

Q1: How have movie genres changed over time? (Budgeted over \$100m)

1. Genre Ranking By Years

Release_year	Simple_genre																			TV_Movie
	Drama	Comedy	Thriller	Action	Adventure	Crime	Romance	Science Fiction	Horror	Family	Fantasy	Mystery	Animation	Music	History	War	Western	Documentary	Foreign	
2015	19%	13%	12%	10%	9%	6%	5%	5%	4%	4%	3%	3%	2%	2%	1%	1%	1%			
2010	18%	13%	12%	12%	7%	6%	6%	5%	4%	4%	4%	3%	3%	1%	1%	1%	0%	0%	0%	
2005	17%	13%	12%	9%	7%	6%	7%	4%	4%	5%	4%	4%	2%	1%	1%	1%	0%	0%	0%	
2000	15%	14%	12%	11%	7%	7%	7%	4%	3%	4%	3%	4%	2%	1%	1%	1%	1%	0%	0%	
1995	17%	13%	13%	10%	7%	7%	7%	6%	4%	3%	4%	5%	1%	1%	1%	1%	0%	0%		0%
1990	15%	12%	13%	12%	7%	8%	6%	5%	4%	5%	4%	3%	1%	1%	1%	1%	1%	0%	0%	
1985	14%	16%	10%	10%	8%	6%	6%	6%	8%	4%	5%	2%	1%	1%	1%	2%			0%	
1980	13%	10%	10%	11%	8%	4%	7%	9%	8%	3%	6%	3%	1%	3%	3%	1%	1%	0%	0%	
1975	18%	7%	12%	10%	11%	4%	3%	9%	7%	3%	4%	3%	2%	4%	2%	3%	1%			
1970	20%	7%	13%	15%	7%	13%	4%	6%	1%	2%	1%	4%	1%	1%	2%	2%	2%			
1965	19%	6%	7%	10%	14%	6%	8%	4%	1%	4%	1%	5%	1%	4%	3%	5%	4%			
1960	23%	10%	8%	10%	10%	3%	6%		3%	4%	1%	2%	1%	4%	6%	4%	4%			
Grand..	17%	13%	12%	11%	7%	6%	6%	5%	4%	4%	4%	3%	2%	1%	1%	1%	1%	0%	0%	0%

