

Part B- Setting up network analysis & visualization

- Edit and process the data you collected and create the network(s) you defined in the first part, detailing and explaining the process.
- Report the number of networks, nodes, arcs, weight ranges, and any feature that will be taken into account during the analysis of the network(s).
- Define the analysis and research:
 1. What metrics do you plan to test and how do they answer your research questions?
 2. Define the comparison between the networks (different networks from different time points, domains, populations, etc.).
 3. What phenomena do you intend to examine in networks (communities, proliferation, etc.), and how this examination helps to answer the questions you defined in the first part? In addition, specify how you will test these phenomena - which simulations you will run and with which parameters, which algorithms you will use and why, under which conditions, etc.
- create an informative visualization of the network(s) - the visualization should be clear: it should reflect what the nodes are, the arcs, weights, different colors for the nodes if necessary, and an arrangement in a suitable topology if there is one (for example, a bipartite graph if the network has two groups distinguished with connections between them, etc., circular graph, etc.). If your network(s) is too large, it is possible to visualize only a part of it (while justifying why you chose this part) or the aggregation of the network (cliques of nodes as a single node, etc.). Only a reasoned and clear visualization will win all the points.