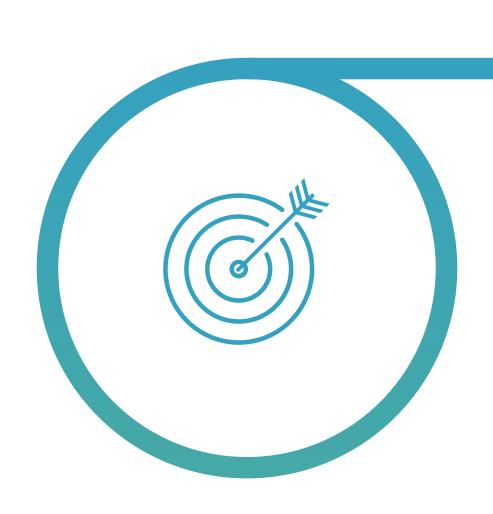
Data Science

The Movie Industry

Bao Tram Duong



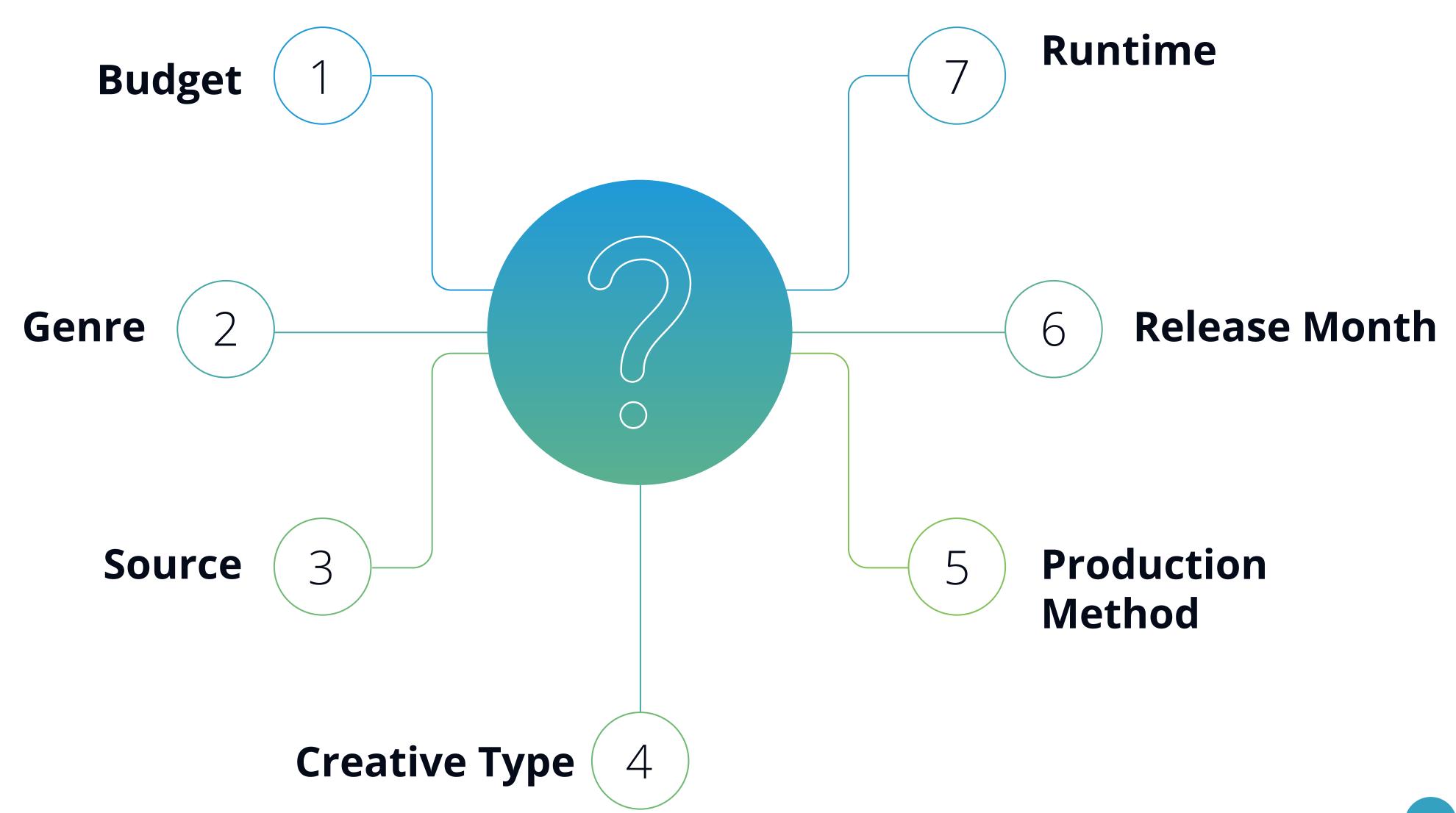
Introduction

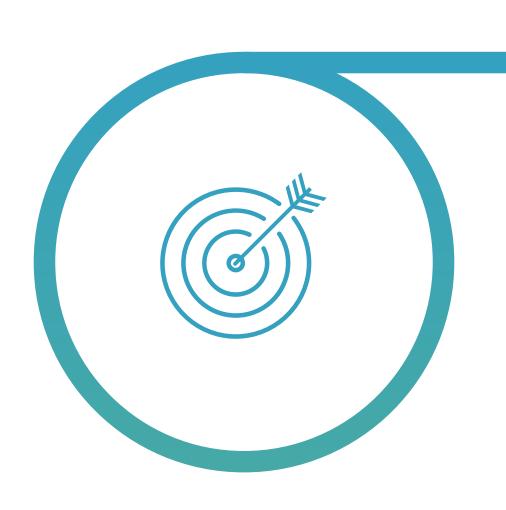
 The movie industry generated \$35.3B in revenue in 2019

 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





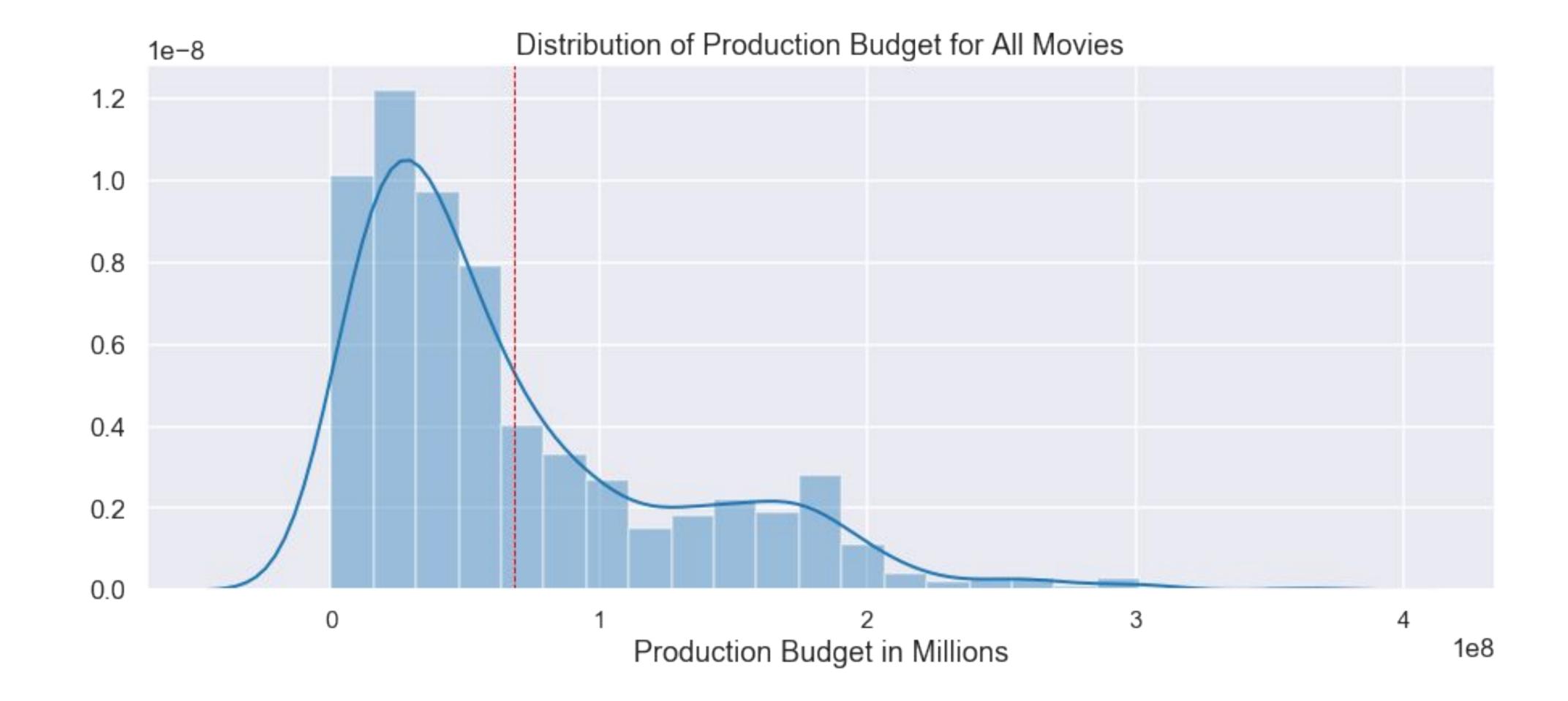
Business Problems

Q1. Is there a correlation between production budget and profit? If so, how much should Microsoft invest into production?

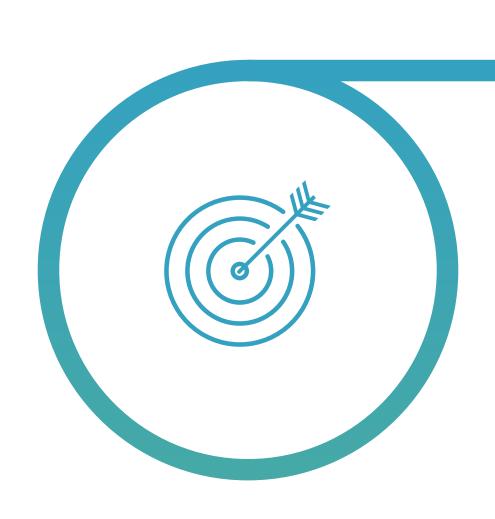
Q2. What kind of movie contents, in terms of genre, source, creative type, production method, perform the best?

Q4. When is the best time of year to release a movie?

Q5. Is there a correlation between runtime and profit? What is the best runtime?



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

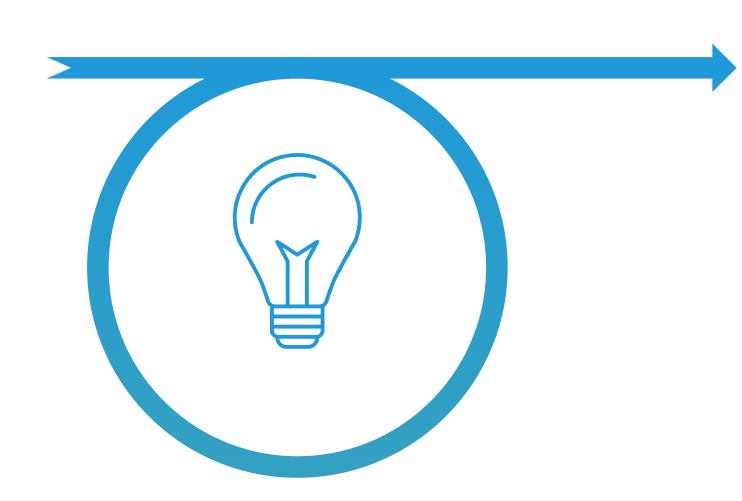


Methodology

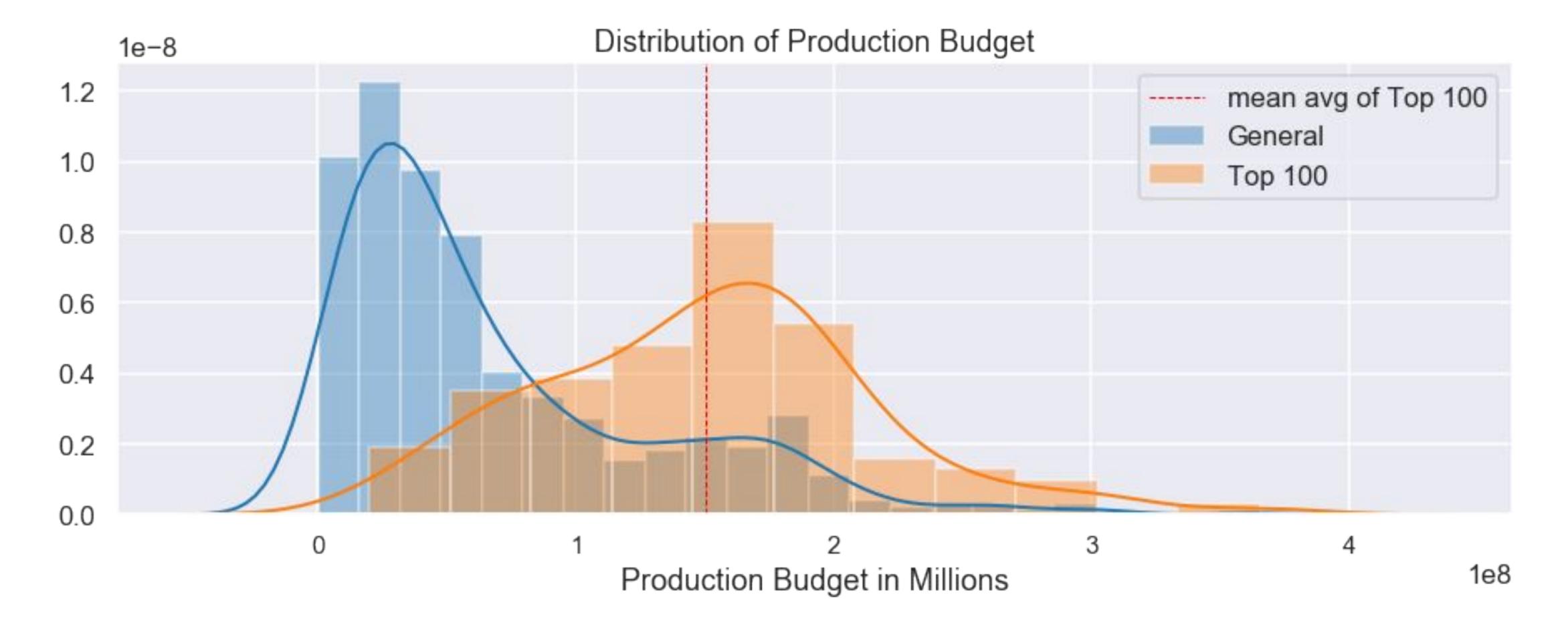
We split our dataset into 2 groups:

- 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.

