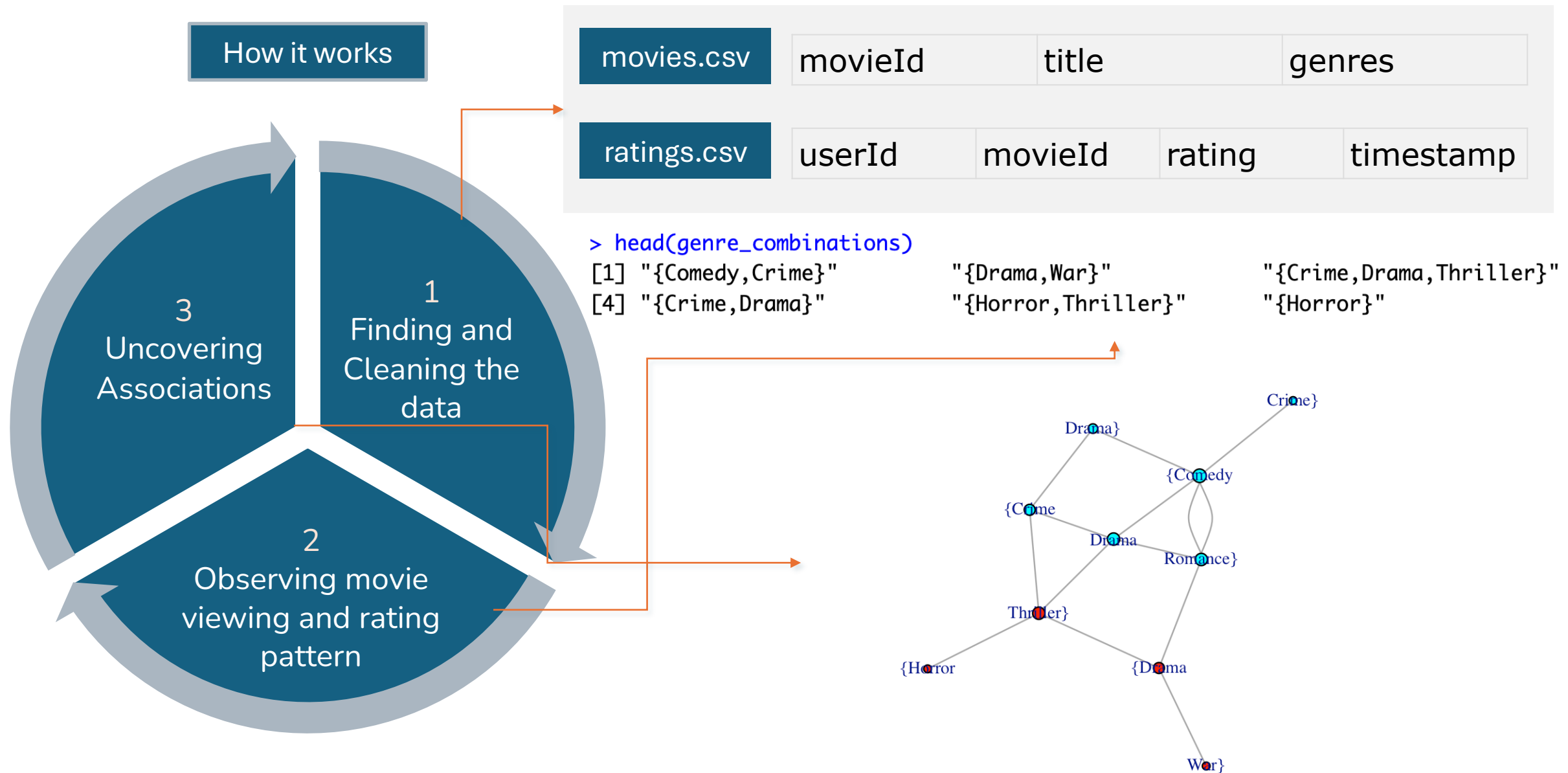


Finding the right movie  
partner

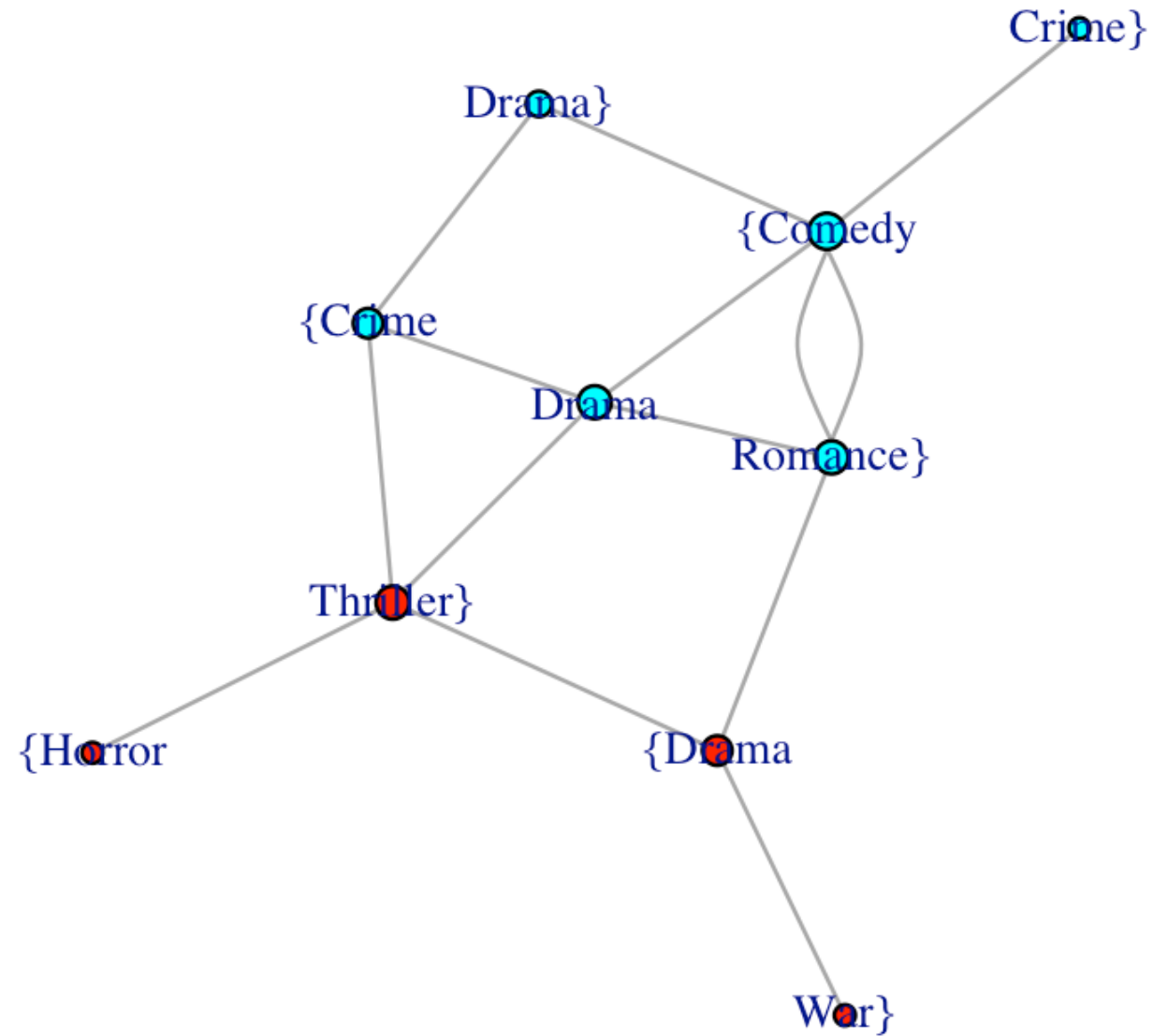
*A Data-driven approach*

# How it works



## Interpreting the result of Enhanced Network of Genre Combinations

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Each Node represents a genre

