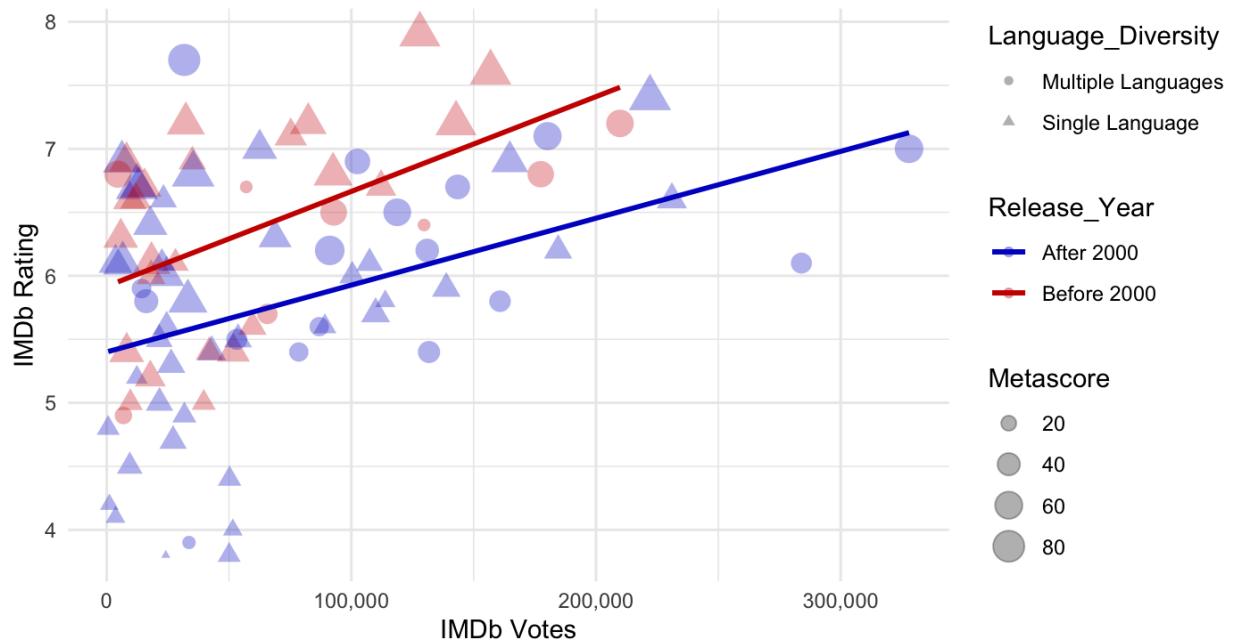


Do IMDb votes predict Higher IMDb ratings for movies longer than 75 mins?
 Also how does language, release year, and having multiple languages impact this relationship?



The aim of this visualization is to understand whether IMDb votes predict higher IMDb ratings, and to examine how language diversity and release year influence this relationship. Through the visualization, viewers can discern trends in IMDb ratings based on IMDb votes, comparing movies released before and after 2000, as well as those with single or multiple languages.

Using scatter plots with trendlines for points before and after the year 2000 as our visualization is a good method for displaying the relationship between two continuous variables (IMDb ratings and IMDb votes). While a line chart could have shown trends more explicitly, a scatter plot was chosen for its ability to display individual data points, allowing for a more granular exploration of the data and facilitating the identification of outliers or anomalies. The x-axis represents the IMDb votes, IMDb ratings on the y-axis, while release year is represented with colors, language diversity by shape, and metascore by point size. This allows us to explore various dimensions of the data, allowing viewers to discern patterns and relationships more effectively.

Color hue was utilized to differentiate between movies released before and after 2000, with red indicating movies before 2000 and blue indicating movies after 2000. Metascores are encoded with size, which lets audiences know how each film was received by critics relative to their IMDb ratings and votes. To improve the granularity of the visualization, shape makes a distinction between movies in one language (in triangles) and those in multiple languages (in squares), which also provide further insights into how language diversity might influence the IMDb ratings and votes relationship. However, this approach also poses limitations, as it can lead to potential clutter or visual confusion if not carefully managed.

To enhance readability and interpretation, the scatter plot includes trendlines for each time period (before and after 2000) fitted using linear regression. It's important to acknowledge that they may oversimplify the relationship between IMDb votes and ratings, disregarding potential nonlinear patterns or interactions with other variables. This helps viewers identify any overall trends in the relationship between IMDb votes and ratings within each time period. The use of a minimal theme and alpha blending for points and trendlines ensures that the visualization remains visually appealing while reducing clutter and emphasizing the main insights. Lastly, the choice to filter out movies with runtimes less than 75 minutes may introduce bias, as it excludes a subset of movies from the analysis, potentially limiting the generalizability of the findings.

Overall, this visualization aims to communicate the complex relationship between IMDb votes, IMDb ratings, release year, language diversity, and critical reception in movies longer than 75 minutes. By utilizing appropriate visual encodings and incorporating trendlines, the visualization facilitates the exploration of patterns and trends, enabling viewers to gain valuable insights into how various factors interact to influence audience and critical perceptions of movies. Nevertheless, it's crucial to acknowledge that while this visualization offers valuable insights, it might overlook certain subtleties or outliers within the dataset due to the inherent aggregation and summarization in the chosen visualization method.