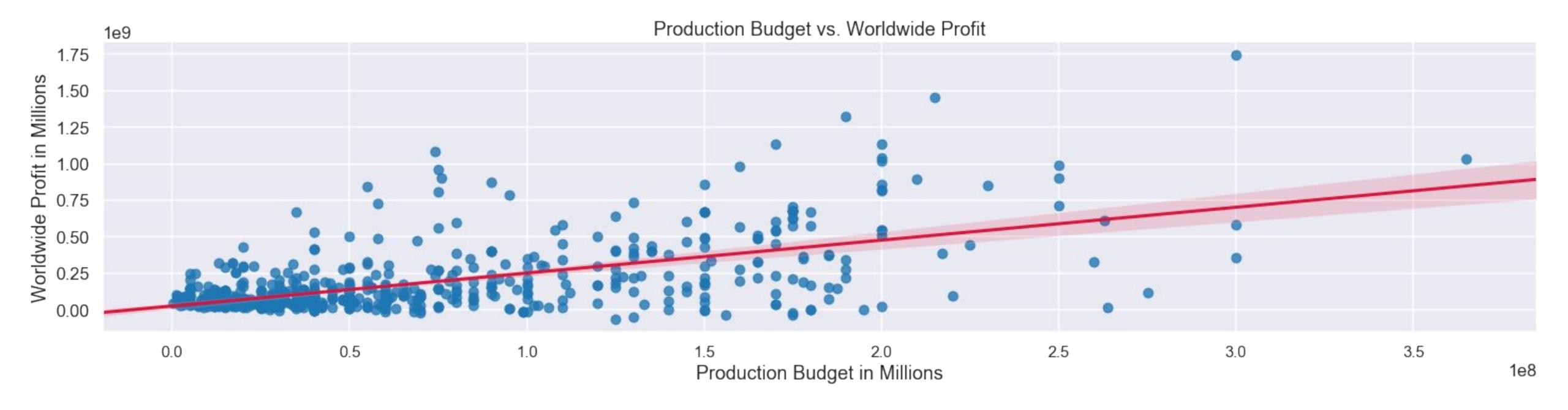
Compare & observe what the Top 100 Movies are doing differently to set themselves apart



Business Solution Production Budget

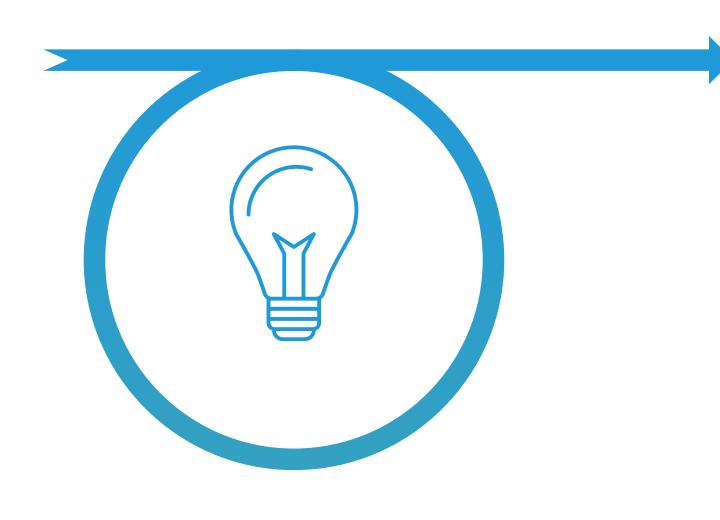


- The average production budget in the General Movies group is \$68M.
- The average production budget in Top 100 Movies group is \$150M.



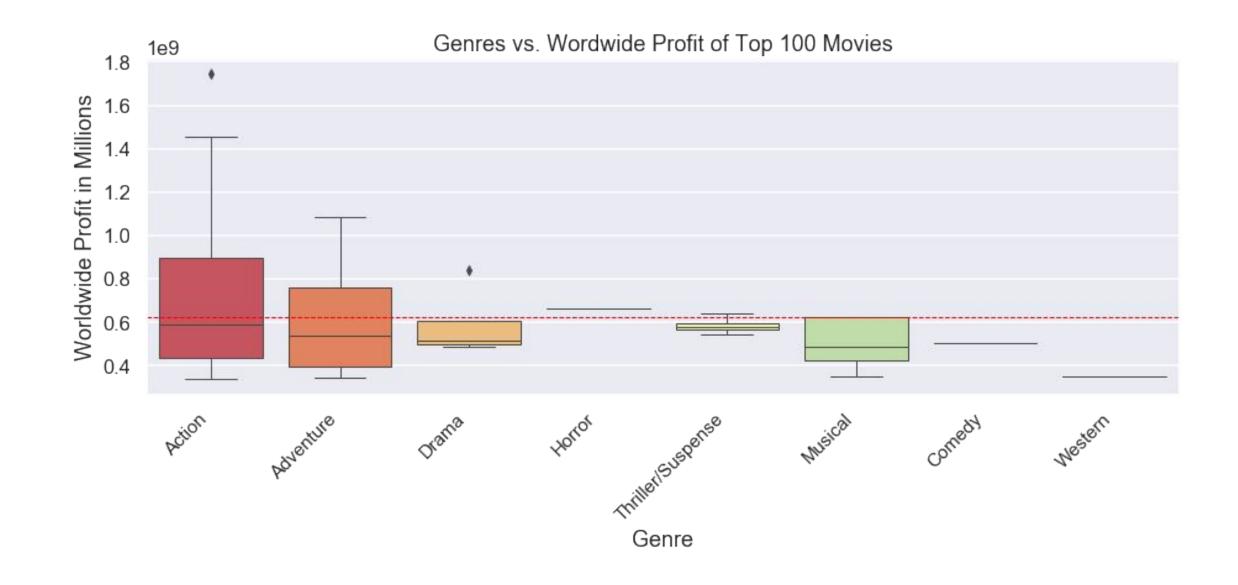
- The average worldwide profit in General Movies group is \$179M.
- The average worldwide profit of the Top 100 Movies group is \$624M.

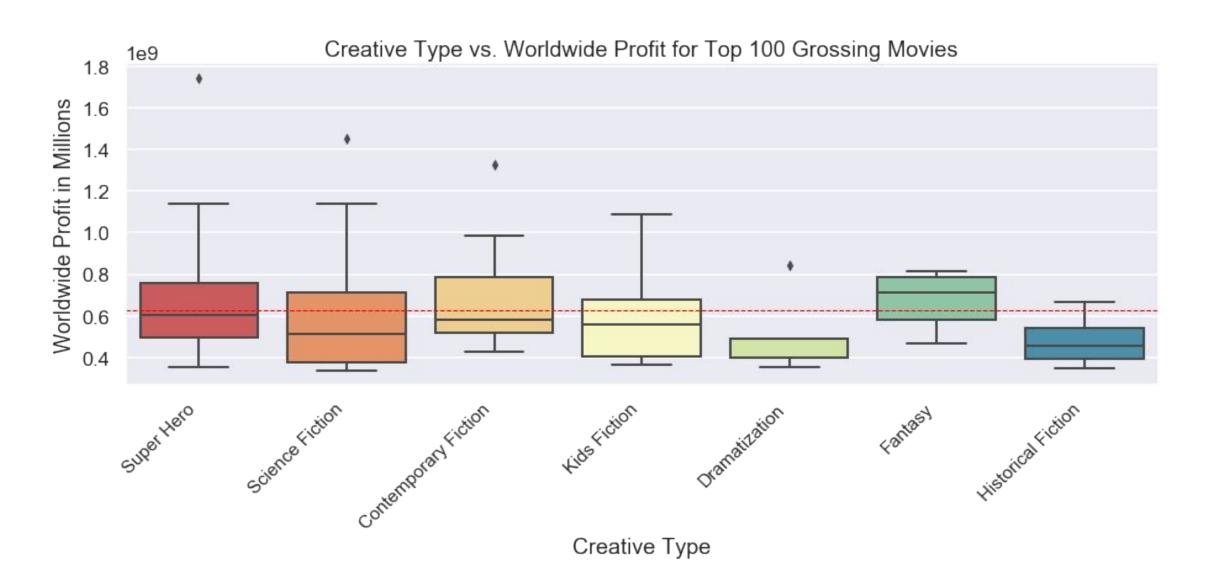


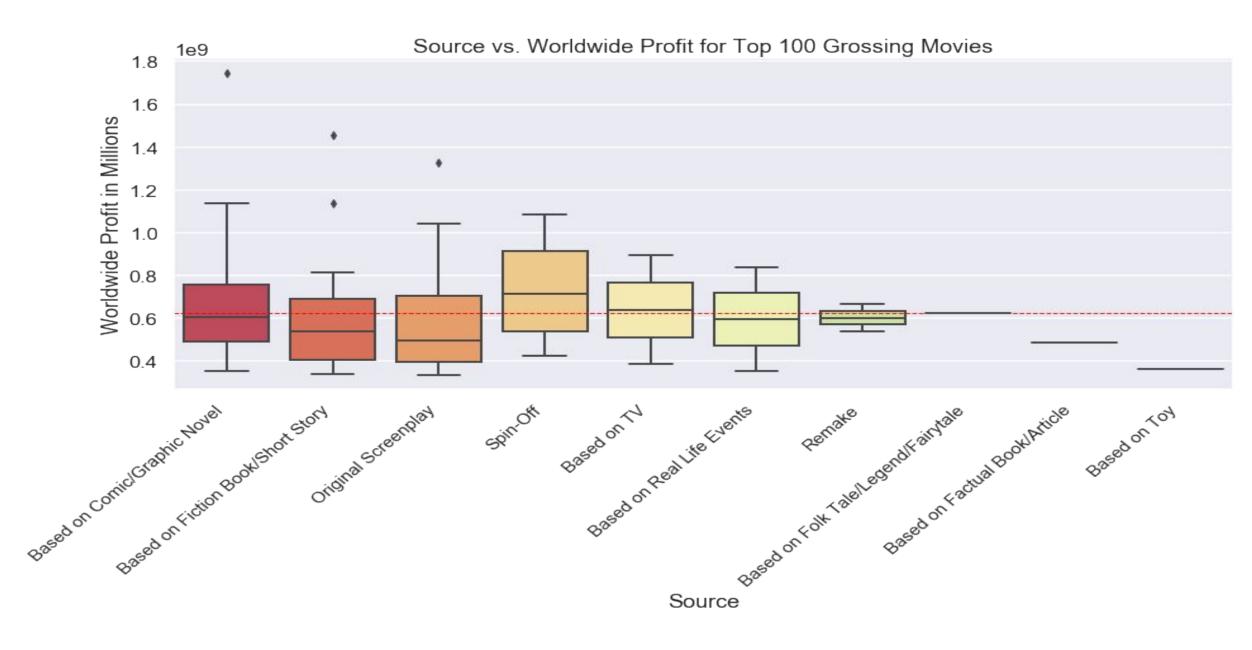


Business Solution

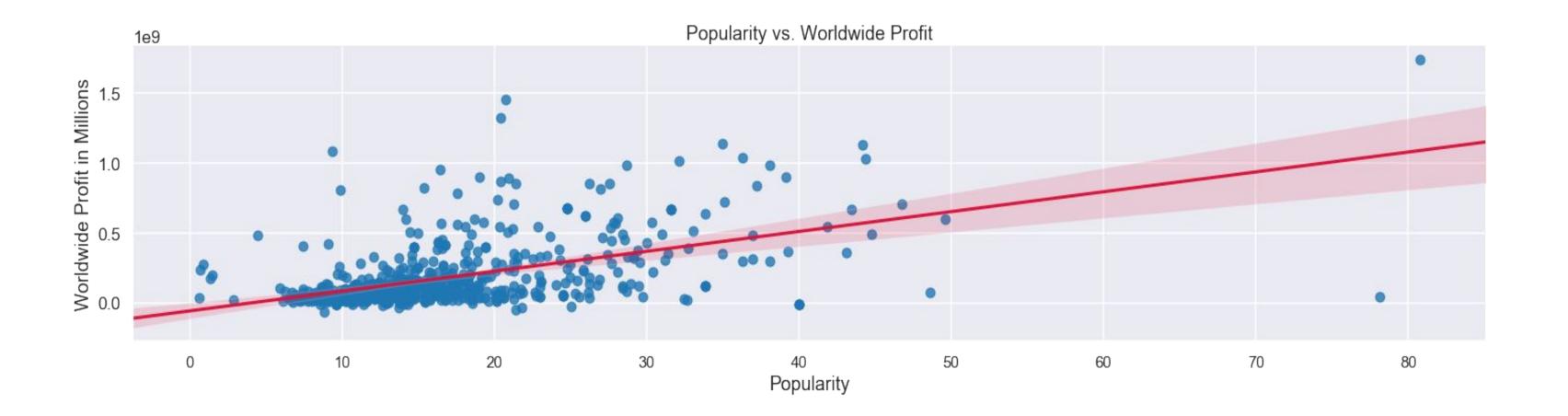
Genre
Source
Creative Type
Production Method