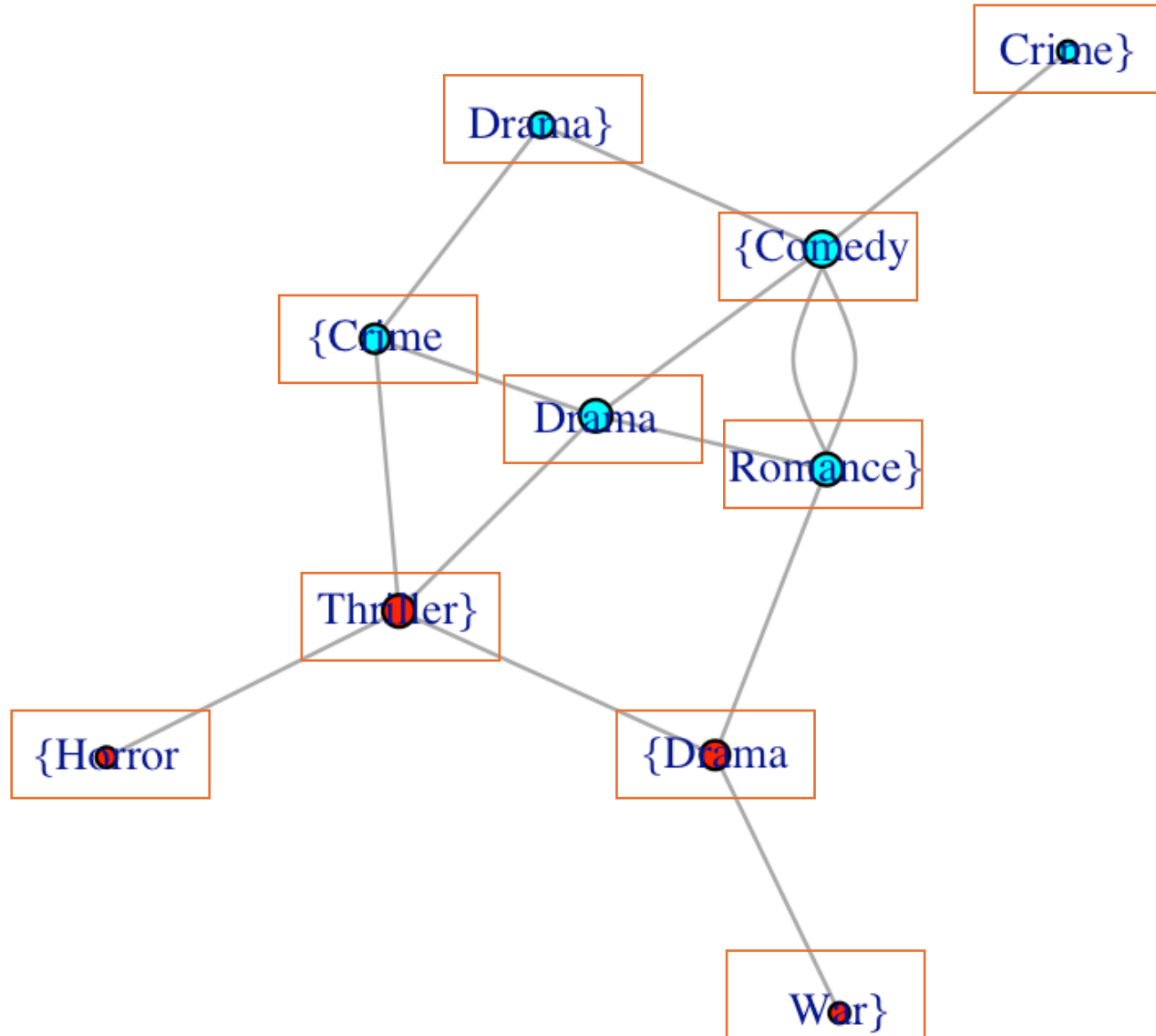
Crime}

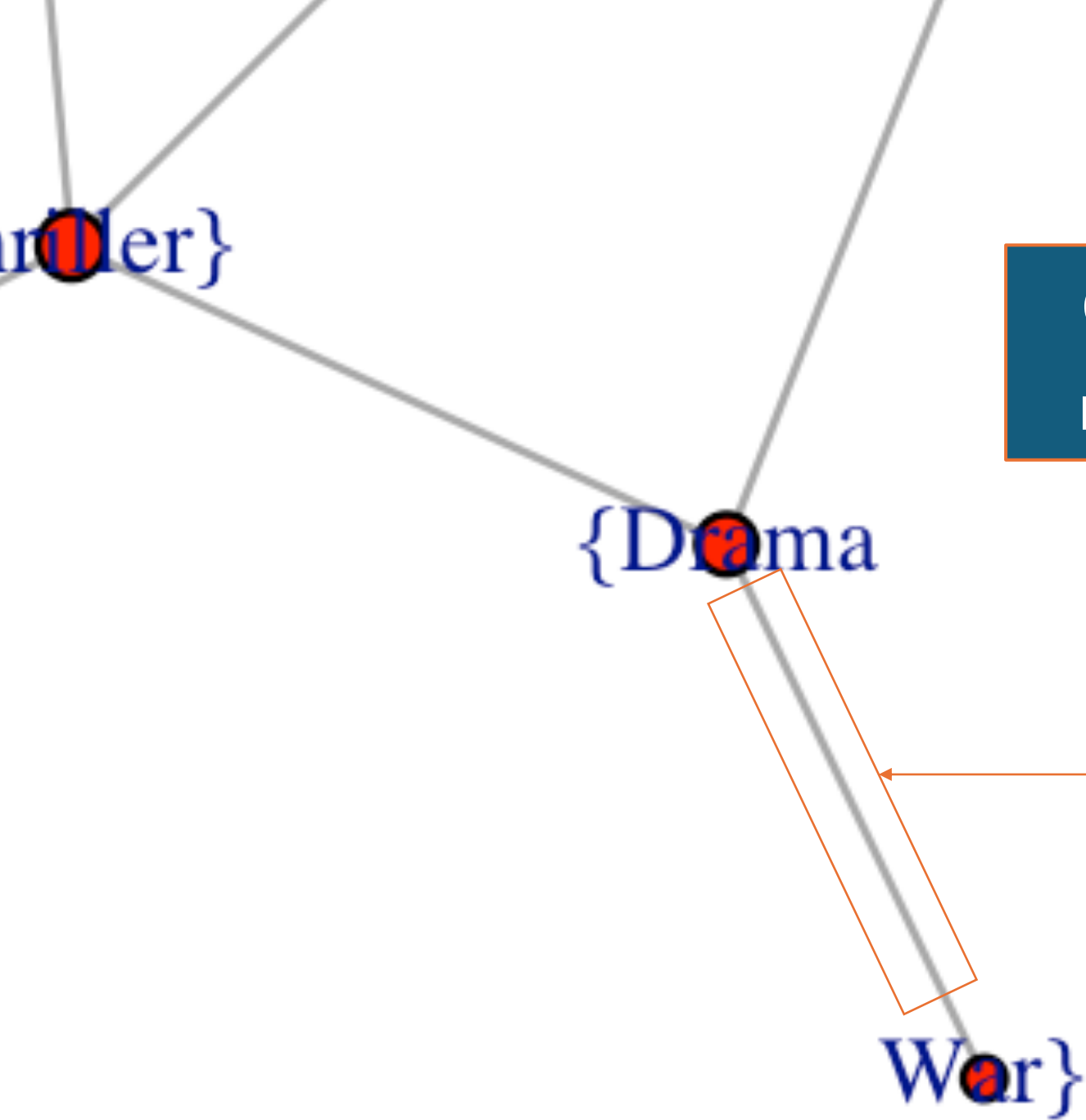
{Comedy



## Nodes are Movie Genre

---

