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Data Visualizations and Graphics - MATH-225

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The State of Cinema: An Analysis of Films Ratings Over Time

Motivated by Martin Scorsese’s claim that Marvel movies are not cinema, we wanted to explore the trends of film consumption and reception over time. Specifically, we asked: How have all genres been received by audiences over time? How has drama as a genre fared against actions films in terms of audience enjoyment? What role do age and gender play in film consumption? To answer these, we looked at datasets containing data from IMBd movie ratings. One contained data on 85,855 movies, their production, and their ratings. Another broke down the votes for those same movies based on age and gender. We manipulated these datasets in order to create graphs of mean rates of films of each year overall and for each genre. We saw ratings generally decreasing over time, but drama generally scoring better than action. We then looked at ratings and total votes based on gender, breaking down each gender by age group. We concluded that audiences are enjoying films produced in later years less and less, while more people are rating them. We also found that the majority of votes are made by men. In terms of age, the 30-44 year-old age group dominates votes with younger voters engaging more over time.