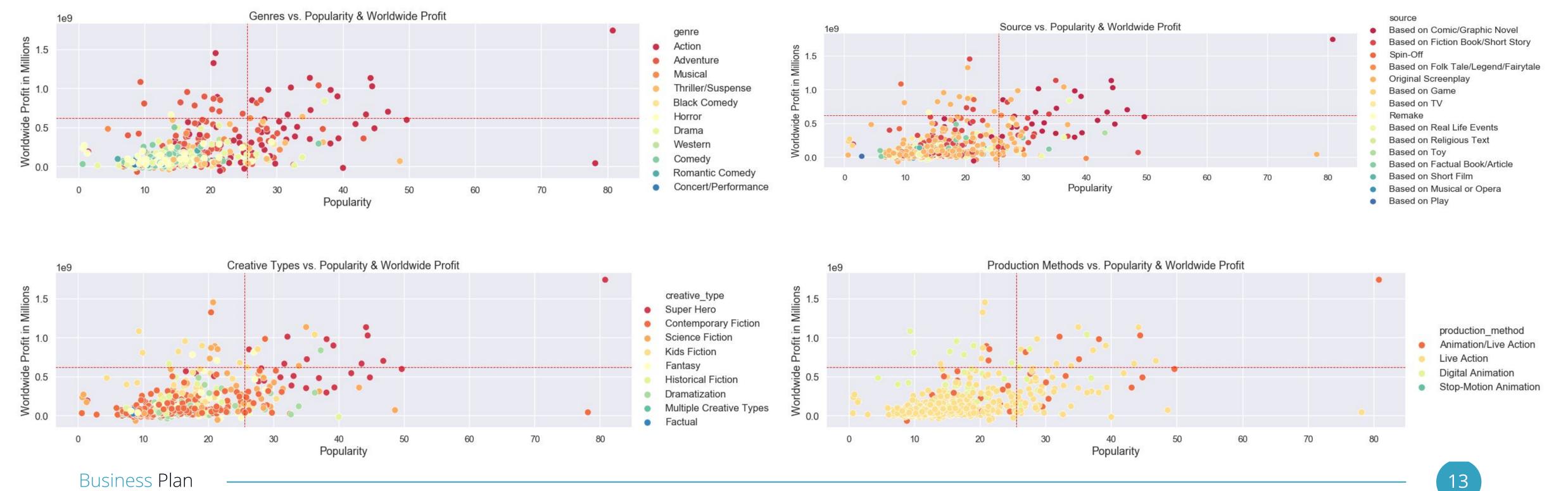


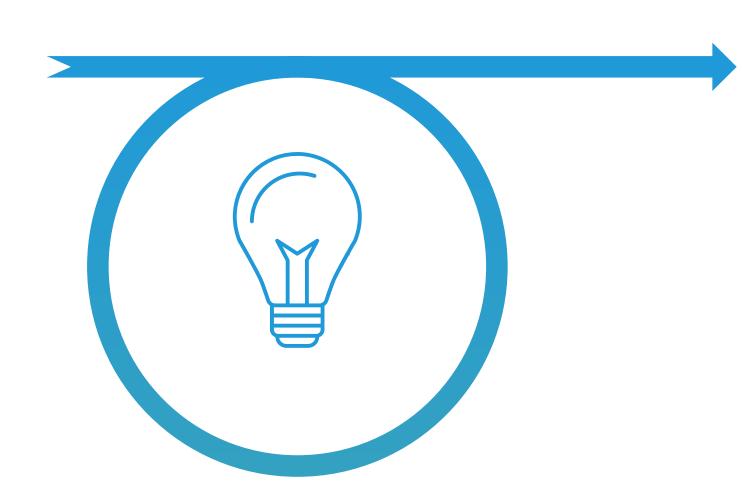






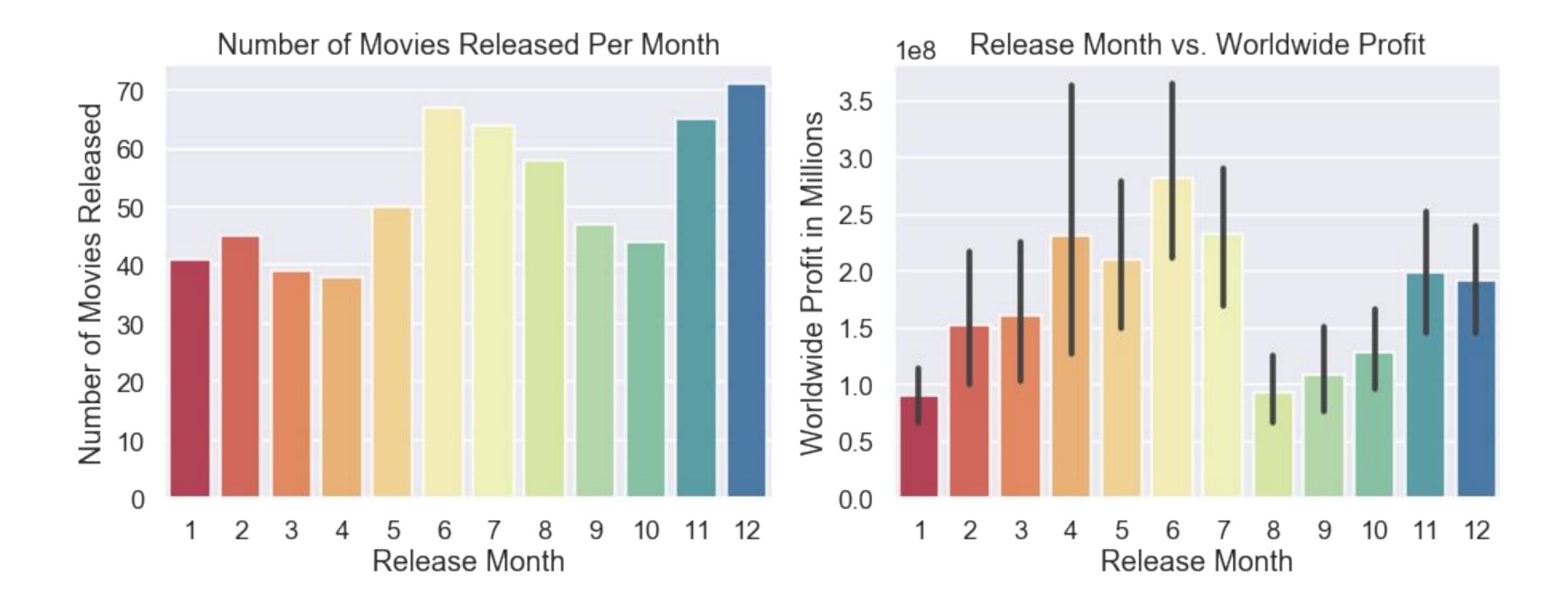






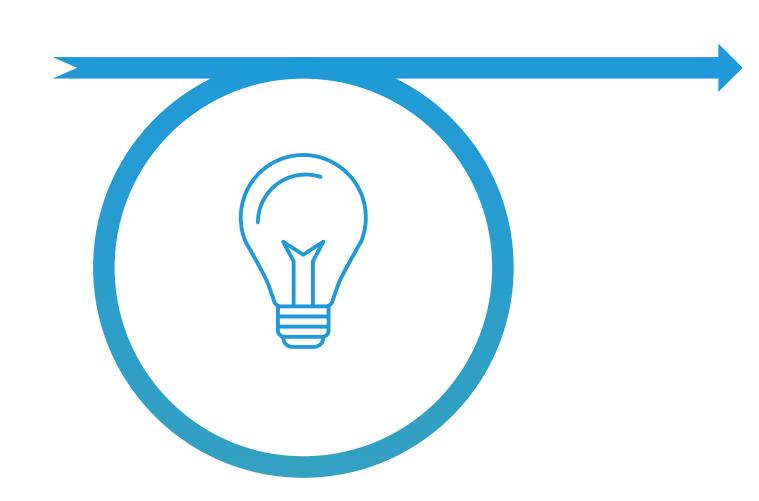
Business Solution

Release Month

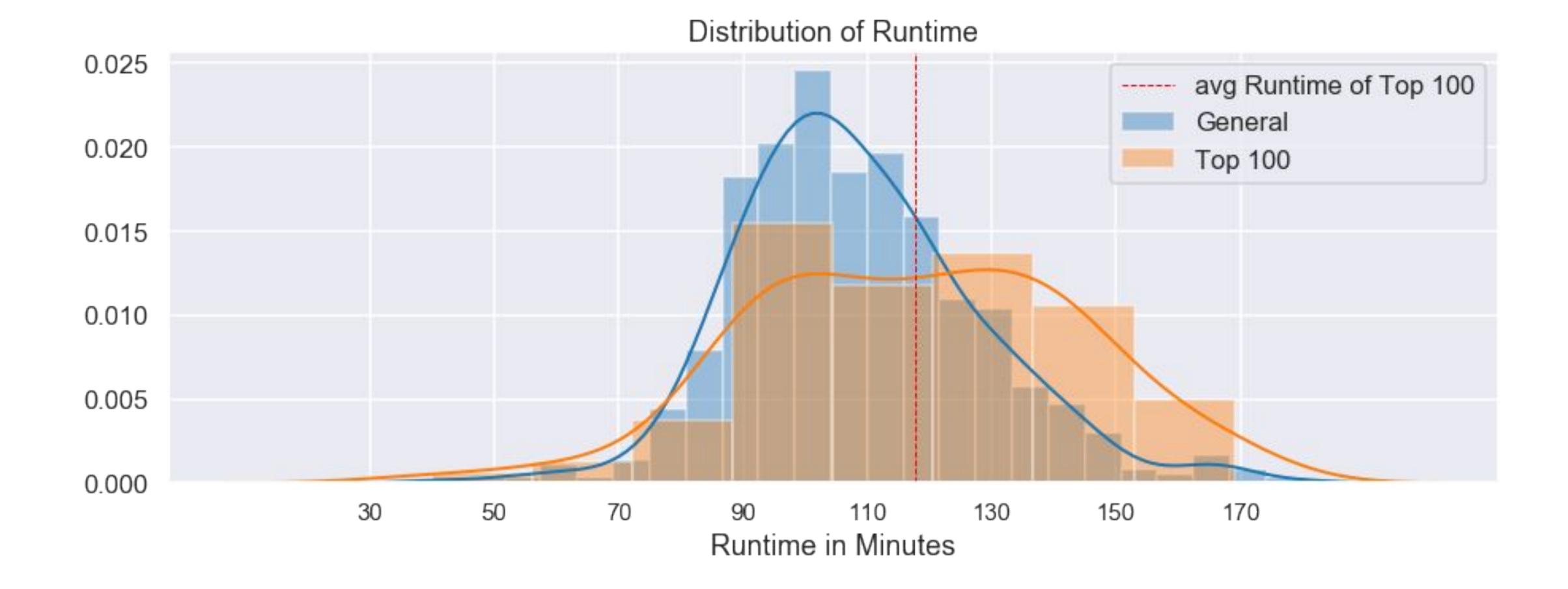


- Most release = June, December
- Most profit = June

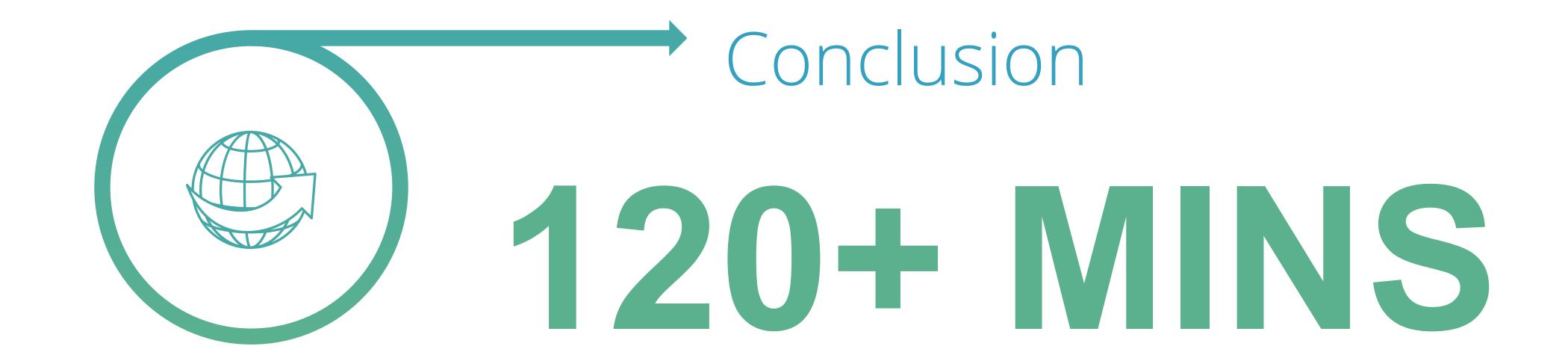




Business SolutionRuntime

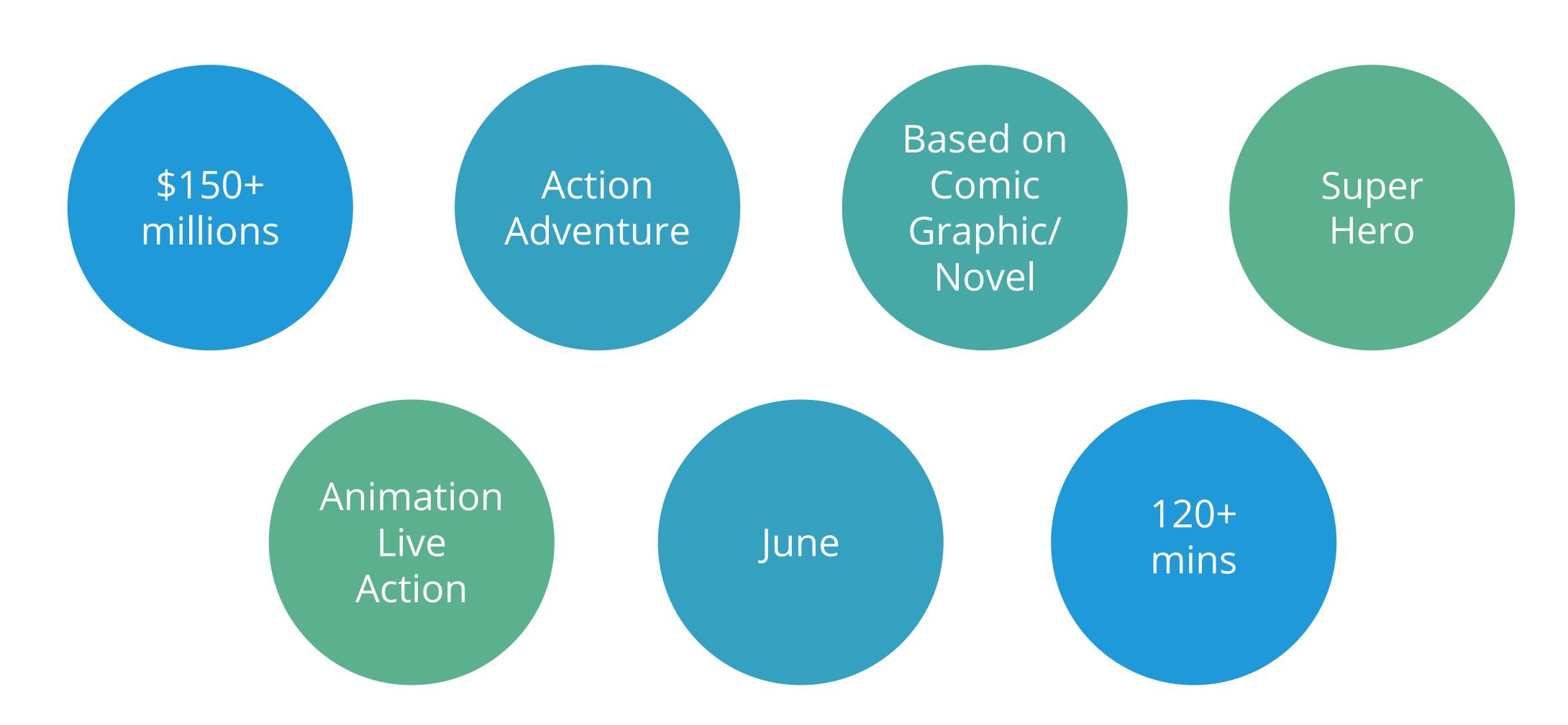


- The average runtime in General Movies is 108 minutes.
- The average runtime in Top 100 Movies is 118 minutes.



