

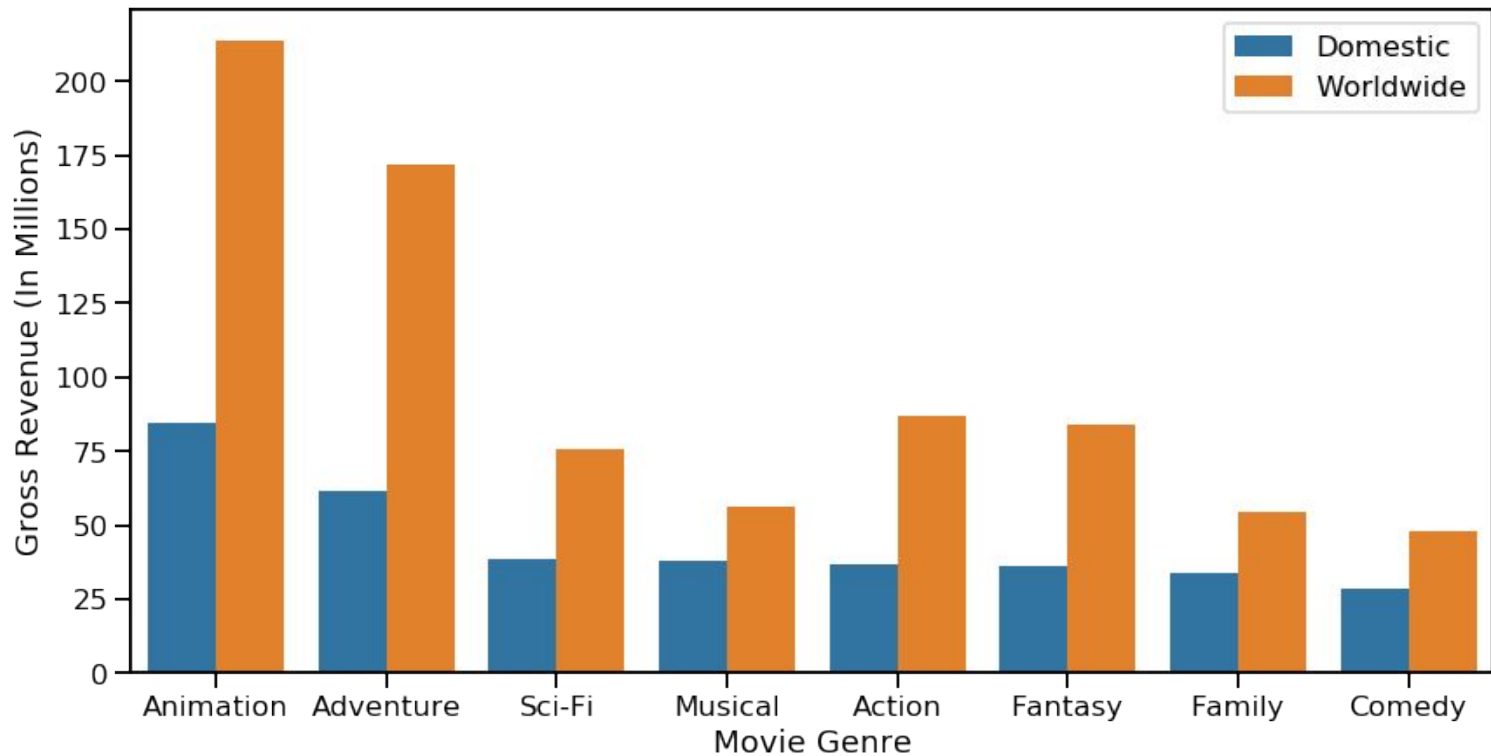


# An Analysis on Movie Creation and the Movie Industry

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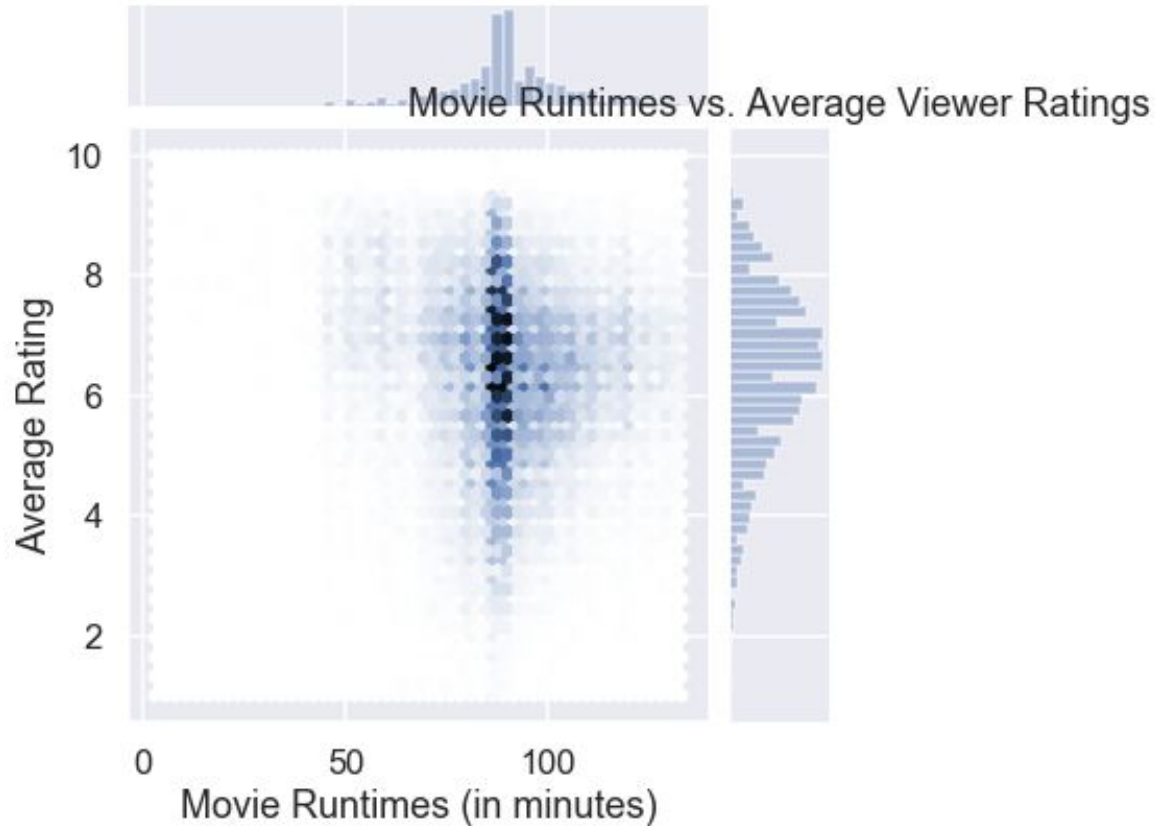
# Top Grossing Genres



# Genre Recommendations

- Animation and Adventure are consistently the highest performing genres, both domestically and worldwide. Microsoft should focus on these genres as they get started.
- Action, Sci-Fi, Musicals, and Fantasy all perform very well-these would be good genres to work on once established.

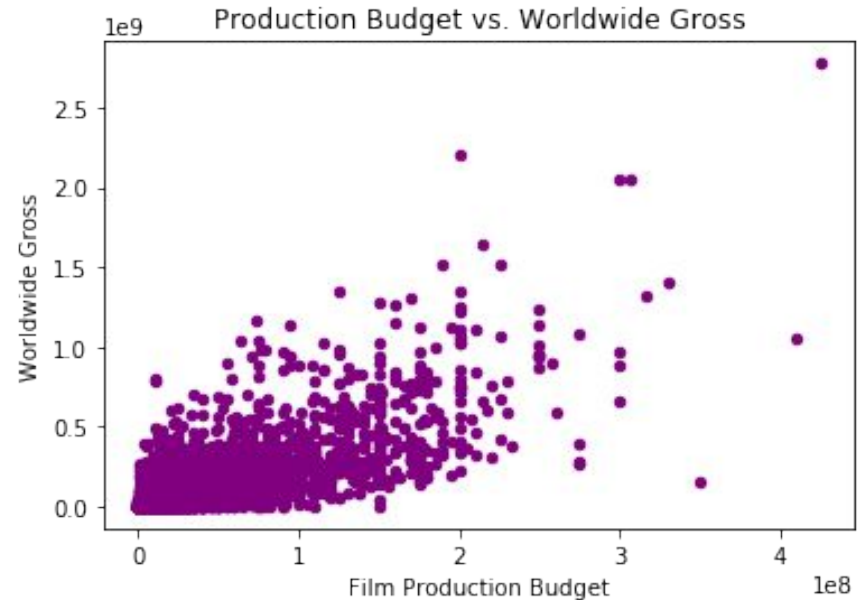
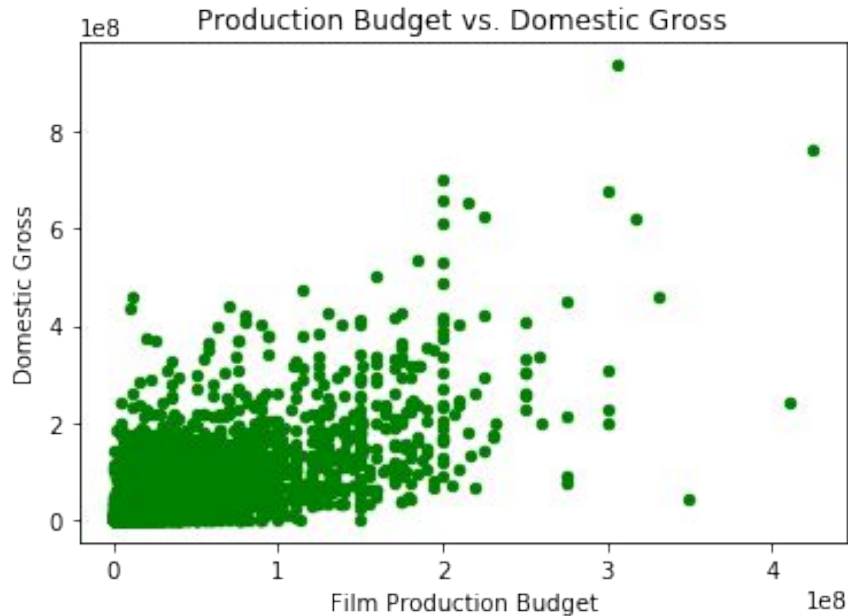
# Movie Runtime Effects on Viewer Ratings



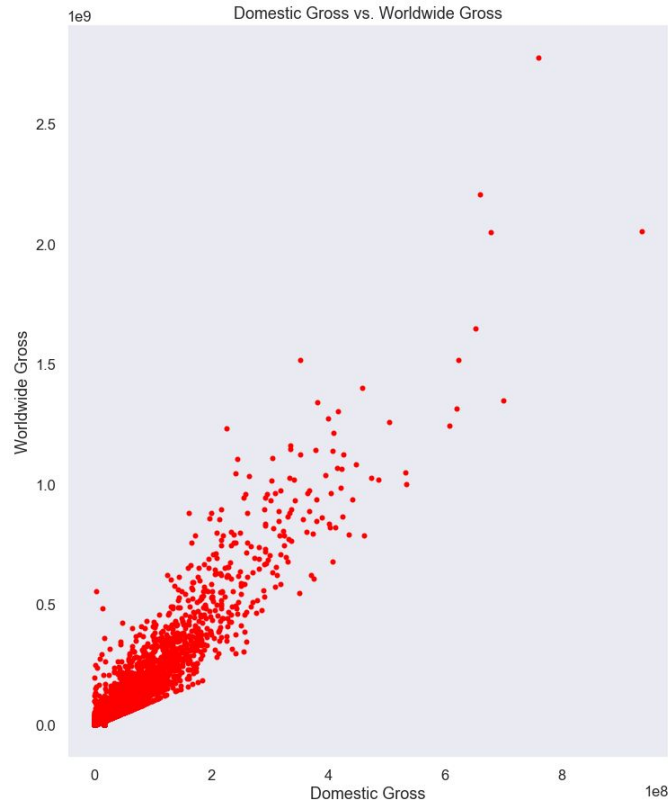
# Movie Runtime Recommendations

- After a Log Transformation  $\text{time} = \log(\text{runtime\_minutes})$  was used to treat outlier data; the Covariance, **Cov**(runtime, averagerating) = -2.02 and Pearson Correlation Coefficient, **r** = -0.082 respectively.
- The values closeness to zero tells us that the effects of movie runtime and viewer ratings are negligible. Thus Viewers do not care about the length of a film.
- Microsoft can make shorts, or full documentaries, and place the focus on quality content and cinematography.

