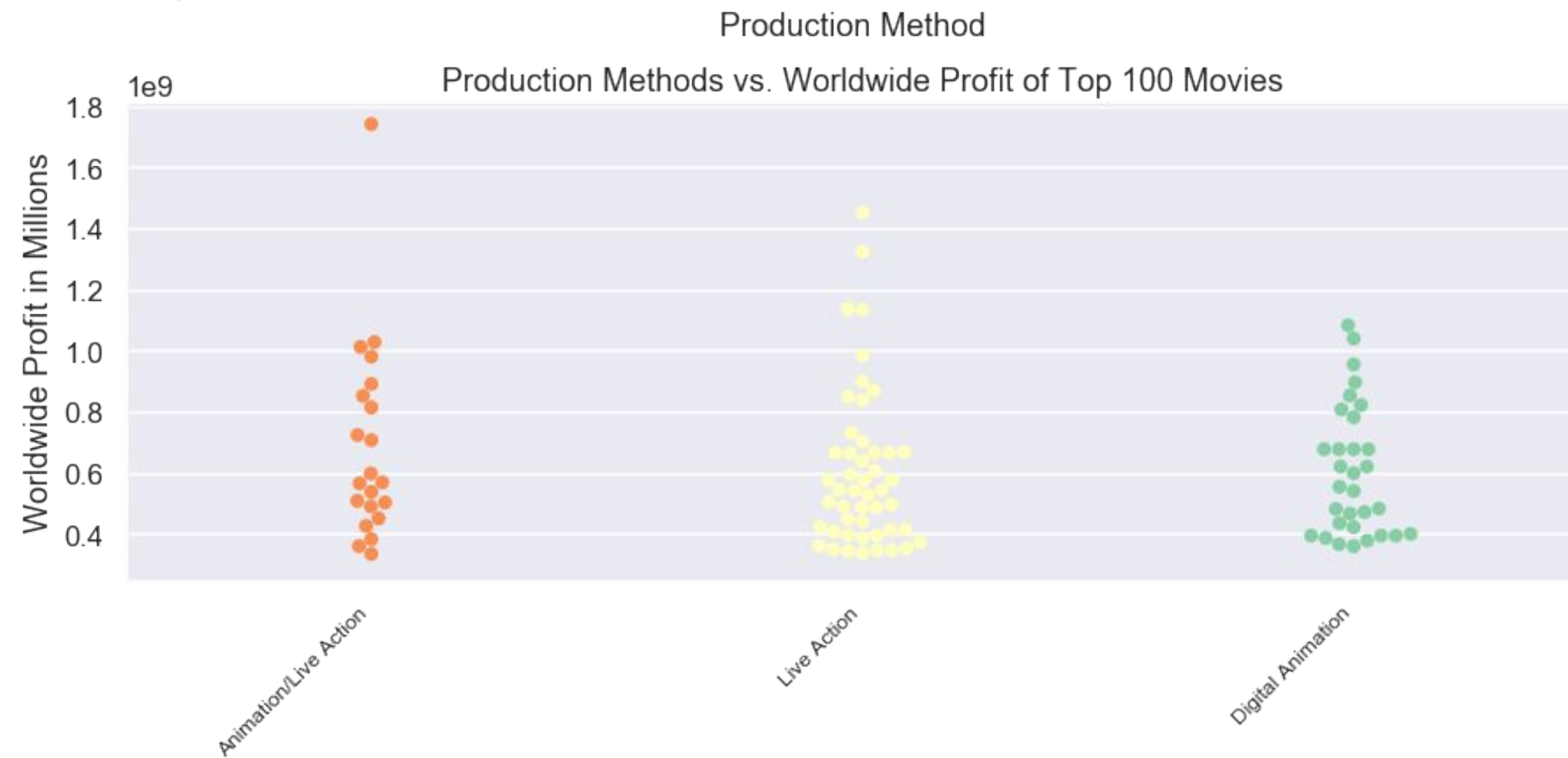
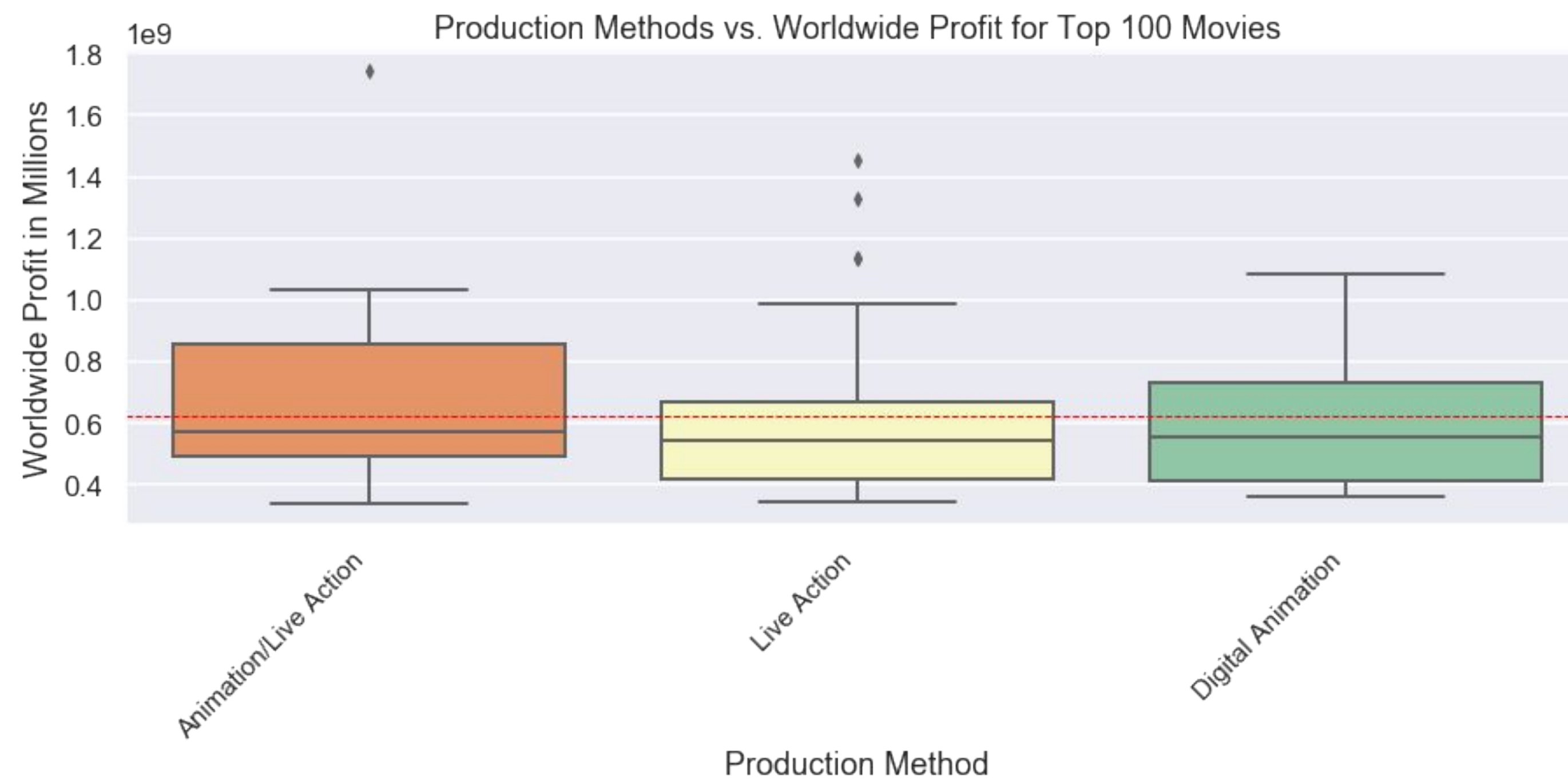