Our Recommendations

What Makes a Movie Successful



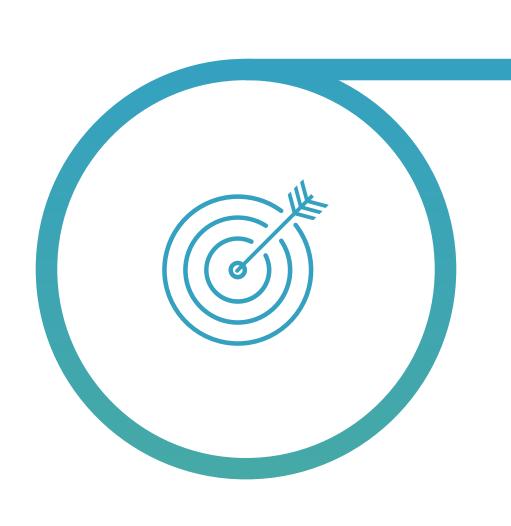
Future Works

- 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

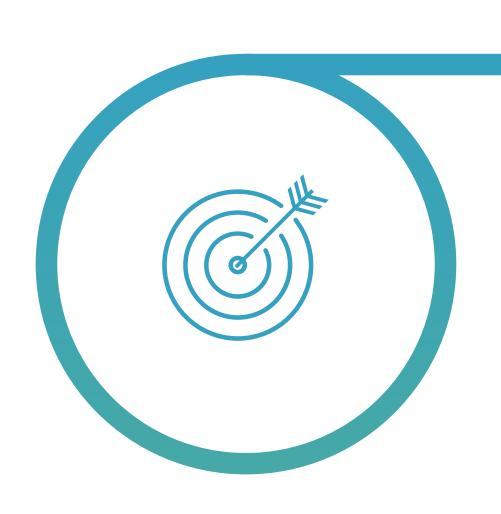


Examples

Pirates of the Caribbean: On Stranger Tides
 (2011) - \$379M budget, \$1B earned

Avenger: Age of Ultron (2015) - \$365M budget,
 \$1.3B earned

• *Spectre* (1997) - \$300M budget, \$879M earned

