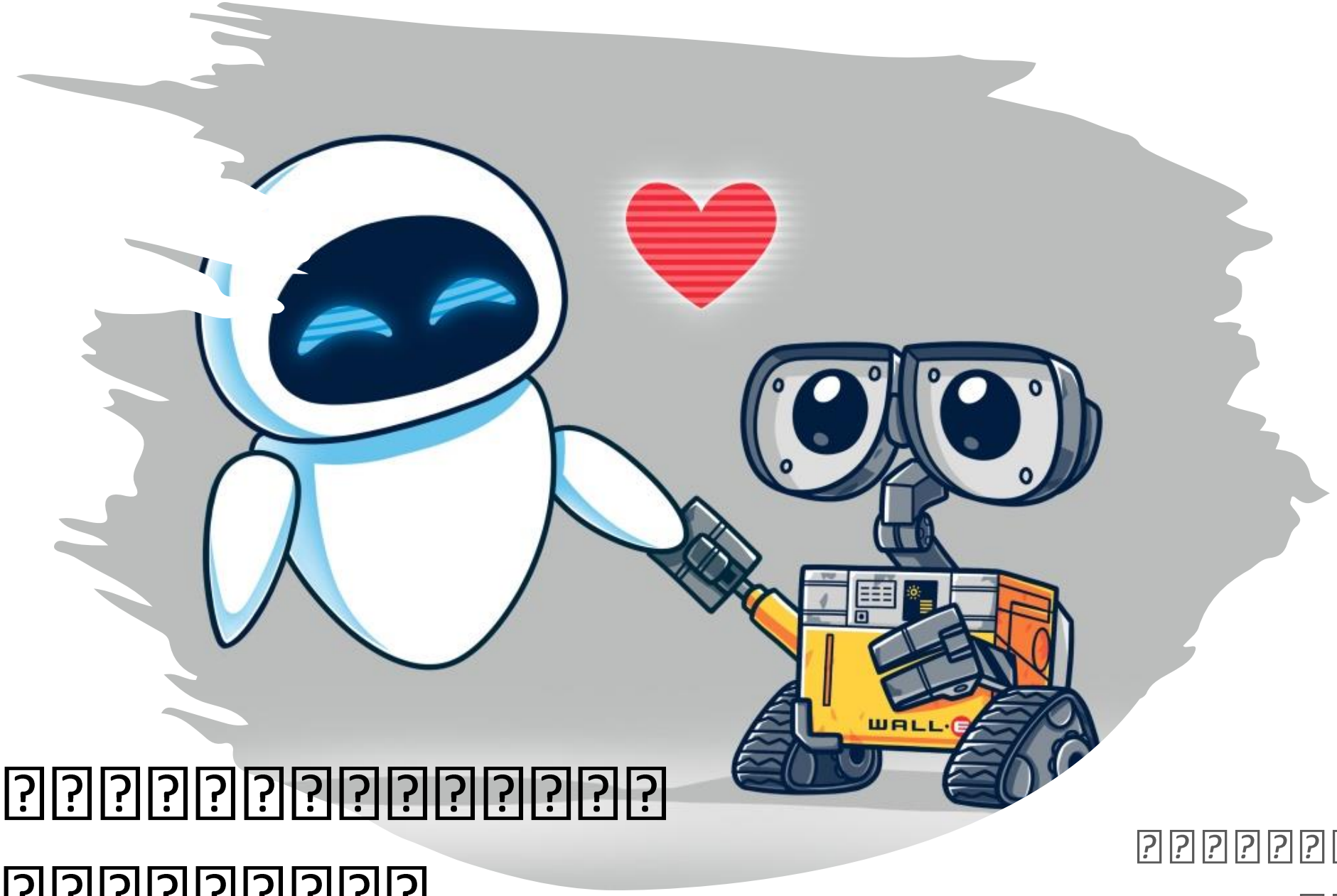
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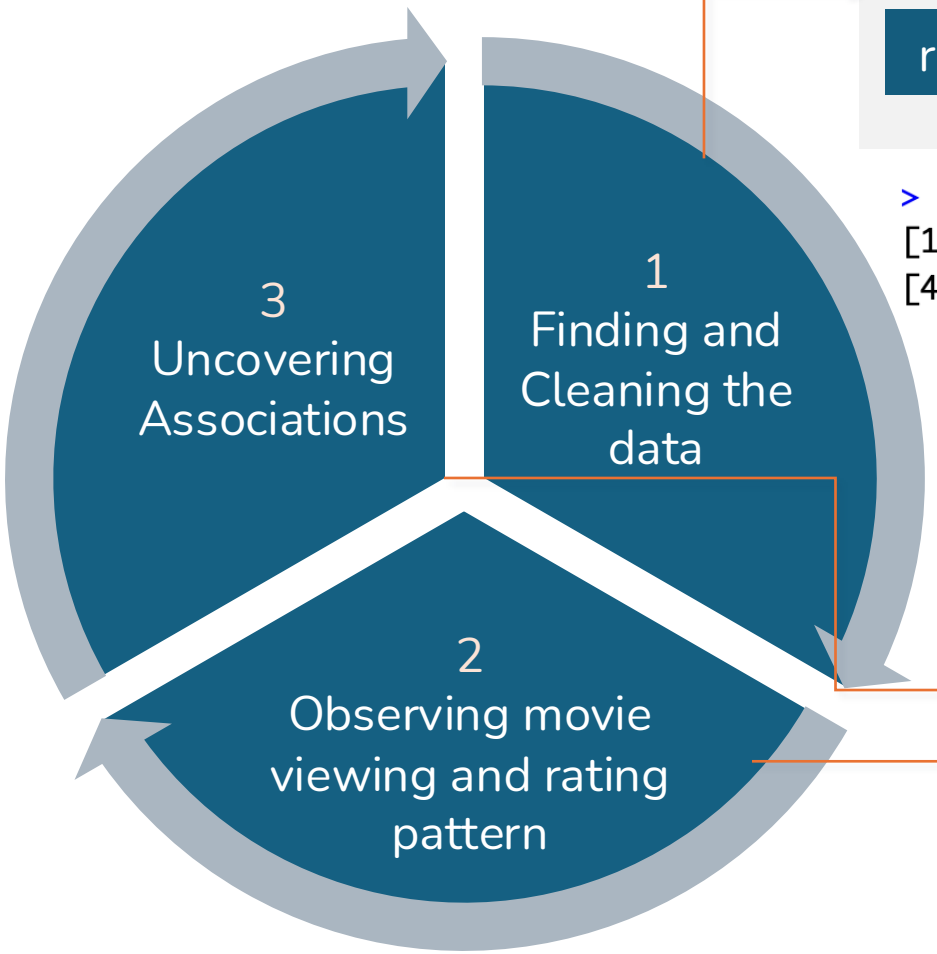
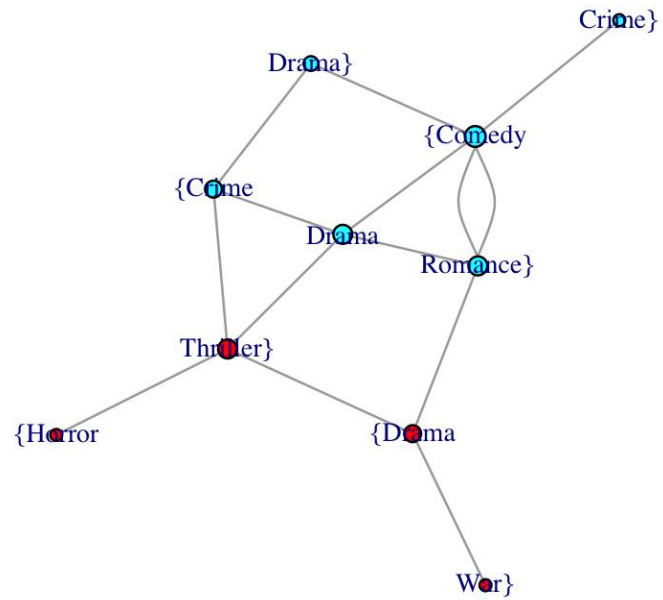
How it works