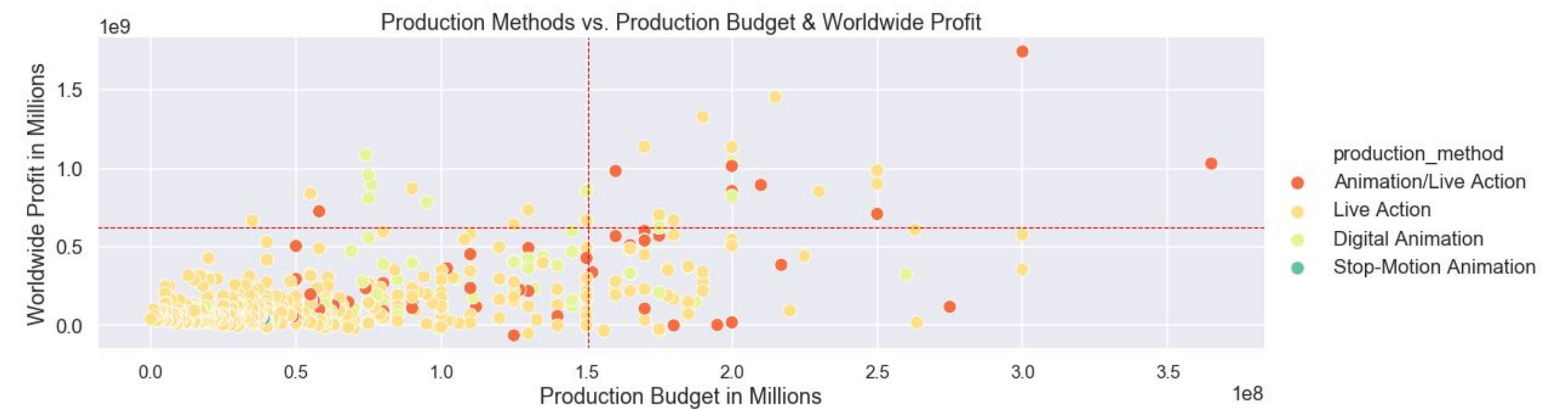
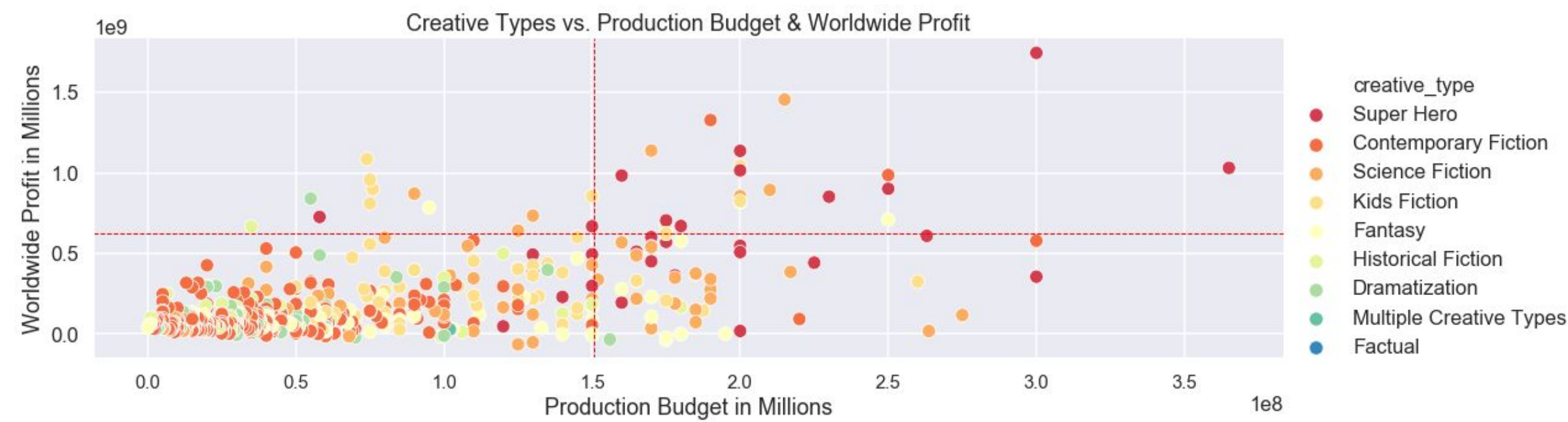