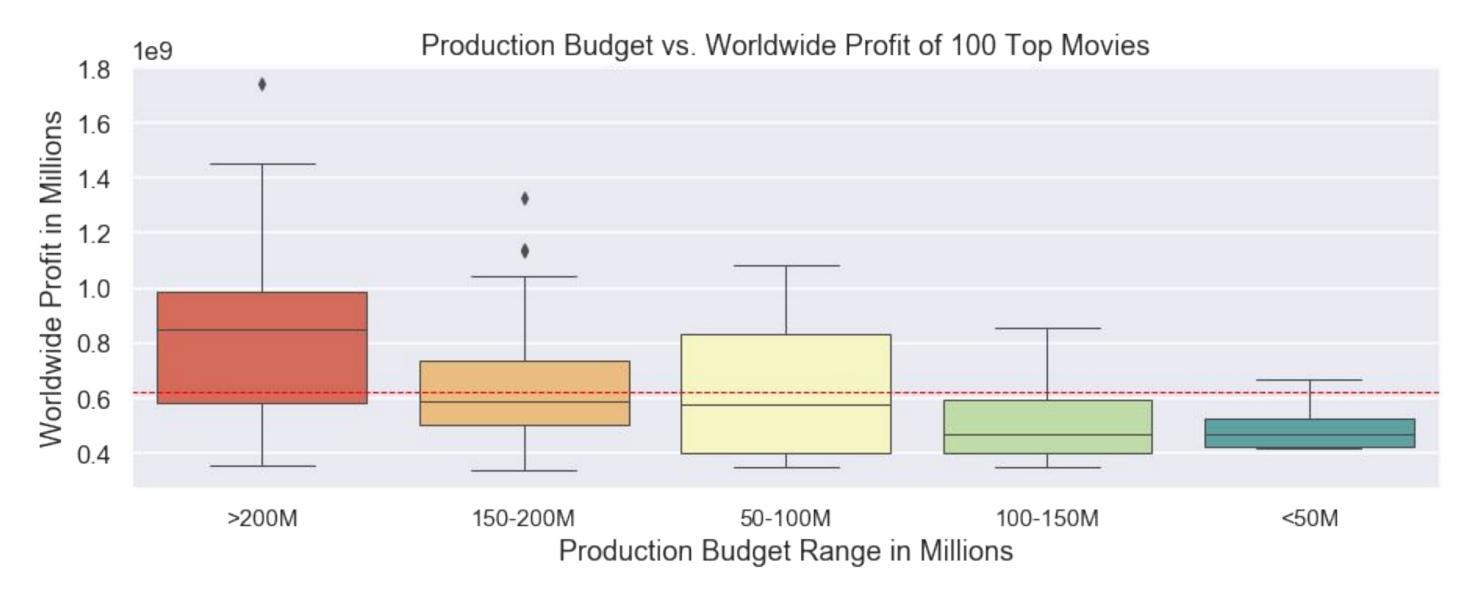


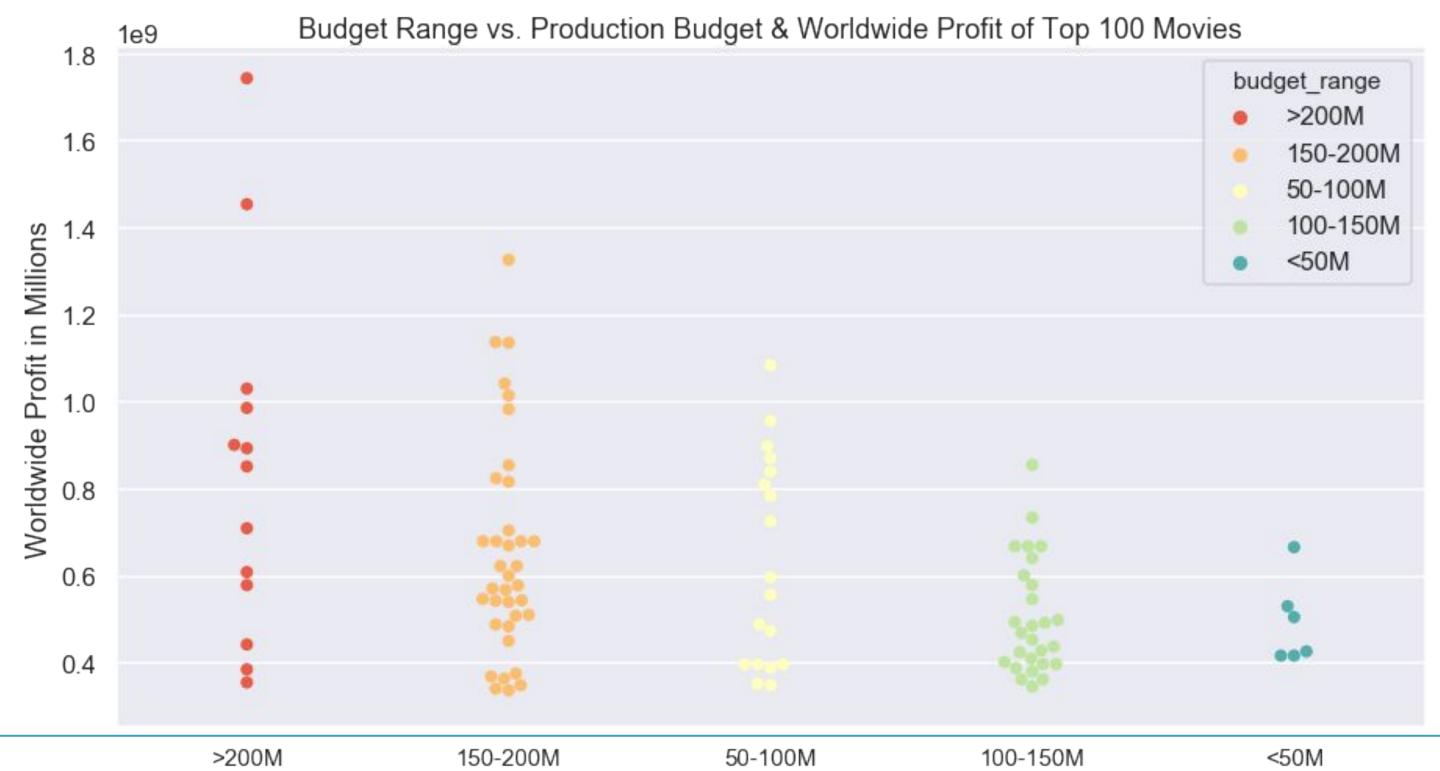
Examples

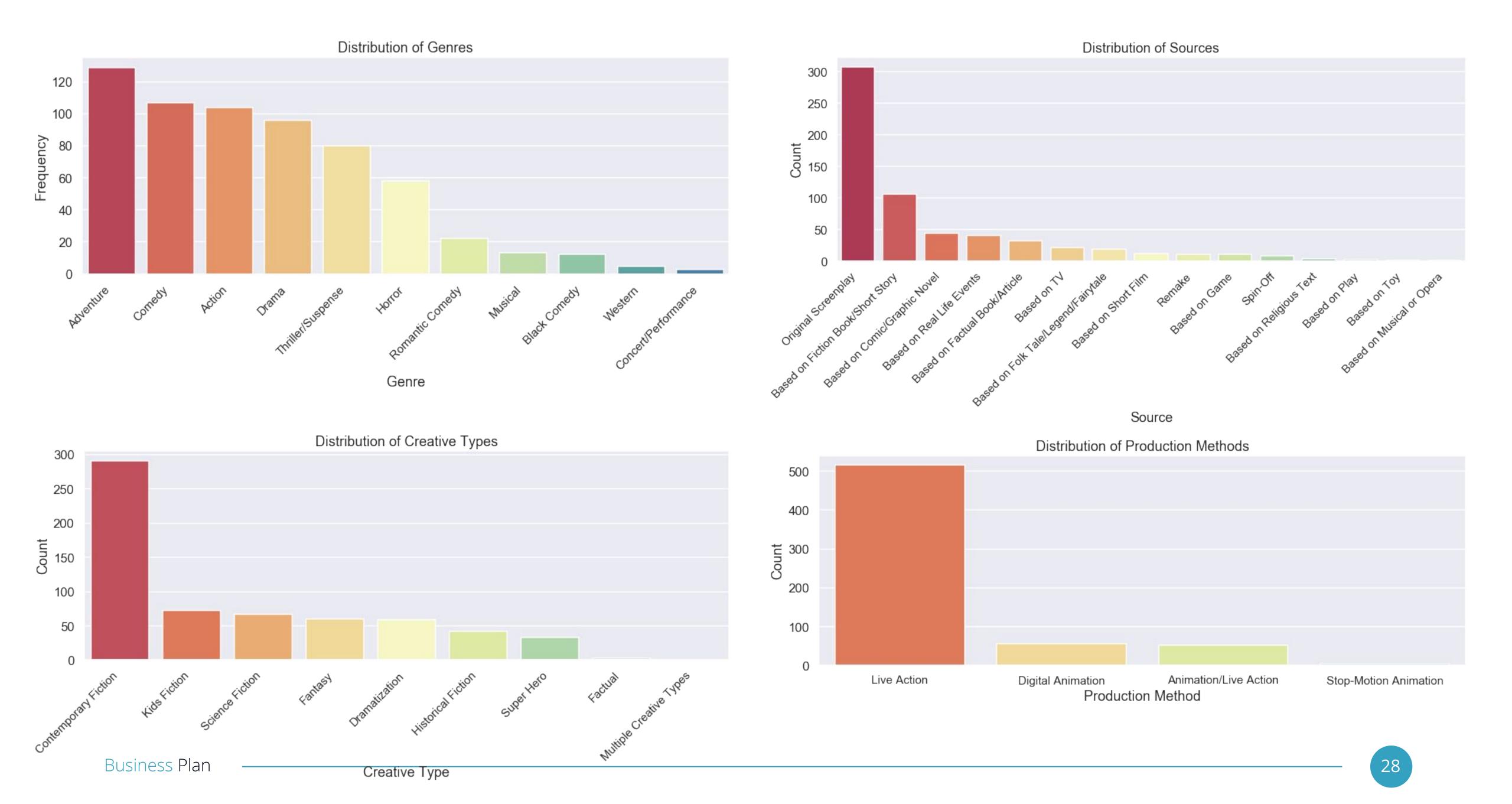
• *Facing the Giants* (2006) - \$100,000 budget, \$24.4M earned

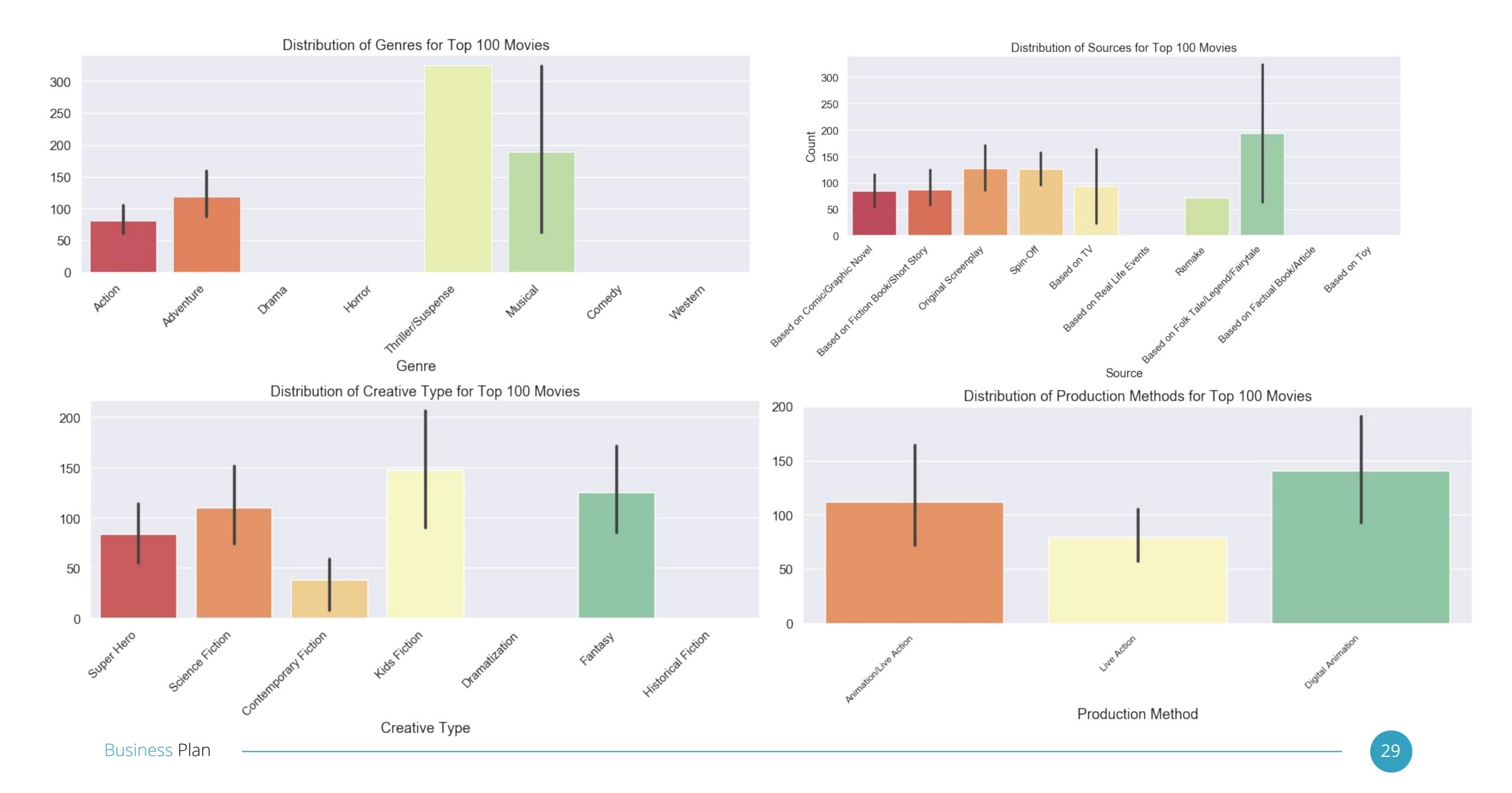
• *Once* (2007) - \$150,000 budget, Oscar nominations, \$19M earned

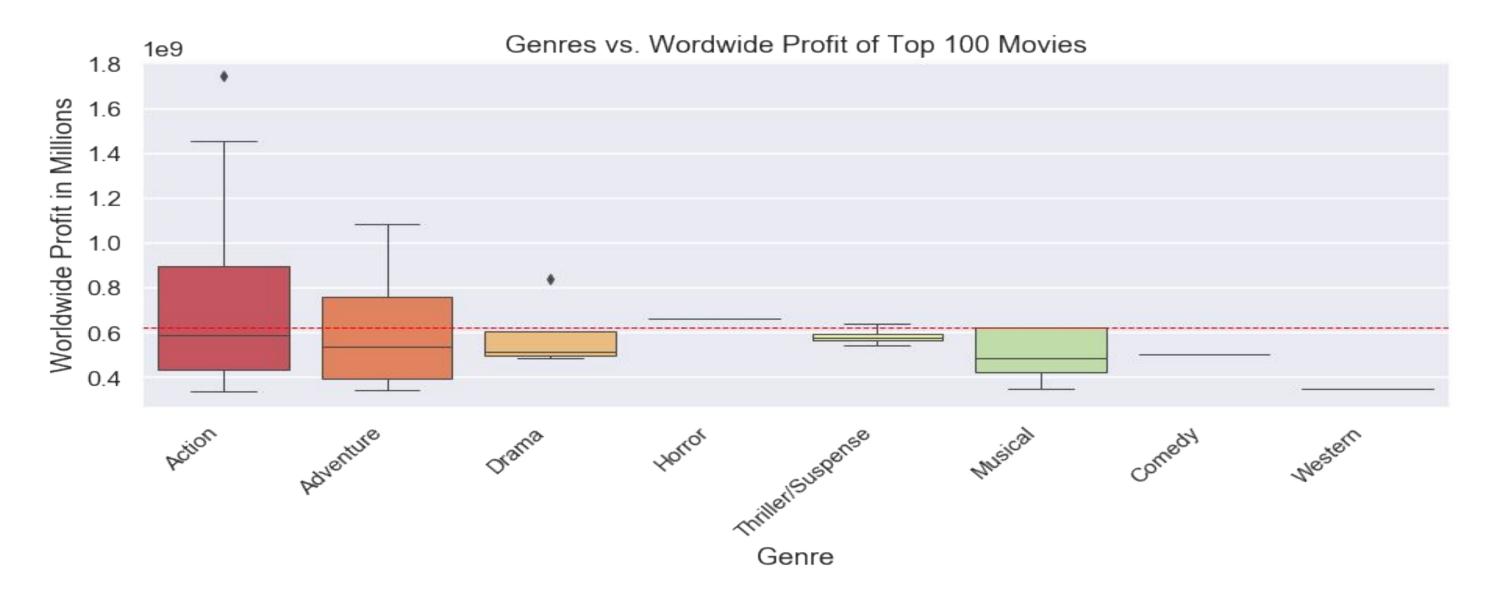
Mad Max (1980), \$200,000 budget, \$49.6M
 earned