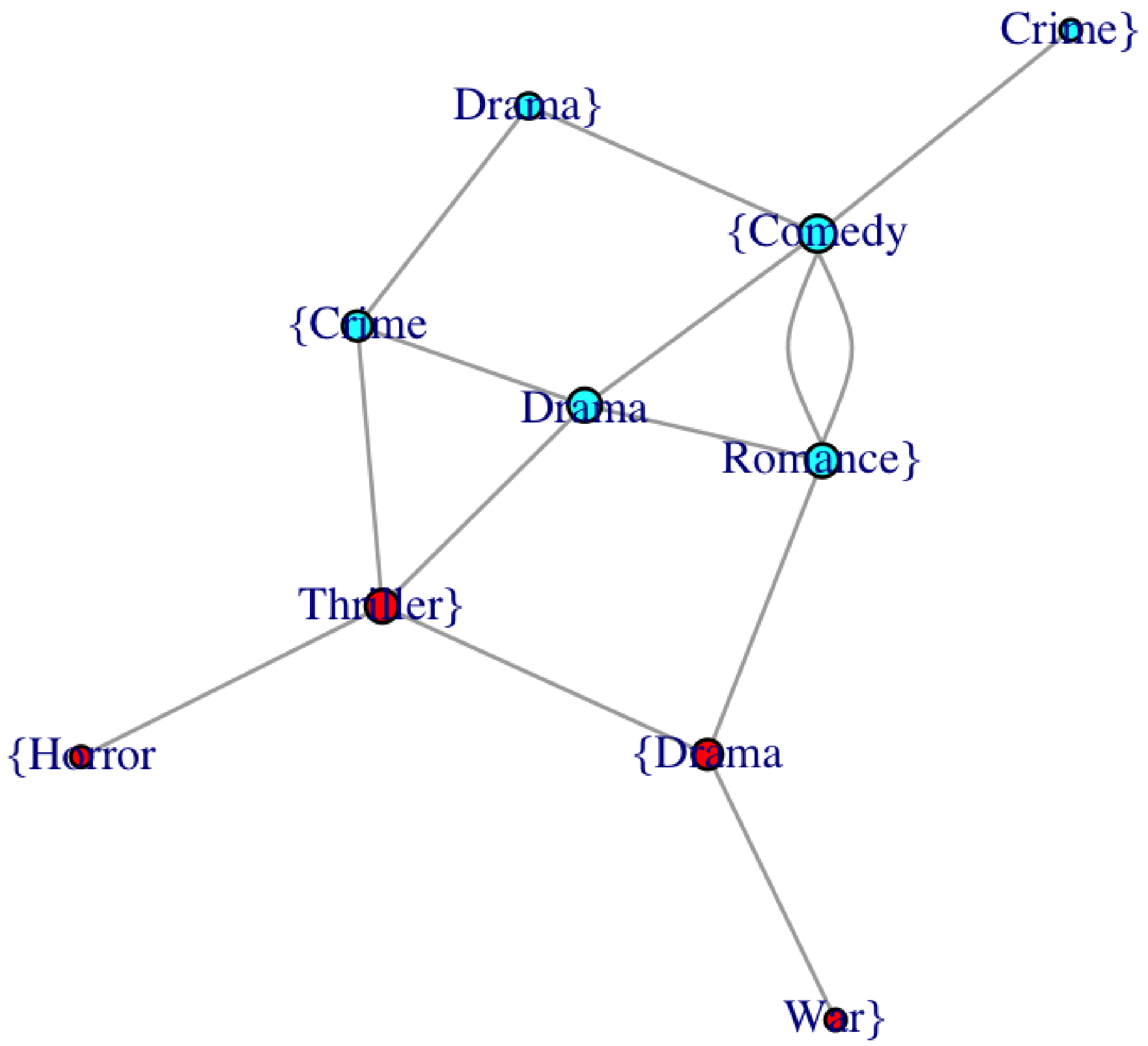
movies.csv	movieId	title	genres

ratings.csv	userId	movieId	rating	timestamp

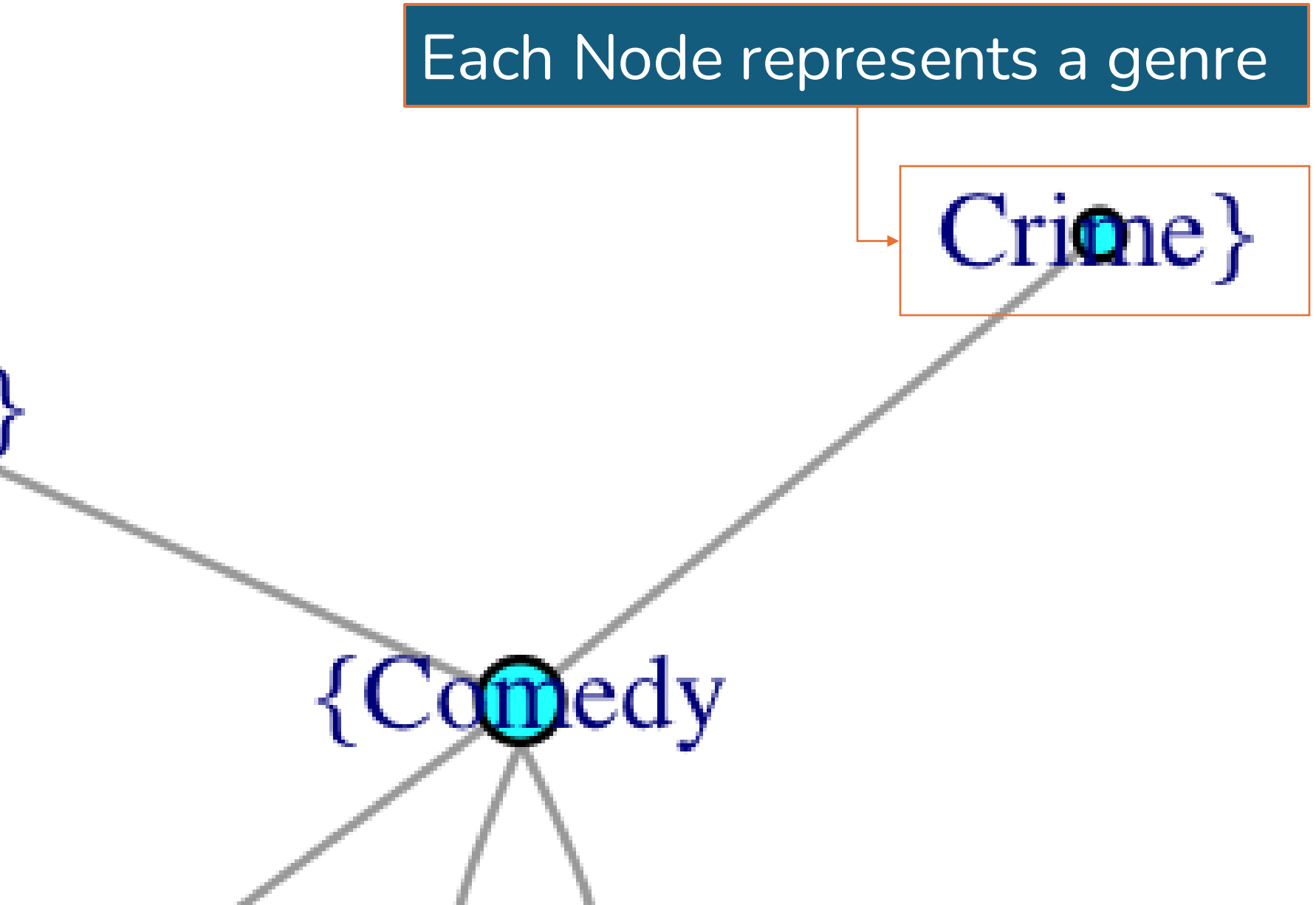
```
> head(genre_combinations)
[1] "{Comedy,Crime}"          "{Drama,War}"          "{Crime,Drama,Thriller}"
[4] "{Crime,Drama}"           "{Horror,Thriller}"    "{Horror}"
```

