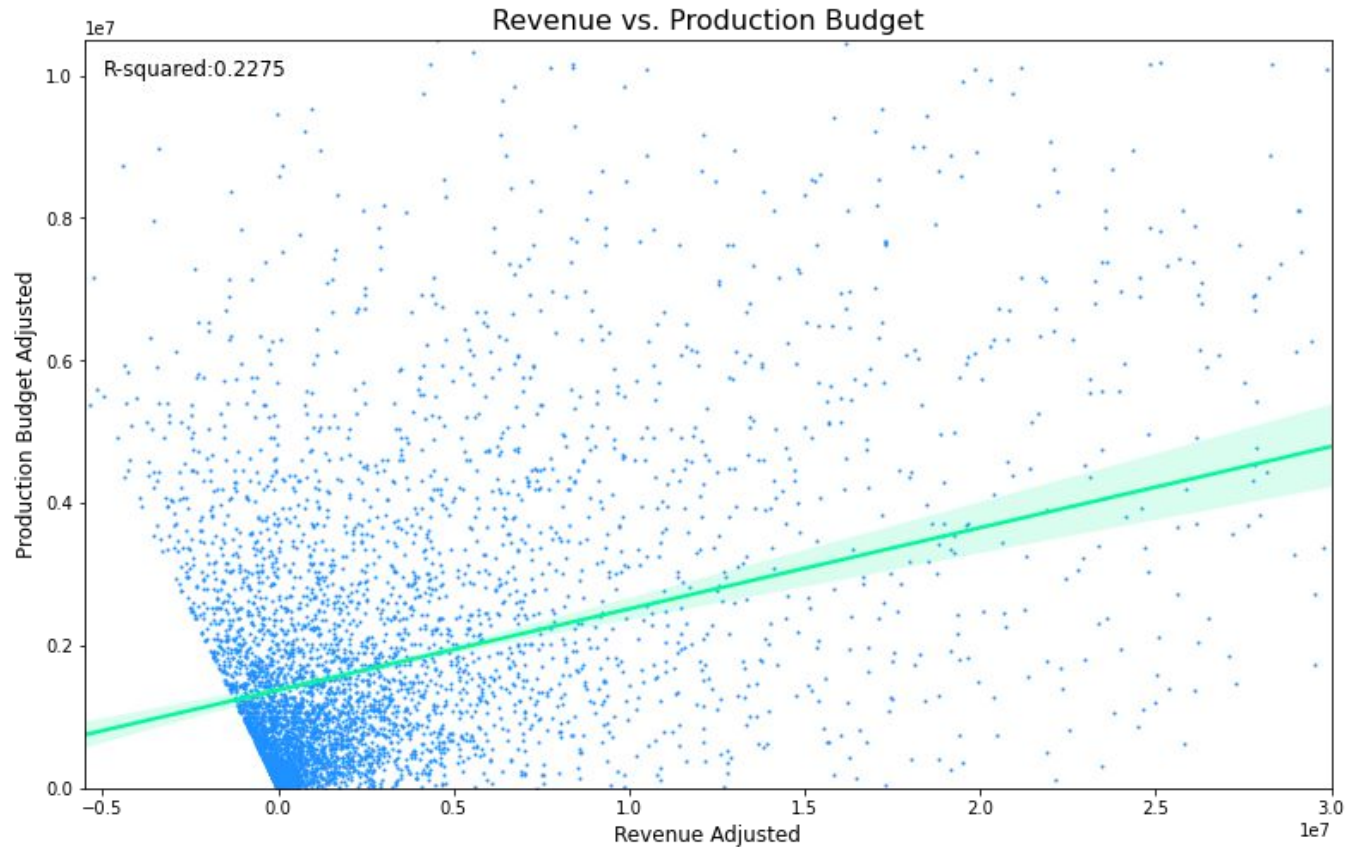


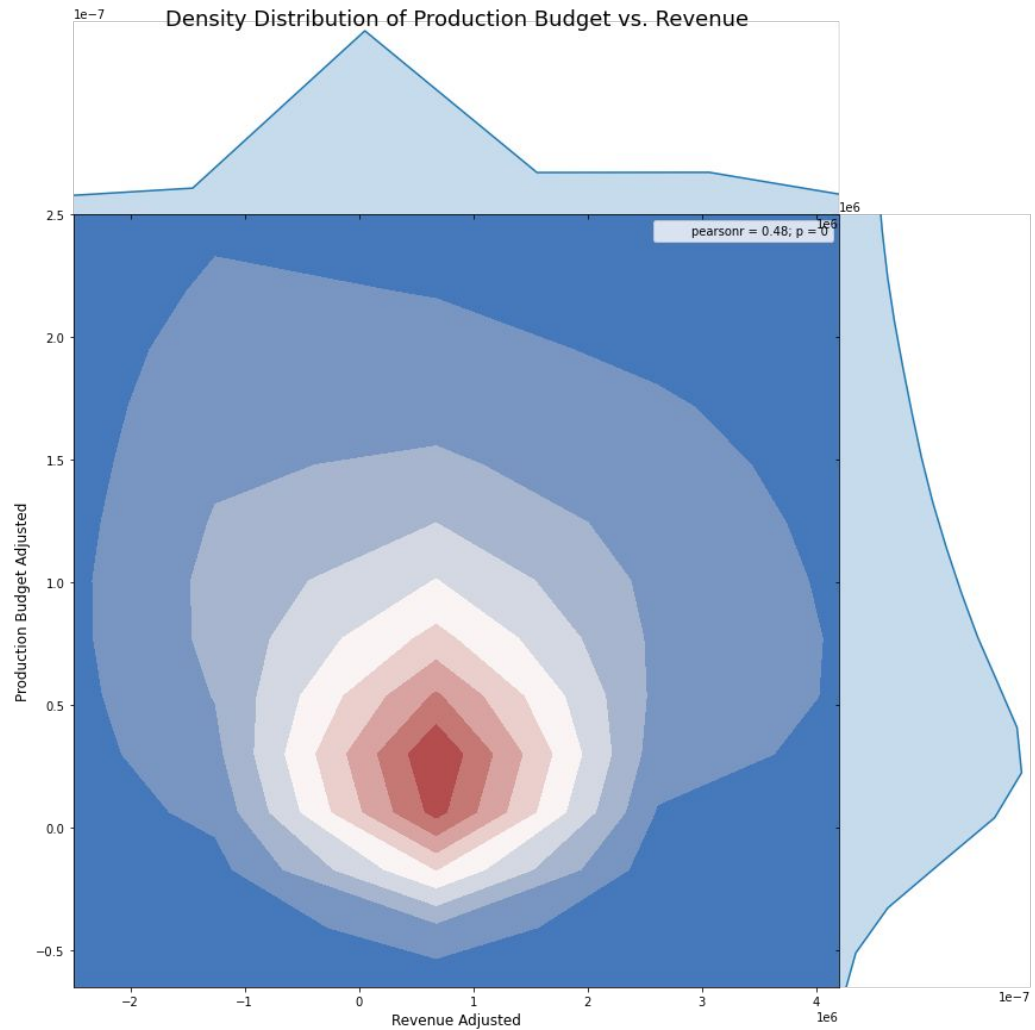
# In-Depth Movie Examination

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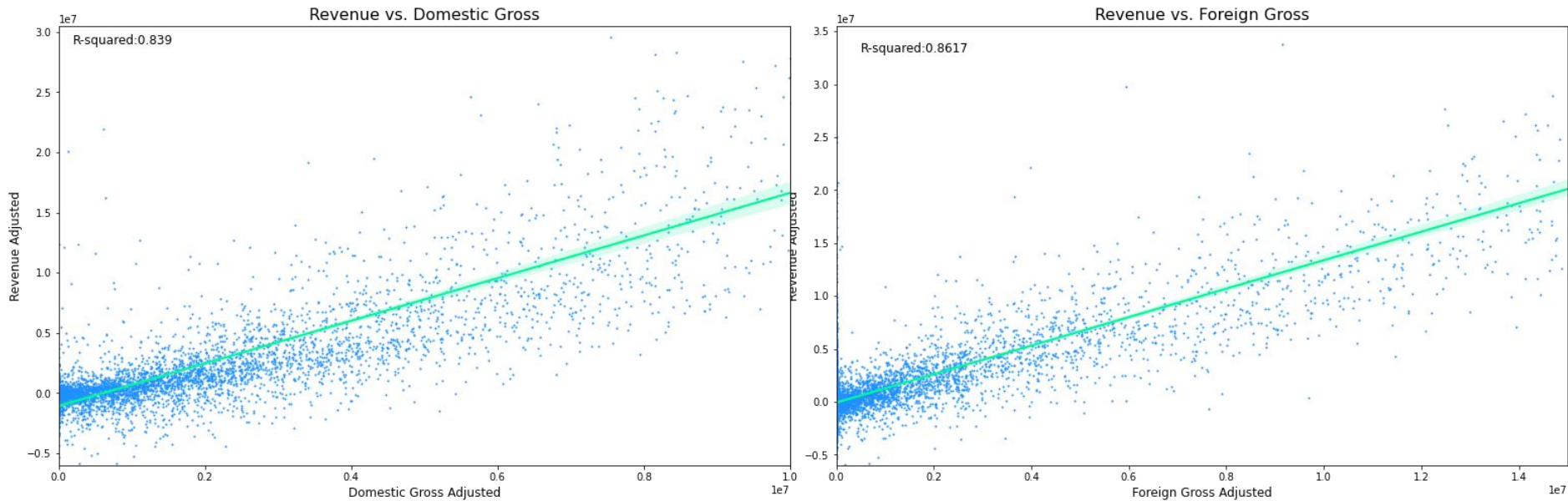
By: Nick Kolowich

Question 1 : Is there a correlation between the revenue of a movie and its budget?