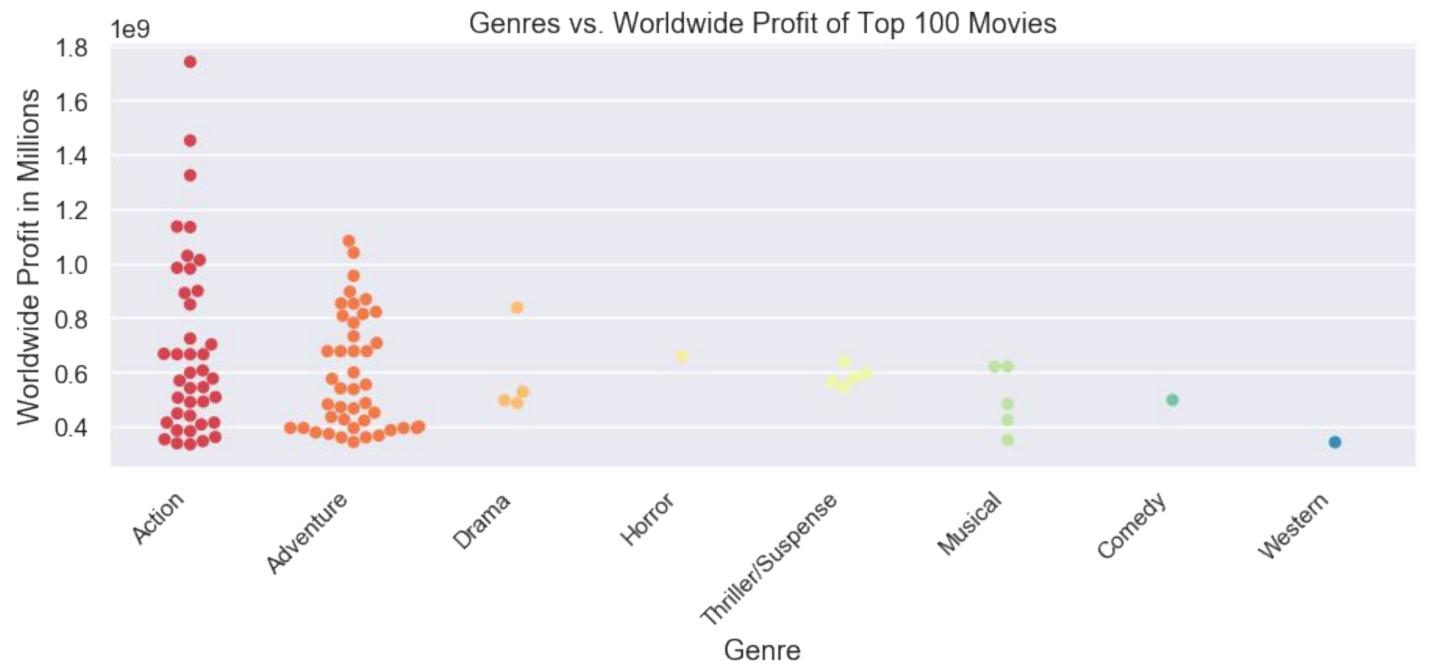


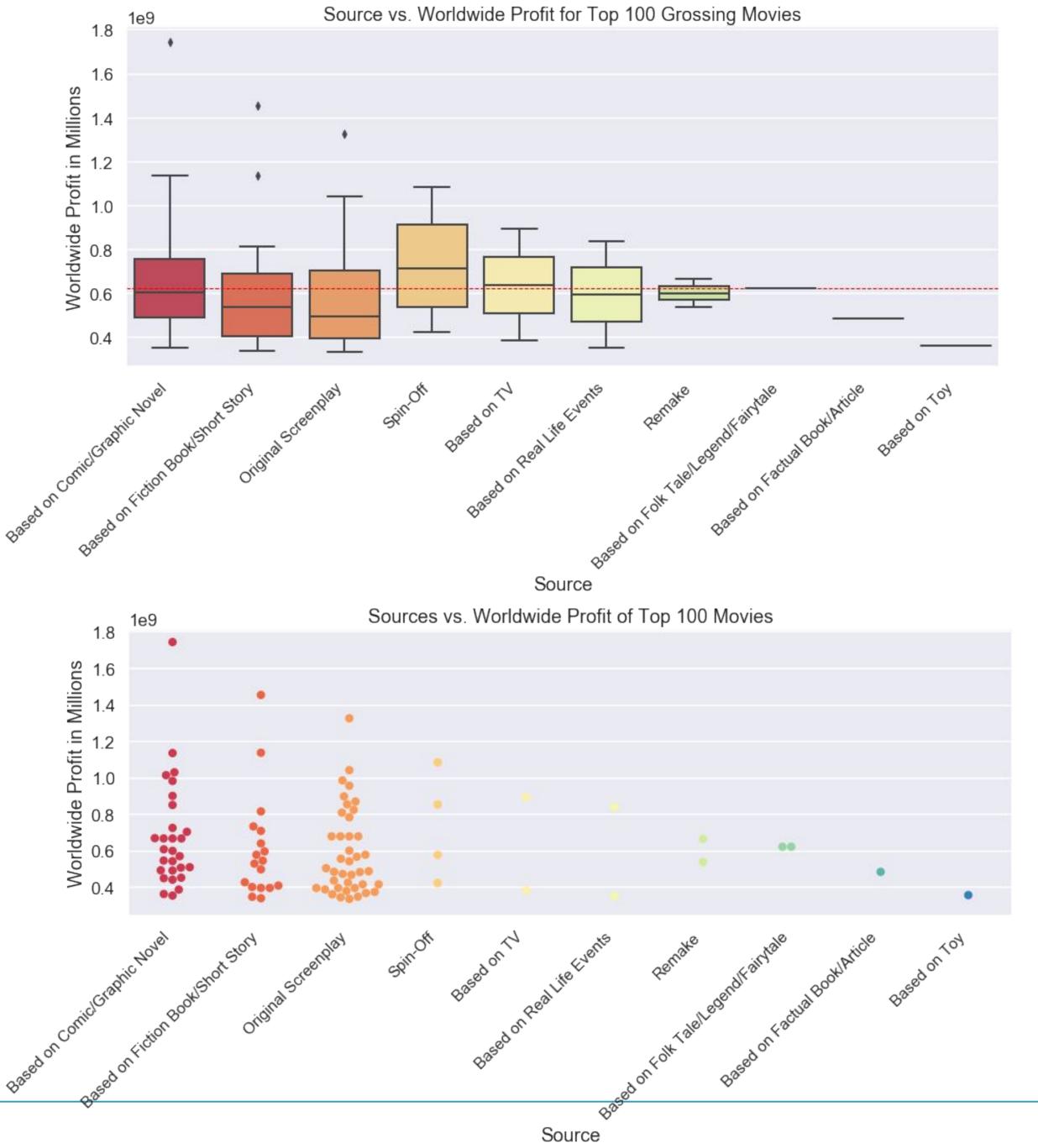


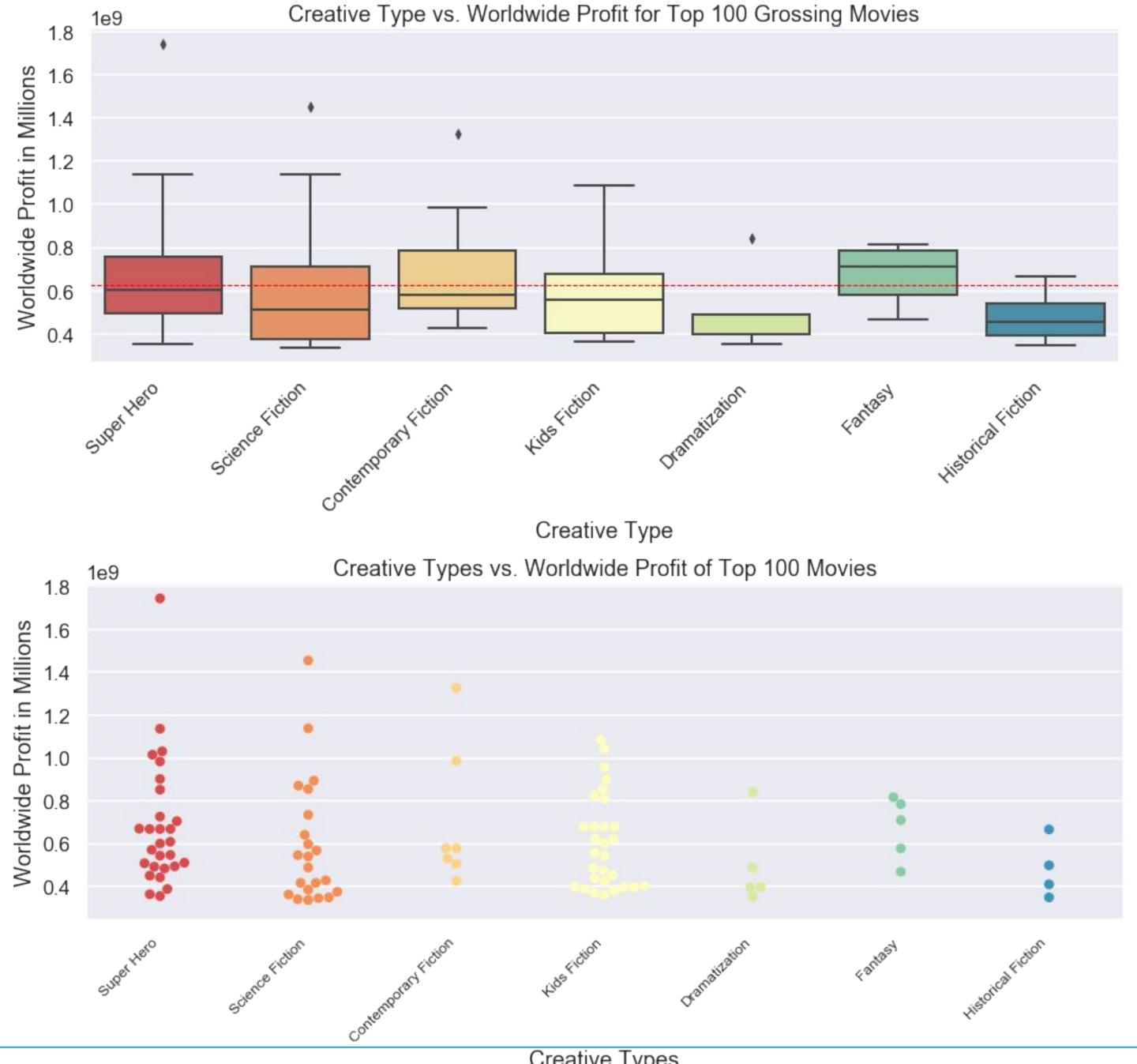


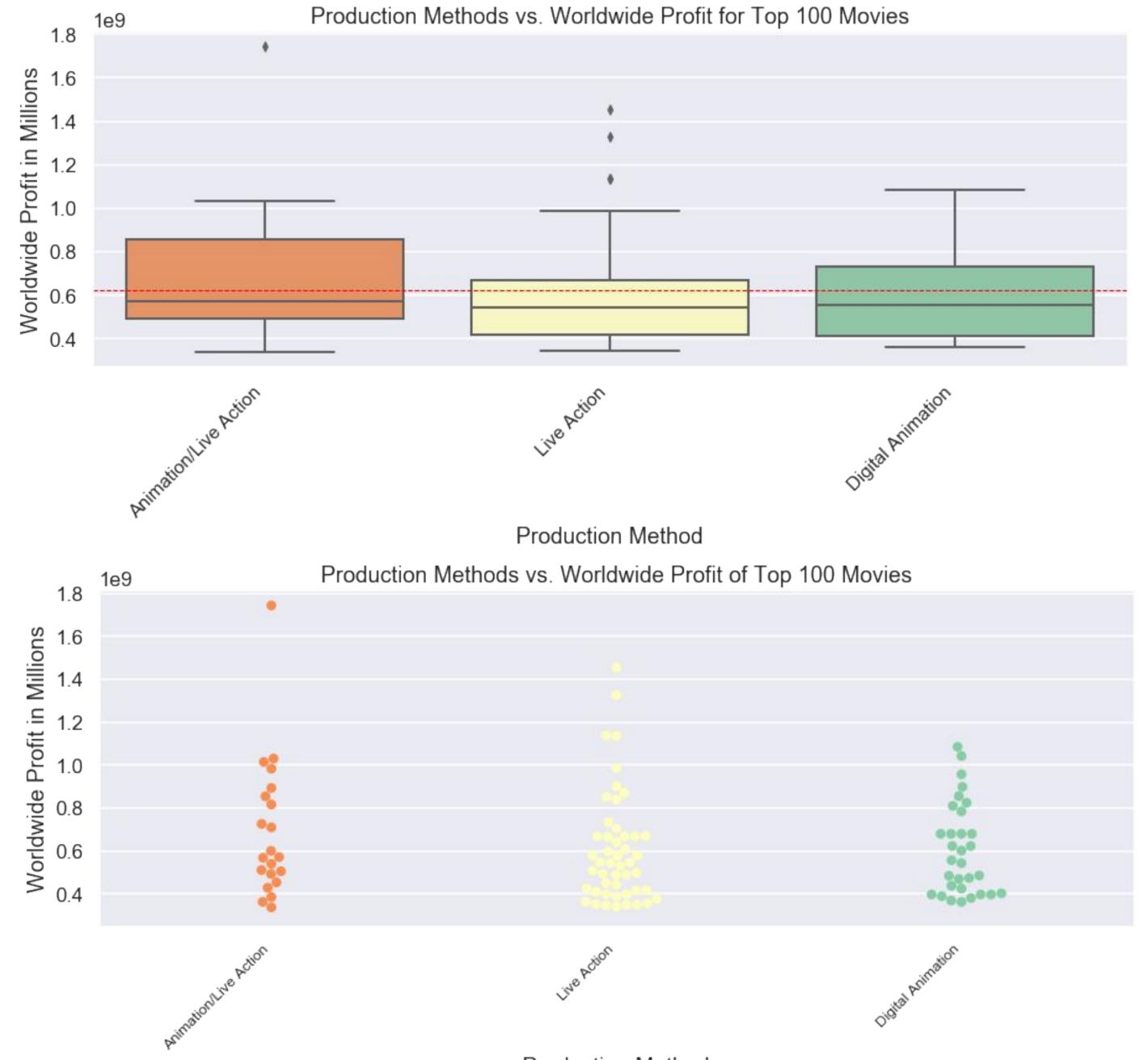


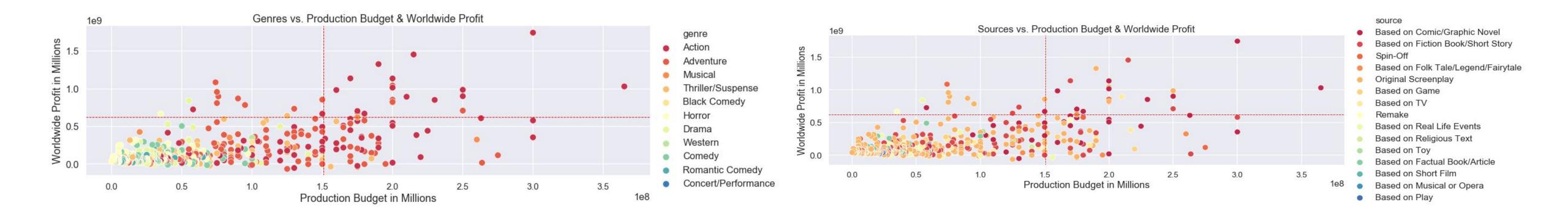


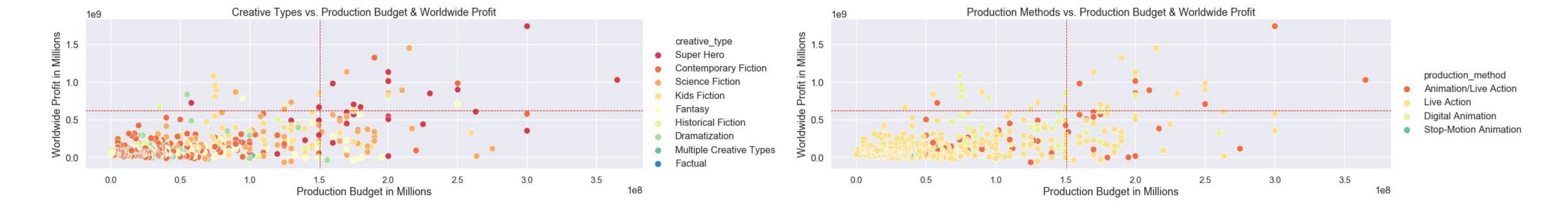