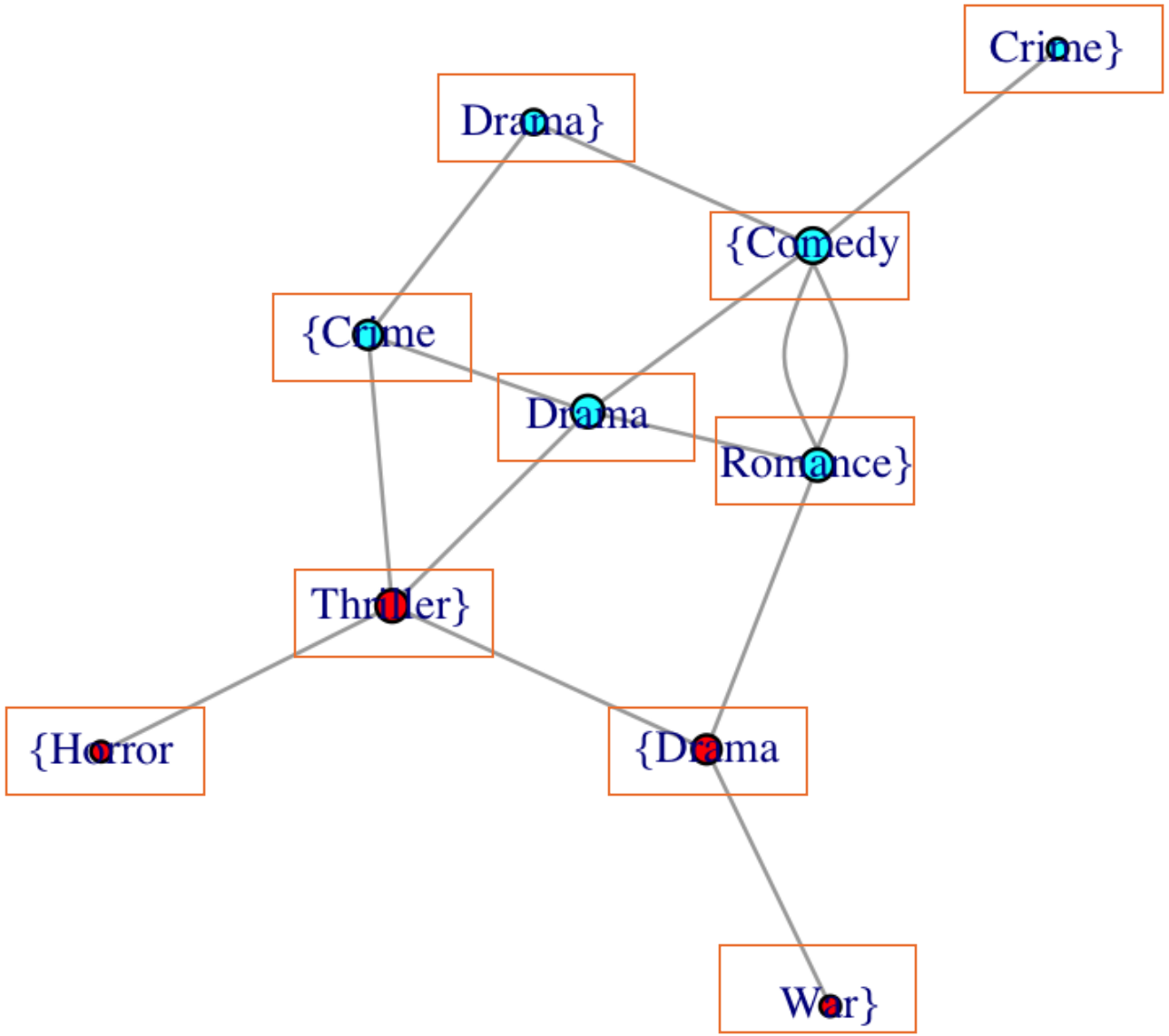


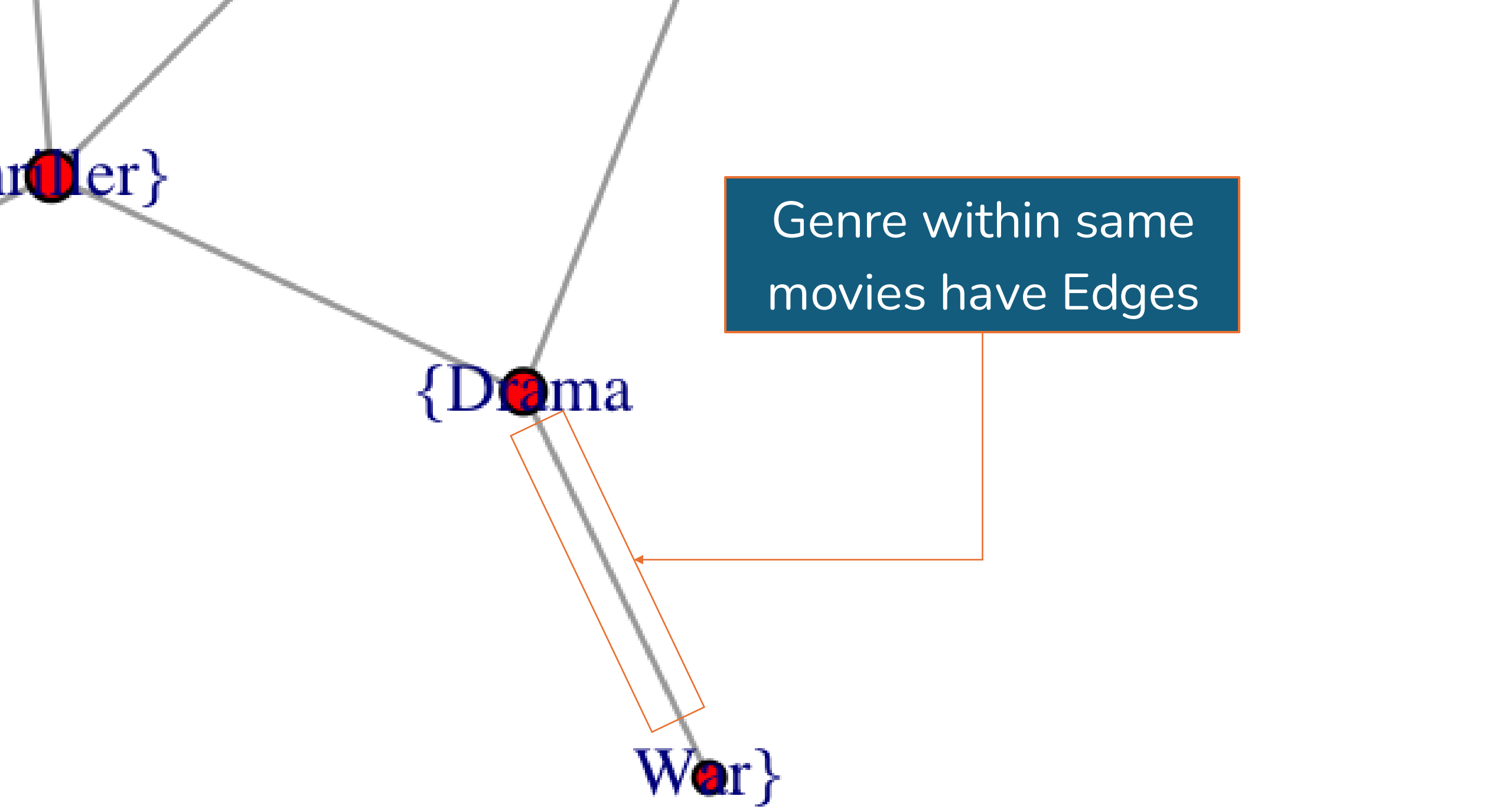
[illegible]

