Task B

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1. Introduction

The purpose of this task is to create visualizations regarding the relationship between Marvel characters and how popular they are. My visualization was inspired by this network diagram. [1]

1. Dataset

I found an avenger including the name and its appearances dataset on Kaggle. [2] And two datasets for characters relationships on GitHub. [3]

1. Visual Encoding

The tool I use for this visualization is Gephi. Gephi allows you to easily create the network visualization. The process is basically just loading the dataset and choosing the layout and other parameters. Then adjust the overall color, font, size, etc.

The bigger the name, the more frequent this character appeared. The thicker the line, means the relationship is more close. The blue lines are the relationship between X-men and the right lines are relationship between the Avengers. The pink lines are for the Fantastic four.

A picture containing indoor

Description automatically generated

This dashboard is created using Tableau. The heat map can present the number of appearances of avengers. The word cloud is for the avengers, the bigger the name, the more popular they are. The line chart is to show which years these characters are created.

Chart, treemap chart

Description automatically generated

1. Reference

[1] <http://i.annihil.us/u/prod/marvel/graph/mu_galaxy_lg.png>.

[2] <https://www.kaggle.com/datasets/mmmarchetti/avengers>

[3] <https://github.com/YZHANG1270/Marvel_KnowledgeGraph/tree/master/data/gephi>