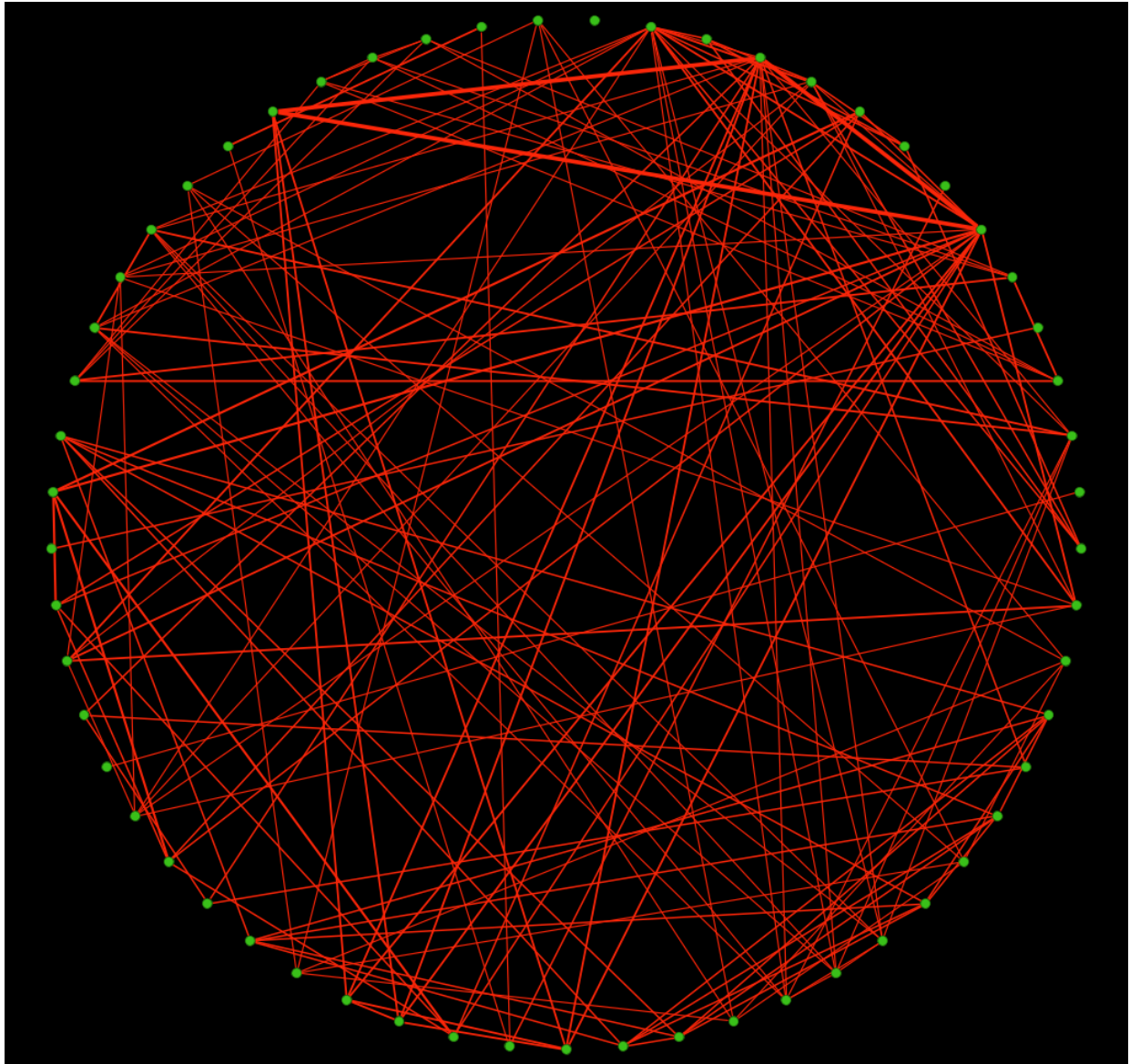