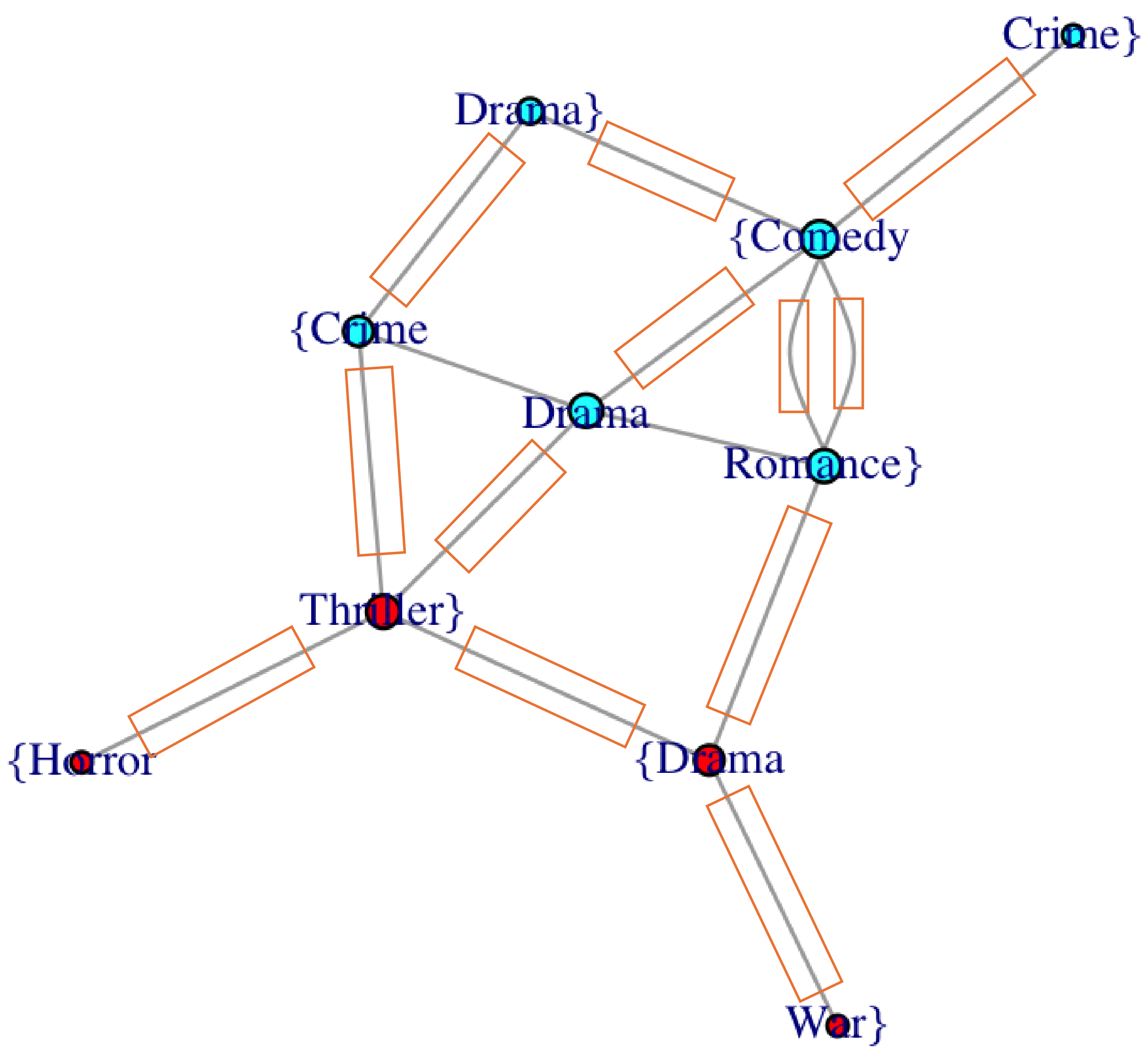


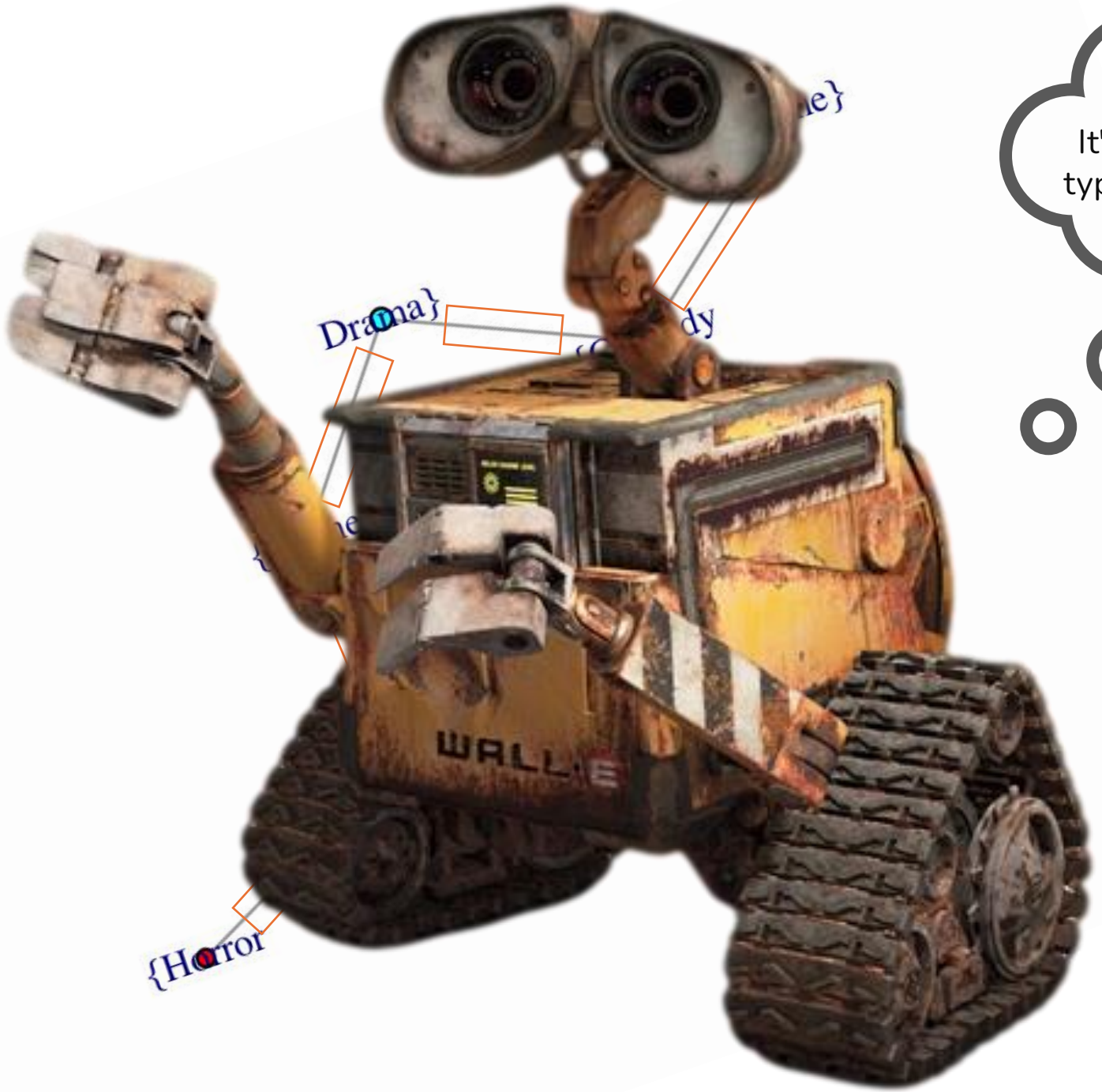
Crime}
Drama}
{Comedy
{Crime
Drama
Romance}
Thriller}
{Horror
{Drama
War}


Each Node represents a genre
Crime}
{Comedy


Crime}
Drama}
{Comedy
{Crime
Drama
Romance}
Thriller}
{Horror
{Drama
War}


Genre within same movies have Edges
{Drama