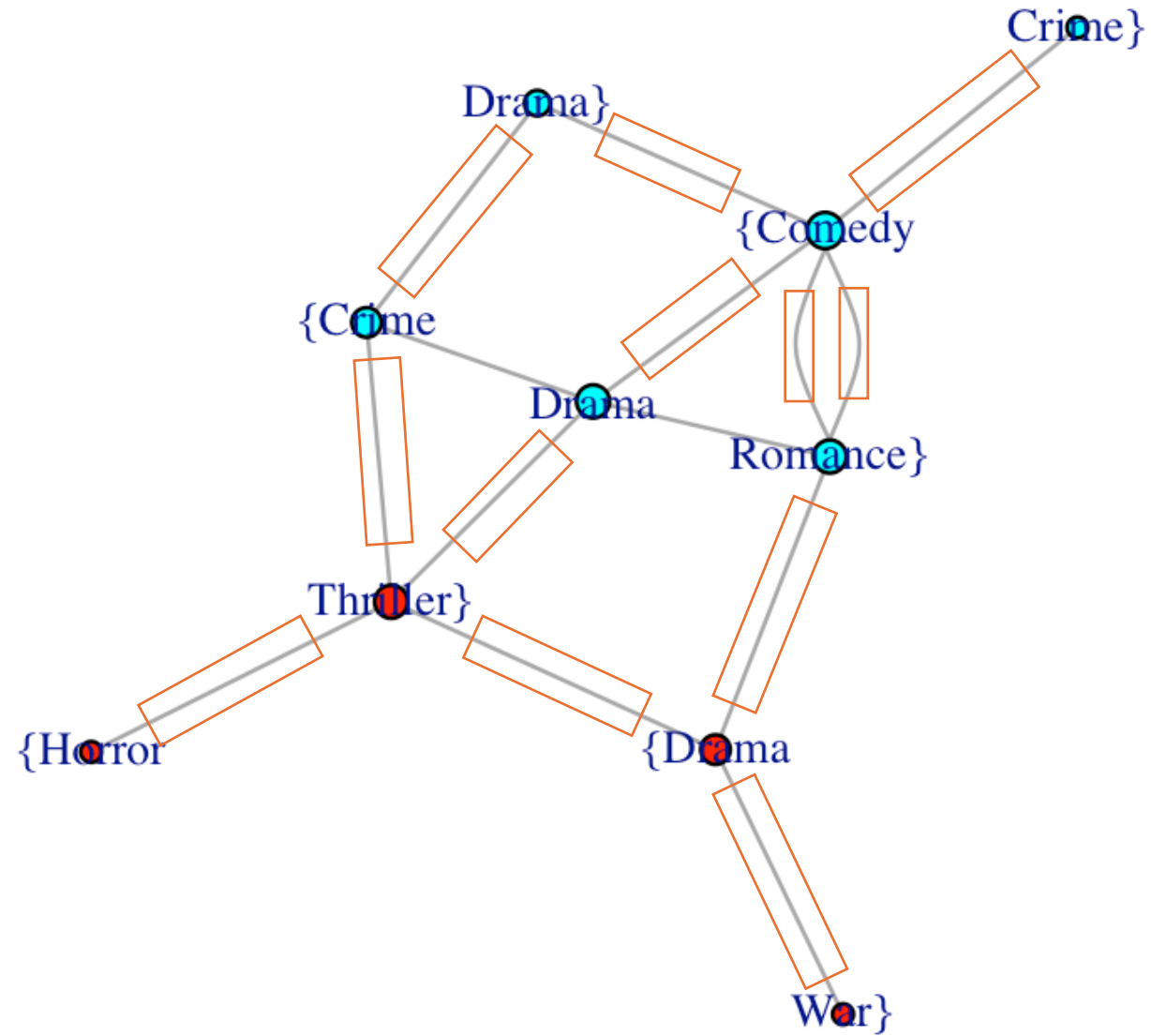


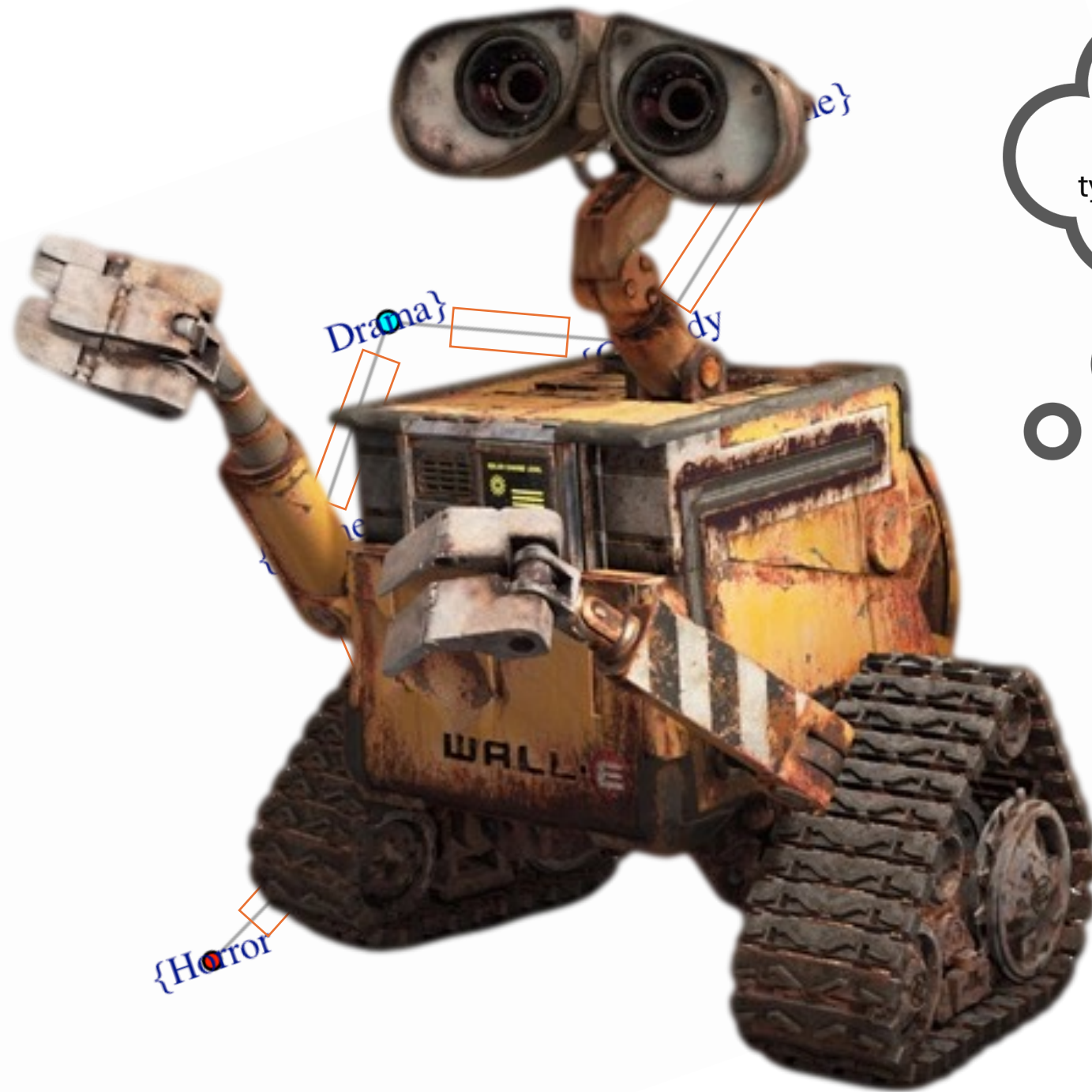


Genre within same  
movies have Edges