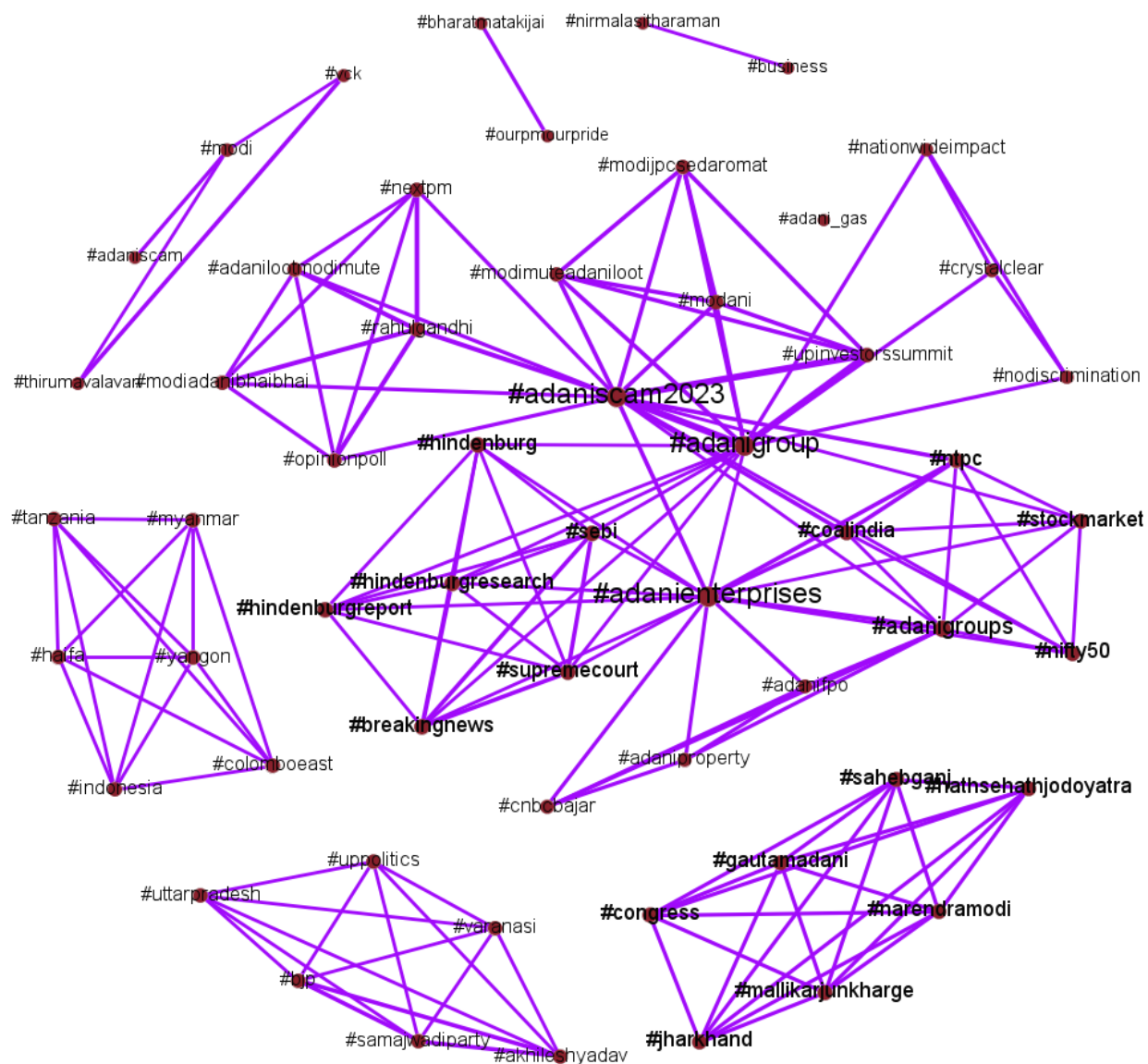