War}


Crime}
Drama}
{Comedy
{Crime
Drama
Romance}
Thriller}
{Horror
{Drama
War}



It's like all these movie types are holding hands. Eva...

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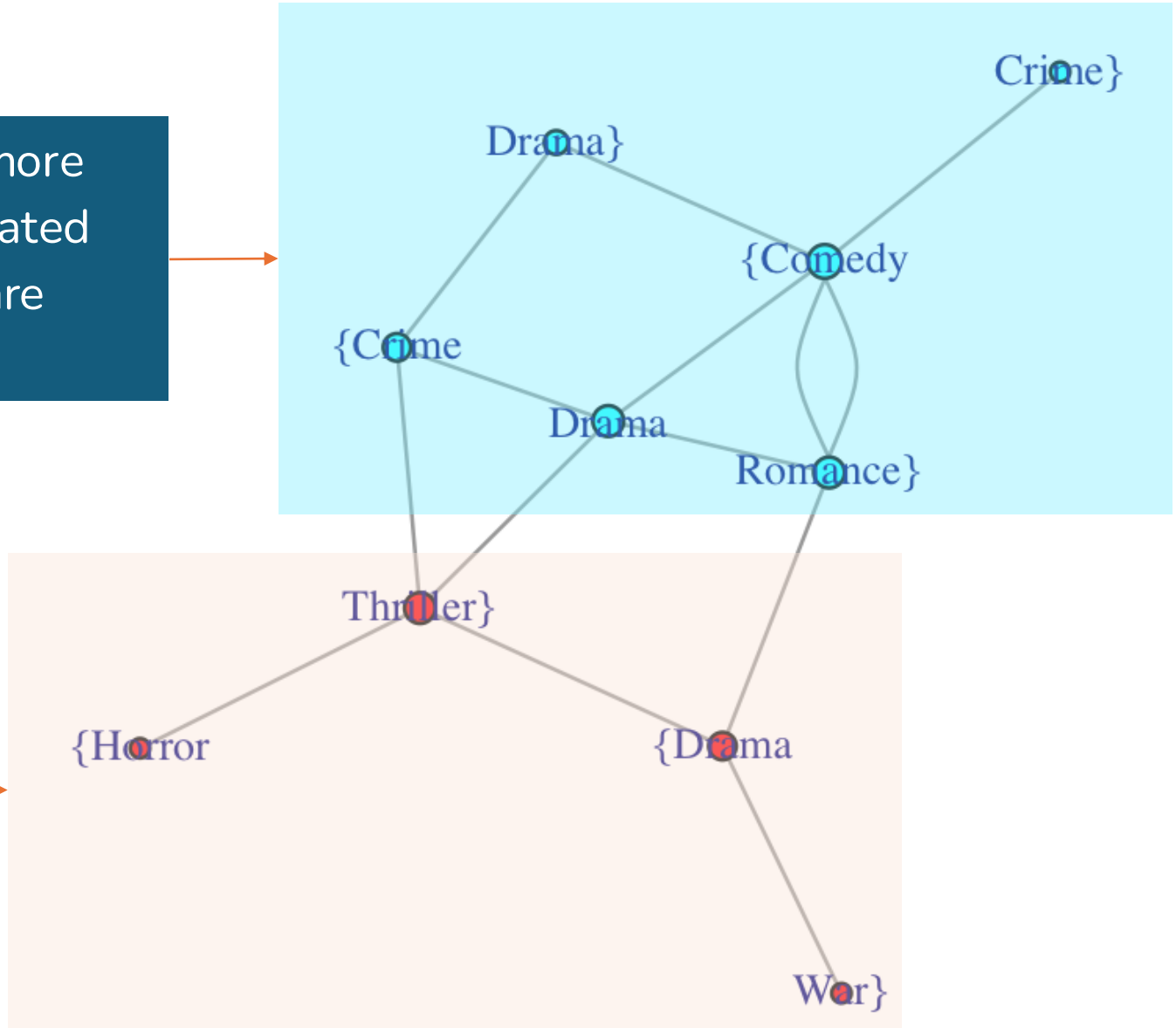
Genres that are more frequently associated with each other are colored similarly