Edges are genre within same movies

---





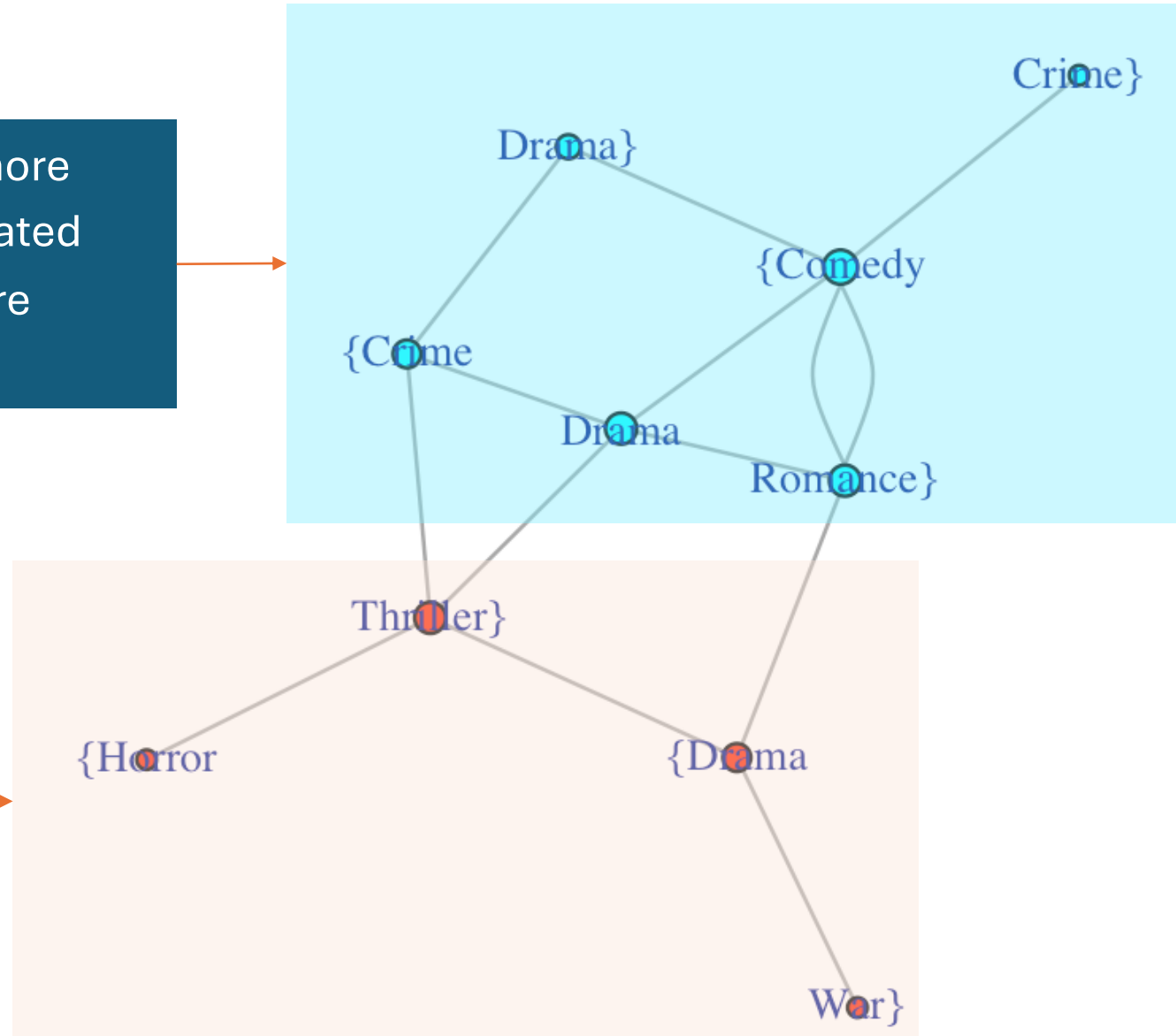
It's like all these movie  
types are holding hands.  