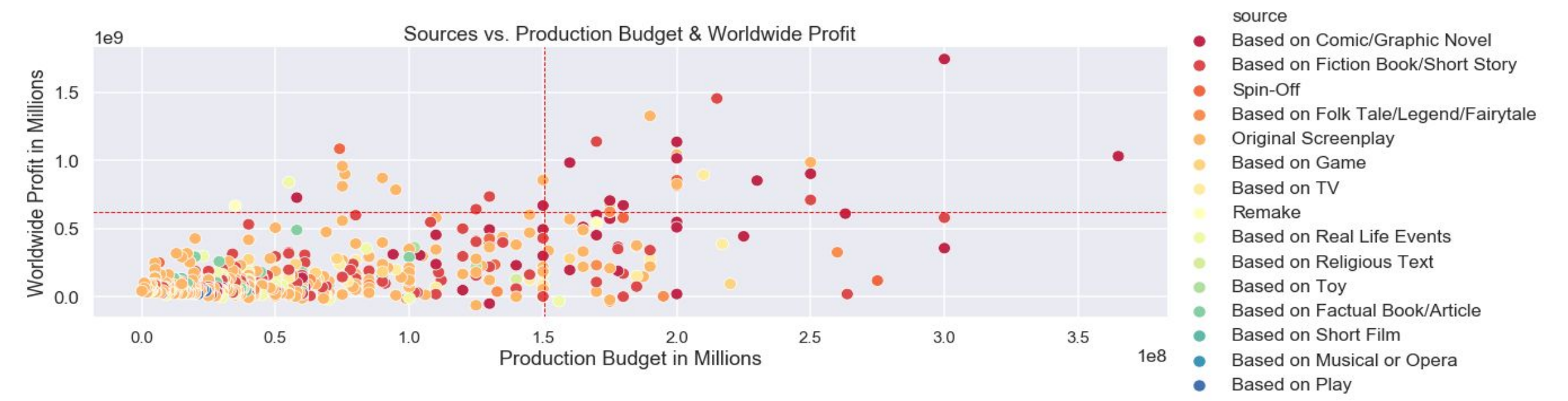
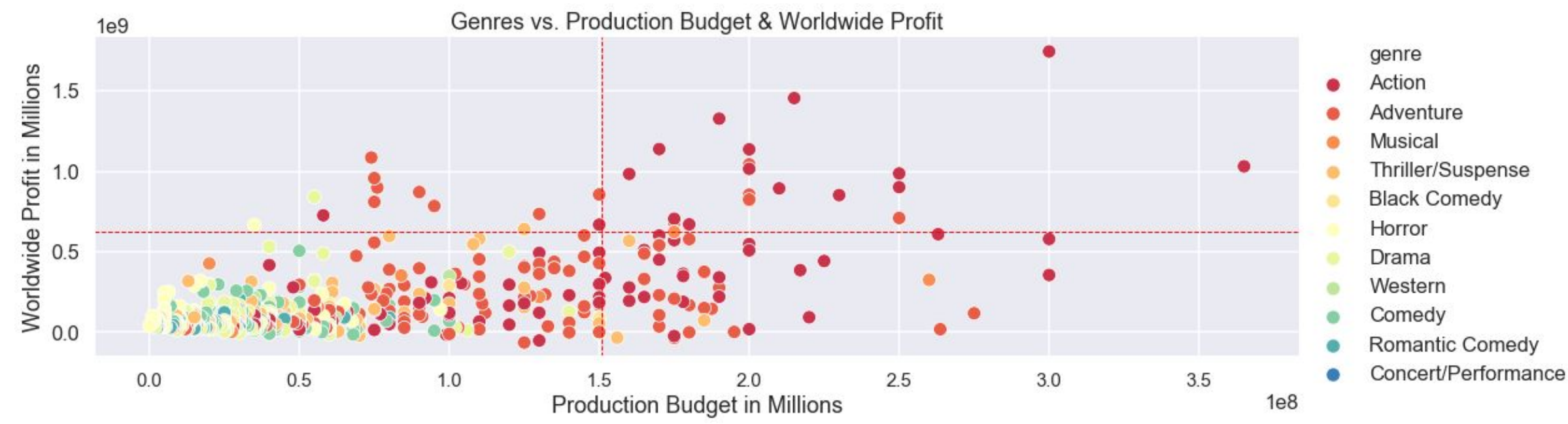


