

Project 5 Description

Members:

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Dataset chosen:

- Movies.csv

List of analytic tasks it supports:

- Finding correlation between total budget and imdb score
- Finding correlation between Gross and move Facebook likes
- Finding correlation between Gross and Duration
- Popularity on Facebook based on country
- Imdb score based on Gross

Visual Analytics:

- Principal Component Analysis
 - Sensitive to the outlier
- Incorporating user feedback
 - Gave it to friends for feedback, changed based on it
- Coupling mental models and data models
 - Size based on gross

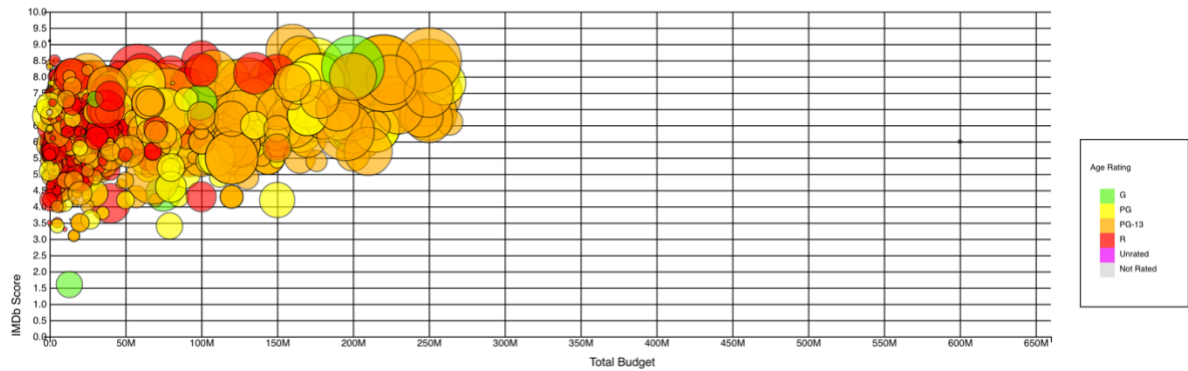
Overview of Visualization:

The visualization consists of three charts. The first and biggest one is a scatterplot for the IMDB score vs. the Total budget, where the size of each point on the plot is relative to its Gross profit, and the color corresponds to the rating. We were careful not to over-encode the points, but still wanted to give a wide scope of information. When you hover over a point on the first plot, the movie with all its information will appear at the bottom of the page, and it will be highlighted in the other two plots. If a point is clicked then you will be redirected to the IMDB page of that movie.

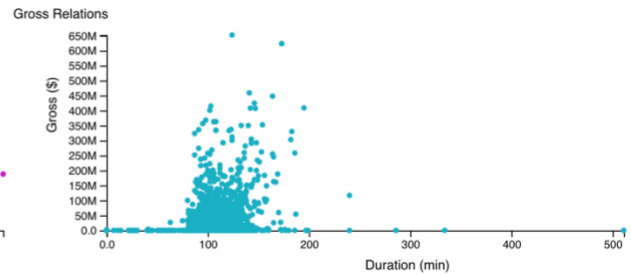
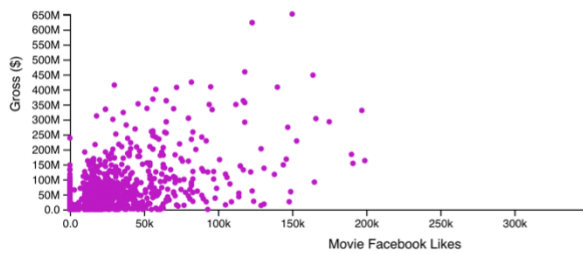
IMDb Score vs. Total Budget

Click on a circle to view IMDb page

Circle size relative to gross profit



The other two plots expand on the size of the circle, allowing the user to gain a deeper understanding of the gross. The plots measure Gross vs. Movie Facebook Likes, and Gross vs. Duration.



We allow the user to filter data based on year and/or genre, as well as letting the user search for a particular movie. This allows the user to view details on demand.

Filters:

Year: Genres:

Enter a Movie to Search:

Movie: Wrath of the Titans

Year: 2012

Director: Jonathan Liebesman (473 likes)

Stars: Liam Neeson (14,000 likes), Edgar Ramírez (897 likes), and Lily James (502 likes)

Gross: \$83,640,426

Budget: \$150,000,000

Duration: 99 mins

Age Rating: PG-13

Genres: Action, Adventure, Fantasy

Plot Keywords: ares, hades, titan, underworld, zeus

Language: English

Country: USA

Film Hue: Color

Aspect Ratio: 1.85

Faces in Poster: 0

****Click on the movie title, director, or an actor name above to search more ****

To expand on the details on demand, we display all relevant information to the user, allowing them to further explore the details of each movie. Hitting clear will reset the graphs. Clicking on either the movie, director, or actor will search for more information about that subject.