Eva...



## Detecting communities within genre

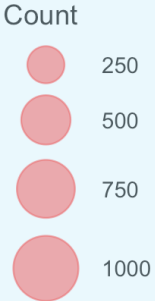
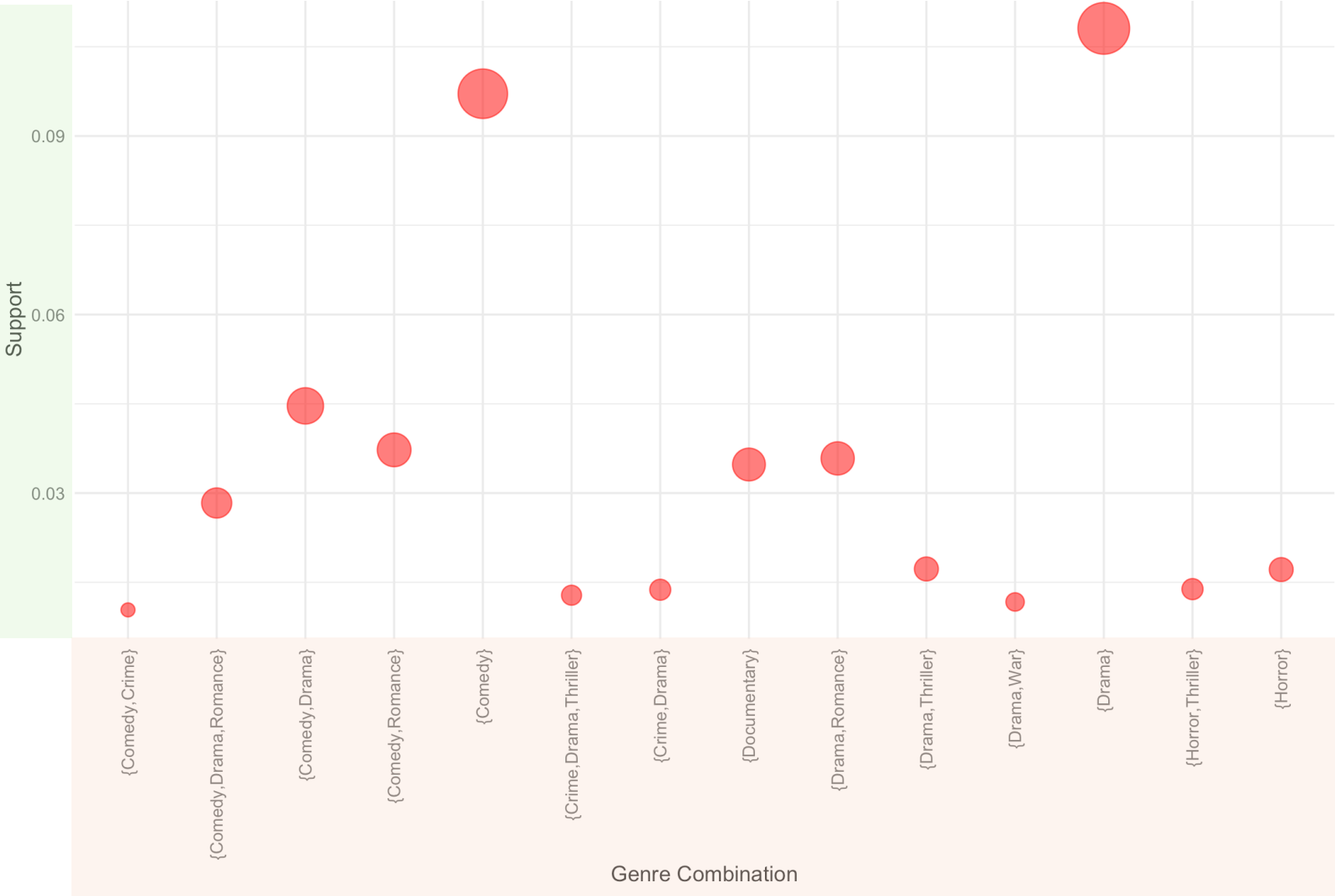
---