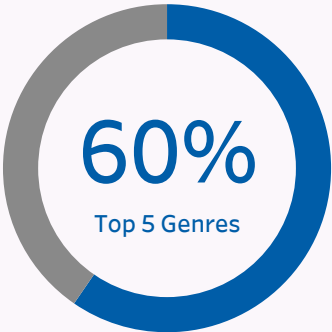
Ranking of genres over y..
1 20

Simple_genre
All

Ranking of genres over y..
To 20

Top N Genres
5

Highlight Release_year (..
No items highlighted

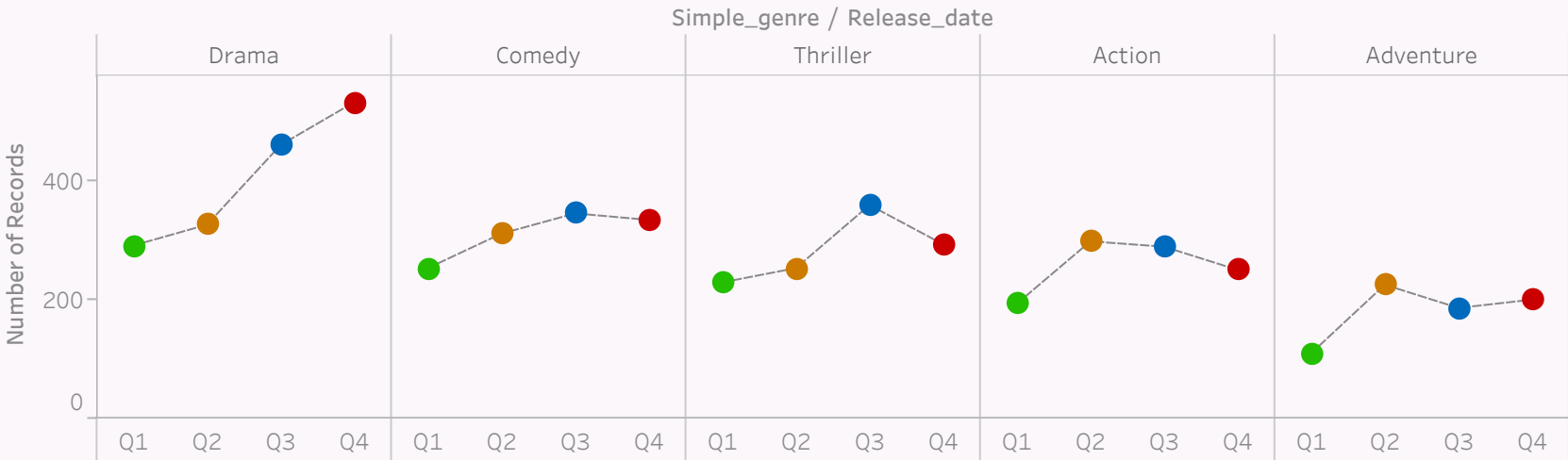


The 5 most popular genres are **Drama, Comedy, Thriller, Action and Adventure**, and the percentage of total is **60%**. Among the top genres, **Drama** is always the most popular one, with the average percentage of **17%**.

Q3

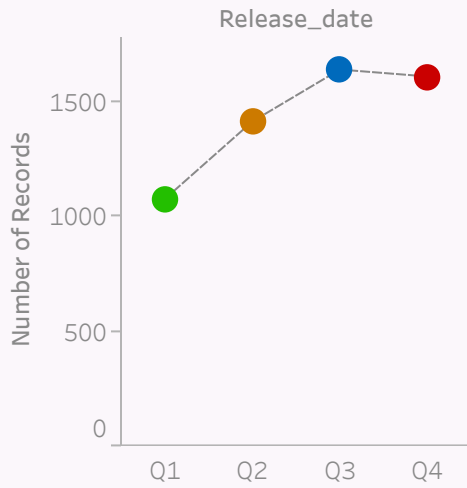
Clearly for all genres, **Q1** is the weakest of the year, followed by a full rise in Q2, with some genres, such as **Action and Adventure**, reaching