# Considerations for Entering the Movie Industry
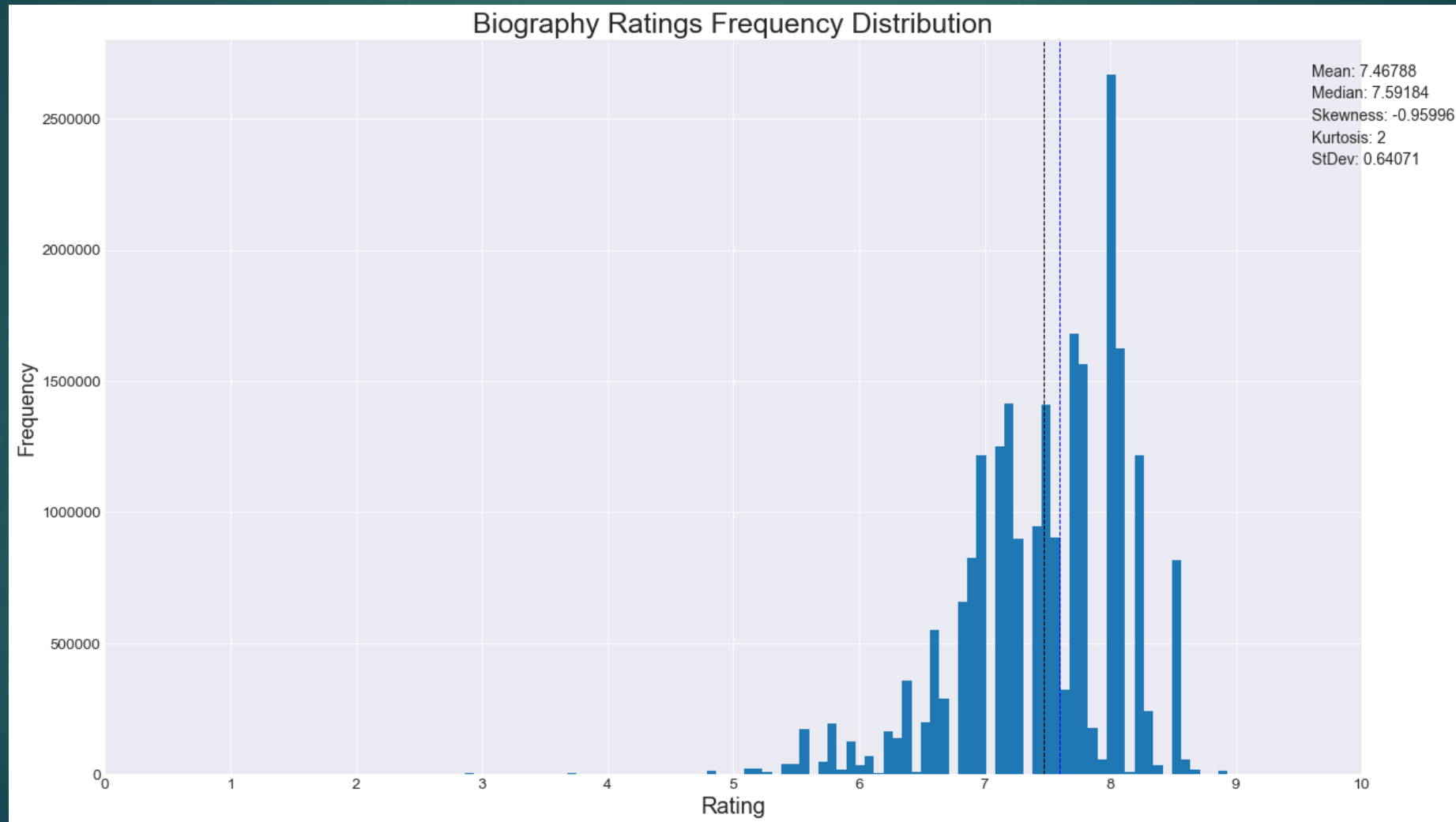
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# Question #1:
# What are the top 3 highest rated movie genres?

▶ According to the data, the top 3 highest genres, amongst genres where there is a sufficient number of voting data, are as follows:

1. Biography
2. Animation
3. Sci-Fi

We'll focus on some key metrics and attributes of successful Biography movies.