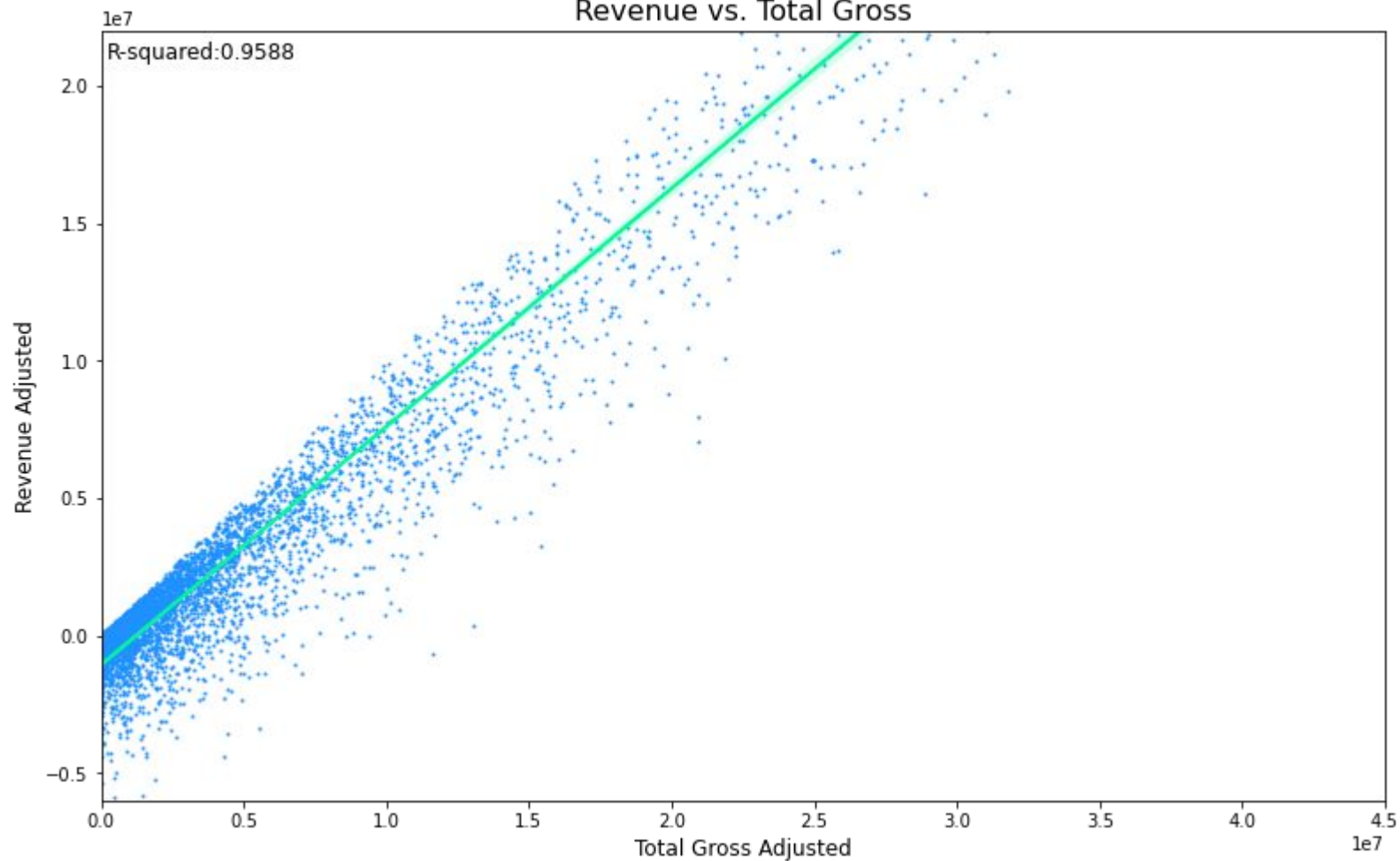


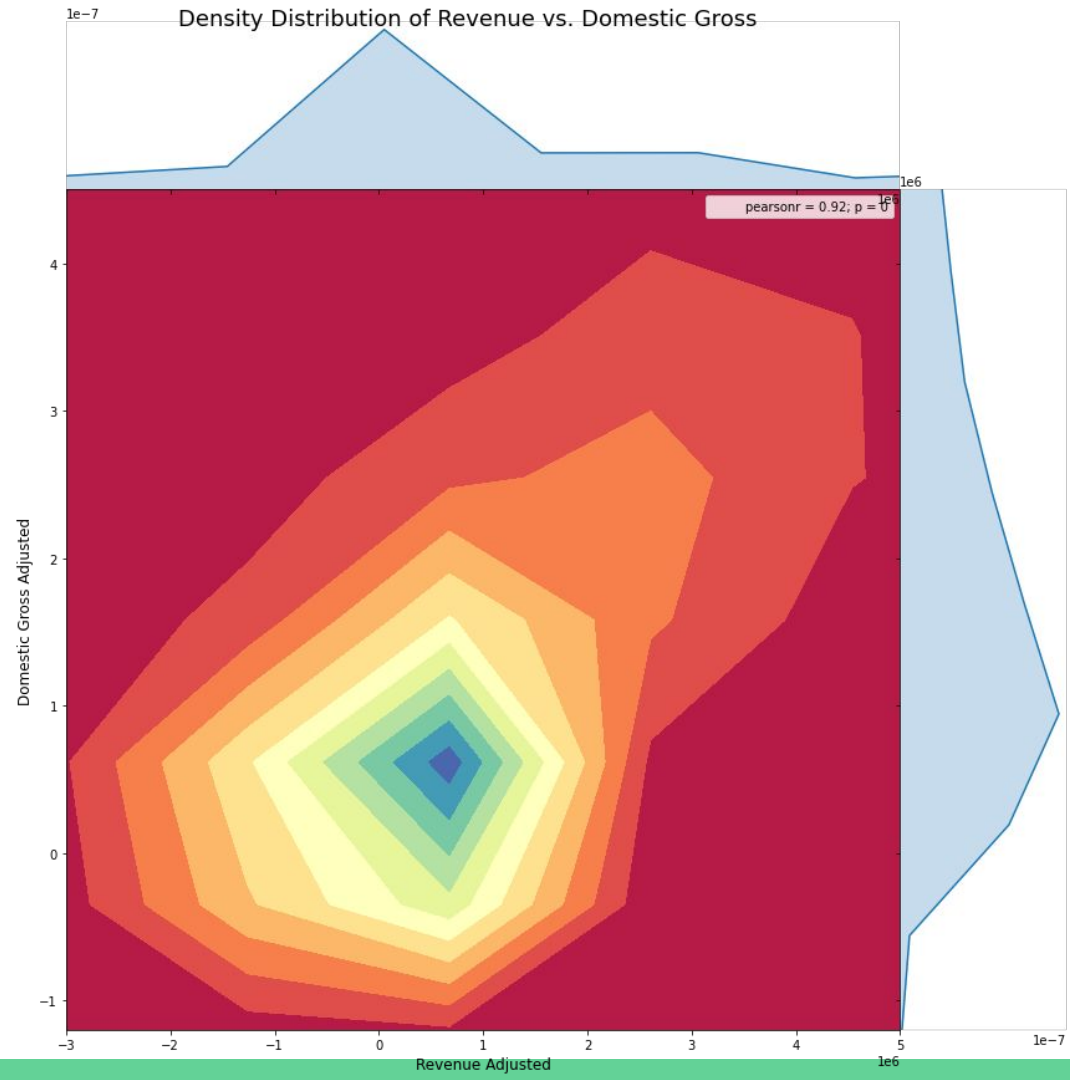