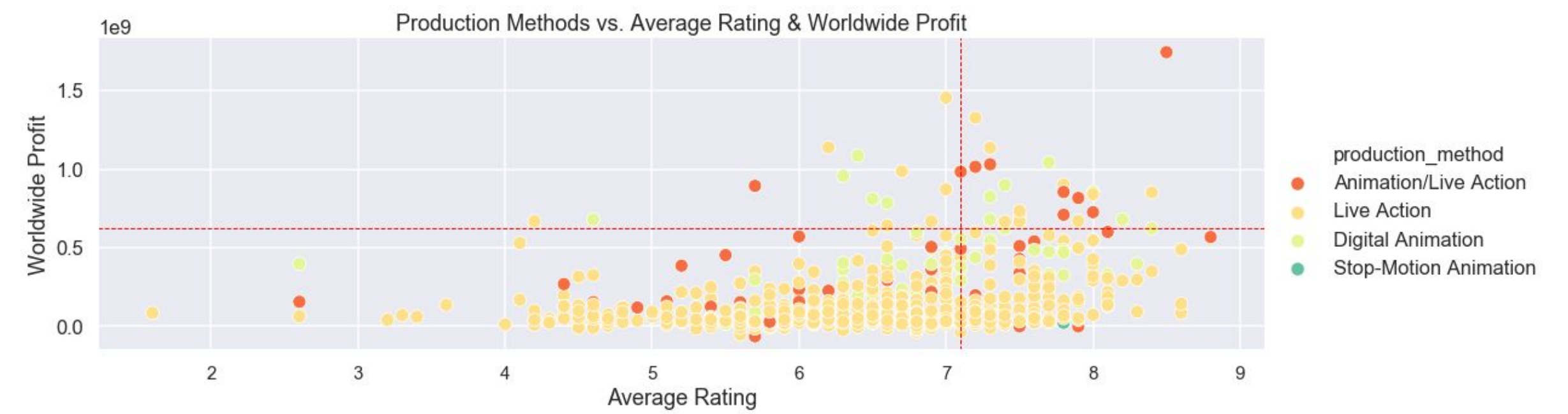
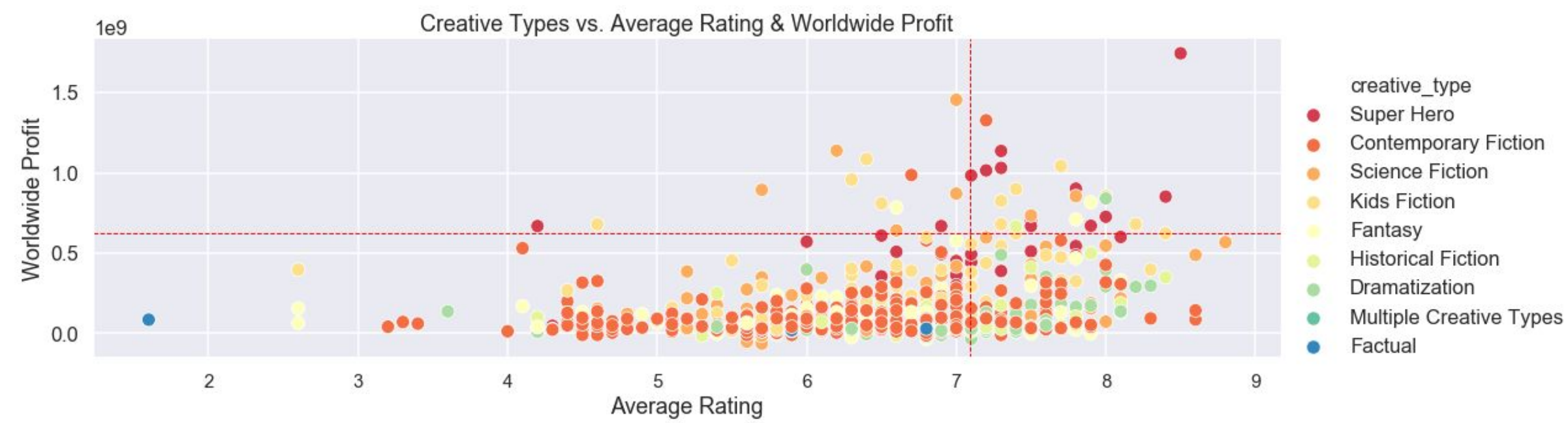
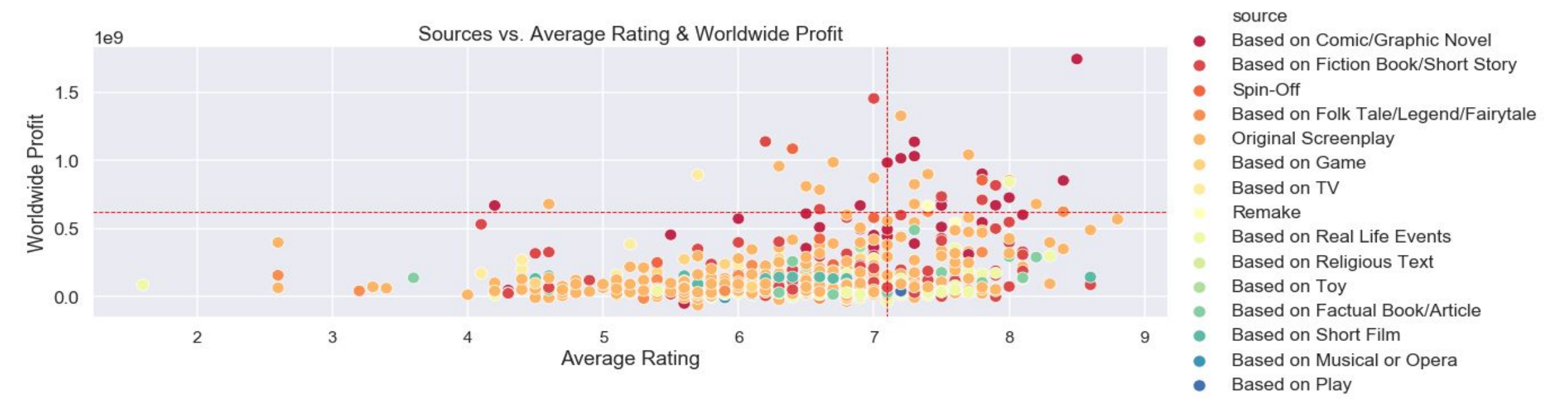
