Topic: What factors influence the IMDB rating? Is there a good predictor?

Method: I measured the correlation of rating and various quantifiable factors available on the IMDB movie page.

I also looked at the average ratings across year of release, origin country, and genre.

Among the quantitative data available on IMDB, the following can be explored as to whether the values are related

to the rating of each movie:

1) Number of votes - we want to check whether the rating is related to the number of votes for the movie, which may be an indicator of the popularity of the movie

2) Runtime (length of the movie) – is there a relationship between how long the movie runs and how high viewers rate or how much they like a movie?

3) Number of awards (won) – does the number of awards a movie won affect the rating? For awards, we excluded nominations.

4) Gross box office (worldwide) – Gross box office is also an indicator of the popularity of the movie; does it influence the rating?

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Based on correlation, there does not seem to be a significant predictor of a movie’s rating. Only the number of votes have the highest correlation among the four numbers we considered, and this cannot be a ‘leading’ indicator (i.e., a characteristic of the movie itself or something known before the actual rating/vote has been given).

We try to look at average ratings across some other property of the movie to see if there are notable patterns or properties that can

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