Project: Visualizing Movie Data

Data Cleanup and Attribute Selection

- Attributes to be explored further in this project are:
  genre, popularity, release year, production company, budget, revenue.

- All null data were removed to keep data clear and uncluttered. Revenue and popularity are the most important measures in this visualization. They have a lot to represent about movies, their genres, and production companies.

Tableau Visualizations

Public Profile: https://public.tableau.com/profile/walaa4489#!/
Q1visualization:
https://public.tableau.com/profile/walaa4489#!/vizhome/VisualizeMovieData_14/Q1MovieGenresOverTime
Q2 visualization:
https://public.tableau.com/profile/walaa4489#!/vizhome/VisualizeMovieData_14/Q2UniversalPicturesVsParamountPictures
Q3 visualization:
https://public.tableau.com/profile/walaa4489#!/vizhome/VisualizeMovieData_14/Q3MoviesBasedonNovelsVsmoviesnotBasedonNovels
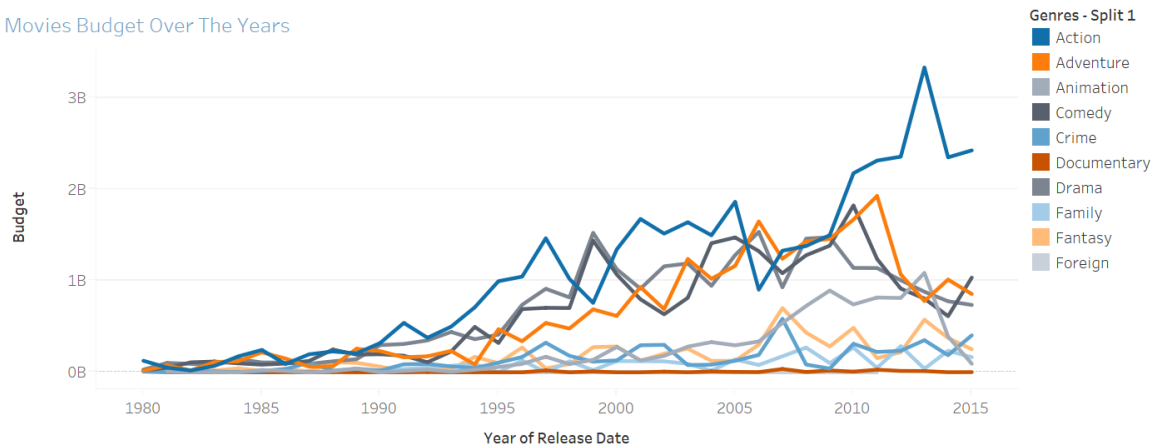**Q4 visualization:**
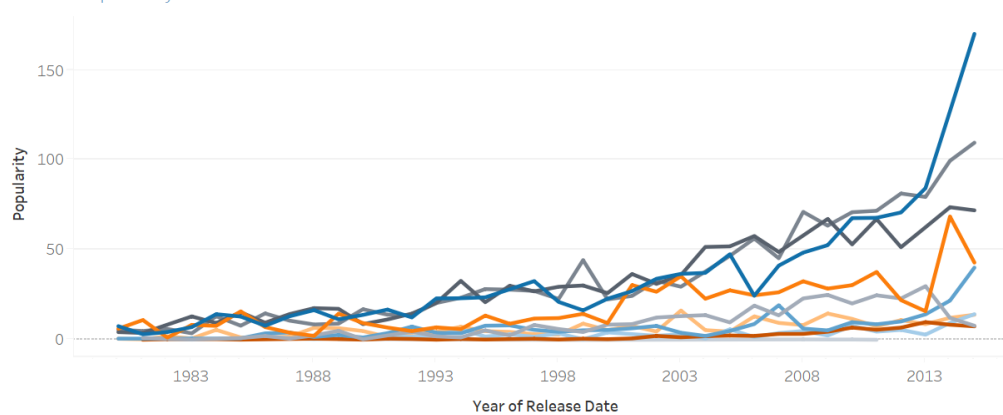https://public.tableau.com/profile/walaa4489#!/vizhome/VisualizeMovieData_14/Q4StoryRevenueDetails

Question 1: How have movie genres changed over time?

