Data:

We retrieve the data from:

https://www.kaggle.com/deepmatrix/imdb-5000-movie-dataset

The data is in a csv format, it contains variables for 5043 movies. Below are the 28 variables:

```
"movie_title" "color" "num_critic_for_reviews" "movie_facebook_likes"

"duration" "director_name" "director_facebook_likes" "actor_3_name"

"actor_3_facebook_likes" "actor_2_name" "actor_2_facebook_likes"

"actor_1_name" "actor_1_facebook_likes" "gross" "genres"

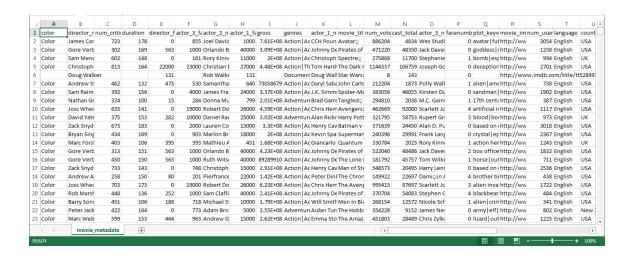
"num_voted_users" "cast_total_facebook_likes" "facenumber_in_poster"

"plot_keywords" "movie_imdb_link" "num_user_for_reviews" "language"

"country" "content_rating" "budget" "title_year" "imdb_score"

"aspect_ratio"
```

The marked data attributes were used in our visualization the ones we used in order to show a simpler and comprehensible visualization for the users. These several attributes were used in multiple visualizations, in which we will discuss later in the next sections.



Problem number 1:

The Variables that we are trying to plot is the related movies to the three genres and there scores

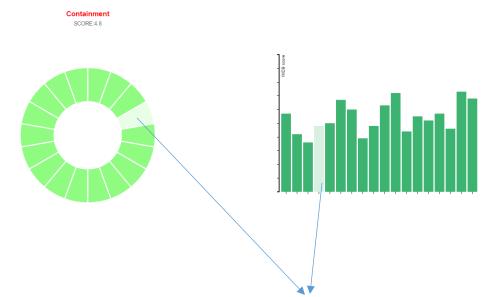
So the problem is that graphs that use data points or lines to encode data, multiple objects ends up sharing the same space and then the data is no more comprehensive, because one can't see individual values.

Solution:

We Change the shape of data objects, by categorizing the data regarding there 3 first genres, and then we plotted the movies that related to these genres, and there IMDB scores in a bar-chart graph.

Genre 1:Action
Click in the center to zoom in
Click on the ar to zoom out

Genre 1:Horror, Genre 2:Thriller, Genre 3:Sci-Fi



The same movie

Problem number 2:

We are trying to plot the distribution of the genres for a specific year

Solution:

We used pie chart to show the genres distribution of the year, and a different color for each genre. And a histogram chart to choose a year on hovering over it, the height of the bar in the histogram is the number of movies in that year.

