

Why I am always right about movies

Overview

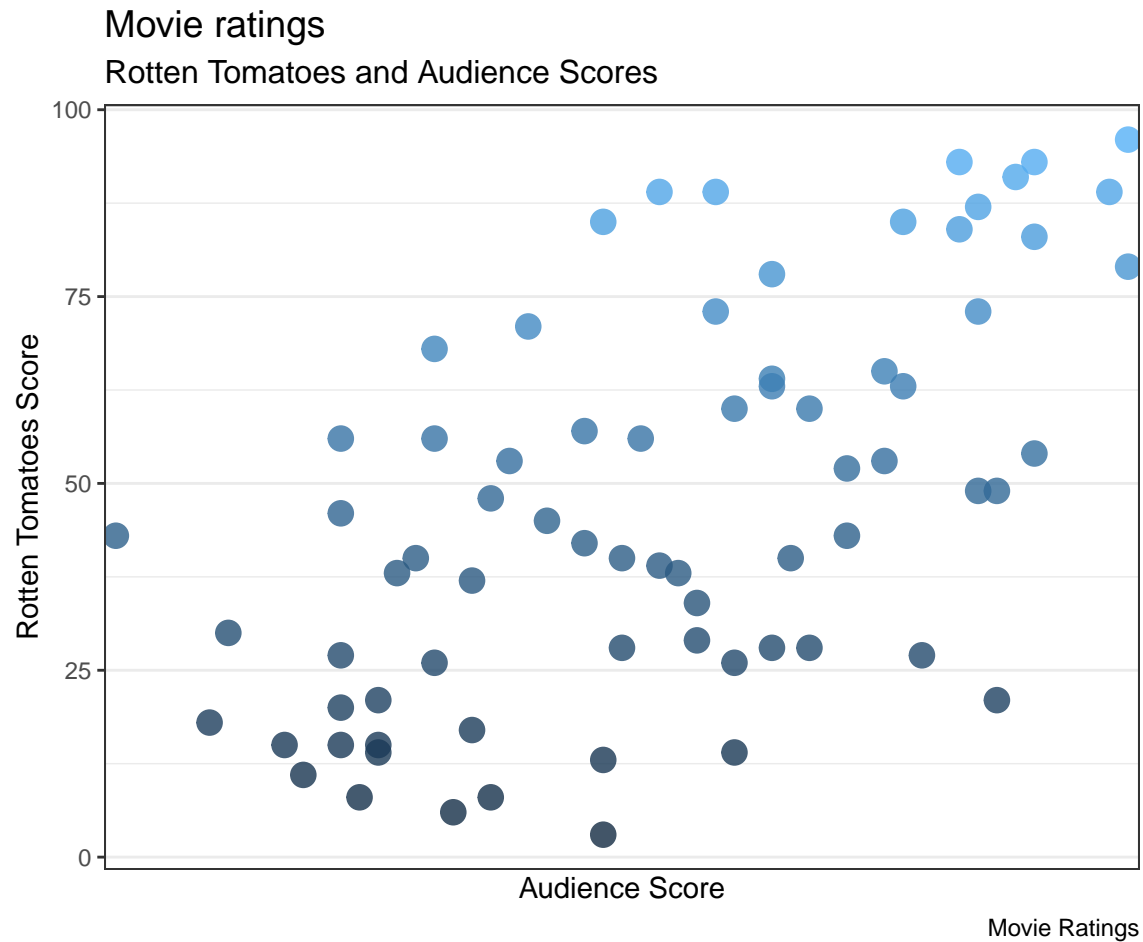
In this report, we look at movies and why my friend is mostly wrong.

Rotten Tomatoes vs audience scores

If we look at the audience scores compared to Rotten Tomatoes, we see that the frequency

$$\frac{n}{2}$$

In general we can see that the audience and Rotten Tomatoes tend to score in the same range for the same movie:



Profitability

If we calculate the average profitability of all the studios, we see that Disney has the highest average.

Lead Studio	mean(Profitability, na.rm = TRUE)
20th Century Fox	2.532310
CBS	2.202571
Disney	7.406009
Fox	4.511522
Independent	6.582046
Lionsgate	1.806509
New Line	2.071000
Paramount	2.594000
Sony	4.836326
Summit	6.377962
The Weinstein Company	1.221114
Universal	4.435962
Warner Bros.	3.210305
NA	3.307180

If we look at worldwide gross however, we see that Disney doesn't fair too badly, even though it is not the

top.

Lead Studio	mean(Worldwide Gross, na.rm = TRUE)
20th Century Fox	78.37900
CBS	77.09000
Disney	288.65751
Fox	120.42805
Independent	81.41819
Lionsgate	76.29606
New Line	20.71000
Paramount	80.30316
Sony	100.78001
Summit	248.45260
The Weinstein Company	23.27300
Universal	168.93889
Warner Bros.	173.43266
NA	92.60105

Correlation

Using the Spearman's correlation test we can see that the correlation between world wide gross and audience score is in fact 29% which is far below 80%.

```
##
## Spearman's rank correlation rho
##
## data: movies$'Audience score %' and movies$'Worldwide Gross'
## S = 45945, p-value = 0.01243
## alternative hypothesis: true rho is not equal to 0
## sample estimates:
##      rho
## 0.2912333
```

We could get a basic view from a scatter plot. Since the points are far from one another, we could already surmise that the correlation is weak.

Worldwide Grossing and Audience Scores

Investigating the relationship