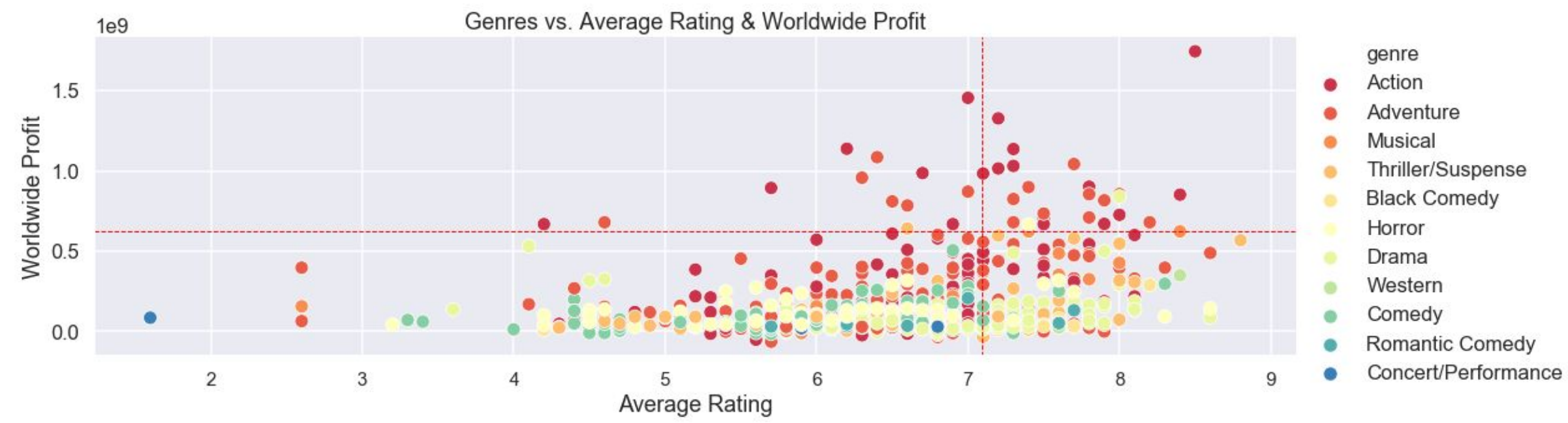


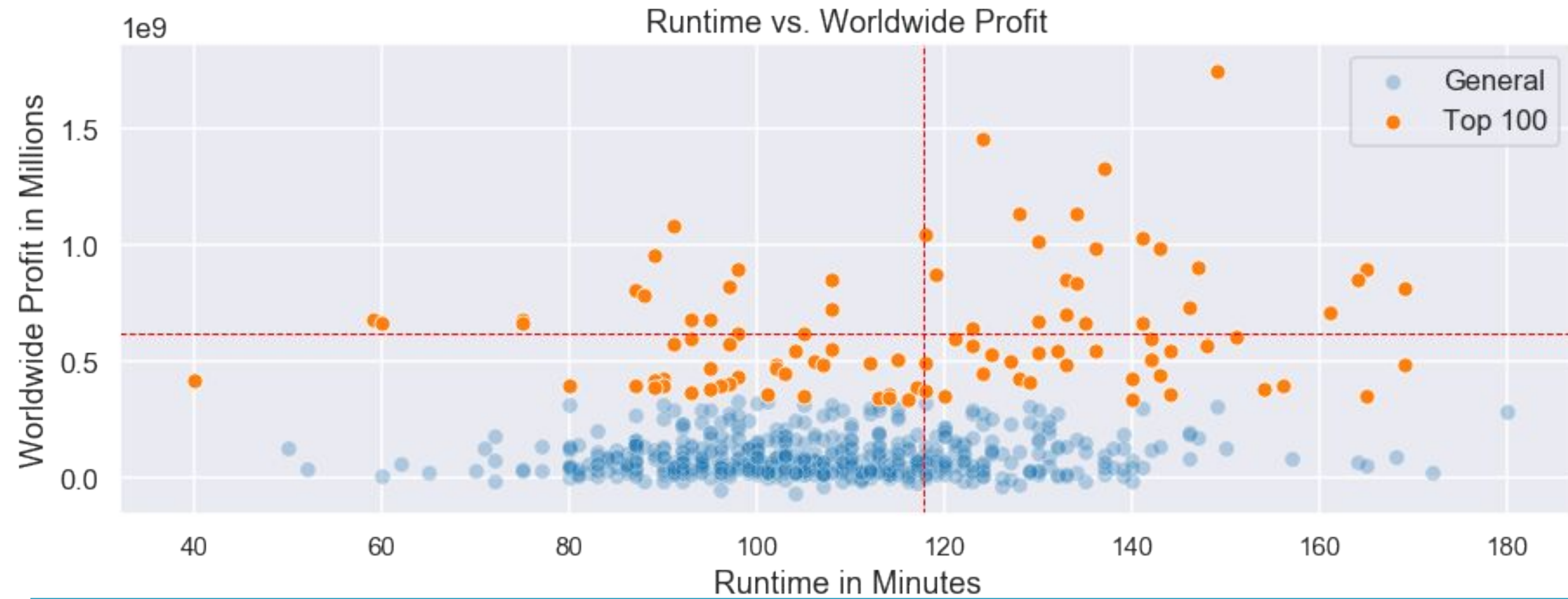
