Part A | Using Tableau

Given the dataset we generated from our class survey data, , create a basic data visualization using Tableau Public. What you show and how you decide to do it is completely up to you, but review the techniques we discussed in Week One and make sure you have an idea of what you want to show.

1. **Submit a link to your project on the Tableau Public website.**

   https://public.tableau.com/app/profile/jeff.goseland/viz/DoesSizeMatter/DoesSizeMatter

2. **Write a paragraph describing the variables you used and your impressions of using the software.**

   I decided to answer the all important question, does size matter, shoe size. I wanted to use shoe-size distribution to see if I could find any parallels with the other numerical or categorical answers. I did not. The most interesting findings was that the patterns for cats/dogs and intro/extroverts were similar. It would have been interesting to see if there was more correlation between if intro/extroverts were more likely to prefer cats or dogs.

   As for the experience, I continue to dislike Tableau. Once you understand the basics it's not too hard to create what you want, but it seems unnecessarily complicated and simple things like creating a dynamic layout with legends was a pain (Tableau keeps wanting to create its own containers for new stuff).

Part B | Social Network Data

Your assignment for this part will be to do a network visualization with Cytoscape. 10 pts

The data and specifics are up to you, but I do expect to see the following:

- **A brief discussion of the data you are using and what your goal in the visual is;**