their peak. Then the differences come out in Q3, which is the outbreak period for Thriller, but a growth period before the next for Drama. However, on the whole, **Q3 is still the prime of the year** with a slight advantage over Q4.

2. Numbers By Genres & Quarters



Release Quarter
Q1 Q2 Q3 Q4

3. Numbers by Quarters





VS



Q2: How do the attributes differ between Universal Pictures and Paramount Pictures? (Budgeted over \$100m)

Paramount, Out - Top Genres Paramount, In - Top Genres Universal, In - Top Genres Universal, Out - Top Genres

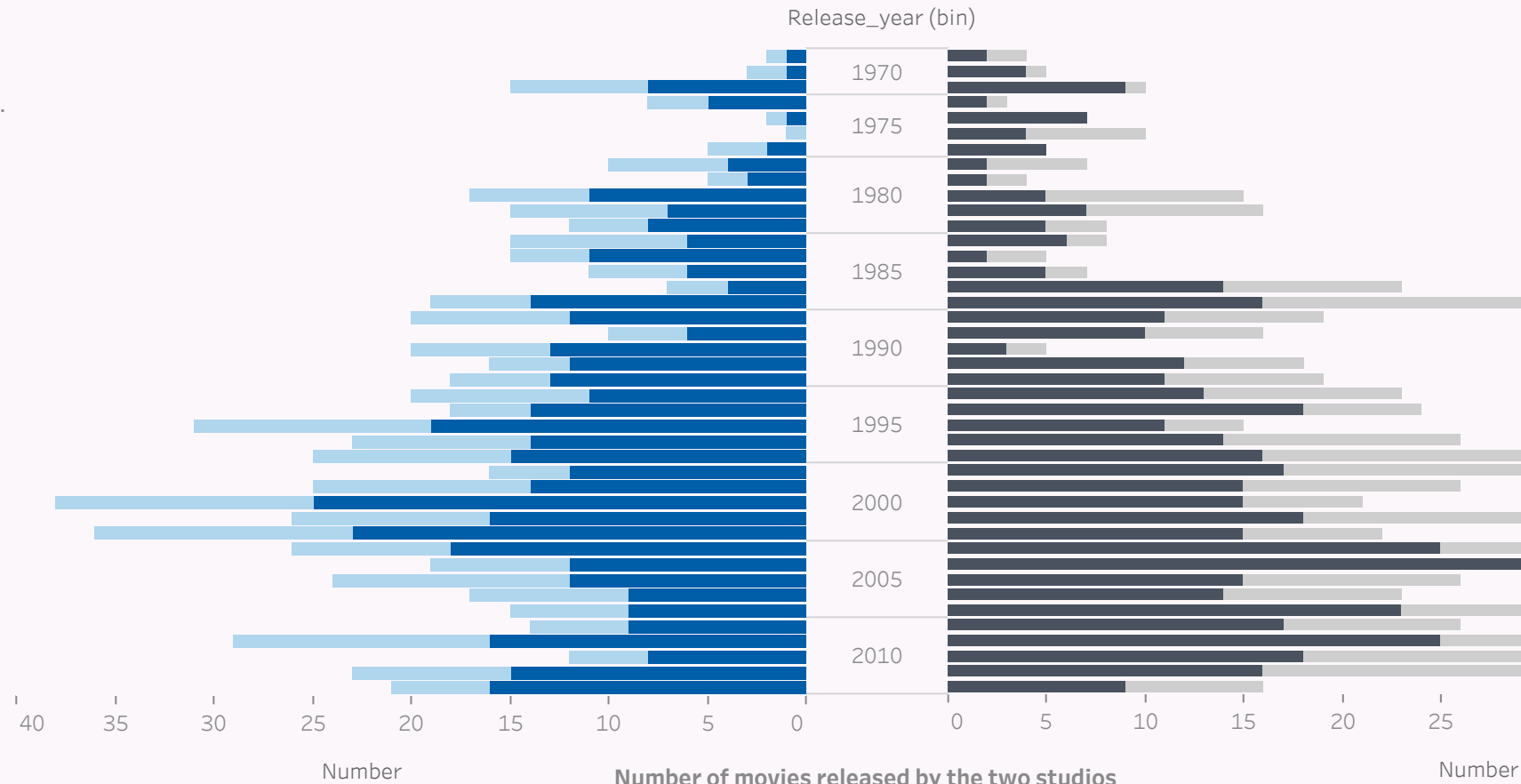
Highlight Top N Genres
No items highlighted