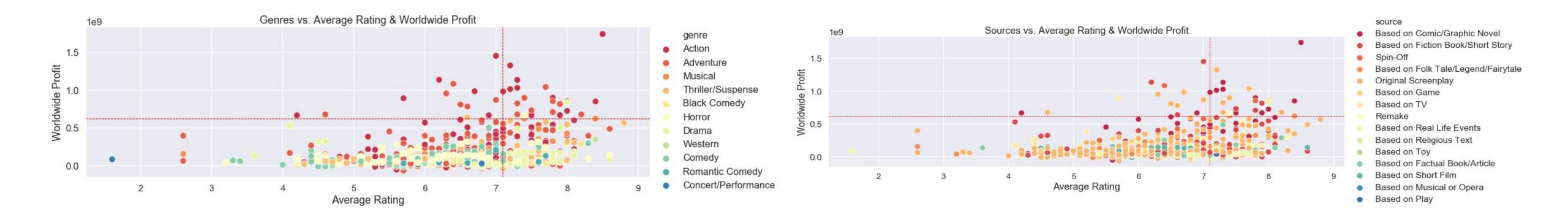


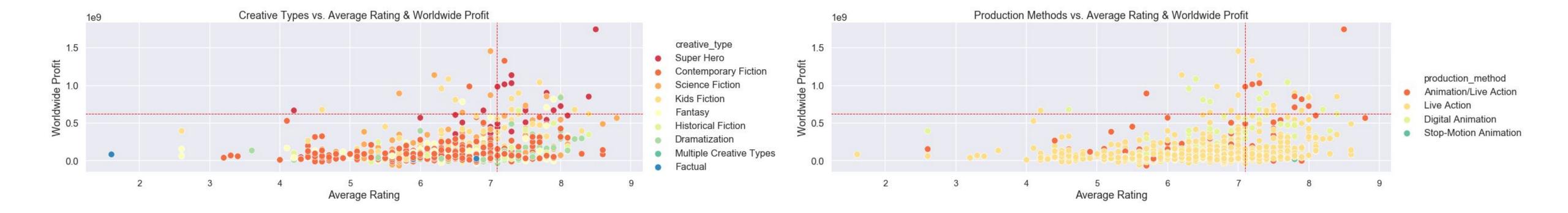


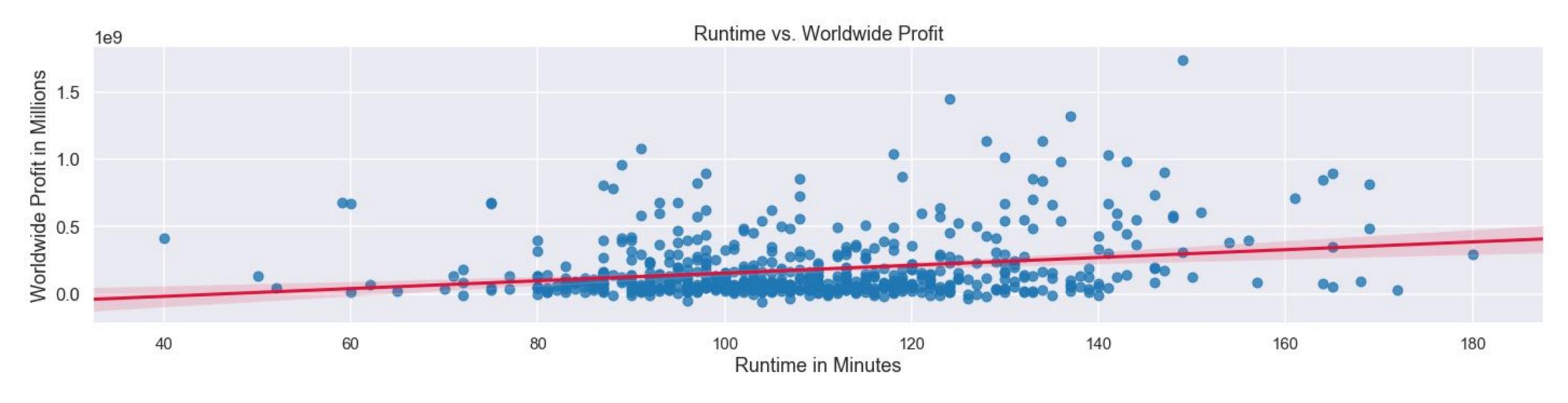


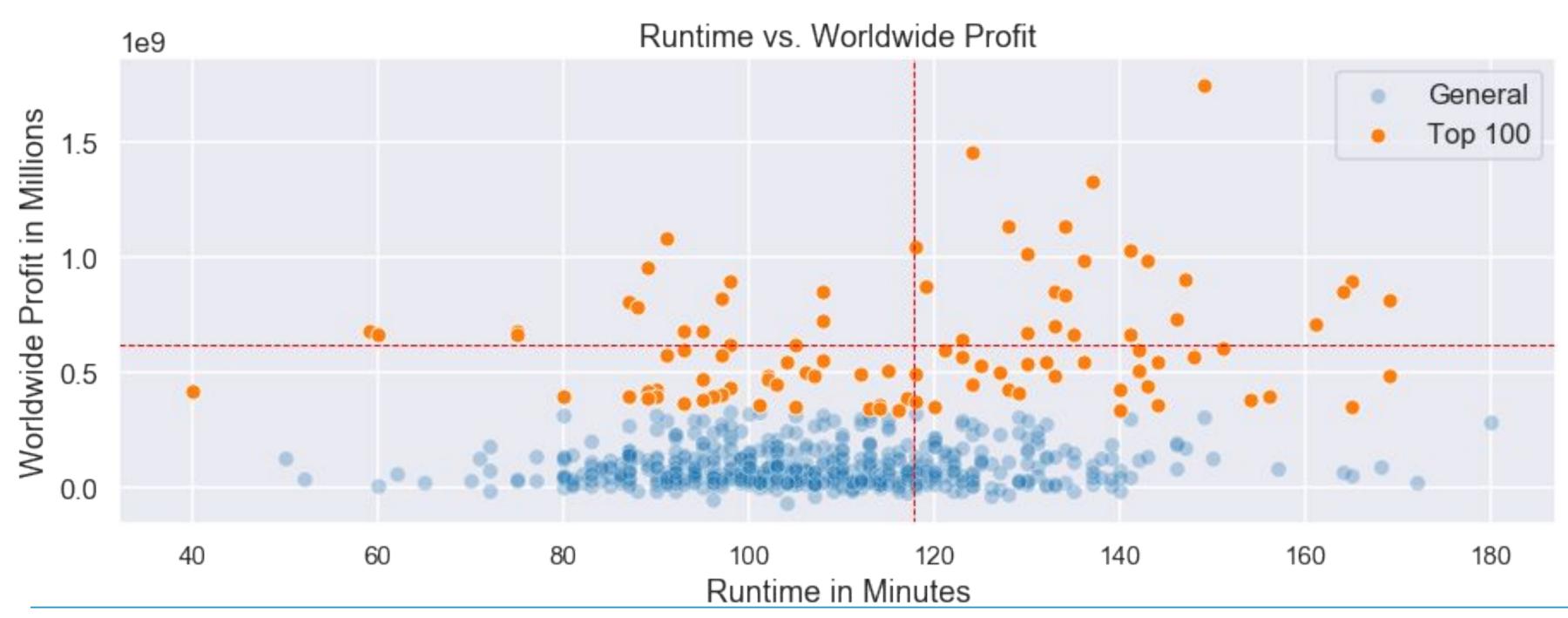




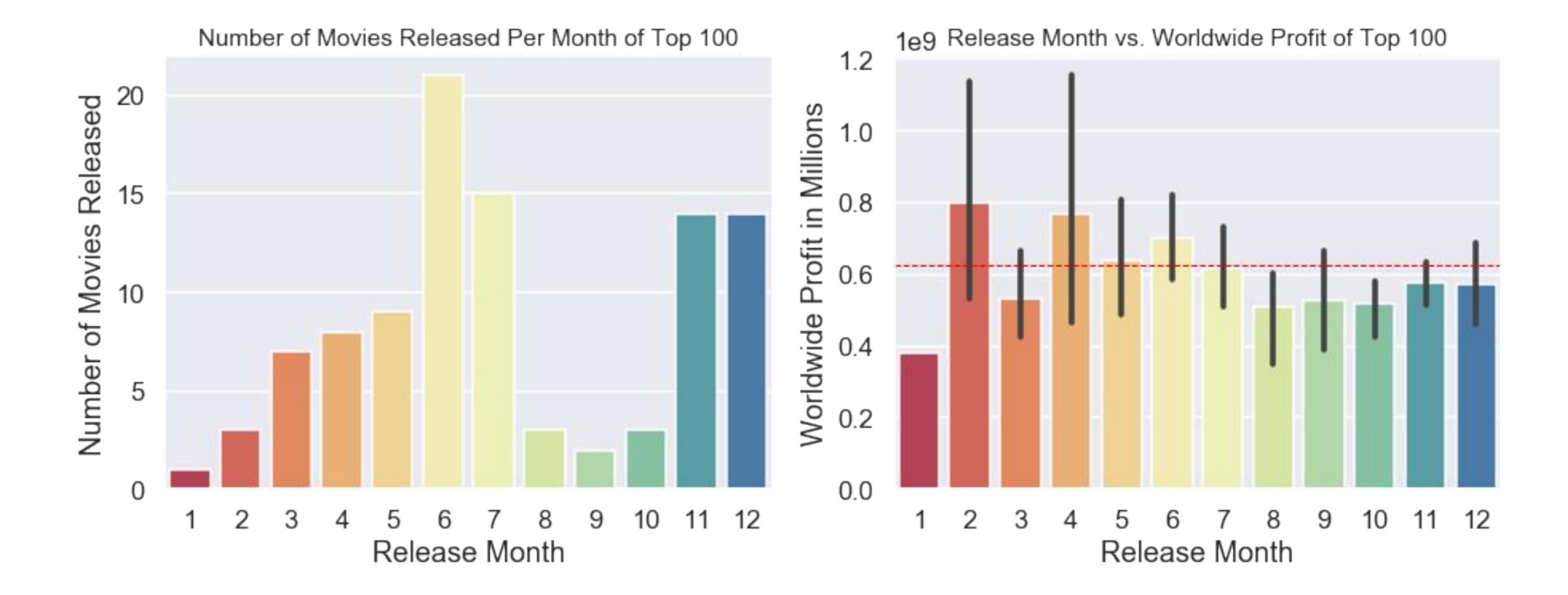




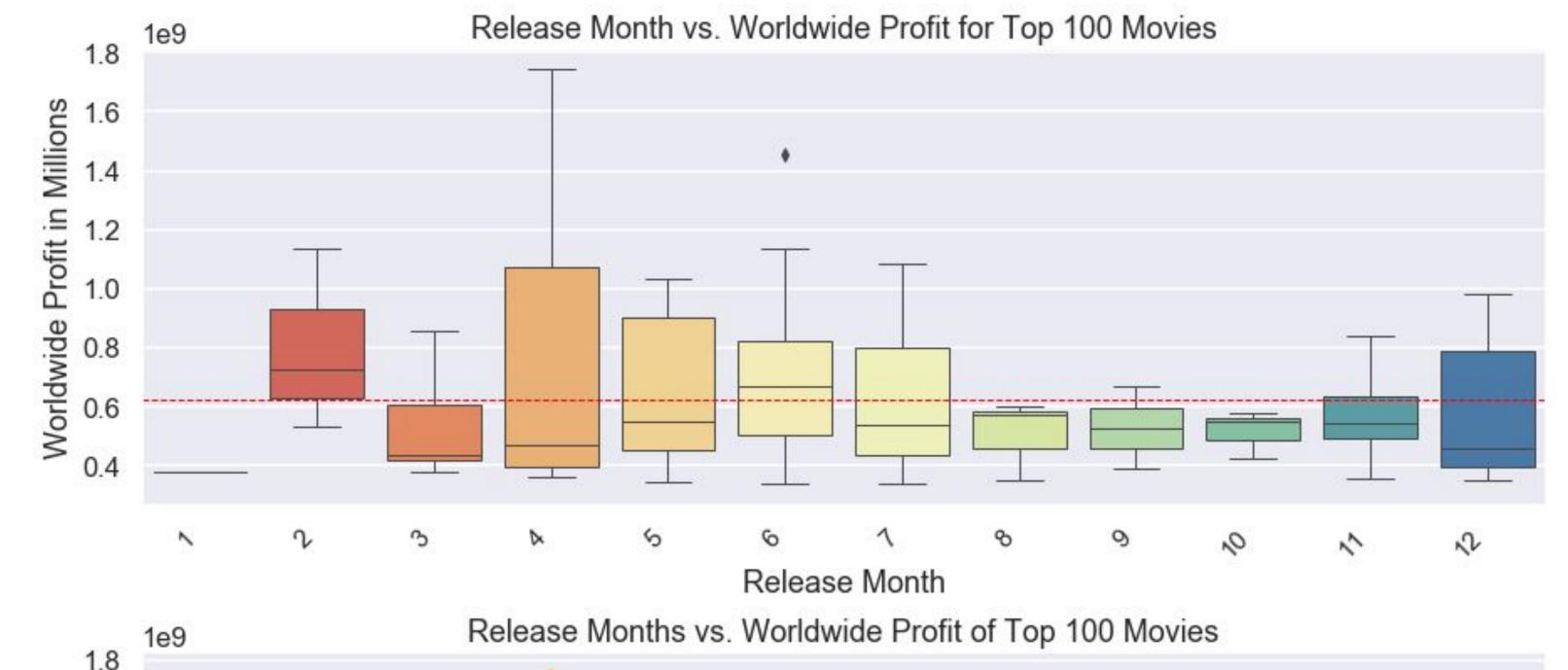


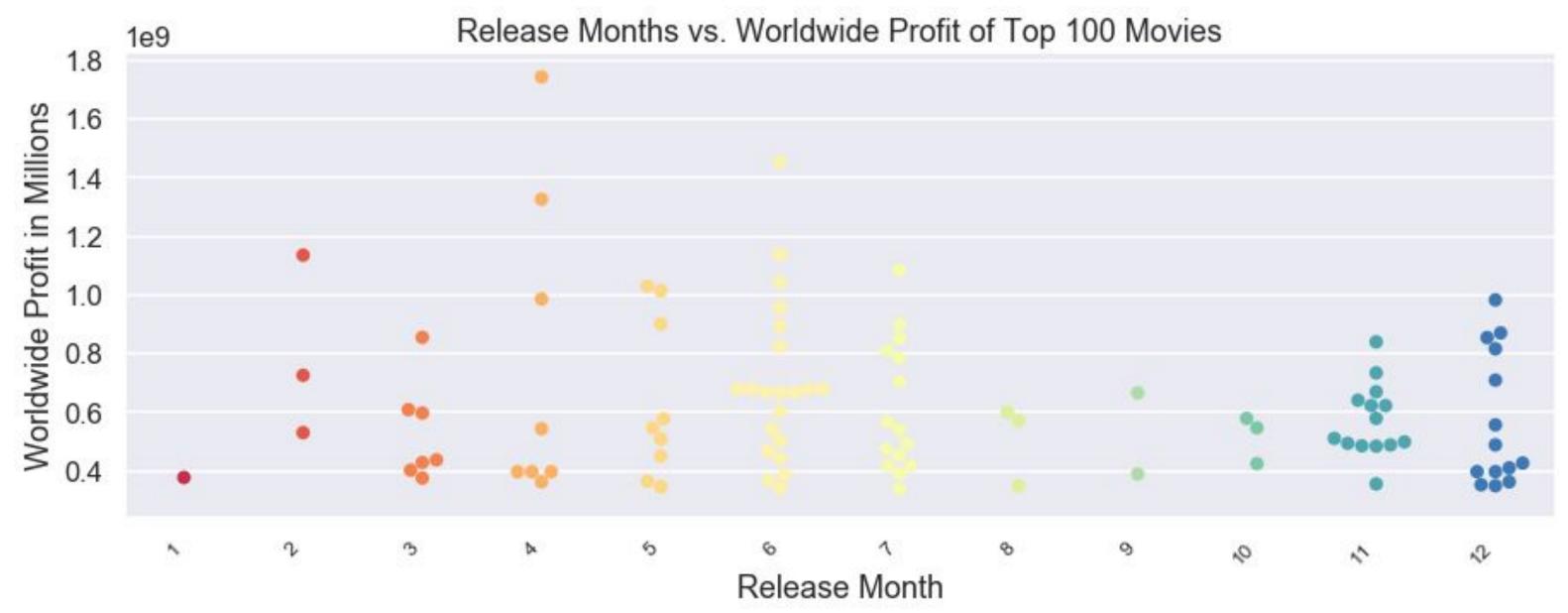