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



# Bubble Plot of Frequent Genre Combination

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

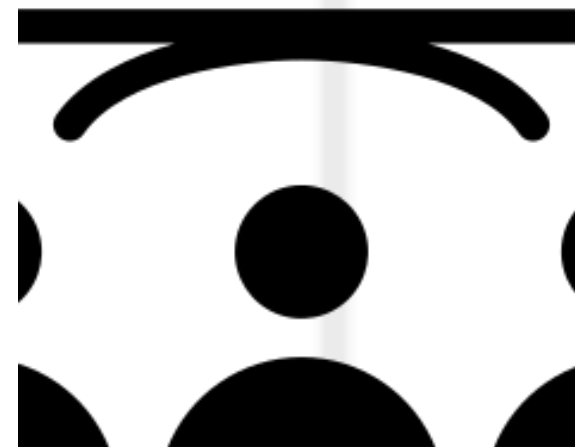
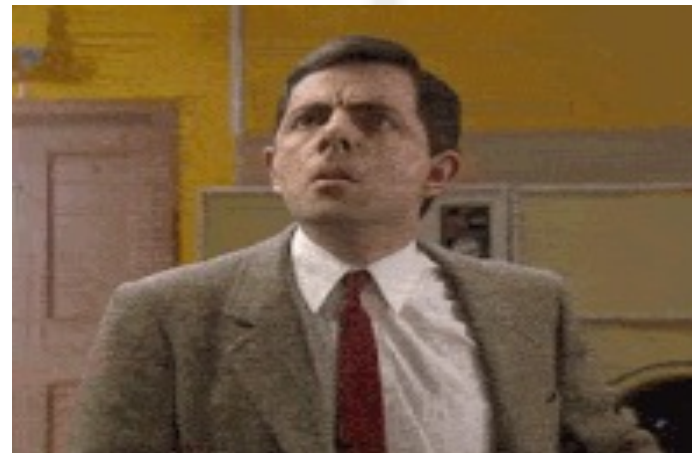