Highlight Release_year (..
No items highlighted

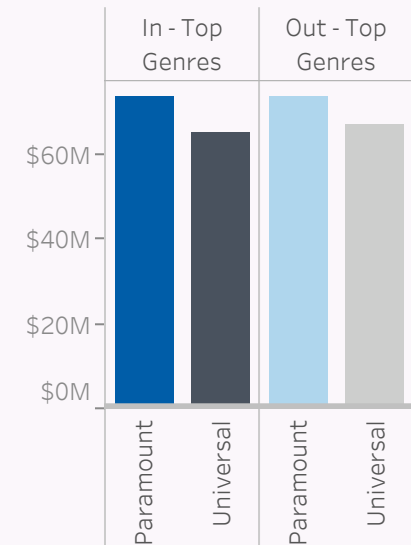
Top N Genres
5

Year of Release_date
1971 to 2015

Vote_average
3.0 to 8.3



Median Profit by Studios



Summary1:
Both studios have shown growth in production, despite the lack of stability in the early years. However, **Universal Pictures** has got a bit advantage over its rival since around 2005.

435	In - Top Genres	498
269	Out - Top Genres	318
704	Grand Total	816

Summary2:
The movies, located in whether "In - Top Genres" or "Out - Top Genres", bring **Paramount Pictures** higher median profit.

