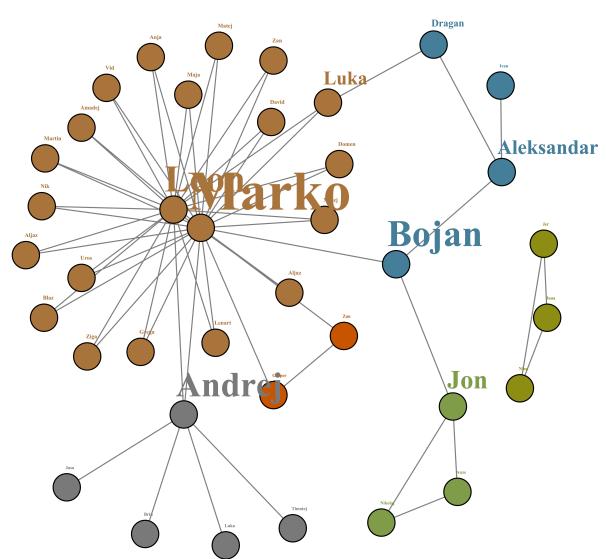
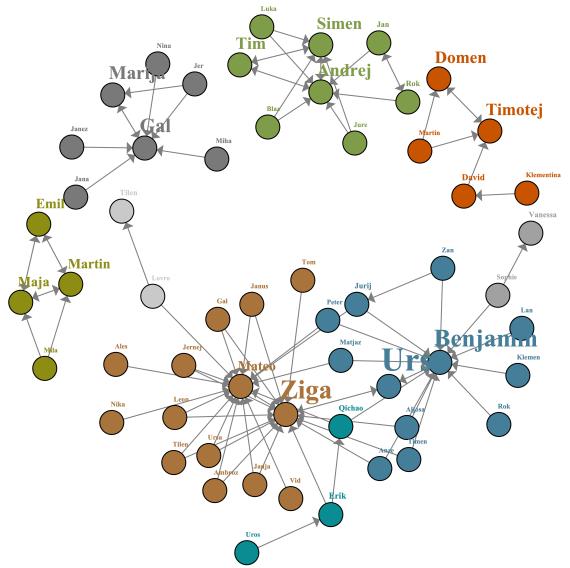


PageRank & betweenness centrality challenges

Nominate up to two classmates by stating their student identifiers on [eUcila](#) before May 26th at 11:59pm. This will create zero, one or two directed links from you to them. All student nominations will be collected into a social network.



1. First, the network will be reduced to a simple directed graph. Then, the PageRank score will be computed for each node in the network (with damping factor $\alpha = 0.85$). Students with the highest PageRank score will be awarded 10% of the final course grade (all students together).
2. Next, the network will be reduced to a simple undirected graph. Then, the betweenness centrality will be computed for each node in the network. Students with the highest betweenness centrality will be awarded 10% of the final course grade (all students together).

The students will be allowed to distribute these 10% however they please (e.g., taking all the points, (un)evenly distributing the points between selected classmates or other). Students must make their decision before the end of the semester.