Size of the bubble represents the actual number of times the genre combination

Each point represents unique Combination of genre

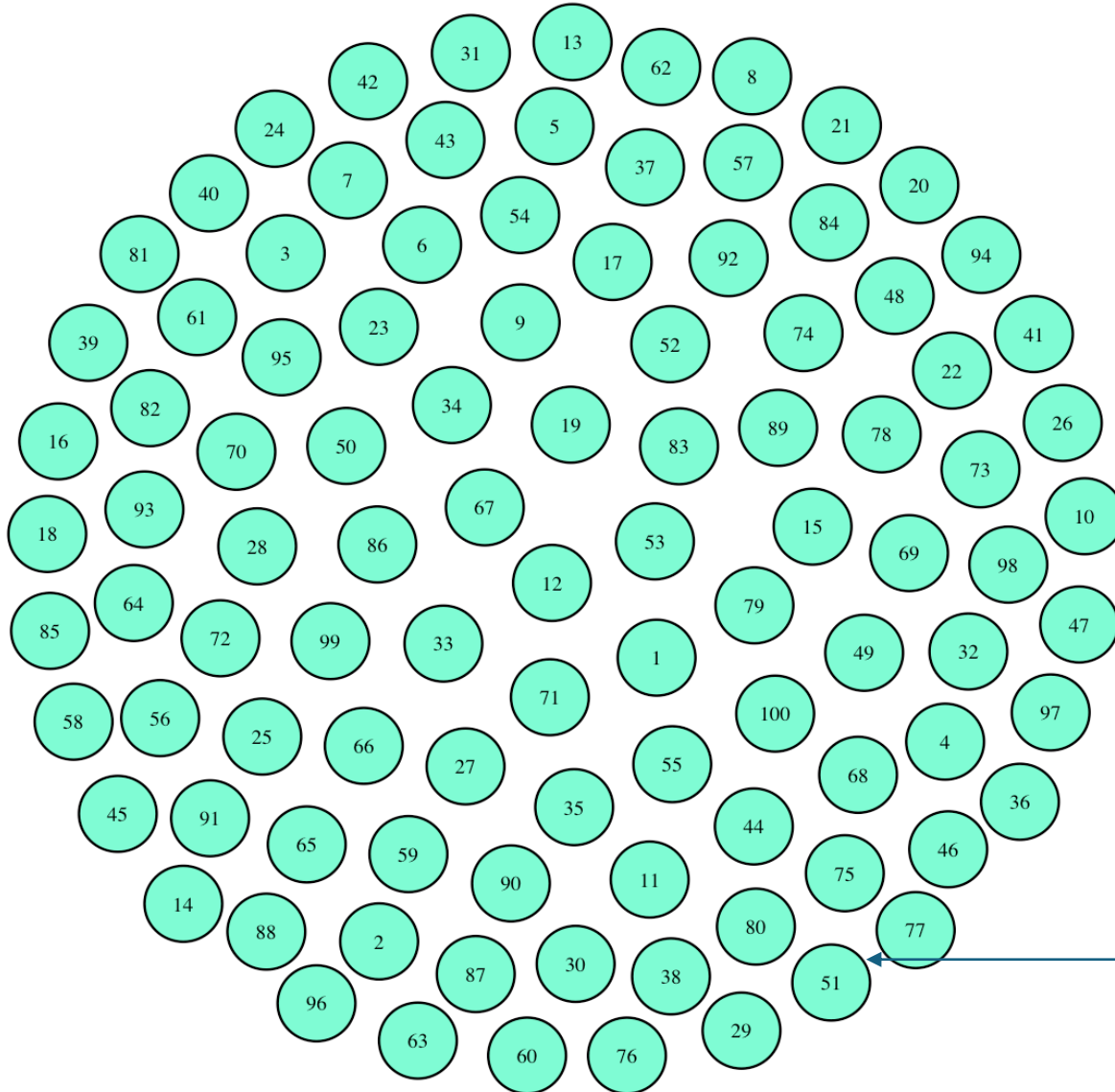


Genre: Comedy  
Movie: Bean (1995)



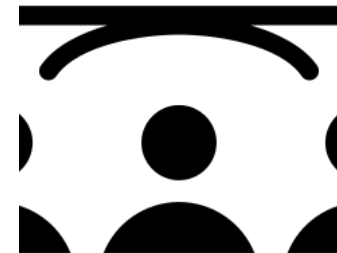
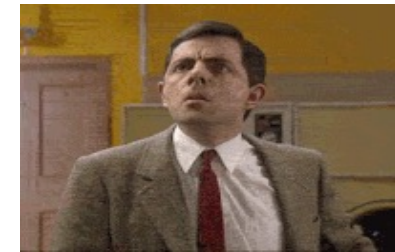
User number: 51

# Nearest Neighbor Graph

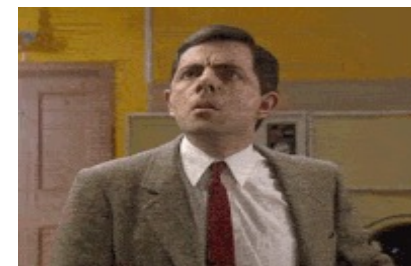
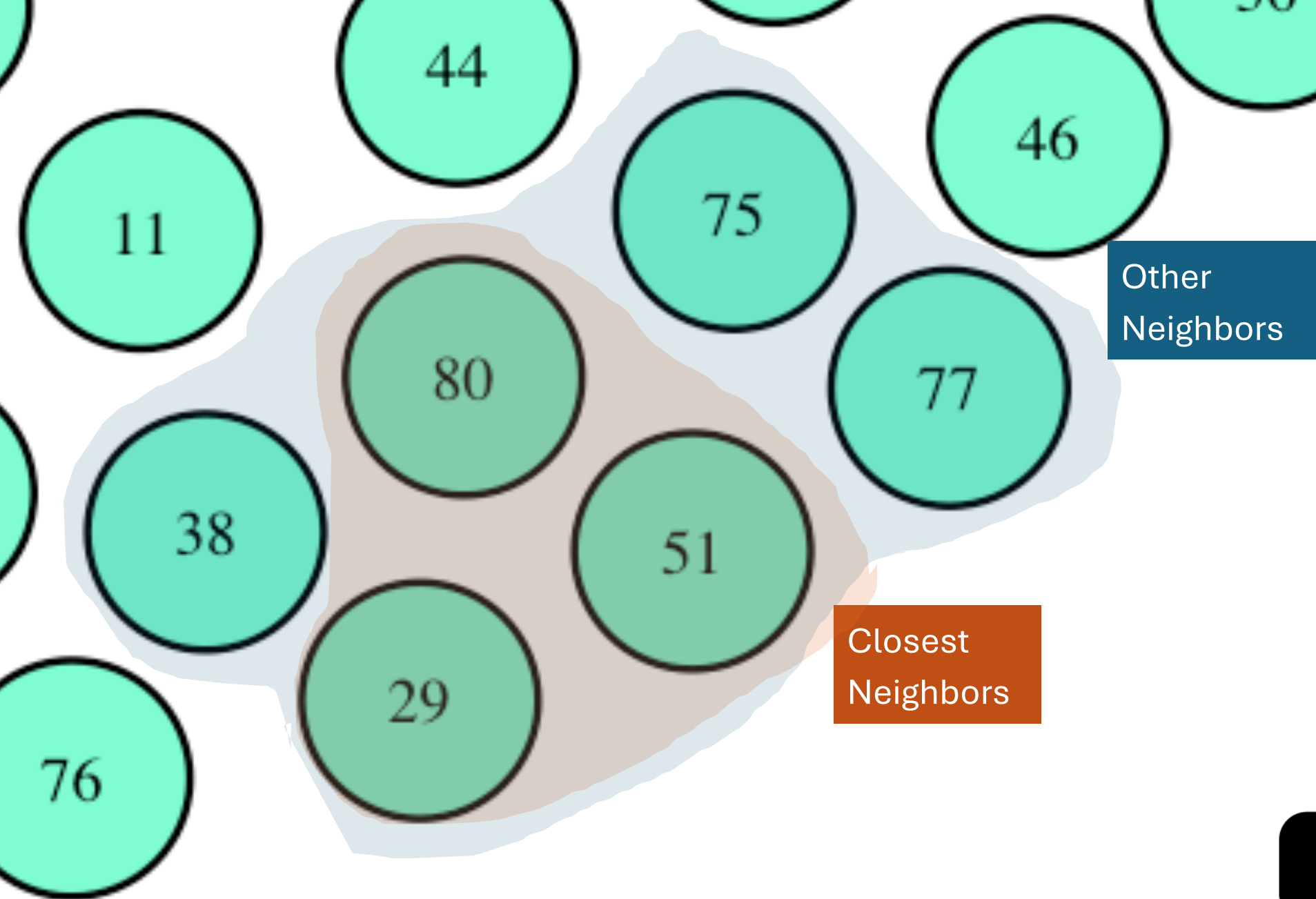


Nearest neighbours is like finding the closest friends who have a similar movie preference as you.