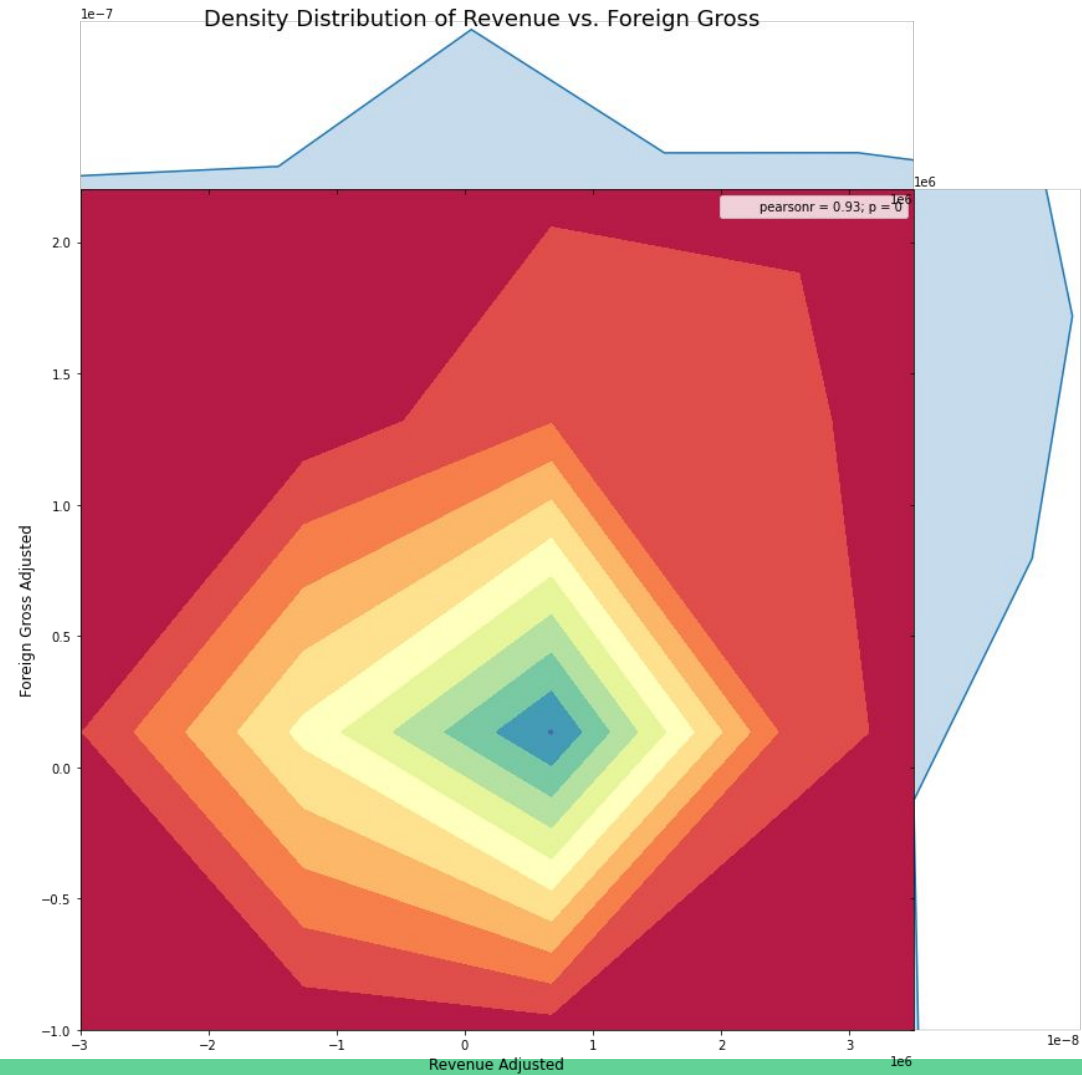
## Question 2 : Do movies generate more revenue domestically or abroad?



