PR2: Structural insights

- Measure the following metrics of the overall network: size, density, diameter, radius, average path length, average clustering coefficient, transitivity, number of triangles, number of cliques, and number of connected components
- Illustrate the distance distribution of your network
- Illustrate the dependence of the average clustering coefficient on the node's degree k

PR2: Structural insights

- Create the egocentric network of your *most important* node
- Visualise the egocentric network
- Measure the following metrics of the egocentric network: size, density, diameter, radius, average path length, average clustering coefficient, transitivity
- Discuss the difference between the overall network and the egocentric network (consider measurements)

PR2: Structural insights

- Implement the process for constructing k-core
- Create the *main* core subgraph of your graph using your implementation and create the main core subgraph with nx.k_core
- Visualise both main cores and compare them

PR2: Structural insights

- Find and list all maximal cliques
- Create a graph from those cliques (do not use nx.make_max_clique_graph())
- Visualise that graph

PR2: Structural insights

- It is not enough to measure things – you need to *discuss* the insights they offer
  - What did you learn from each metric you measured or structure you created?
  - What was your expectation?
  - How do the results compare to your expectations?