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



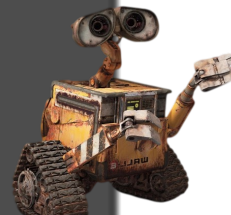
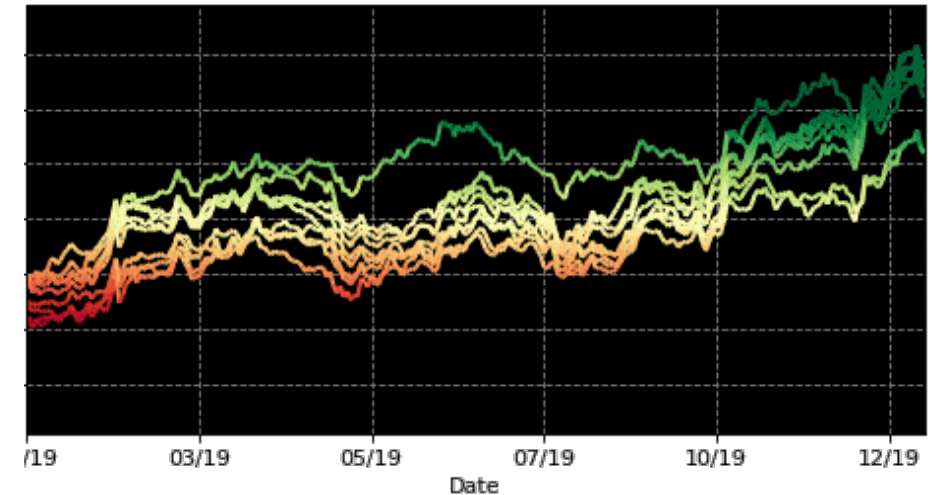
User number: 51



New friends of 51 -> 29 and 80

## How our model can be further extended

- **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.



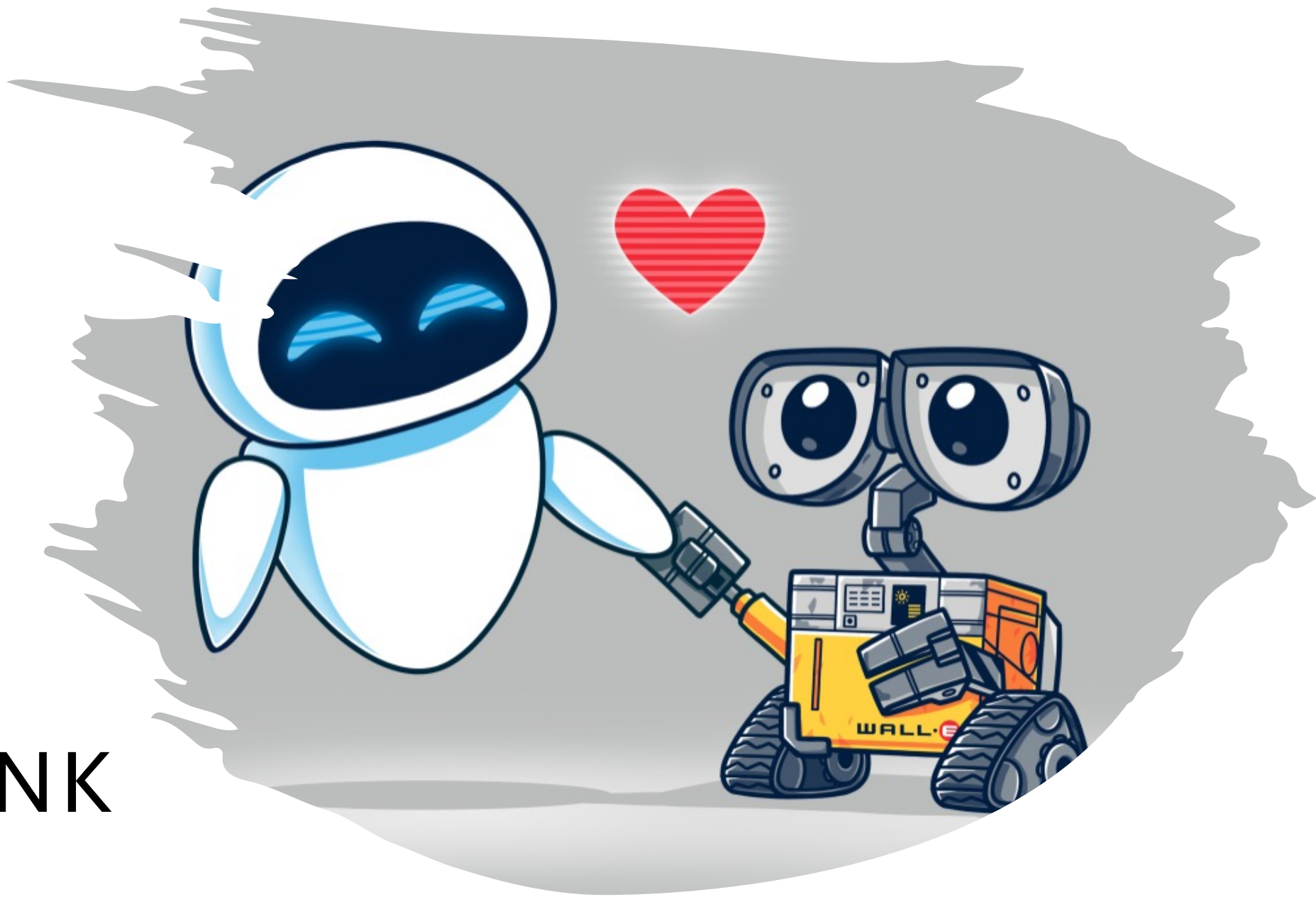


Our current Model



After Extension





THANK  
YOU