Q1: Movie Genres Over Time

Movies Budget Over The Years
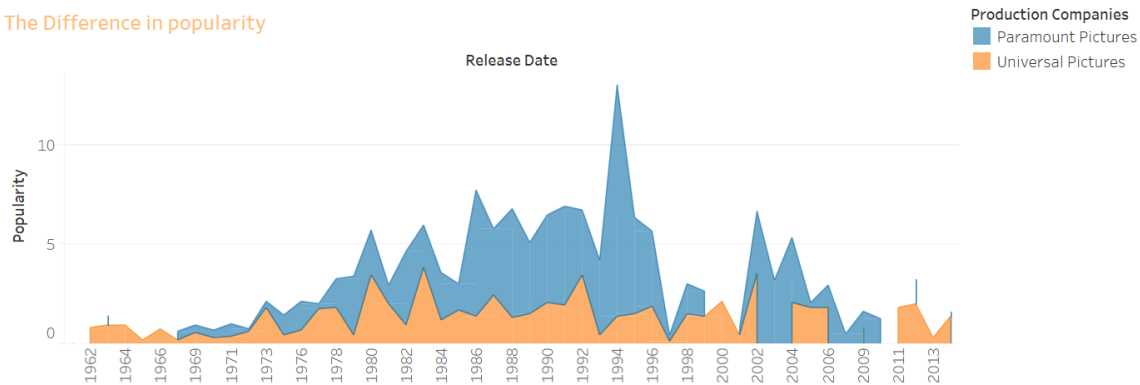

Movies Popularity Over The Years

Over time, movie numbers change significantly. Rise and fall by genre, it is clear that action movies are the highest genre that are allocated high budgets for their production. It is also the highest in popularity. Then come adventure movies, animation, comedy and so on
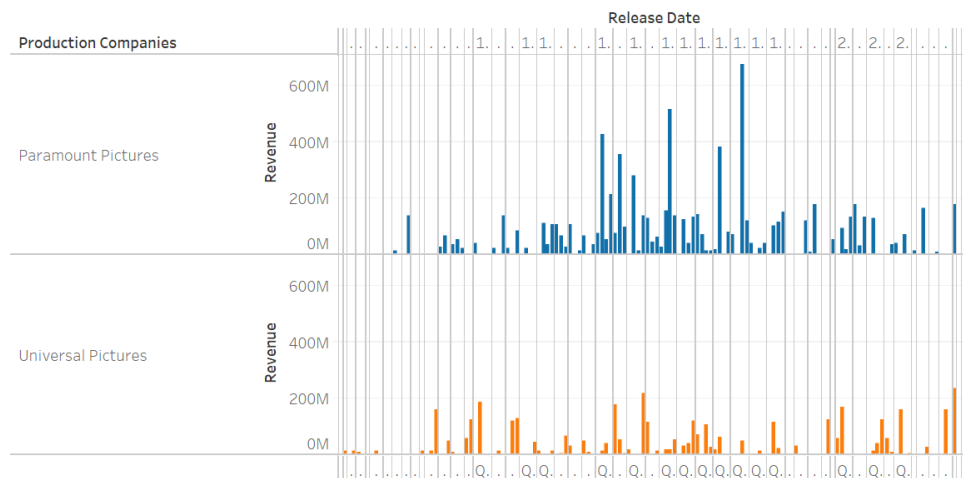
Question 2: How do the attributes differ between Universal Pictures and Paramount Pictures?