  These are character relationships and location relationships in the book series "The Wheel of Time" by Robert Jordan. The original data I found here (a copy): https://docs.google.com/spreadsheets/d/17oj8t3Th-0-LFX9G89eOzy4dp_pqNRP
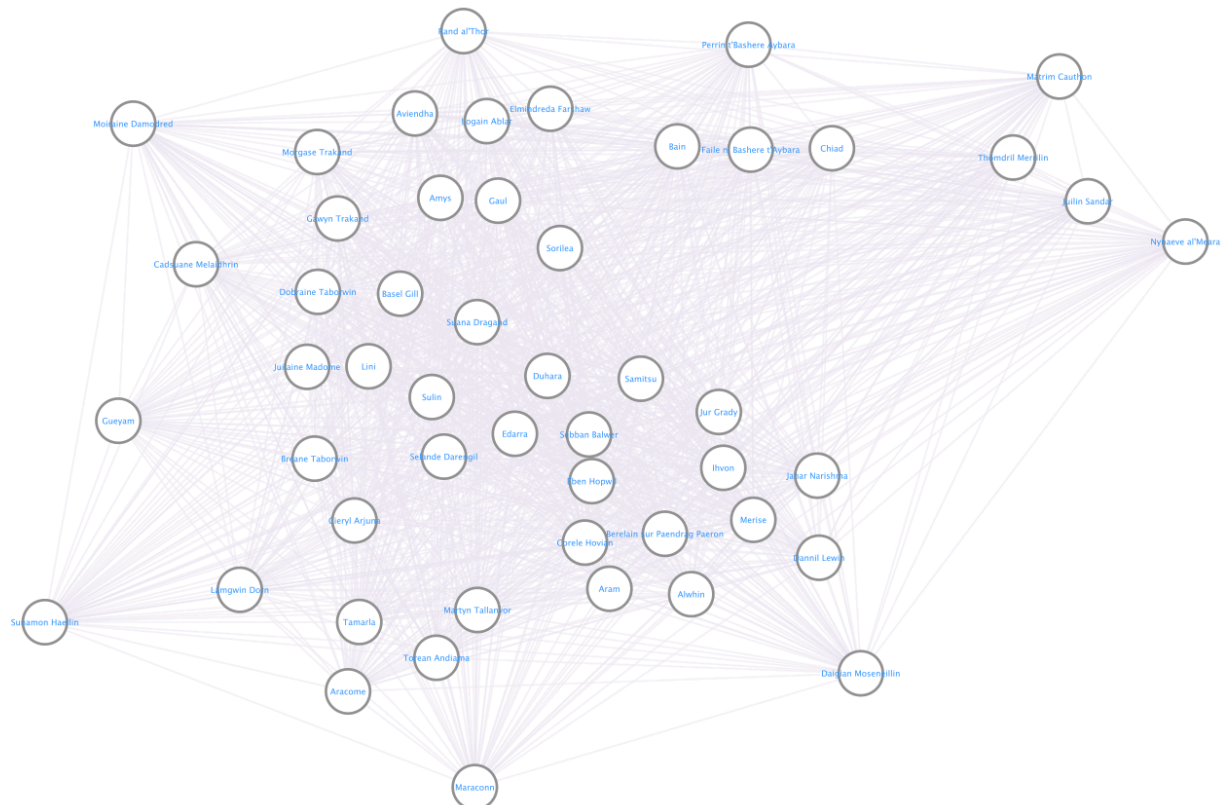
I then used R to create several files and ended up using the data in the character concurrence (showing up in the same book) with the weights being the number of co-occurences.
https://drive.google.com/file/d/12IyjTmQW8IrFEfSHBE6U_NjmP2qcnOrc/view?usp=sharing
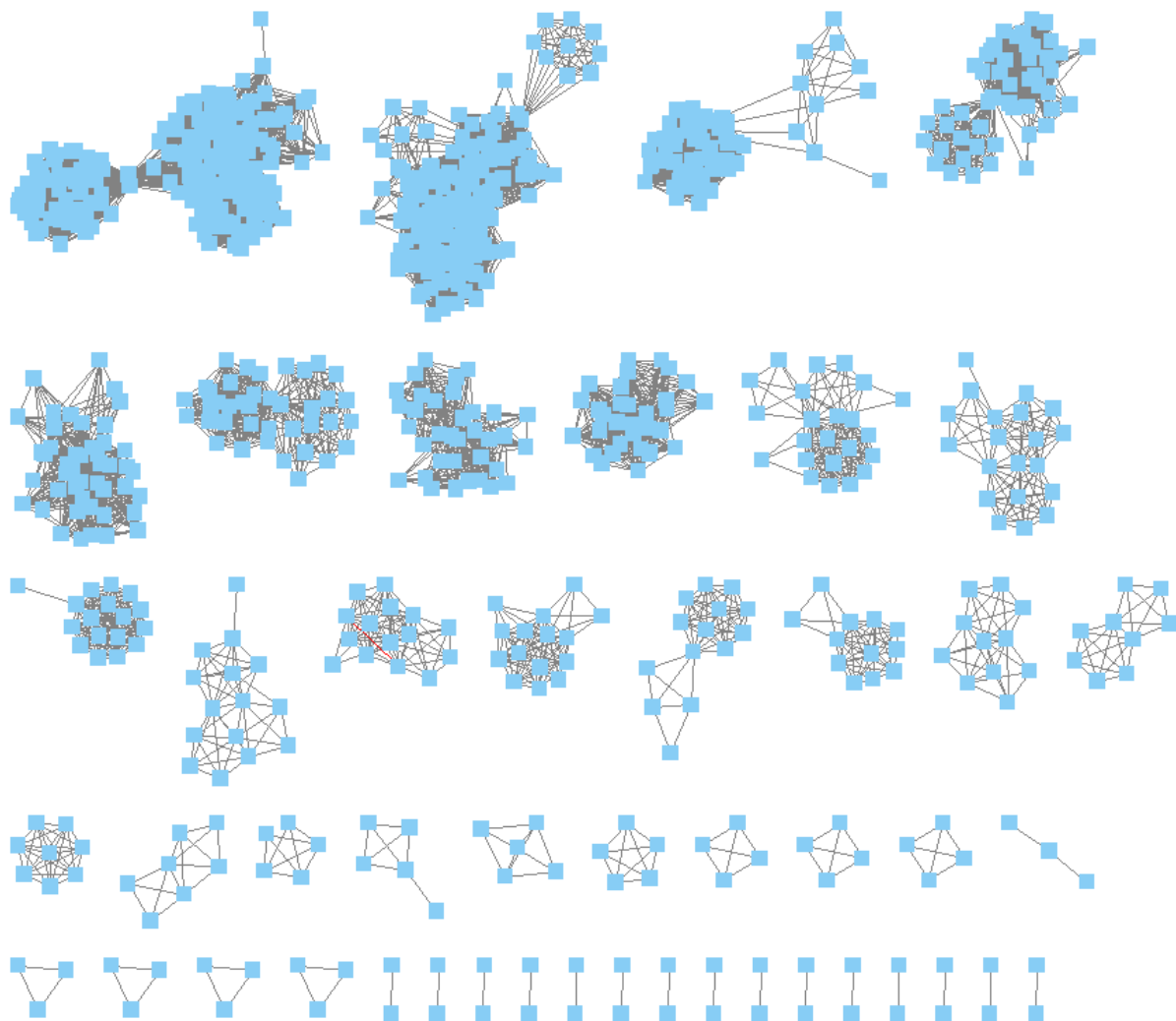
I wanted to see at a high level how connected the major characters (there are ~ 15 core and then ~ 100 "main" characters) are. I used the forced profuse layout and then pulled out major characters to see how the relationships worked out.