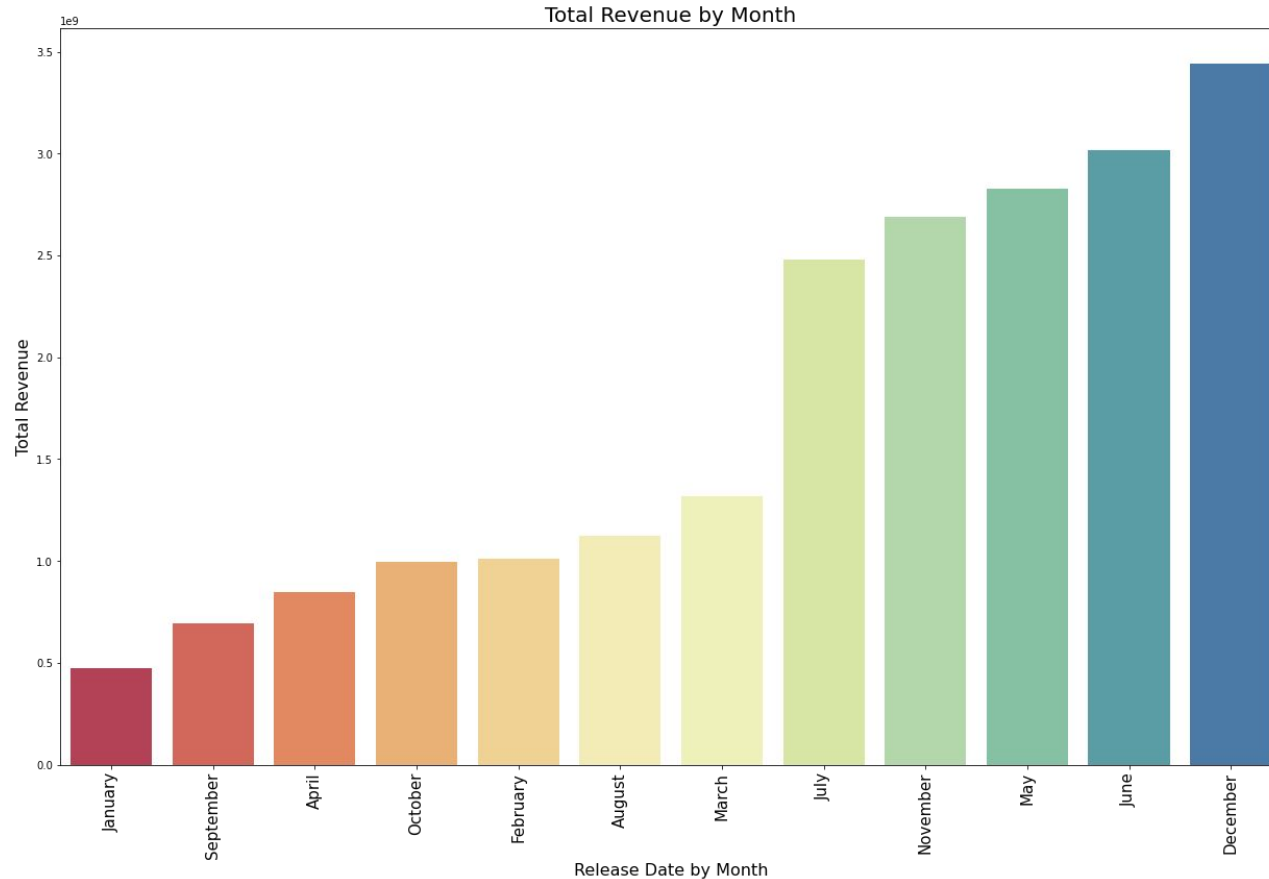
Revenue vs. Total Gross







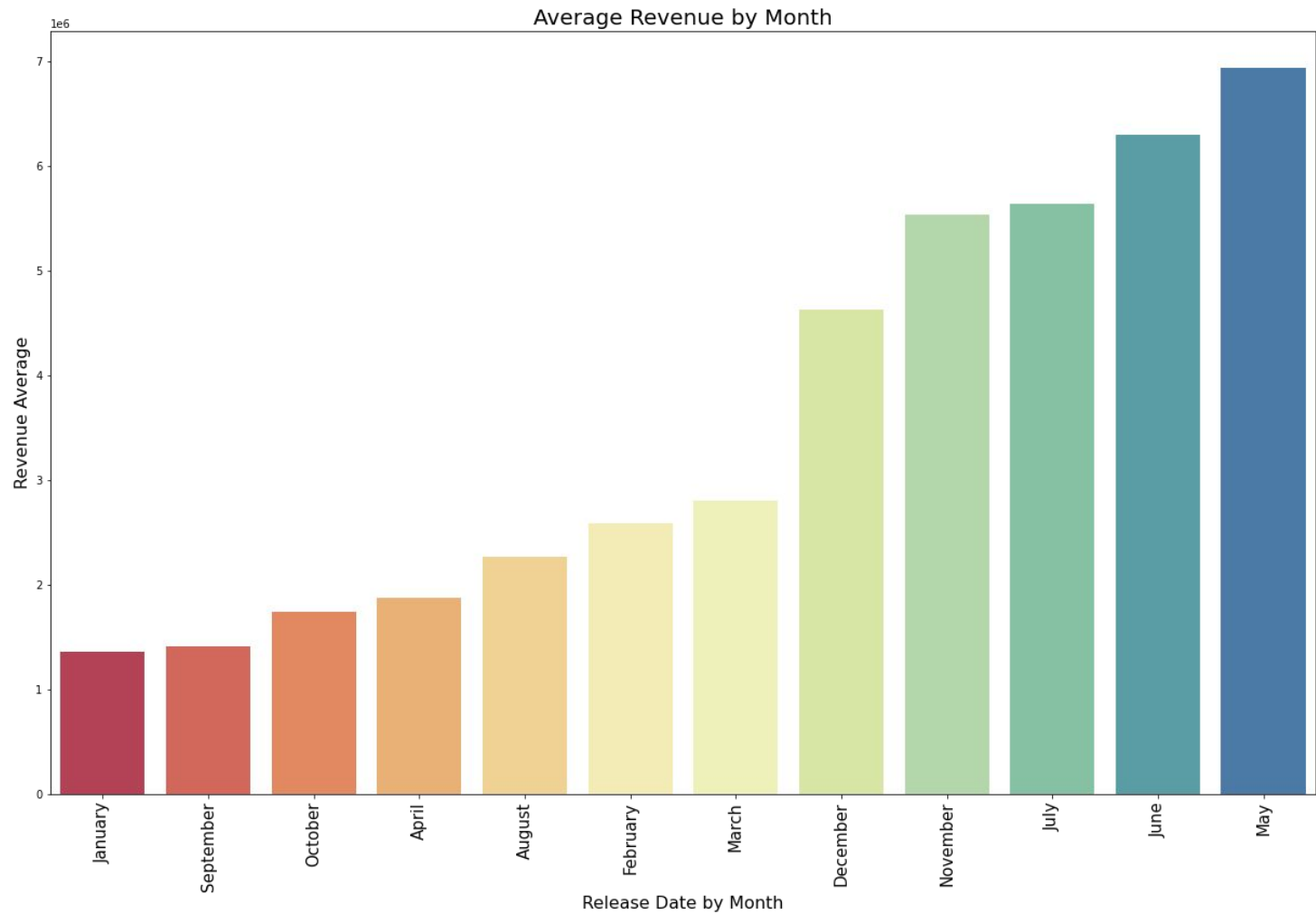
# Question 3 : Does the release month of a movie affect its revenue?



