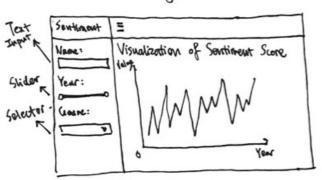
Movie Script Sentiment Analysis

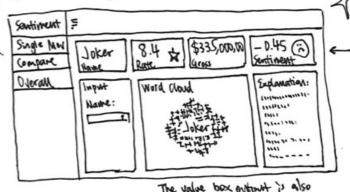
The aim of the project is to amodyze the sentiment tone of movie scripts and try to compare the sentiment tone among the best movies on IMDB Top 250 chart. The thought is to design a dashboard with inputs & plot outputs to visualize interesting features within movie scripts.

I. The Basic Layout of the Dashboard:

O The initial thought is to put the input in the sidebar, so that the plot can be bigger and more awayses can be shown on the body.



⊕ However, after a thorough analysis on the doctaset, we decide to just the 10 input on the body of the page, and let the sidebax be a two to select from different themes: I) single movie analysis 2) Comparison
3) Overall Analysis.



The value box orthorn is also included to present the simple facts of the moder charling. Sentiment, (noss)...

II. Single Movie Arralysis:

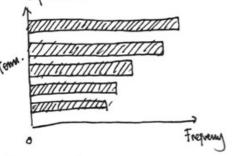
WordCloud

Word Cloud is a visually sotisfying representation of the overall feature of the script. Therefore, it is consider to be one wether for analysis.

Word-frequency Barglot.

The word-frequency plot shows the top is most frequent words in the script.

Top 15 woods in the movies



Barplot is 6400000 chosen as the main plot here because barplot is easy to read and understand. The frequencies are also more clear using the larplot.

The Imput

The input used to be a textinput where the movies mames one input by text.

Input the maile:

Joker I

However, it's combersome to type in the musics that have very long movie title. Also, used one not aware of the musice movies in the dataset. Anothe issue is that when theretains is no input in the textInput, there will be an error nessage in the platential area.

Therefore, we choose to substitute the text-input as a selector-input Owner a movie: whose the movie titles are easier

Joker Joker Sefen Fight Olwb - to solect, and more user-friendly.

III. Movie Comparison & Scritiment Arc.

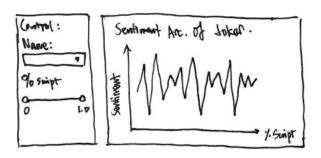
One of the central topics that we want to analyze is the change of soutinent tone within the script of a marie. In other used, the emotional are is what we want to create. However, emotioned are is hard to measure, these we decide to use southment Sware as the value to measure the change In the script tone.

* The idea comes from Nayouri Chibana's interactle visualization of anotional arcs of movie scripts.

III)

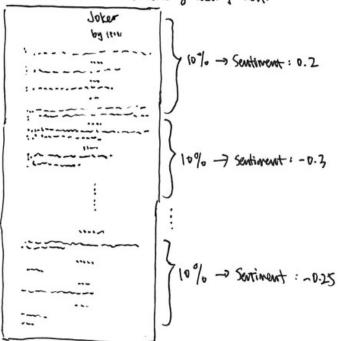
Implementation

The idea is very simple. The input is the movie name and a Slideriaport for the % of saipts included in the plot.



The sentiment score measurement:

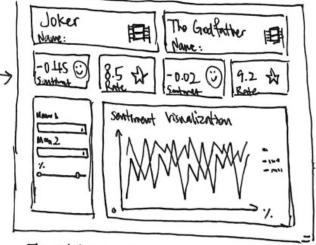
The move script is divided by perentage into 20 equal portions. and calculate the southment some of each portion.



Soutiment Analysis Method:

The sentiment Analysis method utilized is the Hux Lin Sentiment dictionary. The value of of Scritment score is calculated by the following formula: positive.court - negative count Positive. com+ + reguline.com+ = Soutinent. Score.

However, the vivualization rout of one movie is too simple, We devide to add another move as input to make a companion on the two mains. With valuebox to indicate the many sentenent sure and rating.



The Valuebox one illustrating the rating and overall sentiment score, comparing between two movies.

The % of script input can only take certain Values: (0, 0.05, 0.1 ... 0.95, 1.0) Shee the suipts are divided into 20 purs.

To further analytice the script, more portions can be created to shoothen the line.

Gonne

It rew input gence is later adobt to the input section. The genne only include the first and the primary genne of each noise, because otherwise, there will be too many gennes and certain gennes, such as "Film-Noir" only contains a small number of moises, which may not be available for comparison.

Soutiment Are Coone Soutiment Sore by Come #12 Made % Soutiment Sore by Come Growne Growne

* limitation: Some gonres have too many movies, making the plot too messy for analysis.

II. Dueran Scatiment 15. Rating difference.

The initial thought is to plat a sentiment score vs. Pating, but the dataset only collects marie on the IMDB top 250. The plat not be accurate or meaningful under this limitation on the data collection pures. Therefore, we chose the orthog difference between ontic & audience as the x-axis and sentiment score as y-axis. The pating difference is coloniated by dataset subtenting IMDB rating-contact parties.

The layout would just be a graph without any control input. The reason is that we only have 46 movie scripts from the impolls. can and thus 46 sentiment scores to visualize.

The size of the bubble plotly is the gross box office.

Layout of the plot:

