MO412 – Network Science University of Campinas

The Class Network

Assigned on 2020-11-16 **Due on 2020-11-25**

Hobbies

We asked the 15 students in the class to tell us their hobbies. A total of 14 distinct hobbies were mentioned, and led to the network given in the accompanying file `class-network.tsv`. This is a bipartite network, because each link has a student in one extremity and a hobbie in the other. Both students and hobbies were anonymized, so students are identified by codes S1 to S15, whereas hobbies are identified by codes H1 to H14. The file has not been sorted.

Analysis

Your job is to analyze the bipartite class network of people and hobbies with the tools seen so far in the course. Compute the degree distibution, average degree, find connected components, average distance, clustering coefficients, etc. Do the analysis for the bipartite network and also for its two projections. Visualize the networks with Gephi.