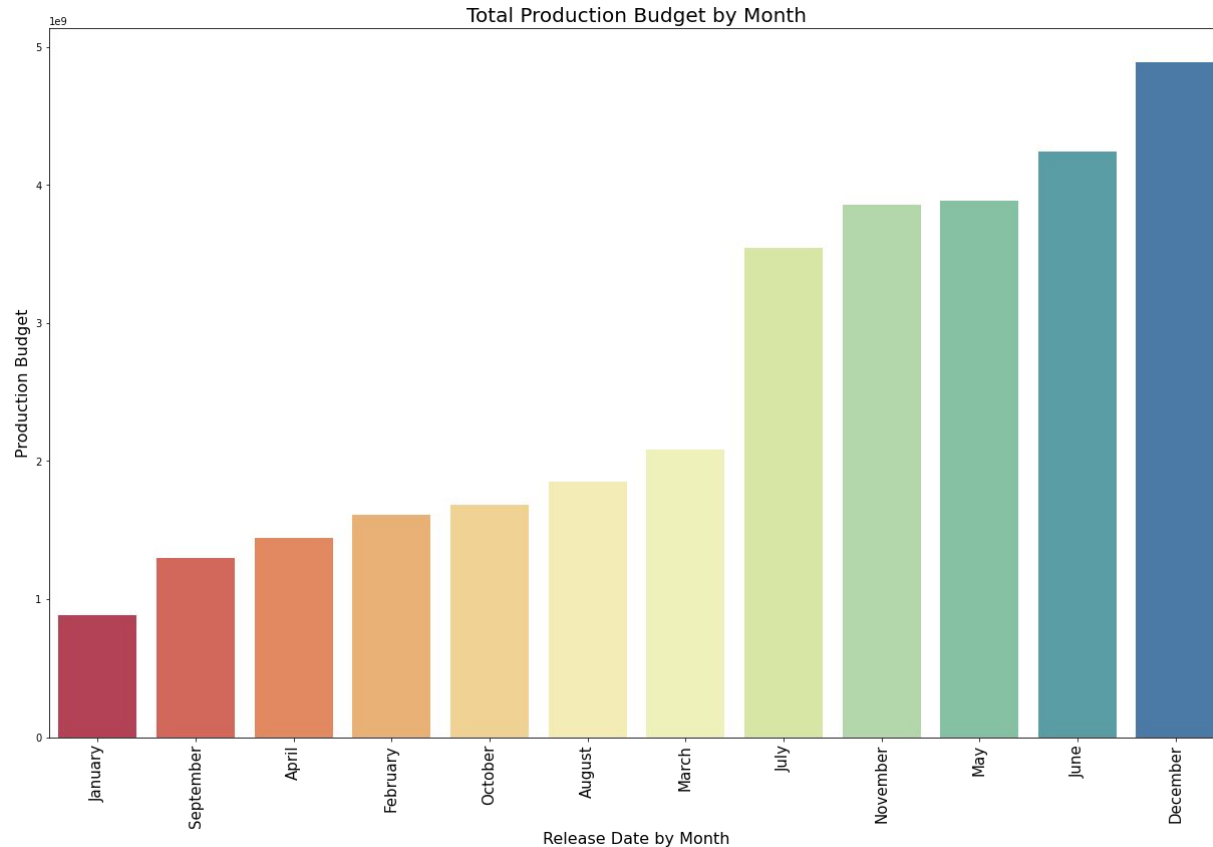


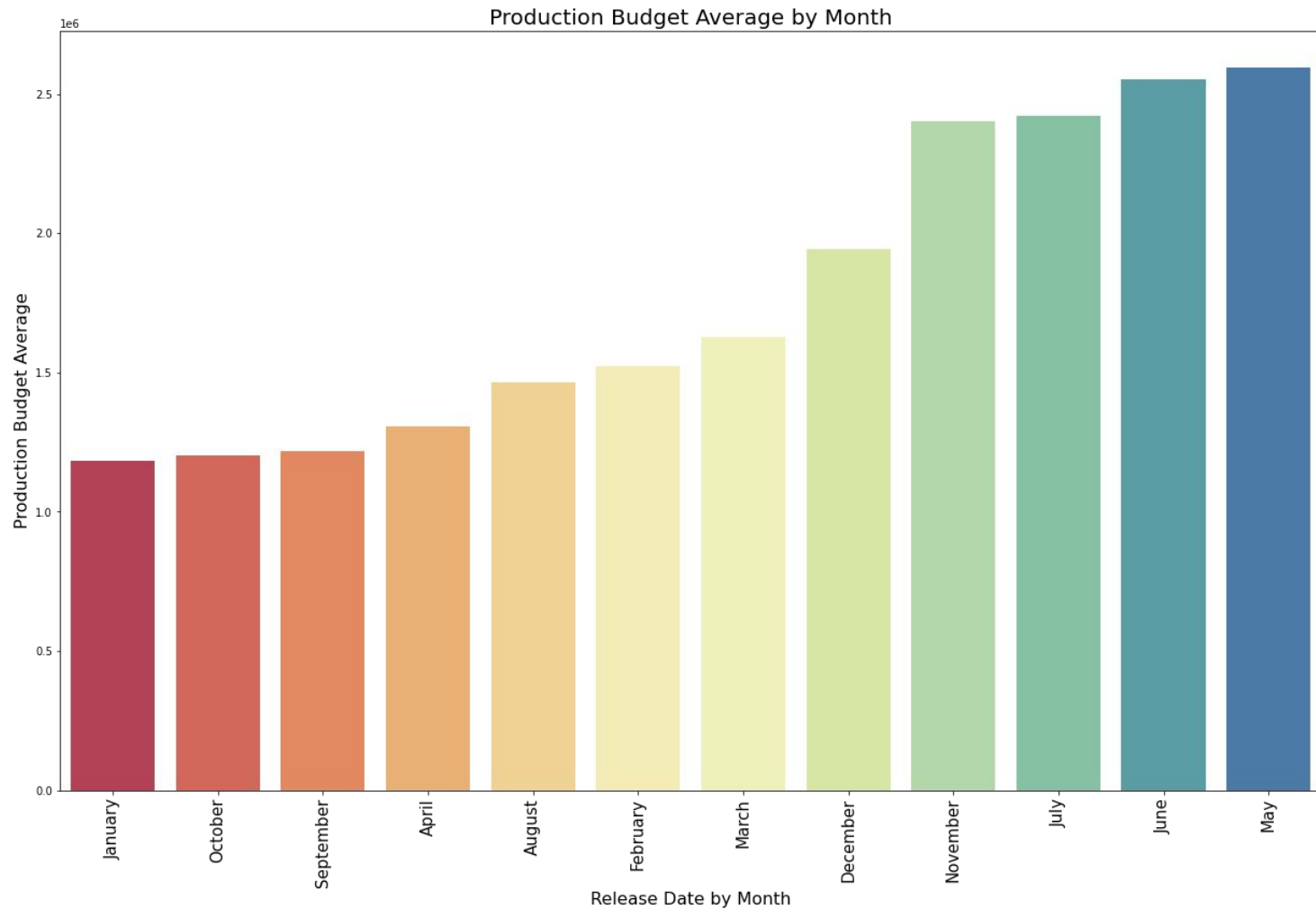
## Number of movies released by month

```
release_date
January      347
February     392
May          407
July         440
April        454
March        470
June         479
November     486
September    493
August       496
October      573
December     745
Name: movie, dtype: int64
```



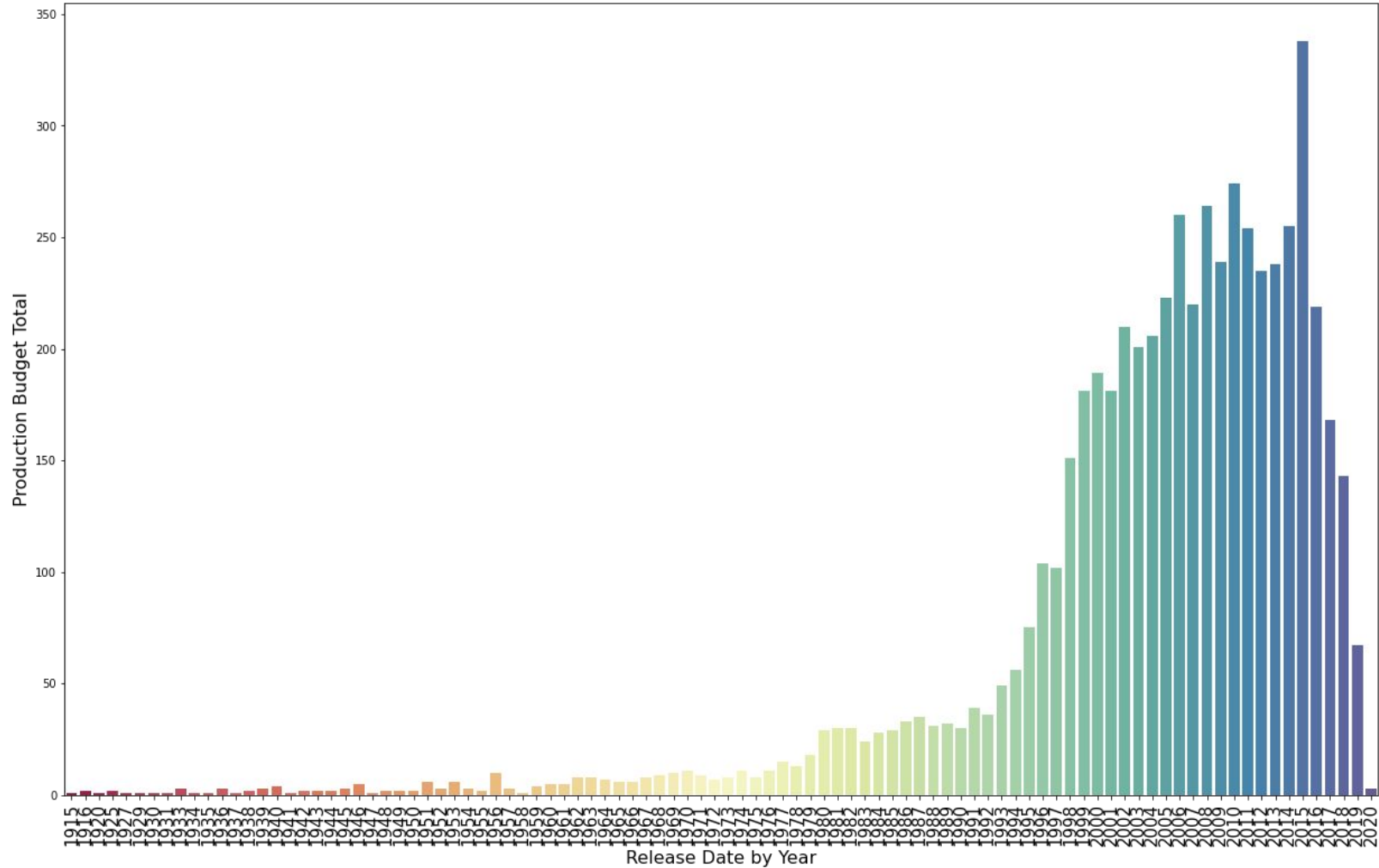
## Question 4 : Which months had the most expensive to produce films?