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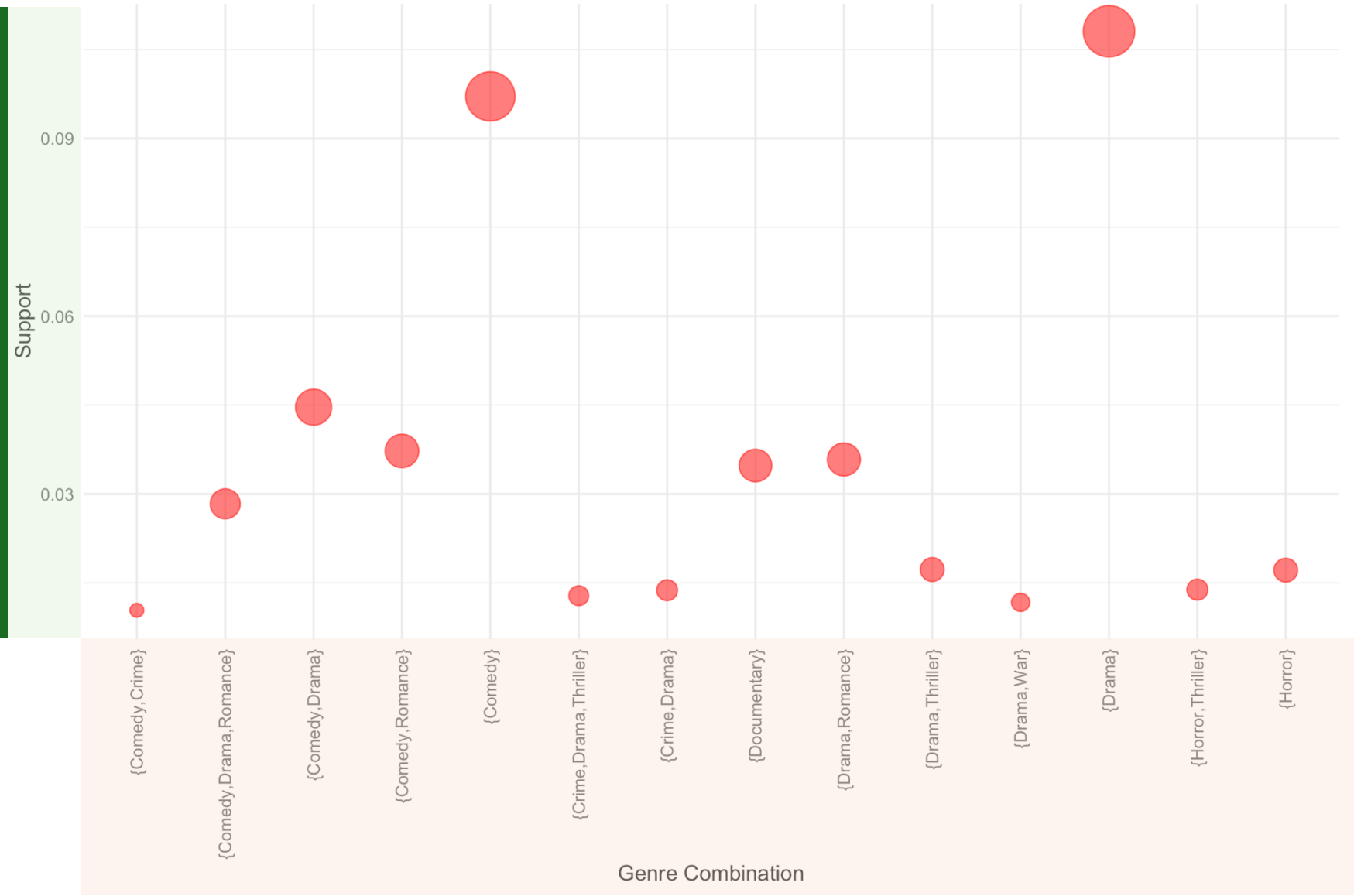
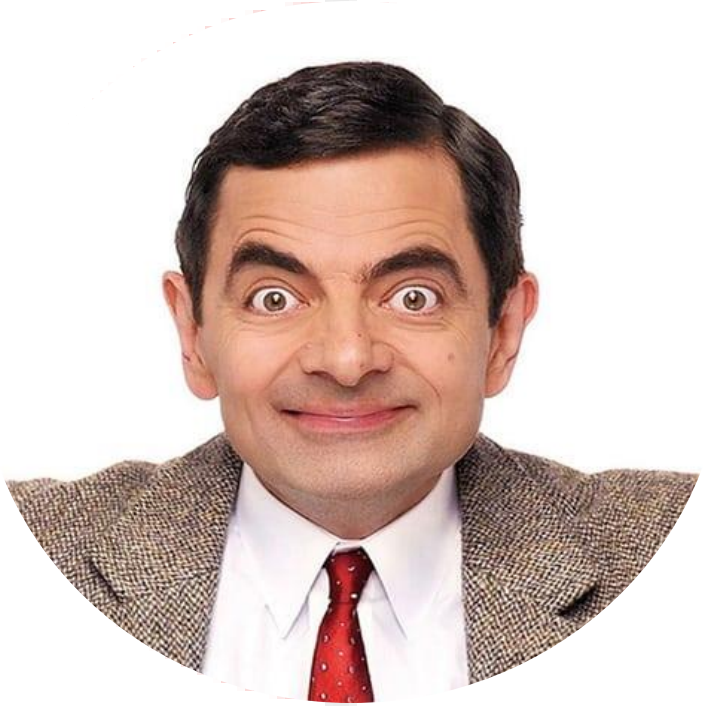
In simple terms, like the popularity or frequency of each genre combination within the dataset

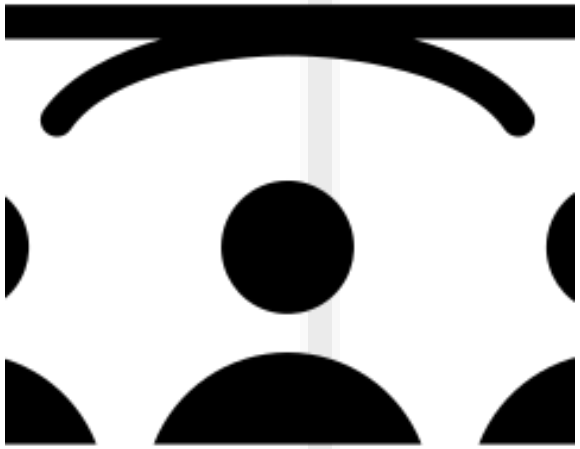


Size of the bubble represents the actual number of times the genre combinatio n

Each point represents unique Combination of genre



Genre: Comedy
Movie: Bean (1995)