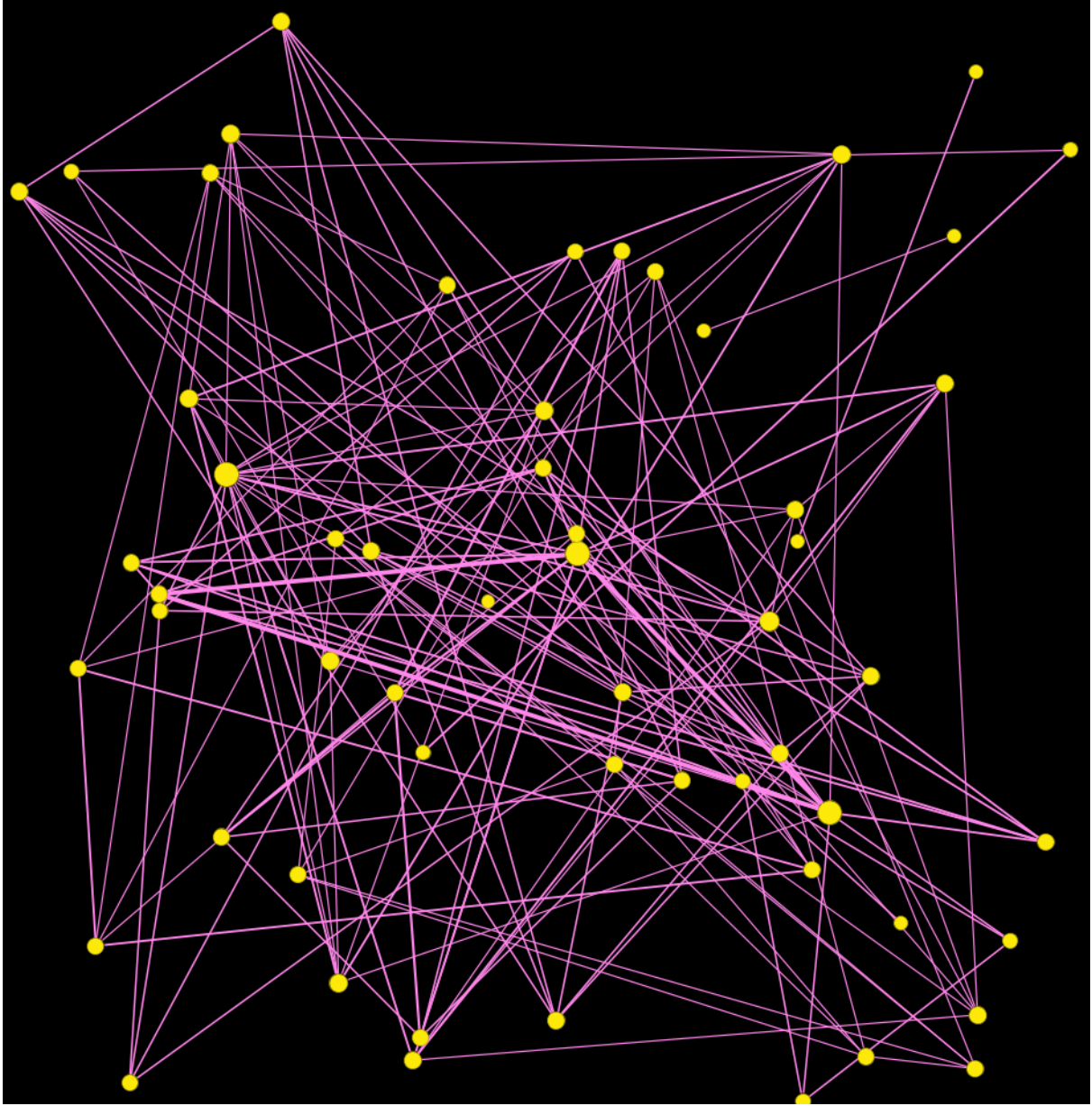
SOCIAL NETWORK ANALYSIS ASSIGNMENT 2

**Collect and Visualize Twitter social network using Gephi using Twitter Streaming
Importer**

Case 1: Collect the network of a specific Hashtag (undirected graph)



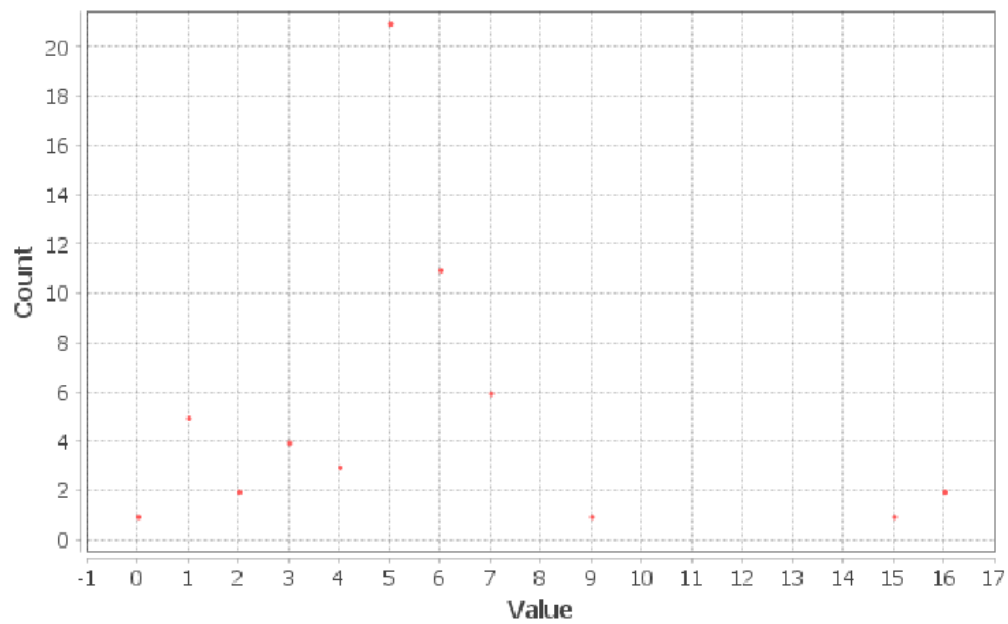




Degree Distribution:

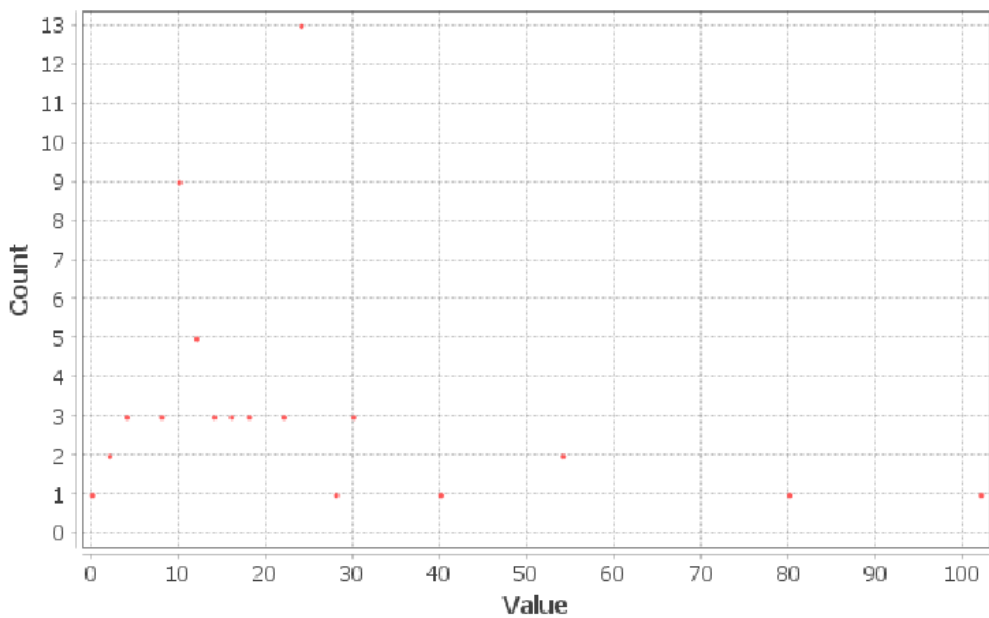
Average Degree: 5.298

Degree Distribution



Average Weighted Degree: 20.351

Degree Distribution

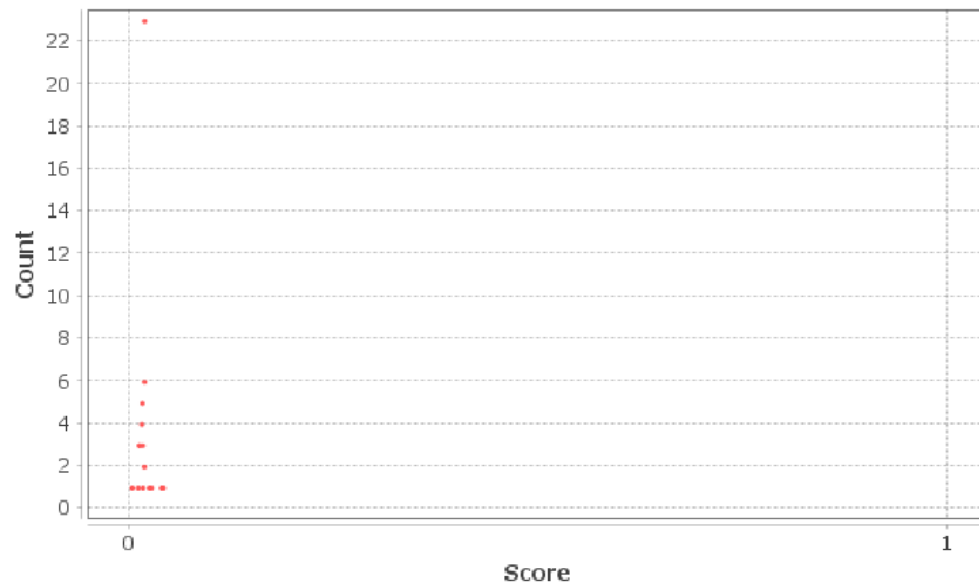


Network Diameter: 3

Network Density: 0.095

Page rank distribution with probability $p=0.85$:

PageRank Distribution

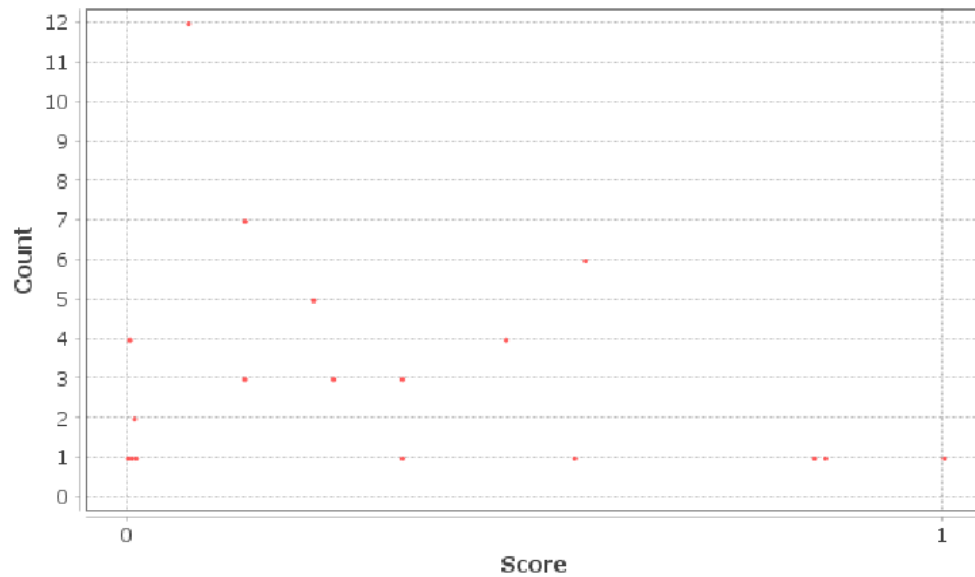


Eigenvector Centrality with parameters:

Number of iterations: 100

Sum change: 0.00843887440928375

Eigenvector Centrality Distribution



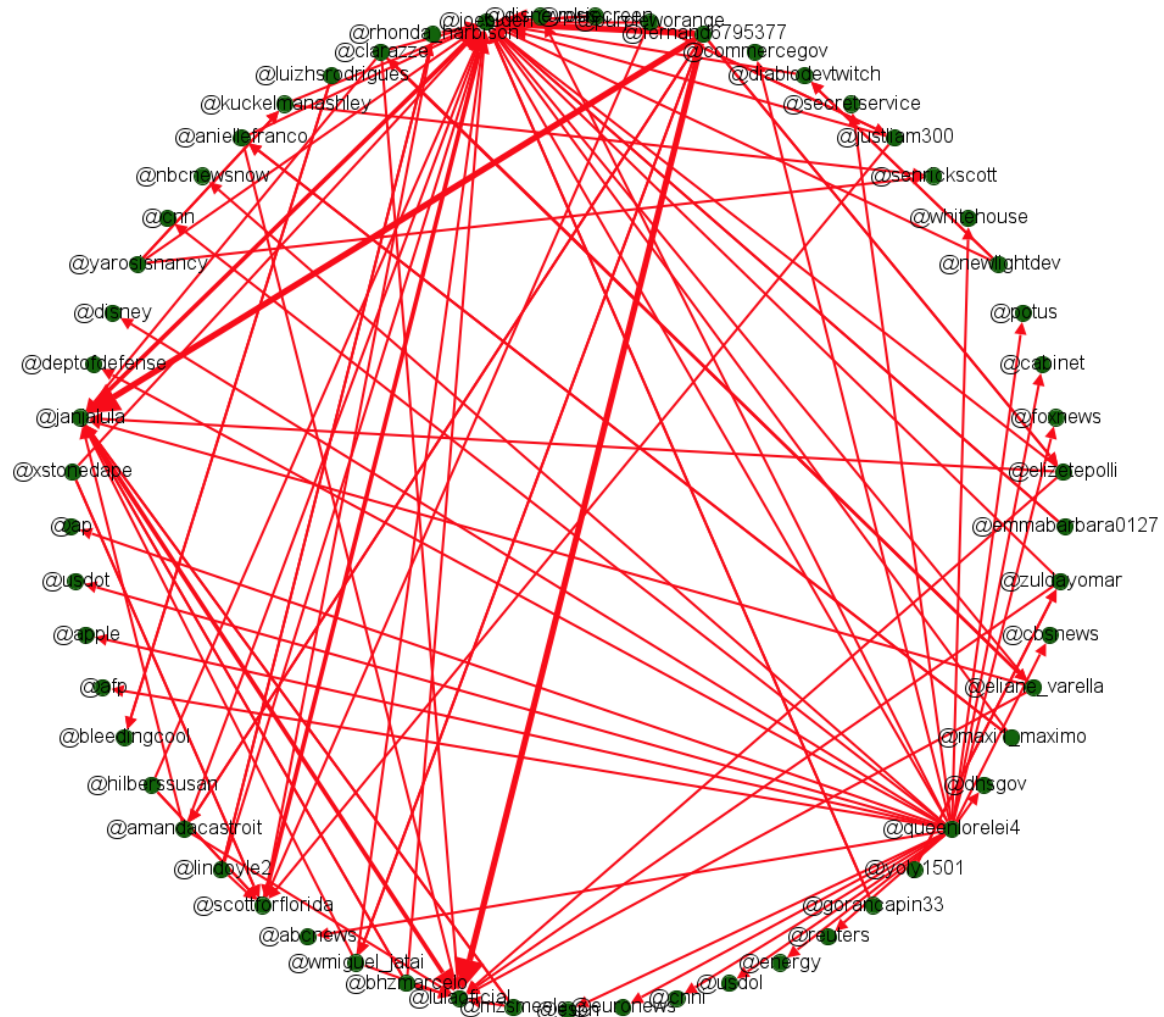
Average Clustering Coefficient: 0.939