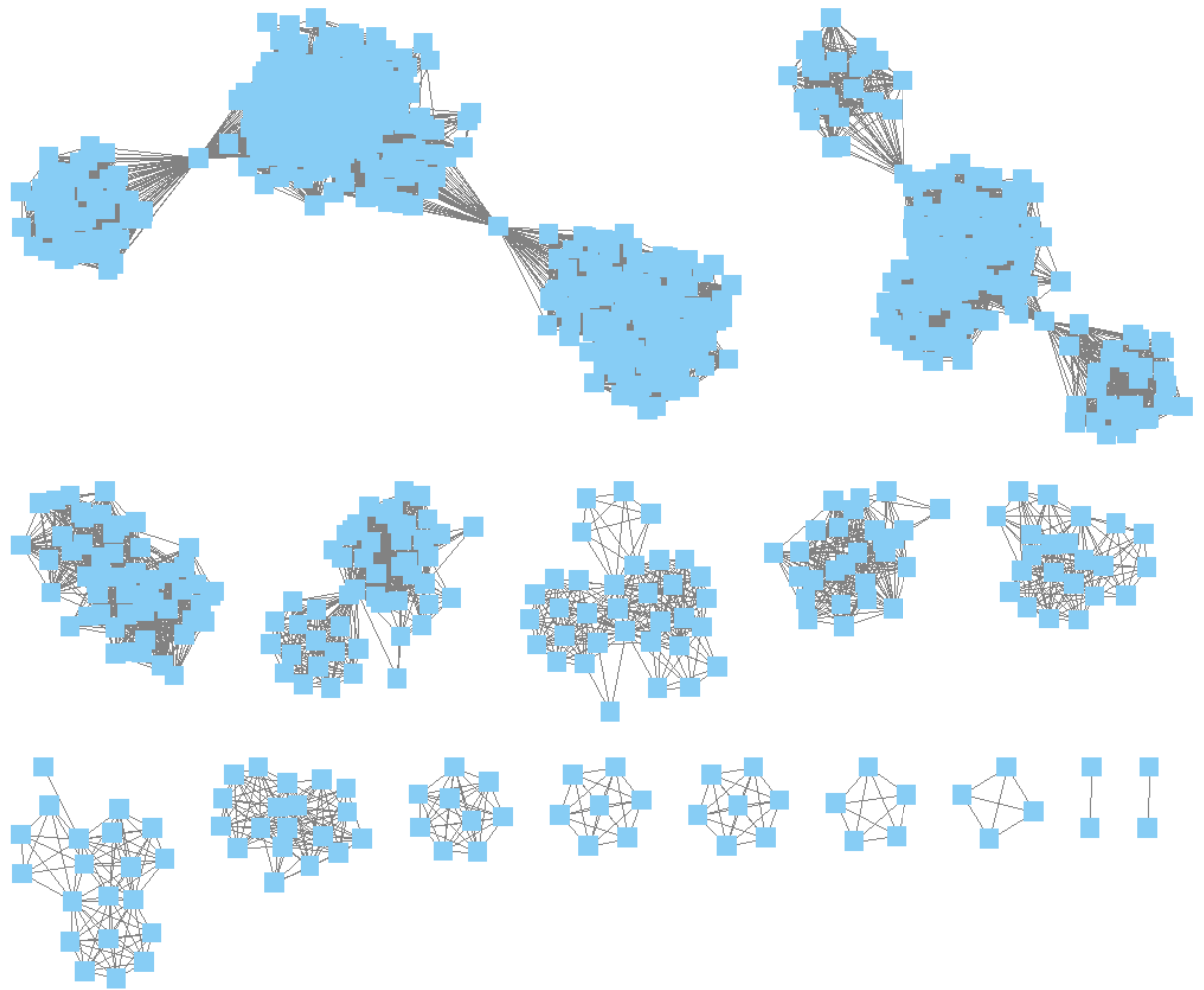- **At least two exported images (Cytoscape) that show what you have created**

Top 50 characters by associated weight

Location Network Overview

Group Associate Overview

- **A few sentences discussing what the visual helps you understand about the data and any future work that would be helpful.**

What I learned is that I don't know enough about Cytoscape to make functional networks. The book relationship was beneficial but surprising as several of the fore "15" characters didn't show up in the top 50 based on weight. The character relationships based on location and group association make sense, but again, the connector nodes showing "elbows" were interesting, and I don't even remember those characters.