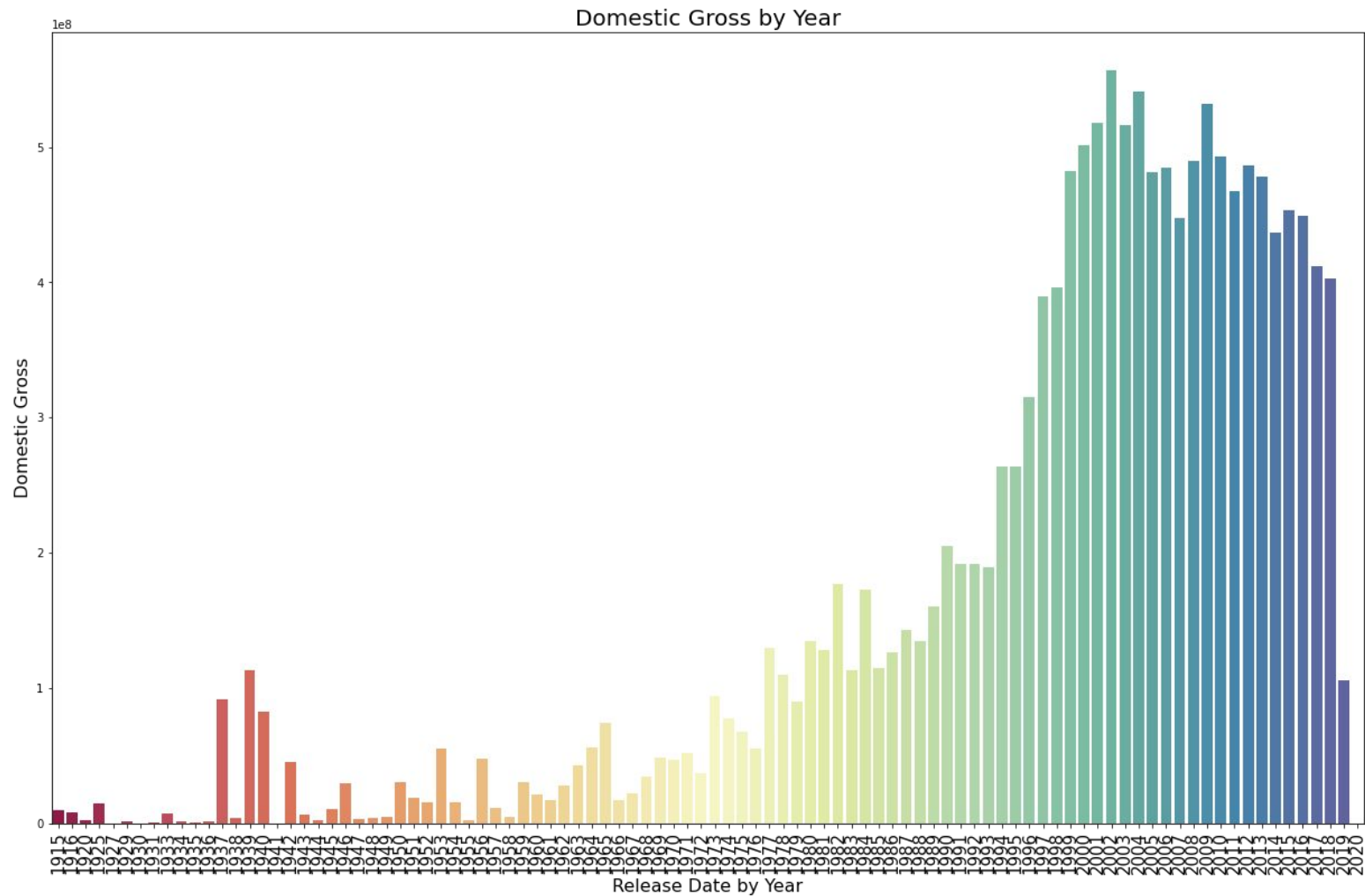




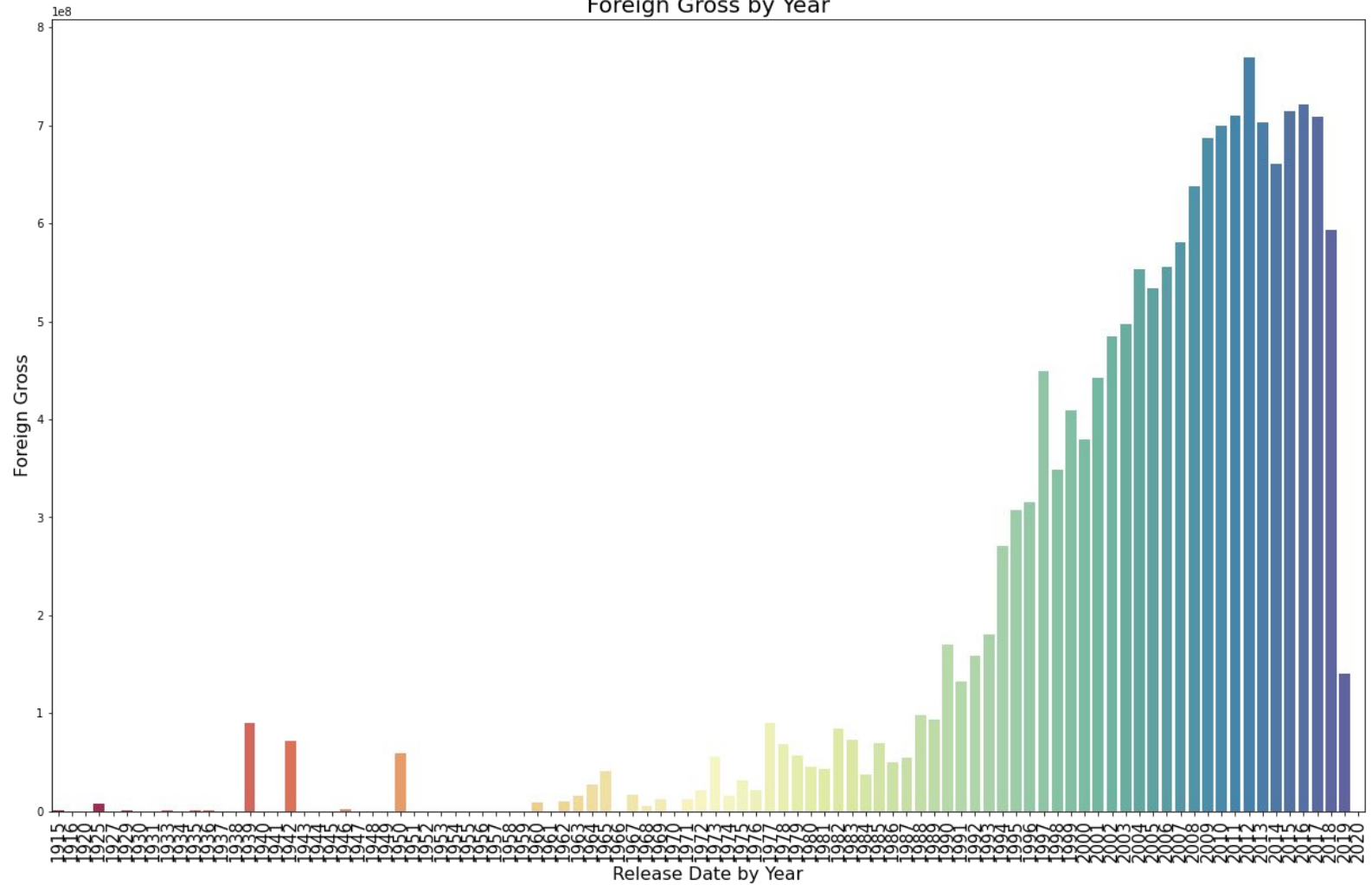
Question 4 : Which years had the highest grossing films?

