

The Year and Rating of a Movie: IMDB-TOP 250 Movies

In my analysis, throughout IMDB top 250 movies, I investigate the effect of the year of a movie on the rating it has.

I expect to find that older movies get higher ratings (hypothesis) due to my intuition that a nostalgic approach is prior while voting. Most of older movies are lack of many advanced technological apparatus that movie makers are utilizing today. Despite of this, I expect that either less competitiveness in the past or people's romantic passion for their younger ages positively affect their attitudes towards older movies. I also control the number of users participated to grade, since one could argue that the association of the rating and the year of movies might be violated, regarding older movies are getting vote for longer times with higher numbers of voters.

Results are shown in the following table.

	Beta	Standard Error	Confidence Interval	
Constant	13.67232112	0.955120824	15.54435793	11.8002843
Year	-0.002829674	0.000483921	-0.00188119	-0.003778159
User_Count	4.21609E-07	2.91728E-08	4.78788E-07	3.6443E-07

According to the table, all Beta coefficients are statistically significant since confidence intervals do not contain zero point. One unit increase in the year of a movie is associated with 0.002 decrease in the rating. This finding validates my hypothesis. By the way, the number of users participated in voting is found positively associated with the rating. This means highly rated movies are voted by more people.

The major finding of this brief research should not be interpreted in terms of a historical downfall in the quality of the film industry. Rather, it basically reveals that people vote more sympathetically for their long-term memory. Older times get reward independent of how many people rewarded. Another interpretation of the result could rely on somehow irrationality of people's choices. People are not much rational in their attitudes towards movies.