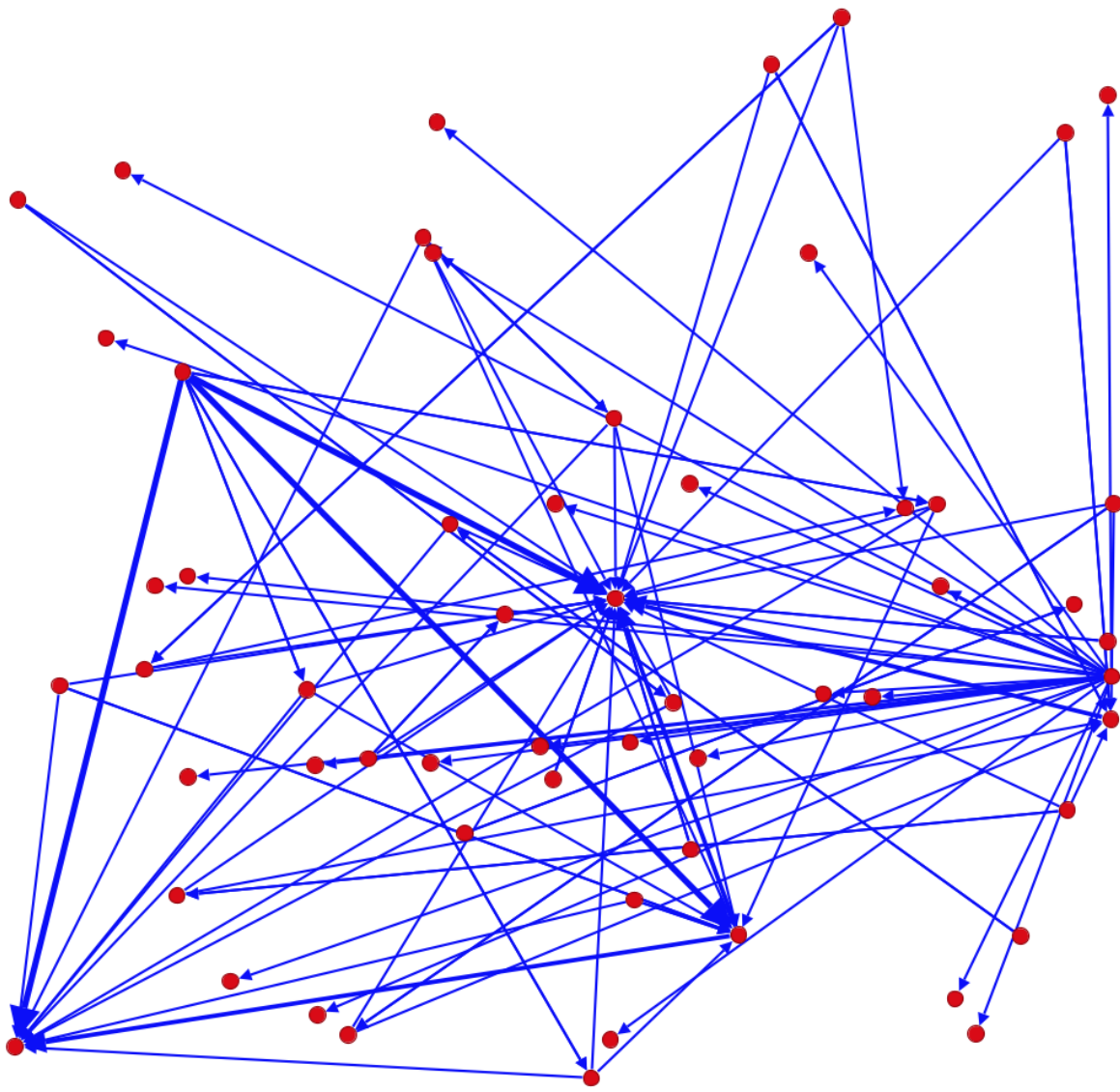
Total triangles: 222

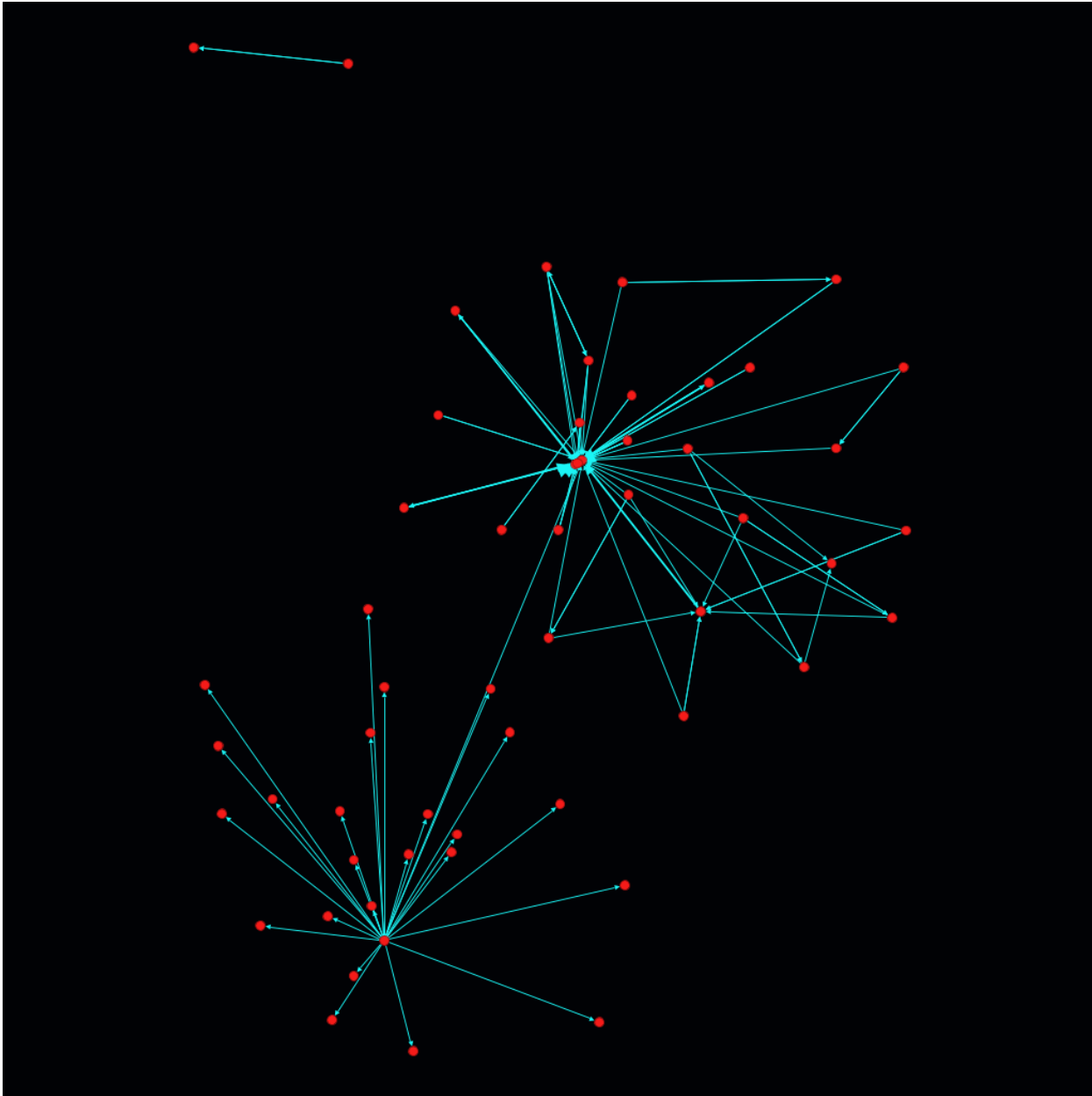
The Average Clustering Coefficient is the mean value of individual coefficients.