# Production Budget vs. Domestic Gross vs. Worldwide Gross



# Domestic Gross vs. Worldwide Gross



# Do You Really “Pay for Quality”?

- Covariance (**Cov**) & Pearson Correlation Coefficient (**r**)

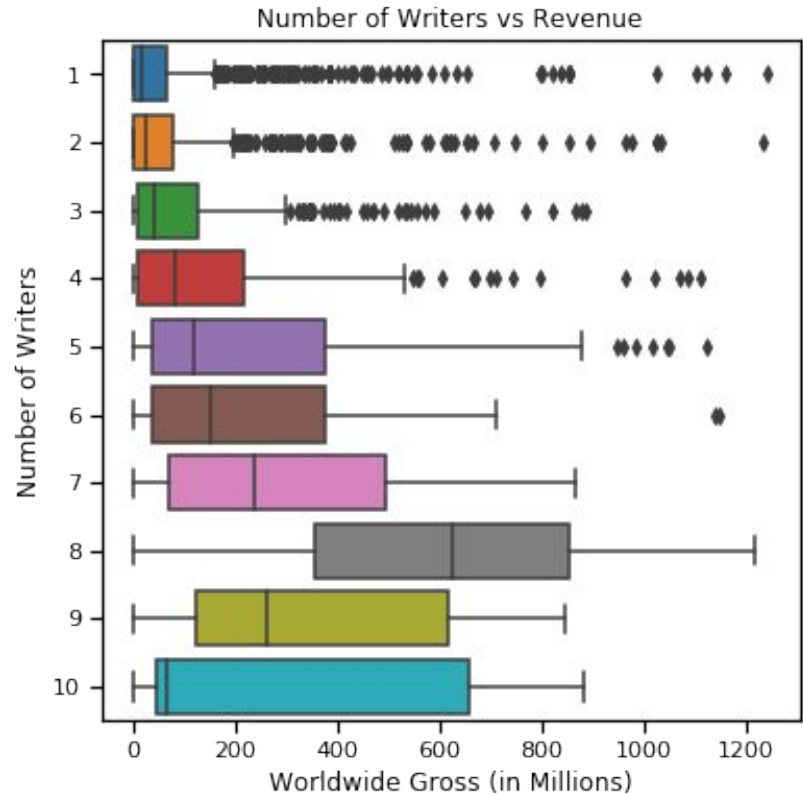
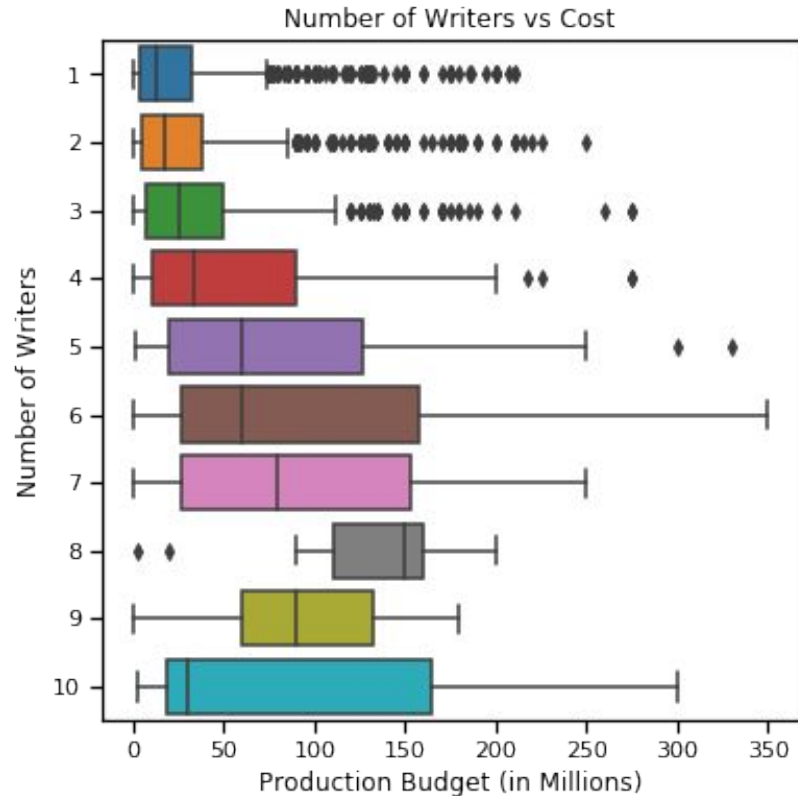
- Production Budget vs. Domestic Gross:  
**1.95e15 | 0.685**
- Production Budget vs. Worldwide Gross:  
**5.46e15 | 0.748**
- Domestic Gross vs. Worldwide Gross:  
**1.11e16 | 0.938**

- Insights & Recommendations

- The increase in **r** in Production Budget vs. Domestic Gross & Production Budget vs. Worldwide Gross tell us that international audiences care more about things such as “big name” actors and actresses, production quality, etc.
- If a film is successful domestically, the film will also do well abroad with international audiences and vice versa.
- When a film does poorly domestically, then failure abroad can be expected, and international release should be reconsidered.