# Question #1 (Cont.)

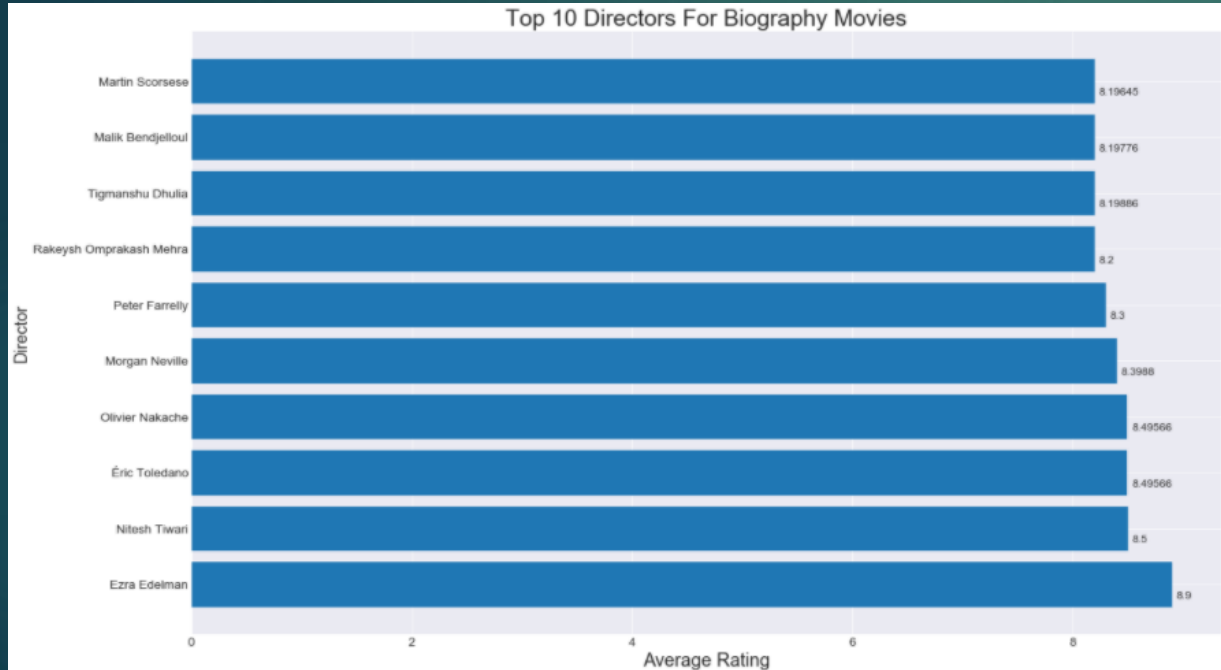- Illustrated below is the distribution of all votes for Biography movies



Biography Ratings Frequency Distribution

Mean: 7.46788
Median: 7.59184
Skewness: -0.95996
Kurtosis: 2
StDev: 0.64071

# Question #2:
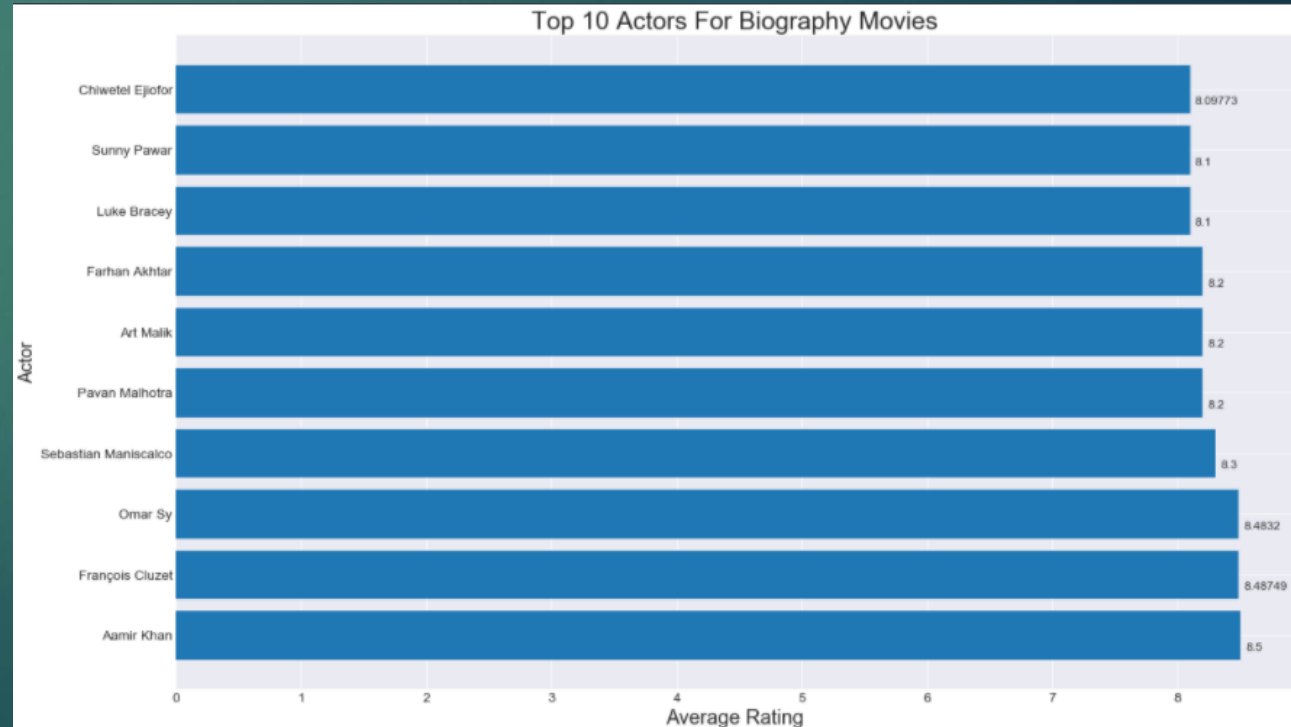## Which actors and directors contributed to more successful Biographies?