Average Path length: 1.881720430107527

Case 2: Collect the network of twitter users (directed graph)

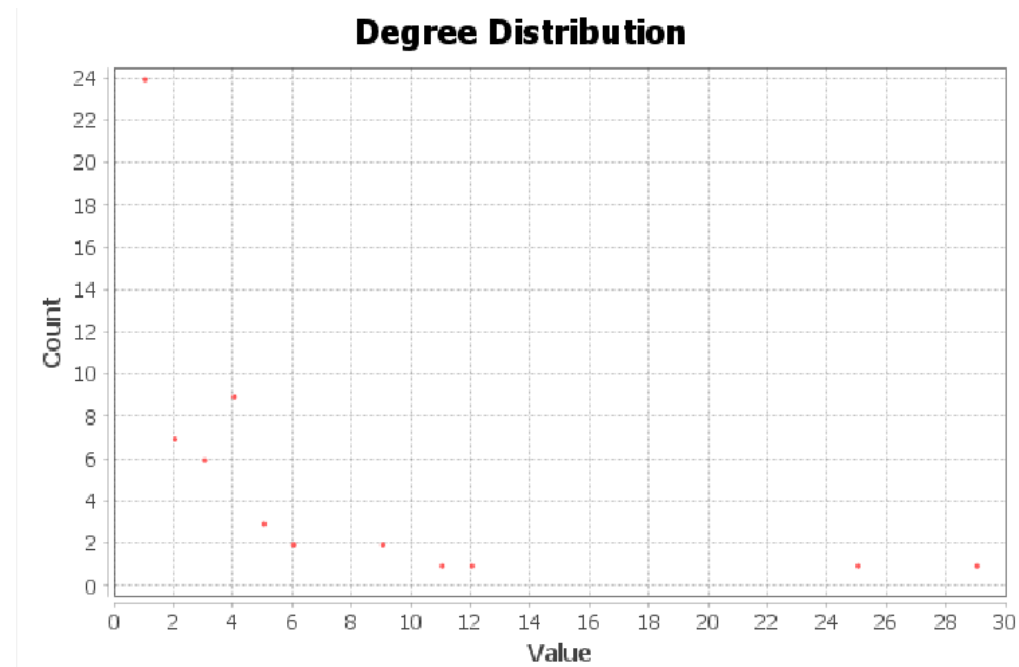




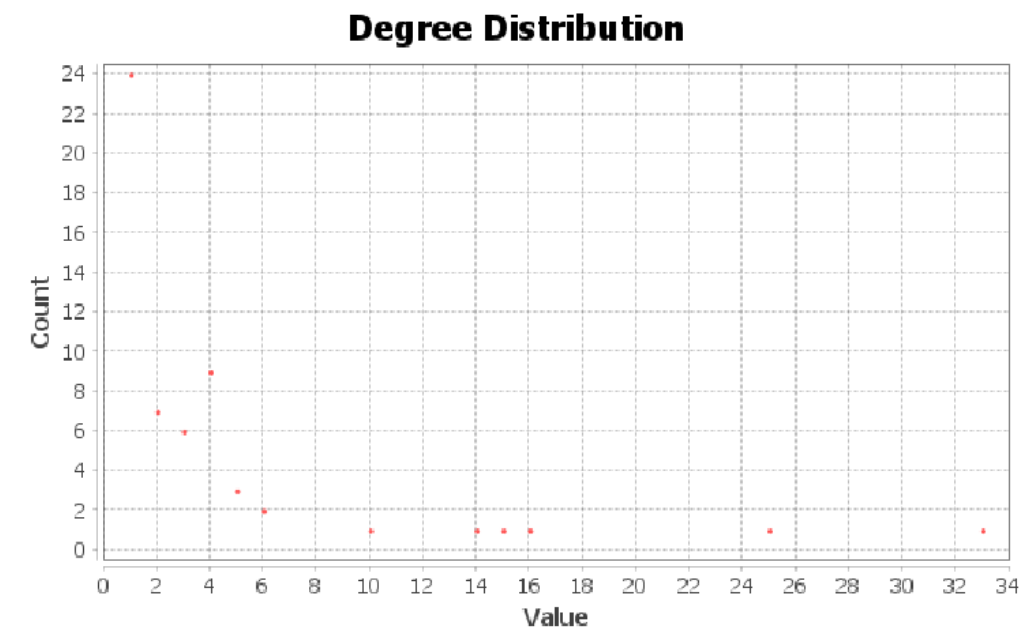


Degree Distribution:

Average degree: 1.877



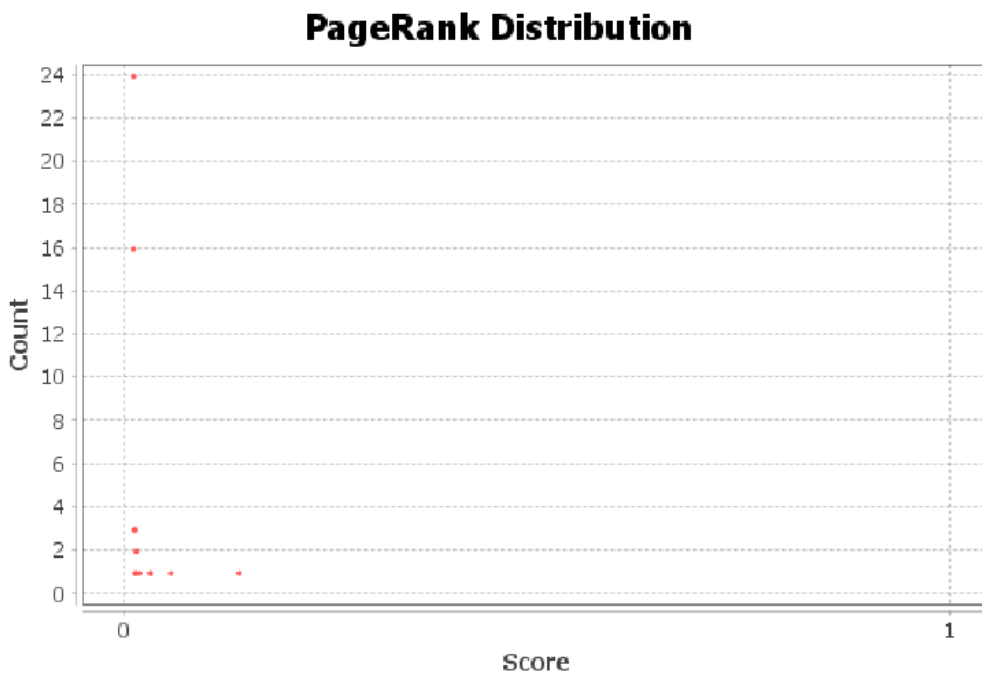
Average Weighted Degree: 2.035



Network Diameter: 2

Network Density: 0.034

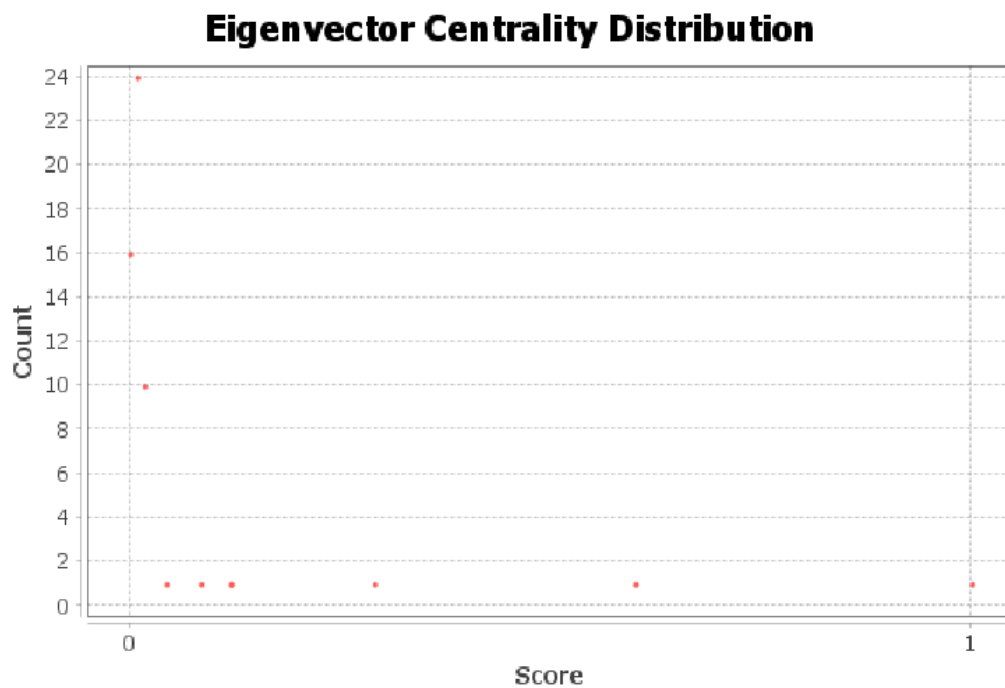
Page rank distribution with probability $p=0.85$:



Eigenvector Centrality with parameters:

Number of iterations: 100

Sum change: 0.005583577146528802



Average Clustering Coefficient: 0.142

The Average Clustering Coefficient is the mean value of individual coefficients.

Average Path length: 1.043010752688172