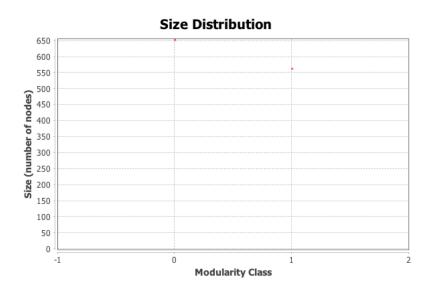
Lab 7

Community Detection

[was unable to create/implement my own k-means algorithm in time]

Using Gephi:





Gephi found 2 communities using modularity with a resolution of 2. One was of size 664 and the other was of size 554.

	Correctly Labeled	Incorrectly Labeled	Total
Community 0	543	11	554
Community 1	451	213	664
Total	994	224	1218

Community 1:

Precision = 543/994 = 0.546

Recall = 543/554 = 0.980

f-measure = (2*0.546*0.980)/(0.546+0.980) = 0.701

Community 2:

Precision = 451/994 = 0.454

Recall = 451/664 = 0.679

f-measure = (2*0.454*0.679)/(0.454+0.679) = 0.544