User number: 51

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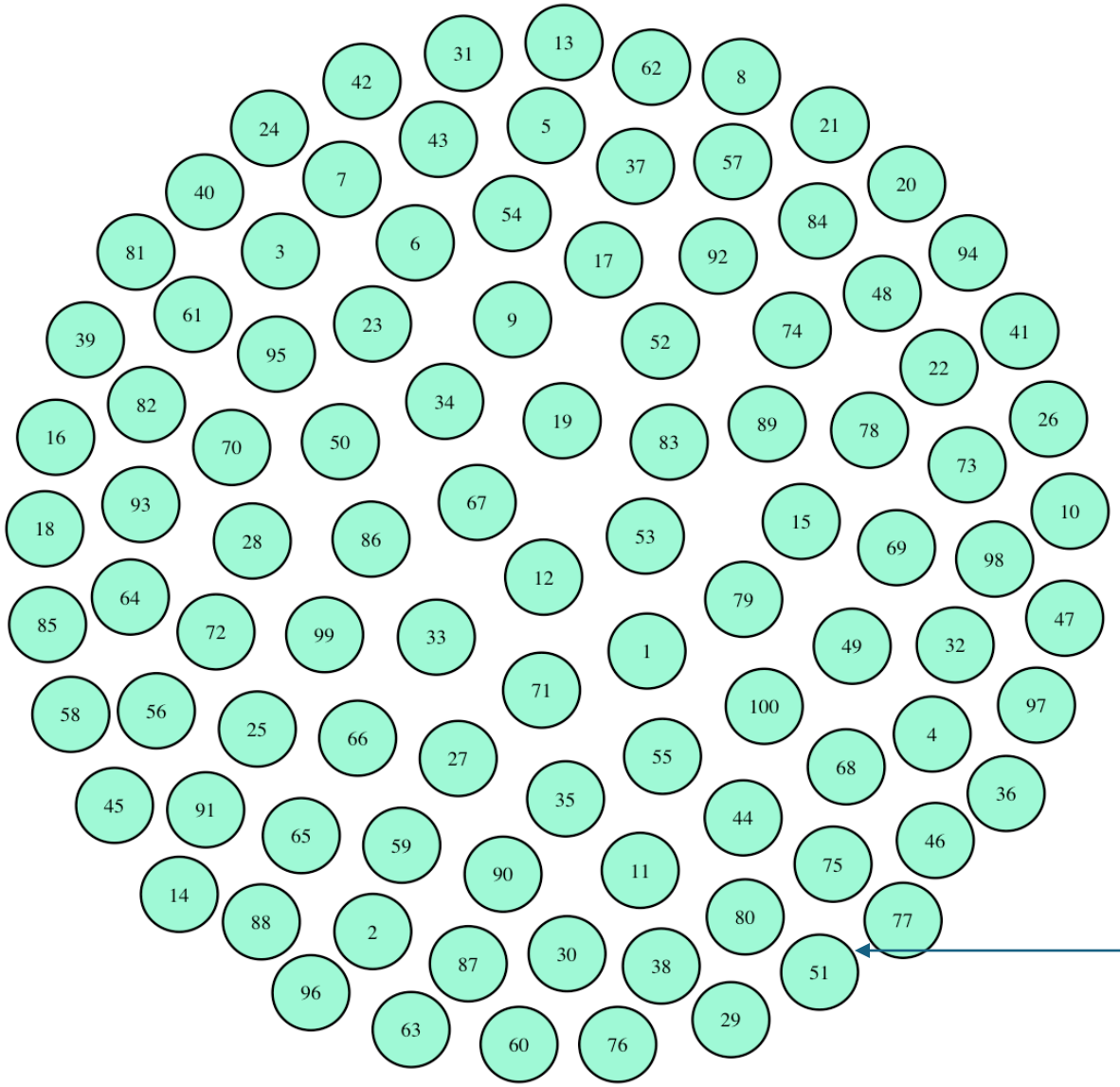
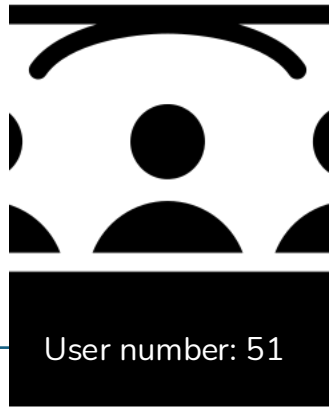
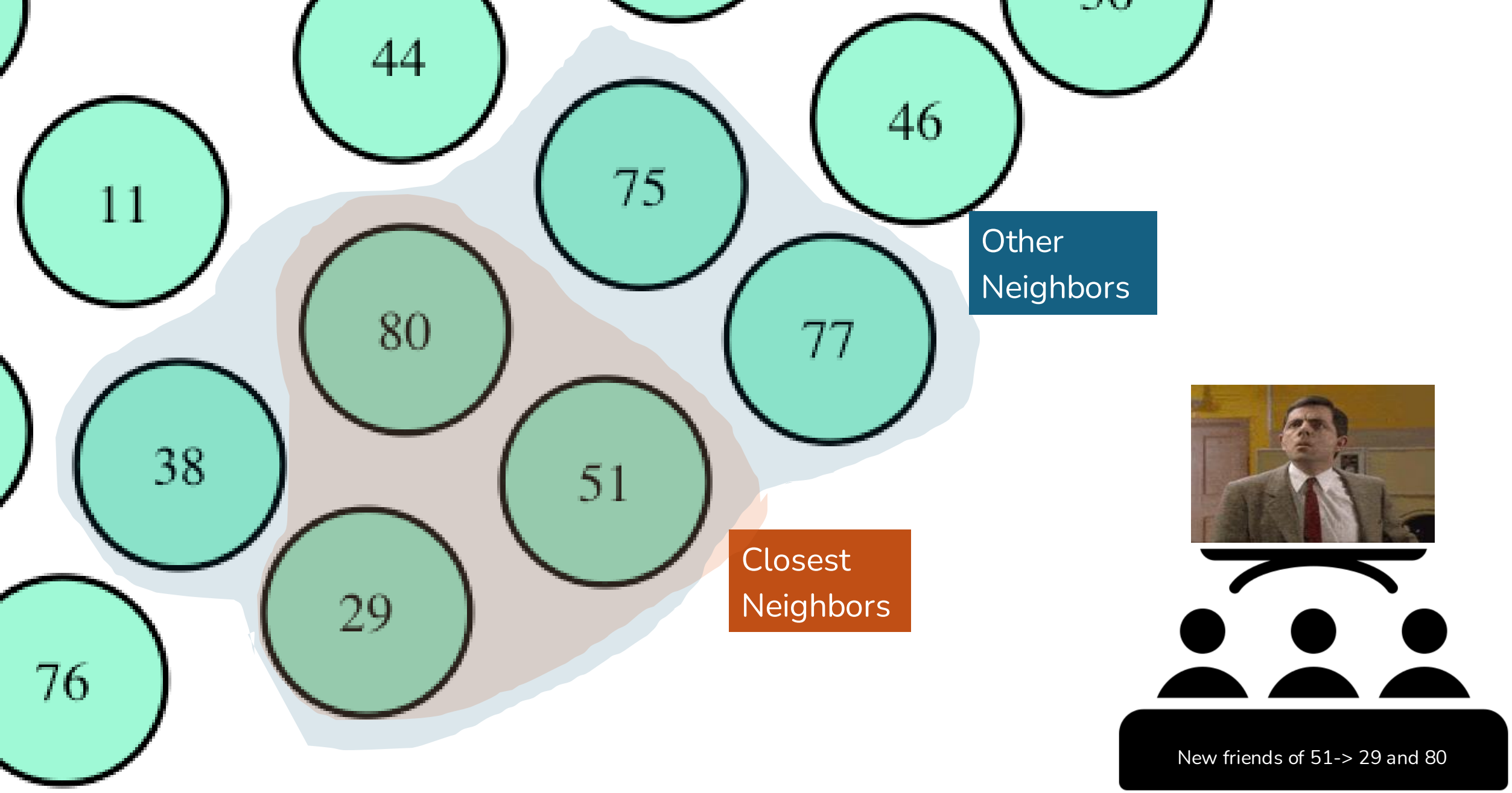