▶ The graphs below reflect the actors and directors who were involved in the highest rated movies. The ratings are the weighted average ratings of all the movies they worked in
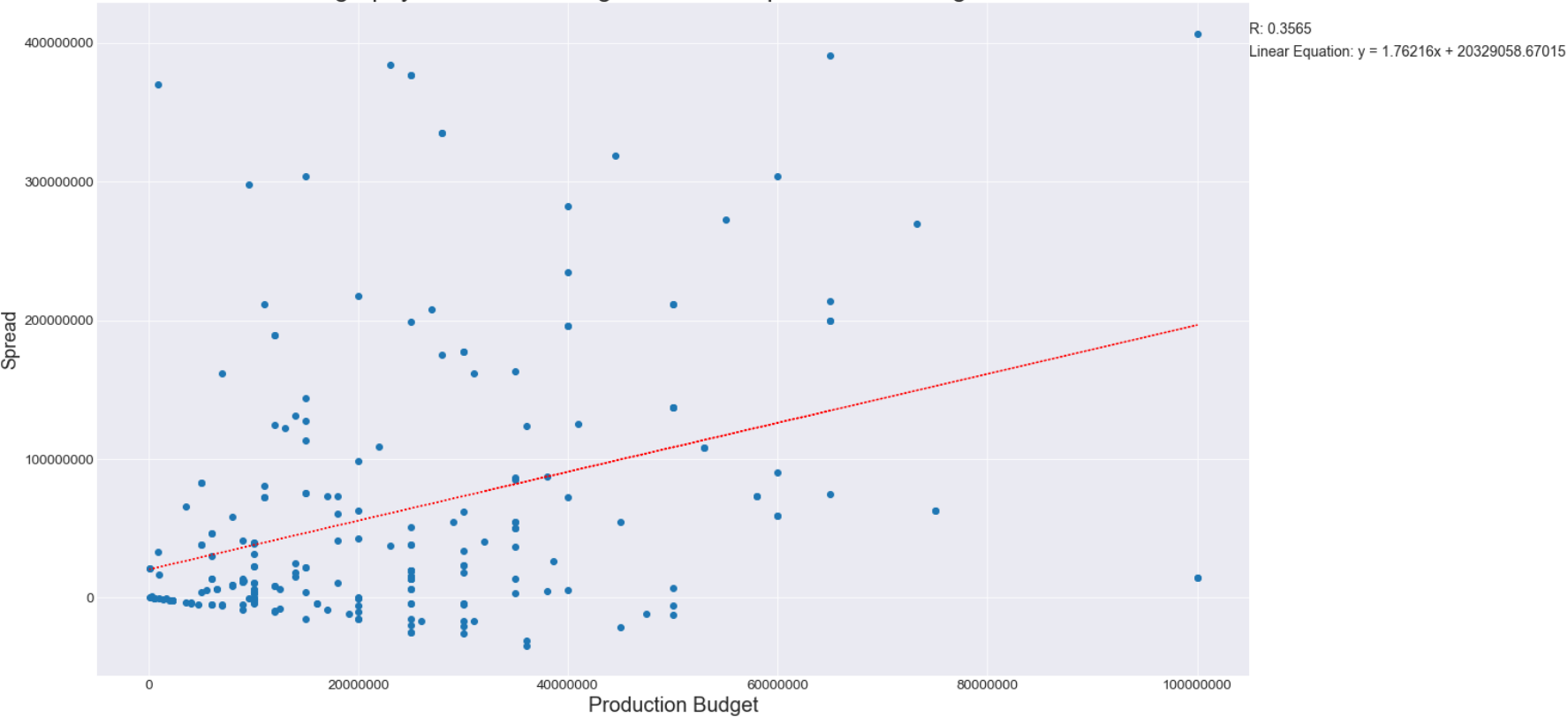