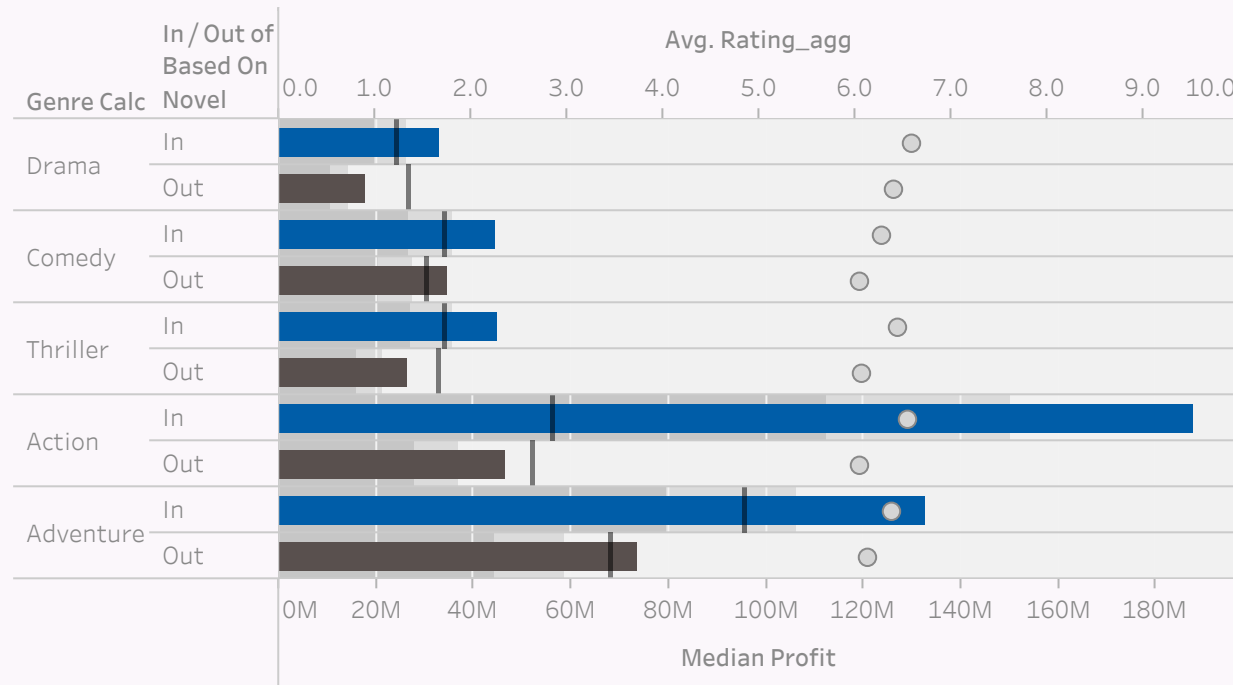


VS

Q3: How have movies based on novels performed relative to movies not based on novels? (Budgeted over \$100m)



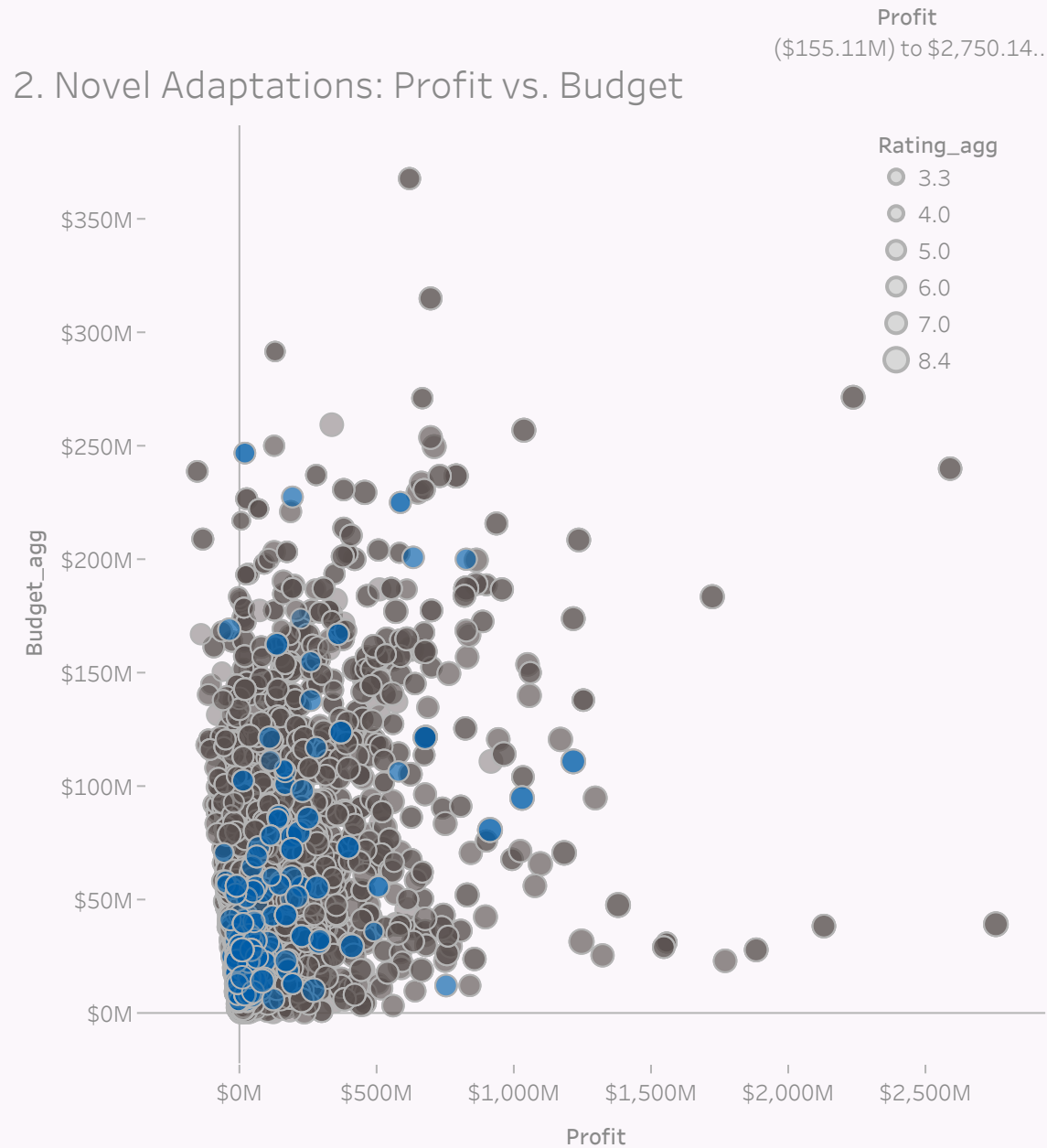
1. Novel Adaptations In Top Genres: Profit & Rating