Nearest neighbours is like finding the closest friends who have a similar movie preference as you.

Here each number represents a person, and the neighbors tend to the have a similar genre preference.



User number: 51


44
46
11
75
Other Neighbors
80
77
38
51
Closest Neighbors
29
76

New friends of 51-> 29 and 80

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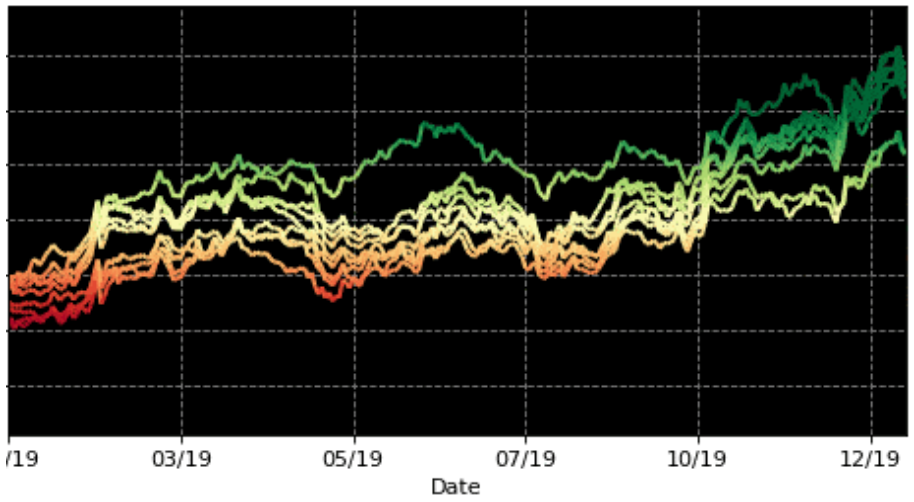
- **Time Series Analysis:** Analyze ratings over time to see how preferences change, which could lead to dynamic recommendations that evolve with trends.

- **Meta Data:** Incorporate movie metadata (e.g., director, cast, description) and use text mining and natural language processing to recommend movies similar to those a user likes.

- **FP-Growth Algorithm:** We could use the FP-growth algorithm, which is generally faster than Apriori and does not generate candidate sets explicitly, thus improving the efficiency of the model.



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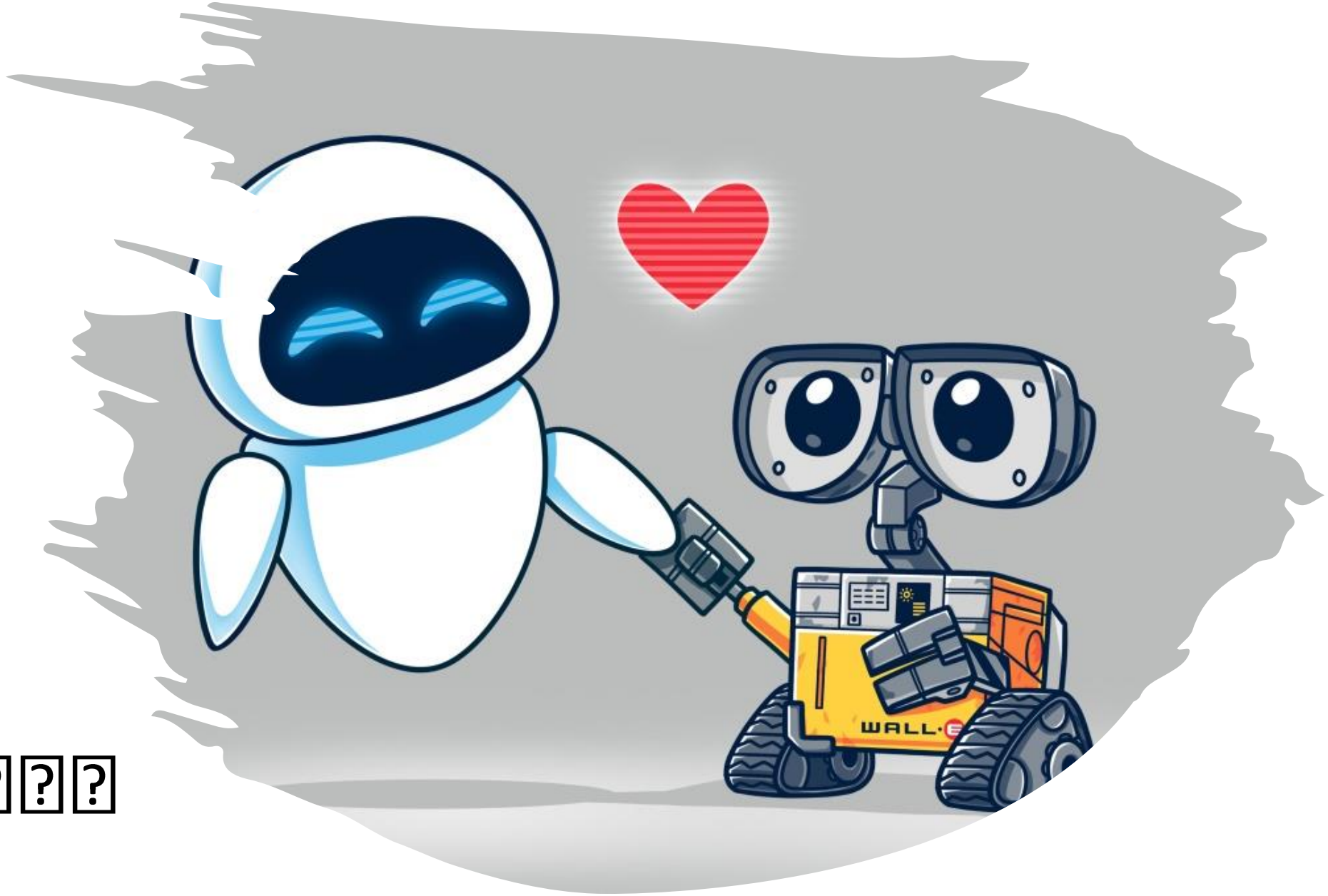
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