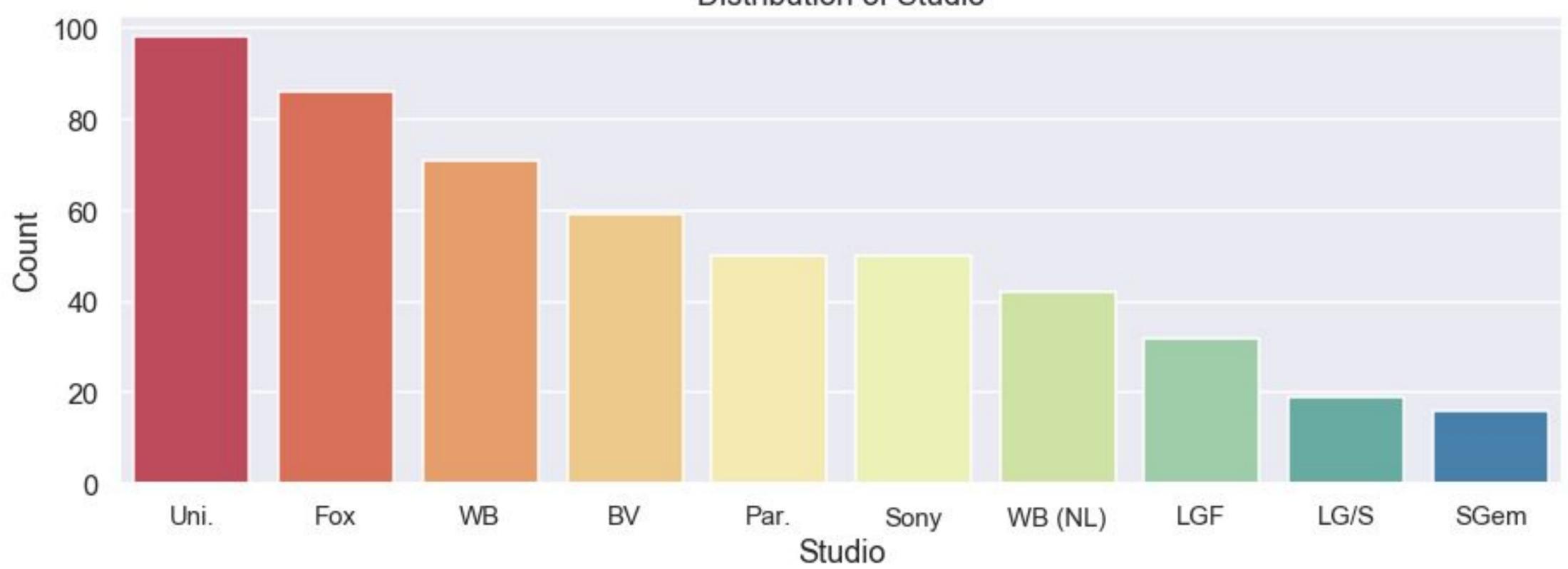


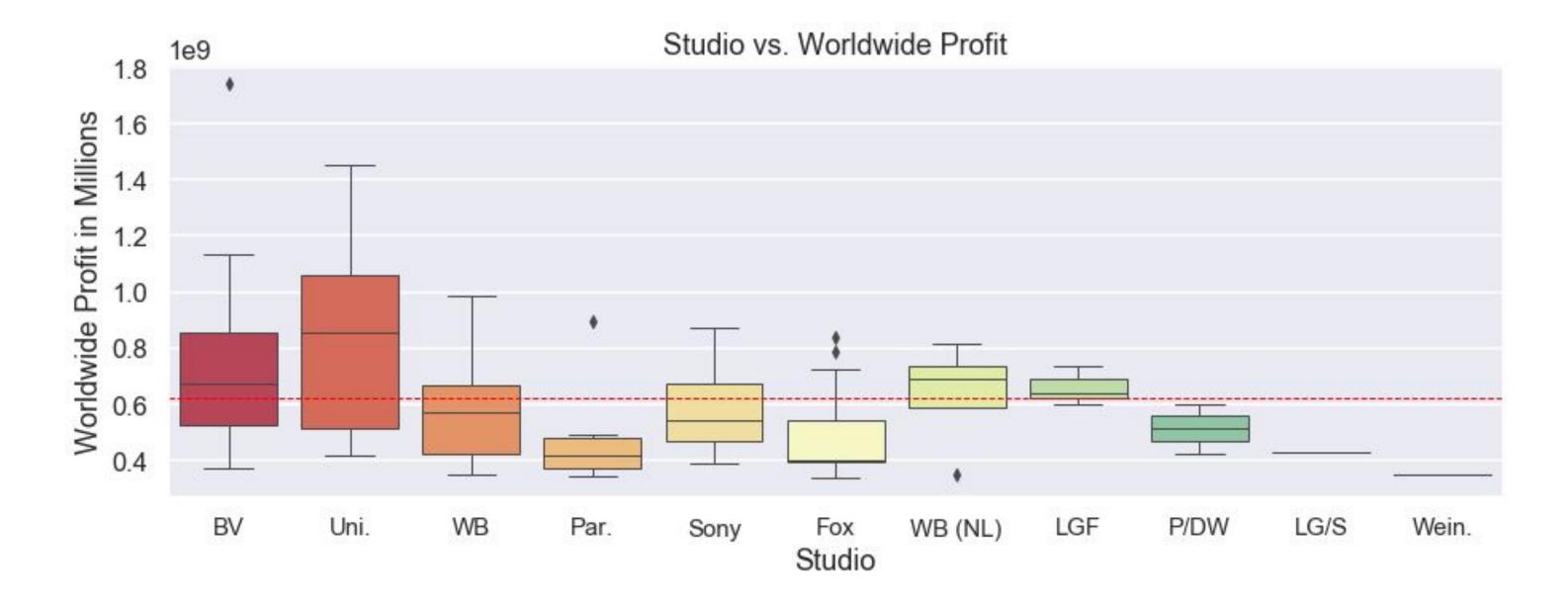
- Most release = June, December
- Most profit = Febuary, April but not by much



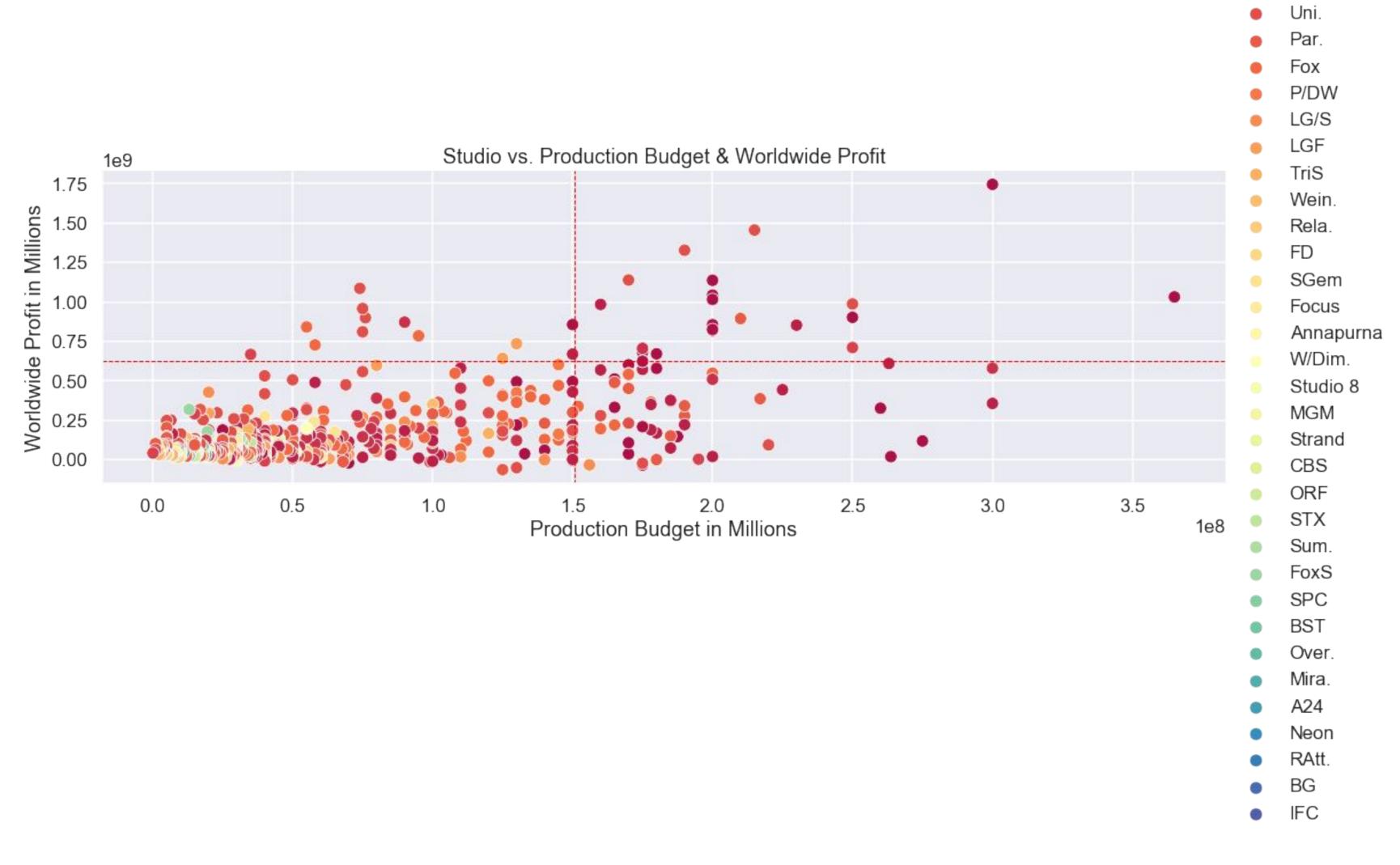


Distribution of Studio









studio

 BV

WB

Sony

WB (NL)