Top Director: Ezra Edelman

Top Actor: Aamir Khan

# Question #3:
## What is the relationship between production budget and Gross Spread?

▶ Gross Spread = (Gross Domestic Revenue + Gross Worldwide Revenue) – Production Budget



Biography Production Budget vs Gross Spread Linear Regression

R: 0.3565
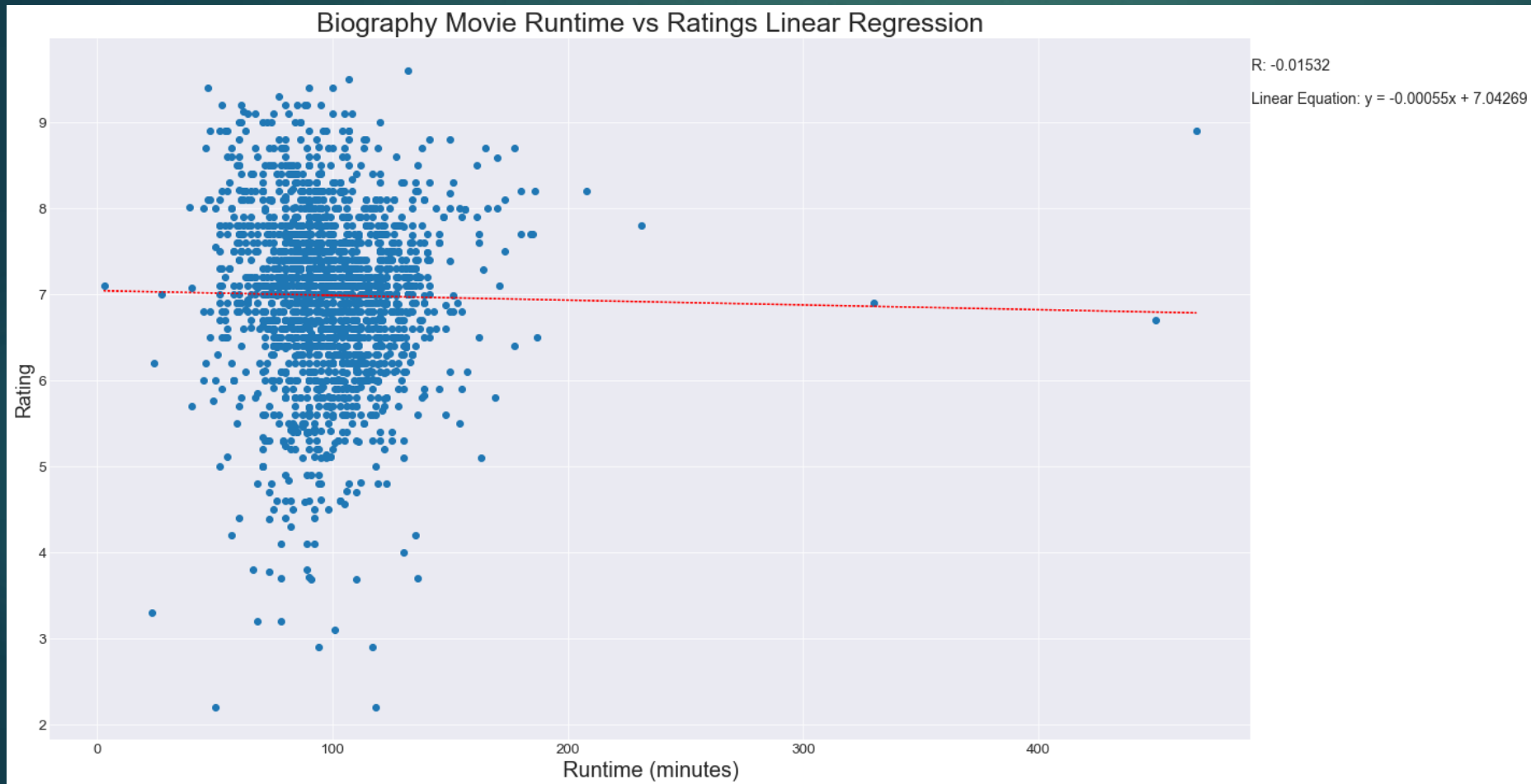Linear Equation: y = 1.76216x + 20329058.67015

We can see that a majority of the very successful movies in terms of gross spread have production budgets clustered between 20 mio – 60 mio.

However, the overall correlation between production budget and spread is weak.

# Question #4:
## What is the relationship between runtime and ratings?



Biography Movie Runtime vs Ratings Linear Regression

R: -0.01532

Linear Equation: y = -0.00055x + 7.04269

We see that there is no linear correlation between runtime and ratings.

We also observe that the majority of move runtimes are clustered between ~80-120 minutes, so that would be the ideal runtime for our client's new productions.

# Thank you!