Number of Movies Per Year



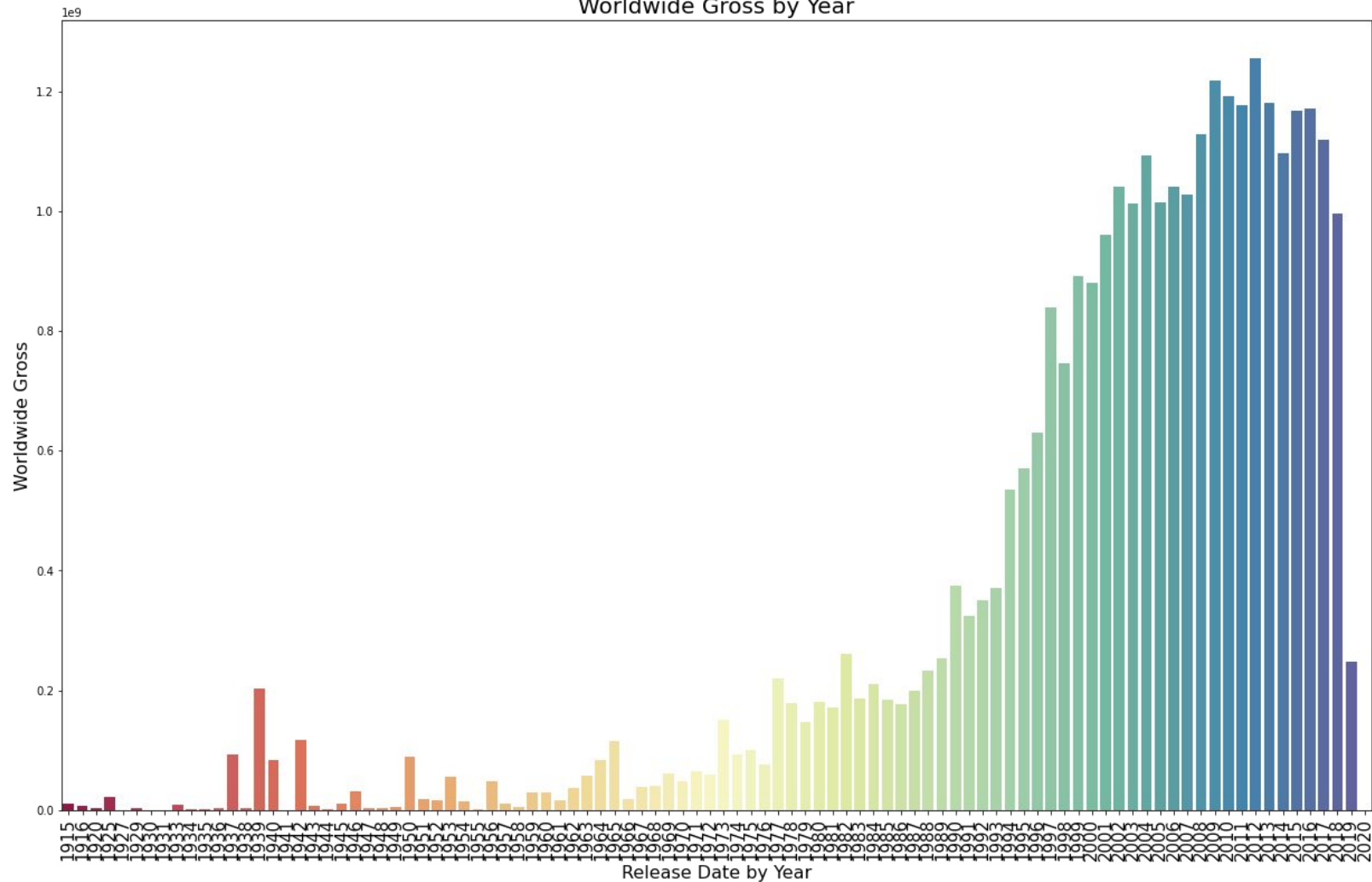


# Foreign Gross by Year

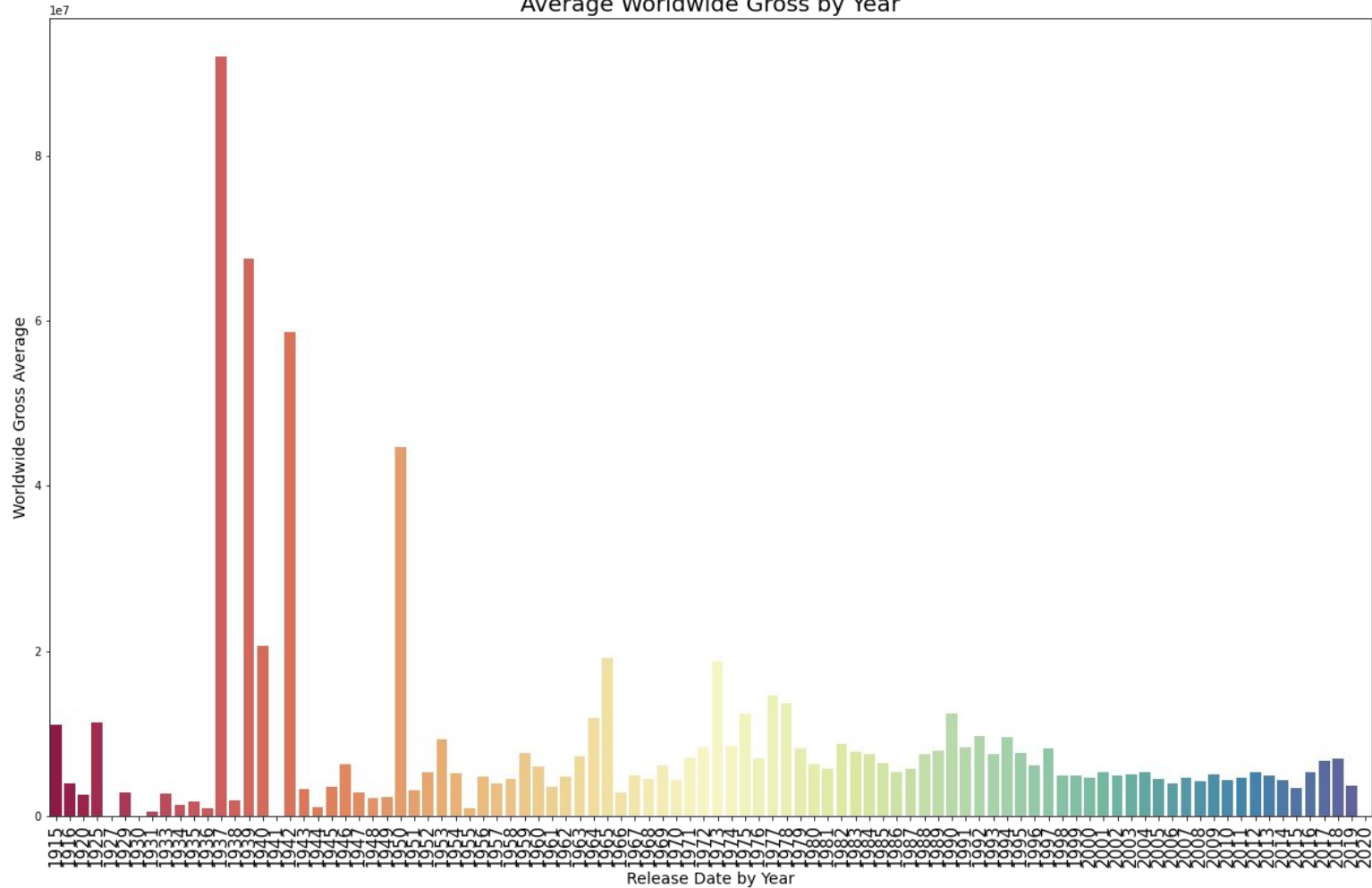




# Worldwide Gross by Year



Average Worldwide Gross by Year

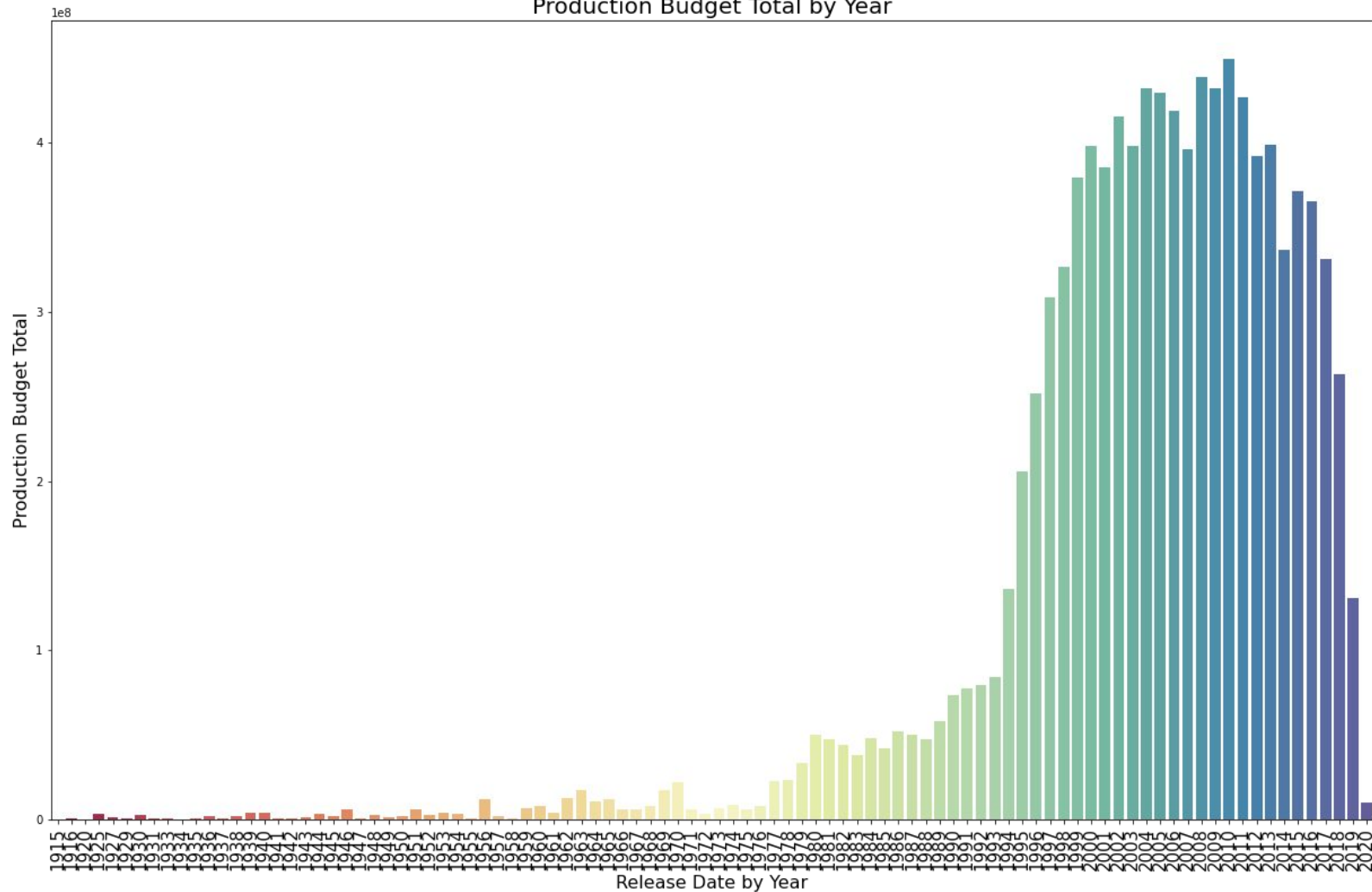


# Why were the early 1900's so highly grossing on average?

- Only a few movies were released a year this early in the history of cinema
- Widely popular films were released during this time, which have continued viewing even today.
- Titles such as:
  - Snow White and the Seven Dwarves
  - The Wizard of Oz
  - Pinocchio
  - Bambi
  - Gone With The Wind
  - Cinderella
  - Peter Pan
  - Alice in Wonderland