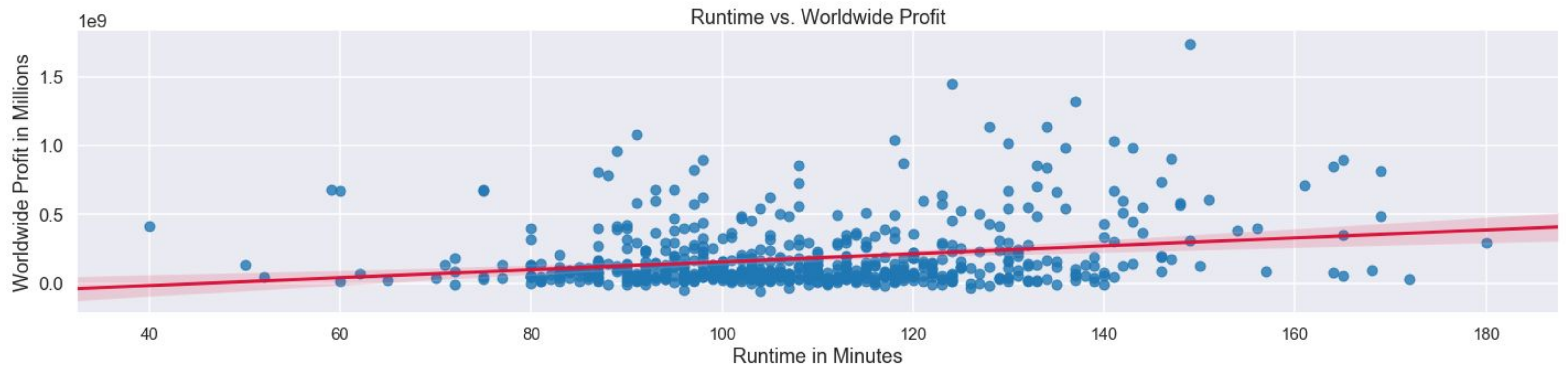


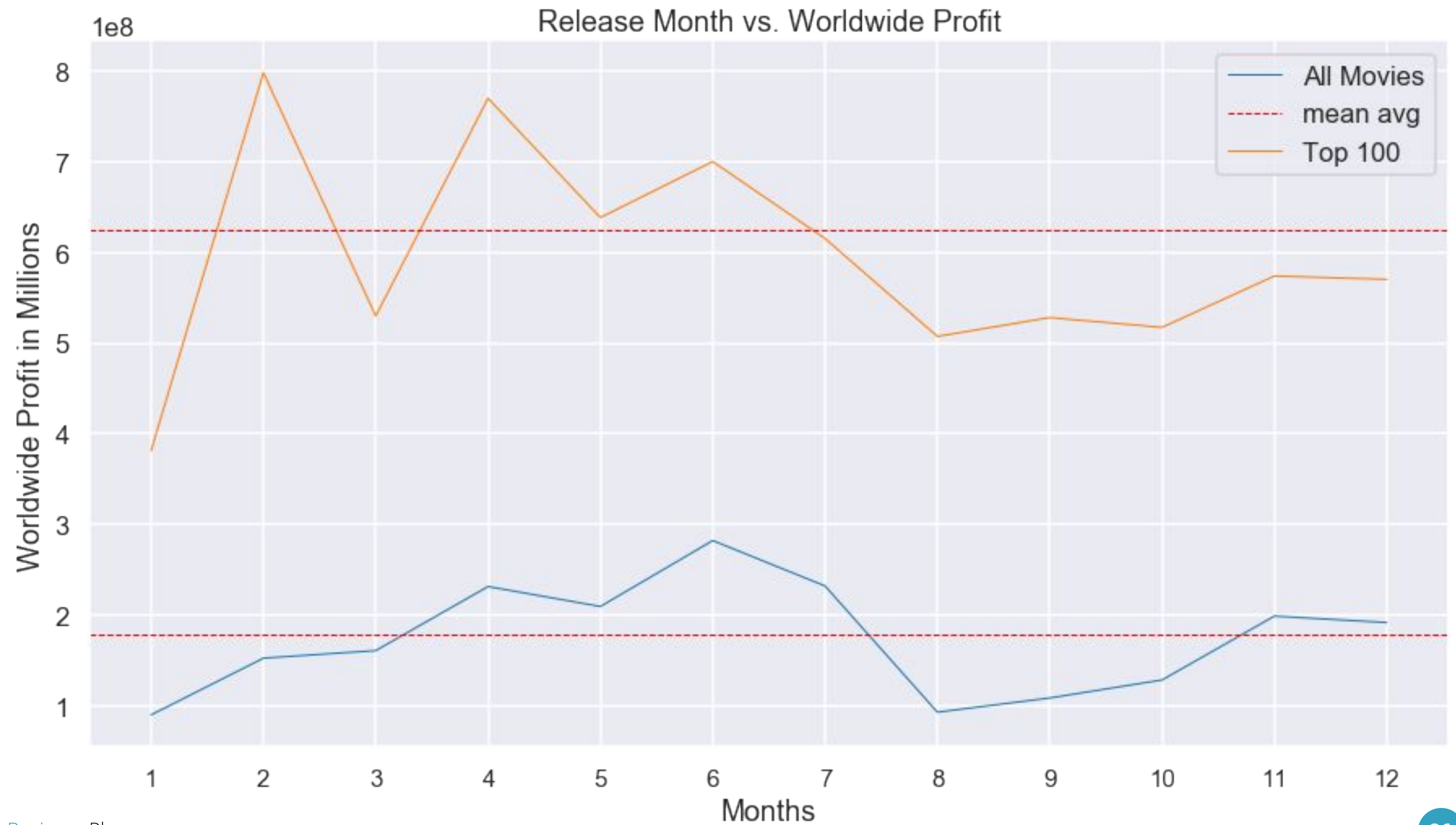