	In	Out
Avg. Rating_agg	6.5	6.2
Percentage in Numbers	5%	100%
Percentage in Median Profit	135%	100%

Summary:
1) Compared with movies not based on novel, although the number of movies adapted is only 5% of the latter, the average rating is 0.3 higher, and the median profit is actually 31% higher than the latter.
2) In almost all genres, except for comedies, the movies adapted from novels have a higher median profit.

2. Novel Adaptations: Profit vs. Budget



Q4: What's The Relationship Between Profitability And Ratings? (Budgeted over \$100m)

Overview: Key Indicators	Correlation Coefficient	Classified by profits and ratings	Comparison of profits and numbers	Top movies based on novel released by studios (Sorted by profit)
--------------------------	-------------------------	-----------------------------------	-----------------------------------	--

3,561

Overall Movie Number

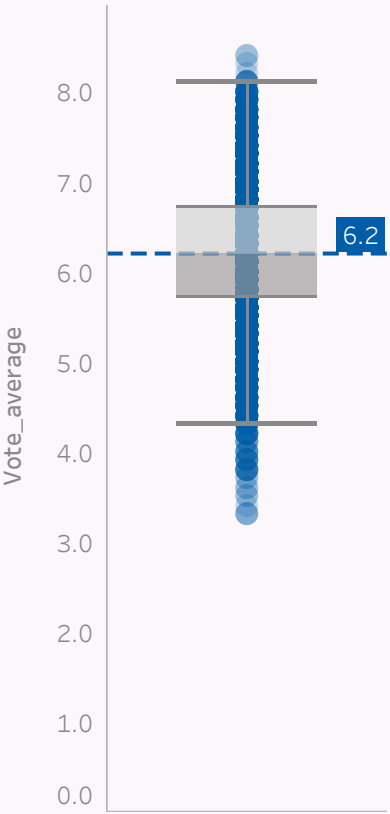
6.2

The median and average rating

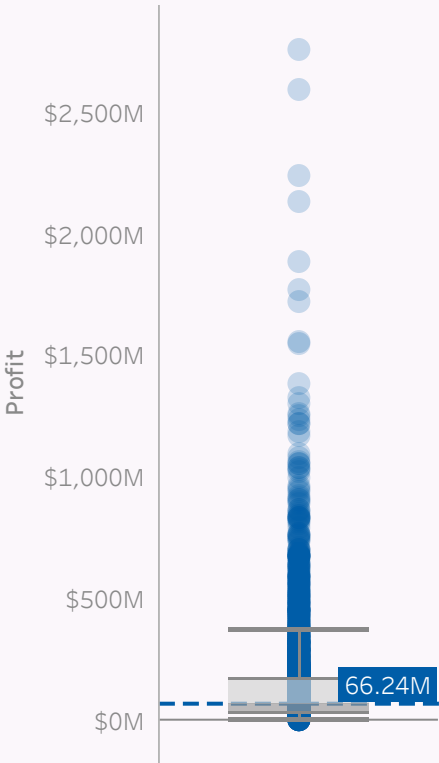
\$66.24m

The median profit of profitable movies

Rating Distribution

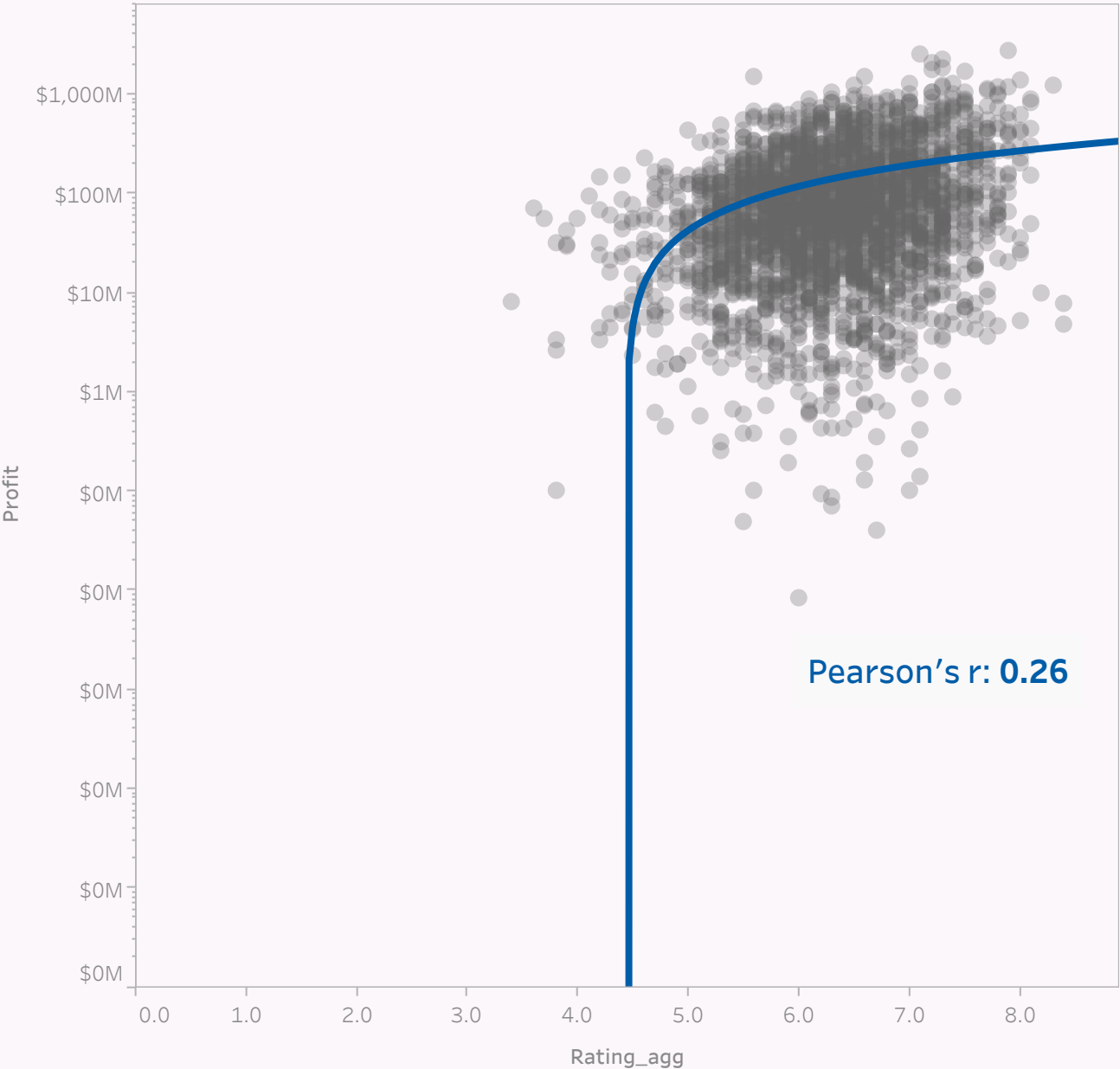


Profit Distribution of Profitable Movies



Q4: What's The Relationship Between Profitability And Ratings? (Budgeted over \$100m)

Overview: Key Indicators	Correlation Coefficient	Classified by profits and ratings	Comparison of profits and numbers	Top movies based on novel released by studios (Sorted by profit)
--------------------------	-------------------------	-----------------------------------	-----------------------------------	--

