Mini Project 3 Part 1 *Kevin Koljonen*

The question:

I want to find out how connected/similar english speaking twitch streamers are and if there are separated clusters of streamers. I would also like to check how popular these clusters are in terms of views.

Importance:

Does not have much value for society at large but to satisfy my personal curiosity.

Approach:

Using google colab to check the network density and the average path length for all possible node pairs. I will attempt to answer the question using NetworkX and by following the examples made by Sepinoud in her lectures. The average path length and visualization of the paths will show how similar certain “communities” are. Their popularity will be checked through their total view counts.

Expected outcome:

My expectation for this project is that a majority of twitch streamers will be largely similar to one another. Although there may be outliers I expect the majority to have a dense network. I expect there to be many separate dense clusters of nodes. Some clusters will be more popular than others and many of them will probably be less popular rather than more popular.

Dataset used:

I’m using a Twitch Social Networks dataset which for the english dataset includes over 7,000 nodes and over 35,000 edges.

https://snap.stanford.edu/data/twitch-social-networks.html