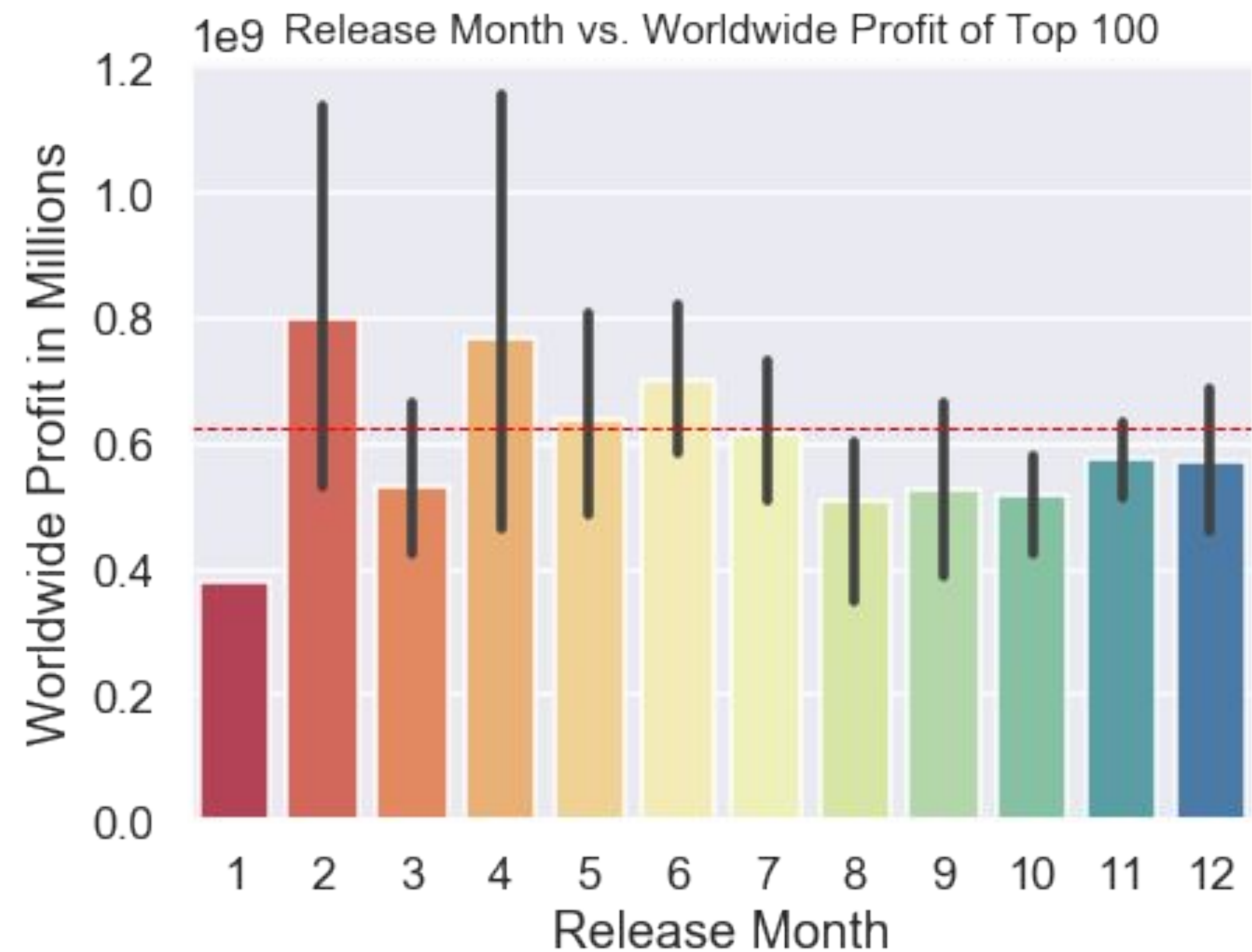
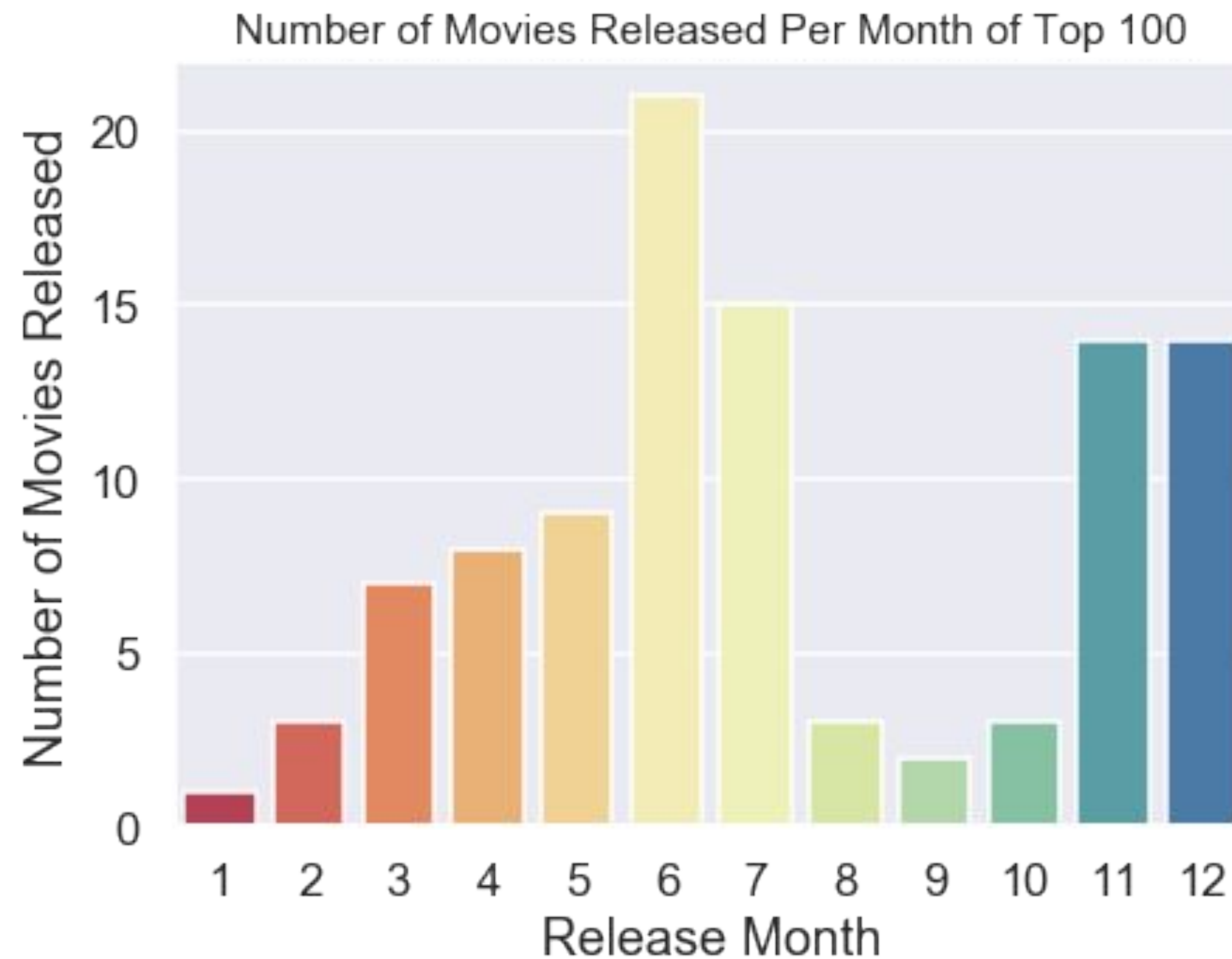












- Most release = June, December
- Most profit = February, April but not by much