Question 5 : What is the trend in production budgets?

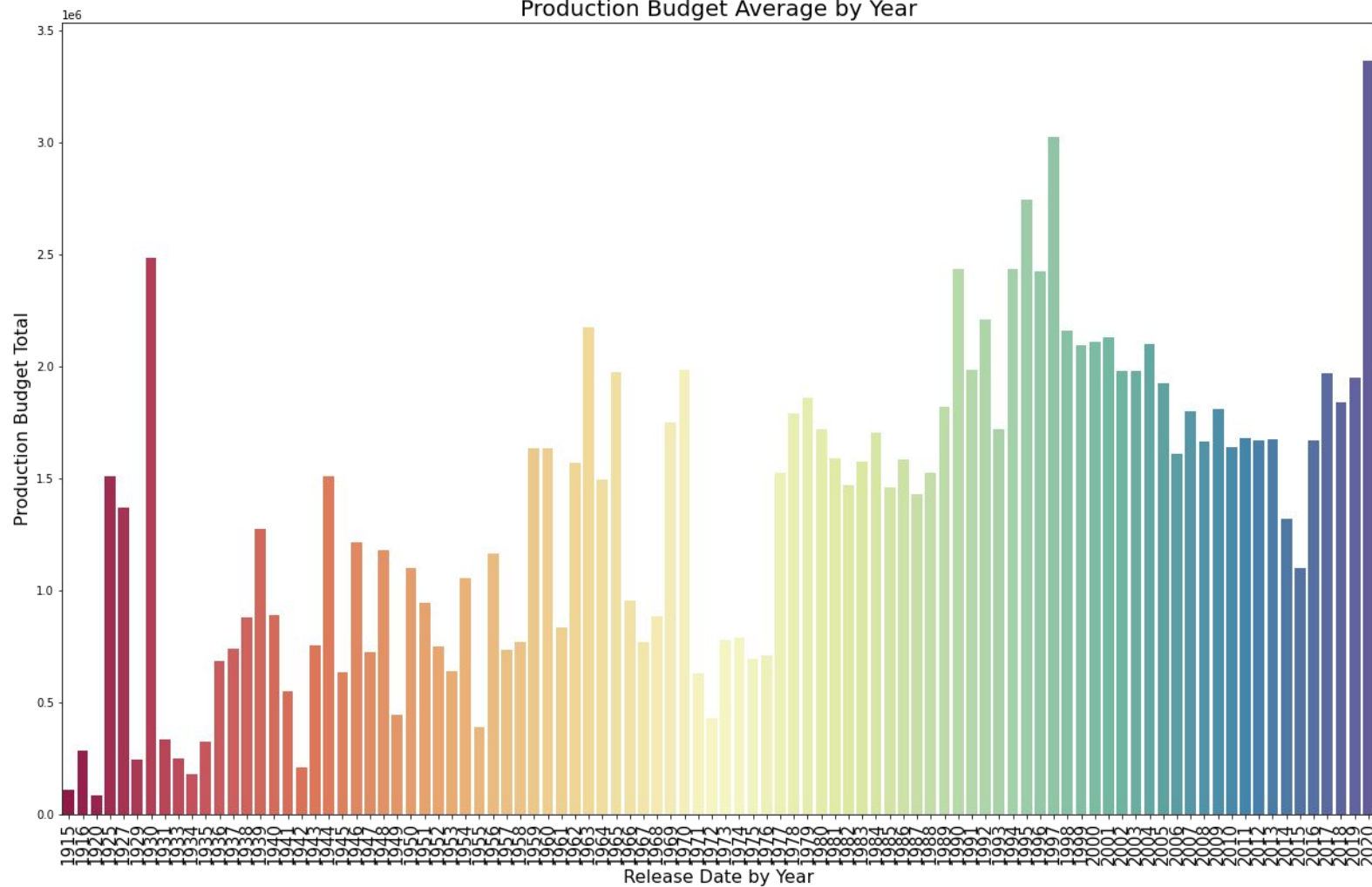
Production Budget Total by Year



# Production Budget Trends

- Production budgets began to ramp up in the 1990's
- After peaking sharply in 2010, there has been a steady decline in production budgets
  - Are actors/actresses taking lower salaries due to increased competition?
  - Is CGI replacing the need for expensive sets and special effects?
  - Is the art of cinematography becoming decentralized, as even film students can make high quality films relatively inexpensively?

Production Budget Average by Year



# Thank You!

Data collection, cleaning, and visualizations

By Nick Kolowich