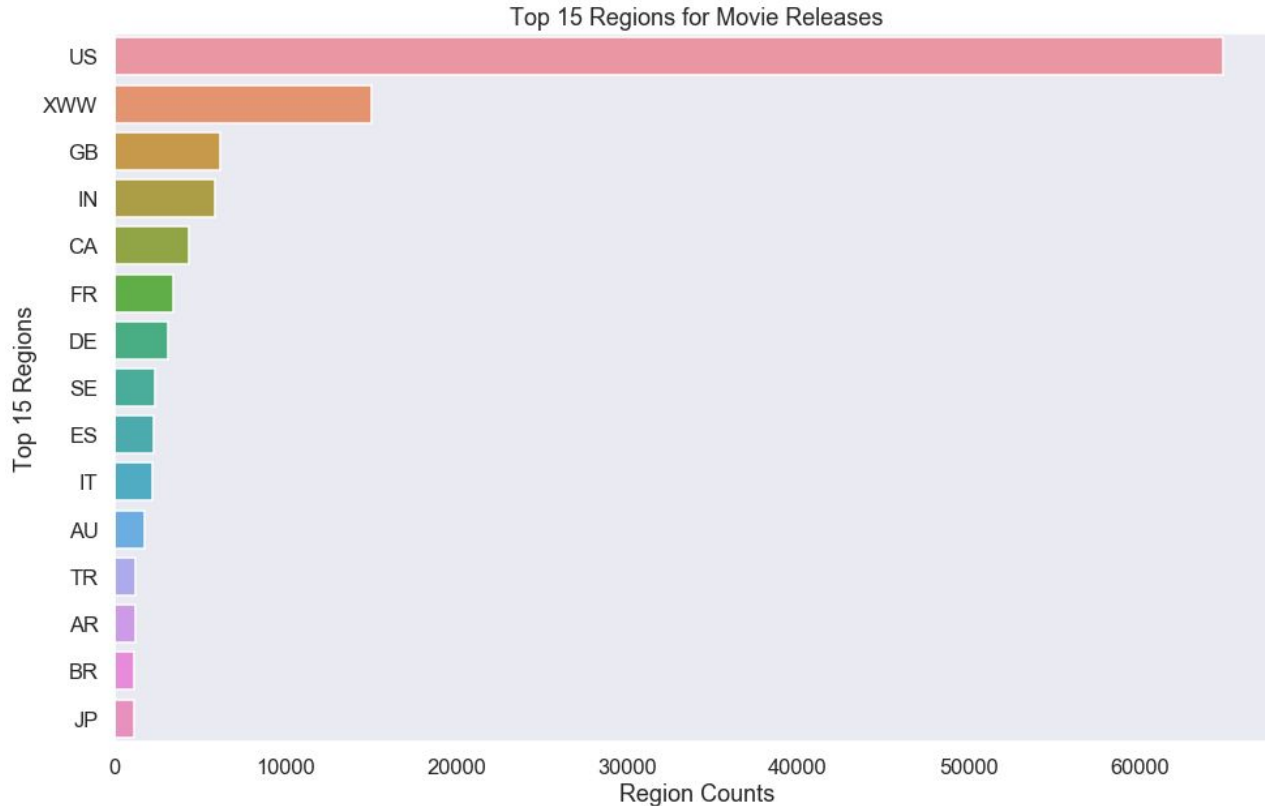
# Number of Writers Effects on Cost and Revenue



# Writer Recommendations

- Adding more writers to a project will increase gross revenue, but it will have even more of an impact on the required budget.
- Ambitious projects will benefit from more writers, but overall it should not be a primary concern.
- Might be more correlation than causation-see previous correlation between budget and revenue.

# Top 15 Regions for Movie Releases



# Movie Region Recommendations

- Why reinvent the wheel? If Microsoft follows the blueprint, release patterns, and promo of existing major studios, then they will see similar success.
- Alternatively if Microsoft were looking to render their potential movie studio competitors irrelevant, they should avoid these top target countries, and focus on serving smaller, niche markets.

# Final Thoughts

- Start in action and adventure genres, these are safe bets
- Generally, you get what you pay for, so increasing the budget as is feasible is worthwhile
- Hiring more writers or obsessing over runtime are both unlikely to have a major impact on results