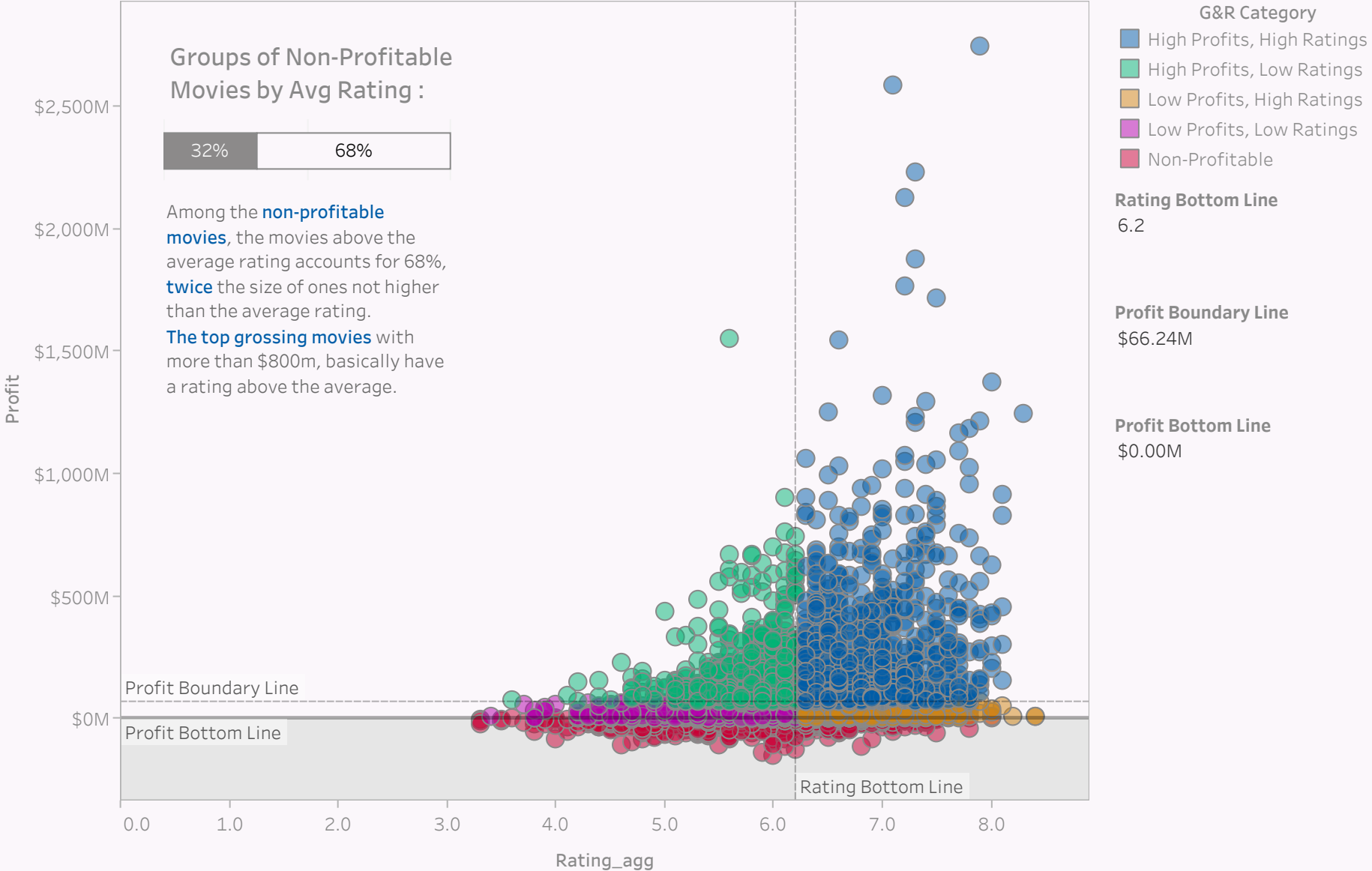


The Pearson correlation between the ratings and profits is **0.26**, implying **a weak positive linear relationship** between the two variables.

Q4: What's The Relationship Between Profitability And Ratings? (Budgeted over \$100m)

