Stack Overflow Tag Network Bruno Salgado

I pledge my honor that I have abided by the Stevens Honor System

This visualization report centers on the topic of tags found on Stack Overflow, a website used by software engineers to ask and answer technical questions. Questions posted on this website will include tags that describe the primary technologies that the question is asking about. Tags help users who are knowledgeable in those particular domains to find the questions and answer them. This topic speaks to me because as a software engineer myself, I use Stack Overflow consistently and being able to visualize how all of the topics are connected with each other helps to understand how different technologies are related and used together.

The data was collected from Kaggle and was posted by the Stack Overflow data science team. The tag data itself is pulled from Developer Stories which is a piece of a user's profile that shows off that user's expertise in certain areas. The data comes in two files composed of the network edges and nodes information.

To show a summary of the entire network, a basic topology is first constructed and shown to introduce users to how interconnected the various tags are across the entire site. The next graph, a chord diagram, shows flows between the topics while the last diagram, an arc diagram, shows relationships on a one-dimensional scale.

Data: https://www.kaggle.com/stackoverflow/stack-overflow-tag-network