Q2: Universal Pictures Vs Paramount Pictures

The Difference in popularity

Production Companies
- Paramount Pictures
- Universal Pictures
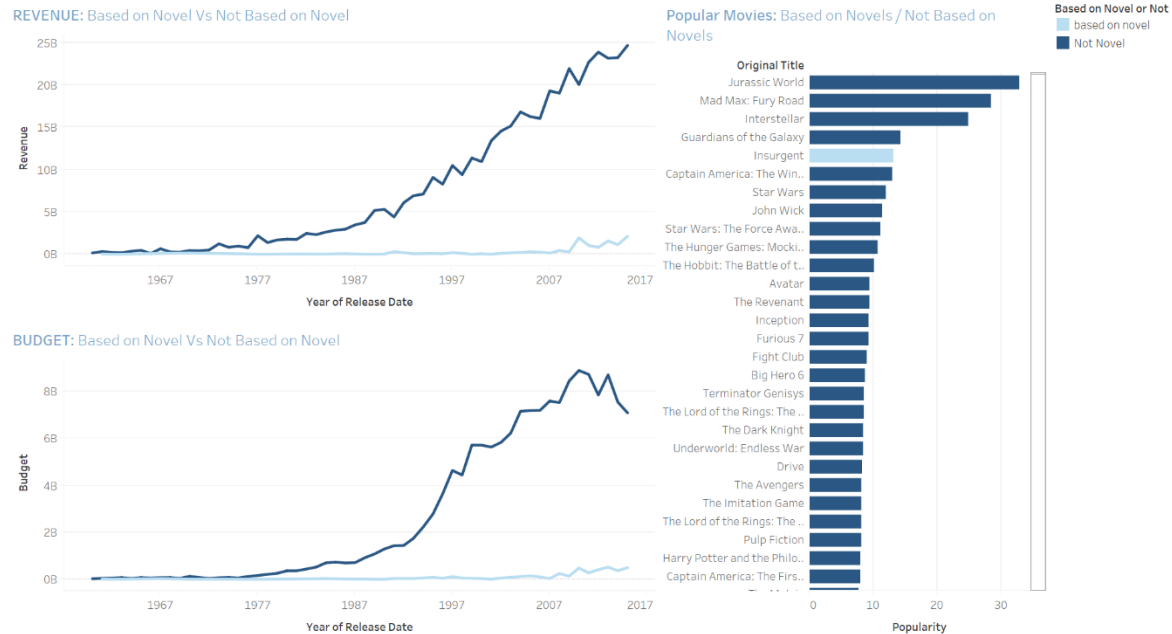

Revenue For Each Company

In general, Paramount Pictures has popularity more than Universal Pictures. In 1998, Universal Pictures began exceeding Paramount Pictures in terms of popularity. That year, represents a Superiority of Universal Pictures.

On the revenue side, Paramount Pictures revenue is clearly on the rise, with a difference exceeding Universal Pictures with more than $4 billion.

Question 3: How have movies based on novels performed relative to movies not based on novels?

Q3:Movies Based on Novels Vs movies not Based on Novels

When comparing movies based on novels and Movies not based on novels on both: revenue, budget and popularity. Movies not based on novels outperformed in all comparison criteria. They are more popular and have higher budgets, and earn higher revenue.

I think this comparison does not reflect fair when we look at the number of movies produced per type because the movies based on novels are 126 movies compared to 10,740 movies are not based on a novel

Question 4: What are the details of revenue per movie, and per production company? Is this revenue means the popularity?
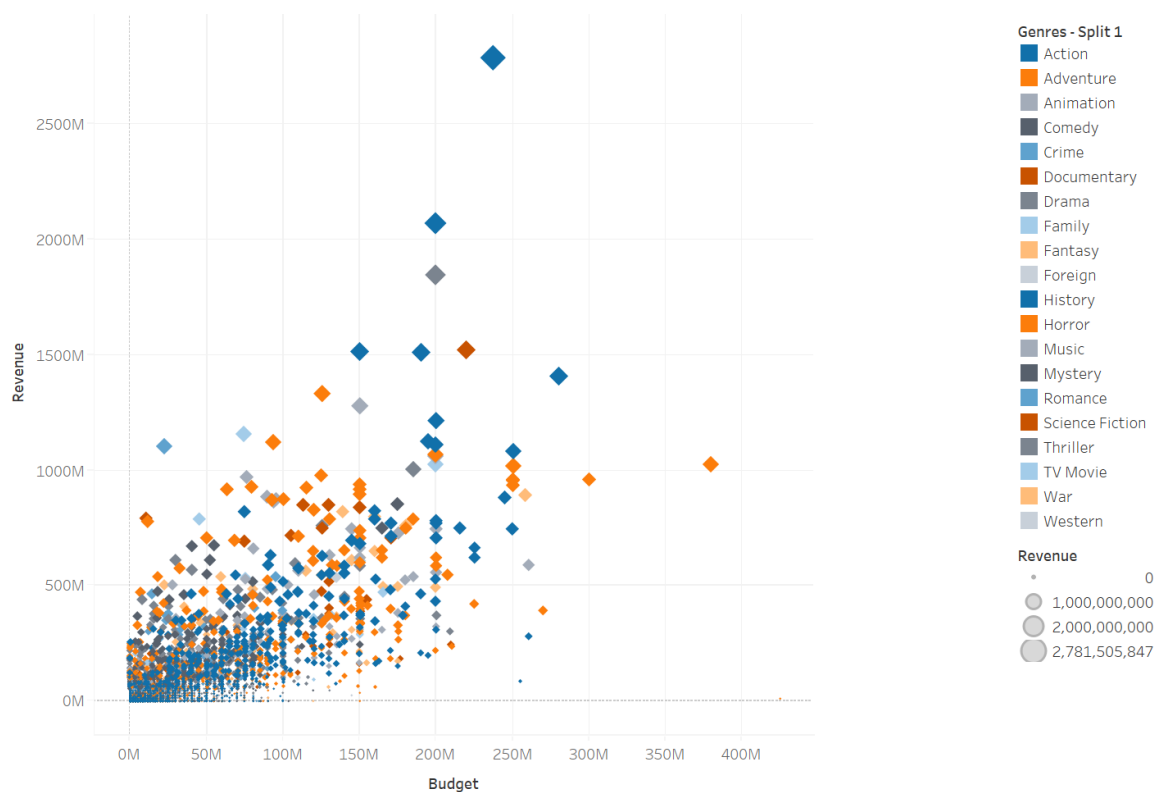
Point 1:

Q4:Revenue Details

The relationship between Budget and Revenue for each movie could related positively. So that revenue increases if the budget allocated for a movie increases, but there are many movies do not make any profit then lose this budget.

The large number of production companies, raises the question about the volume of revenue generated by each company? And which companies are at the forefront in terms of revenue? Paramount Picture at top one, with more than $8B.

Based on previous revenue details, does the size of revenue earning reflect the company's popularity? Not necessarily, Universal Pictures is in eighth place in terms of revenue, but its popularity surpassed the companies that have achieved higher revenues.

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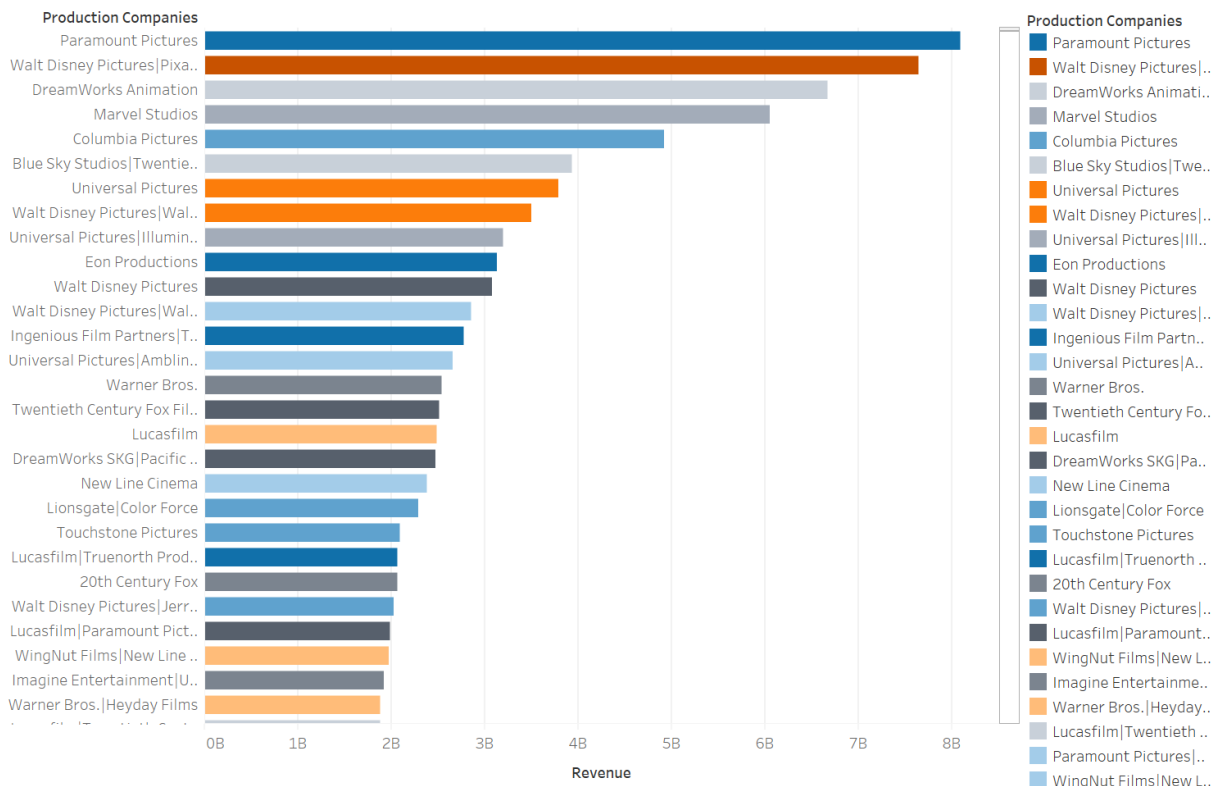
Point 2:

Q4: Revenue Details

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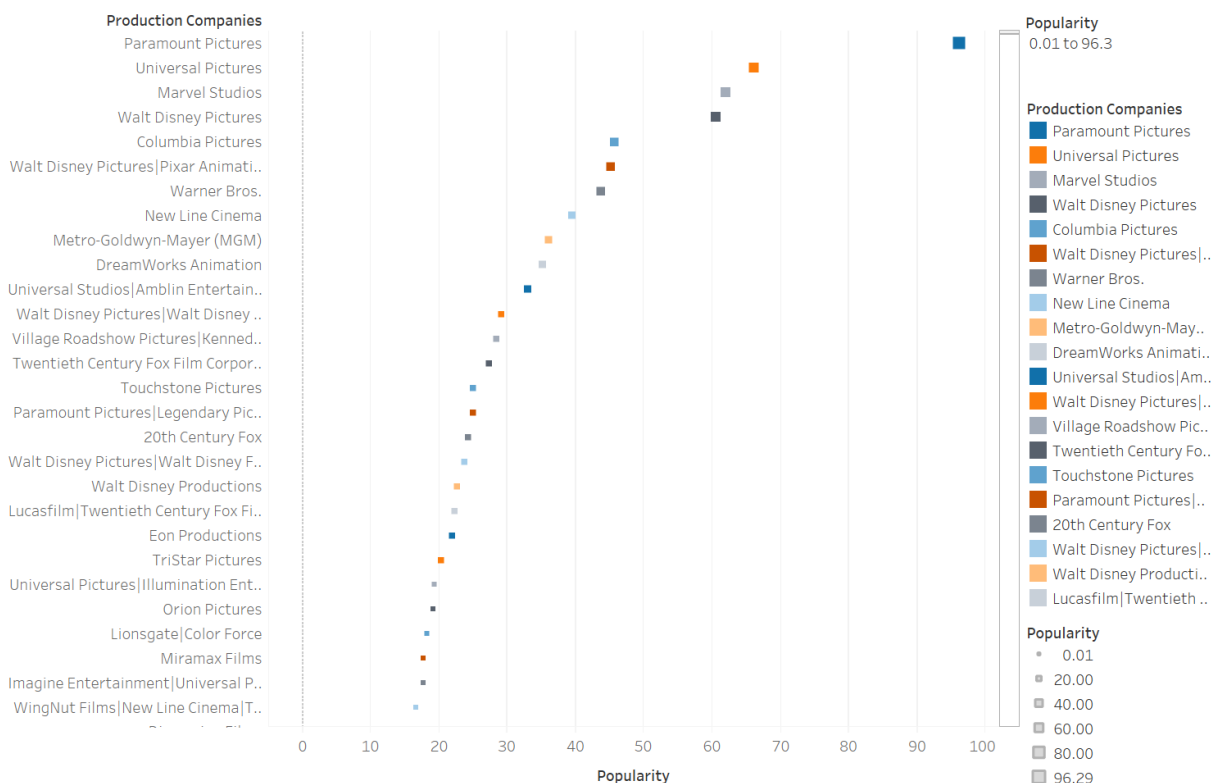
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