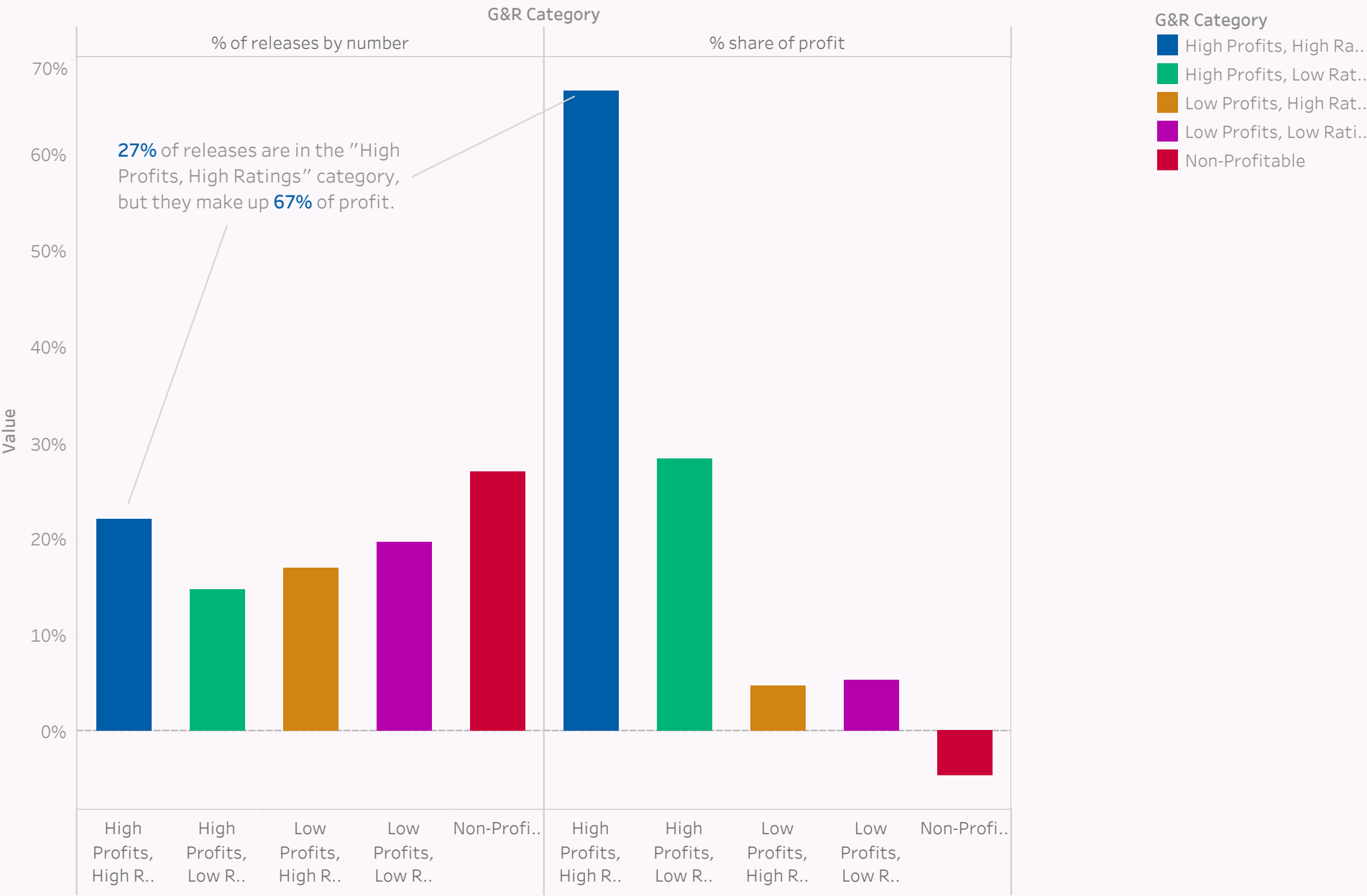
Overview: Key Indicators	Correlation Coefficient	Classified by profits and ratings	Comparison of profits and numbers	Top movies based on novel released by studios (Sorted by profit)
--------------------------	-------------------------	-----------------------------------	-----------------------------------	--

Profitability & Rating: Quadrants



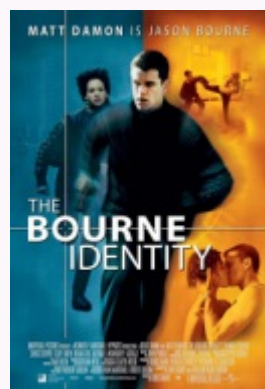
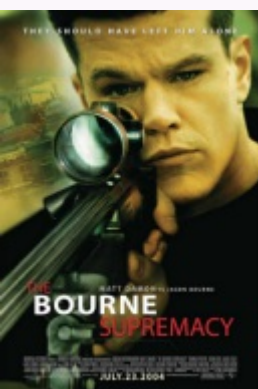
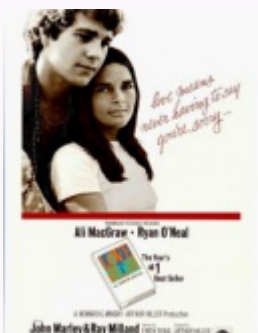
Q4: What's The Relationship Between Profitability And Ratings? (Budgeted over \$100m)

Overview: Key Indicators	Correlation Coefficient	Classified by profits and ratings	Comparison of profits and numbers	Top movies based on novel released by studios (Sorted by profit)
--------------------------	-------------------------	-----------------------------------	-----------------------------------	--



Q4: What's The Relationship Between Profitability And Ratings? (Budgeted over \$100m)

Overview: Key Indicators	Correlation Coefficient	Classified by profits and ratings	Comparison of profits and numbers	Top movies based on novel released by studios (Sorted by profit)
--------------------------	-------------------------	-----------------------------------	-----------------------------------	--



The top grossing movie series adapted from novels in history are <The Lord of Rings> and <Bourne>, of which the latter is released by Universal Picture. The corresponding movie from Paramount Picture is <Forrest Gump>.

The Lord of Rings