

21BDS0340

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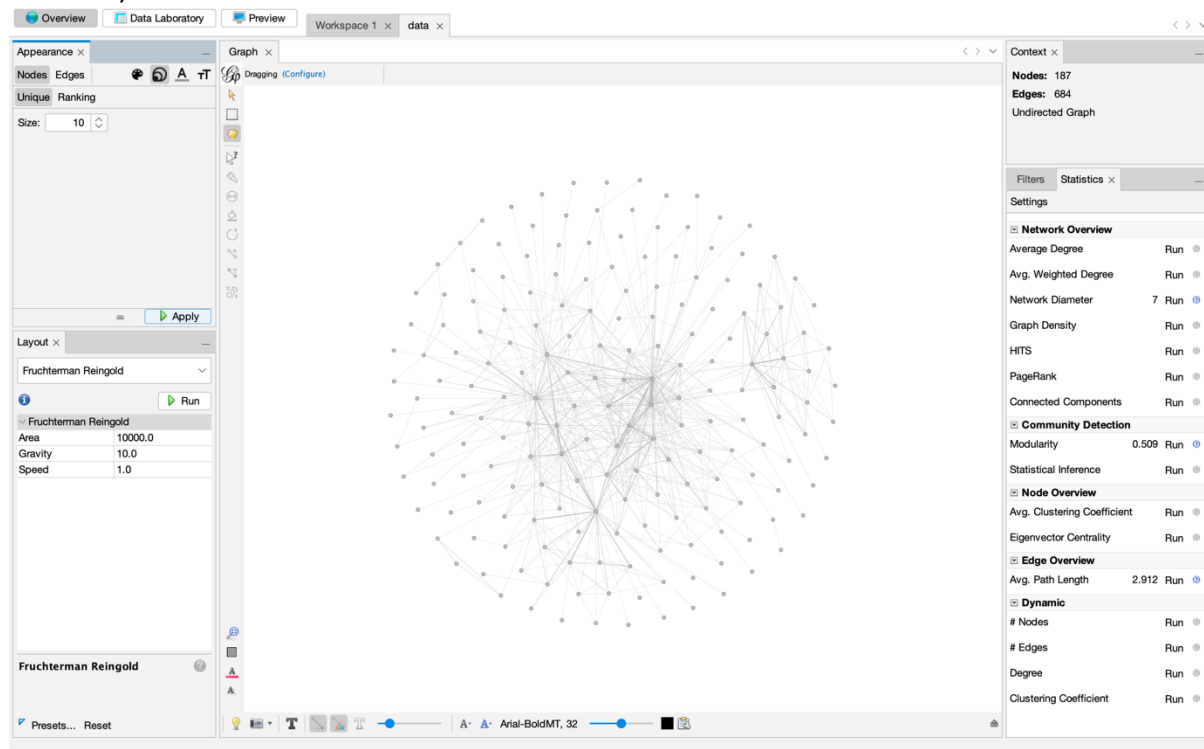
Programing for Data Science

Digital Assignment – II

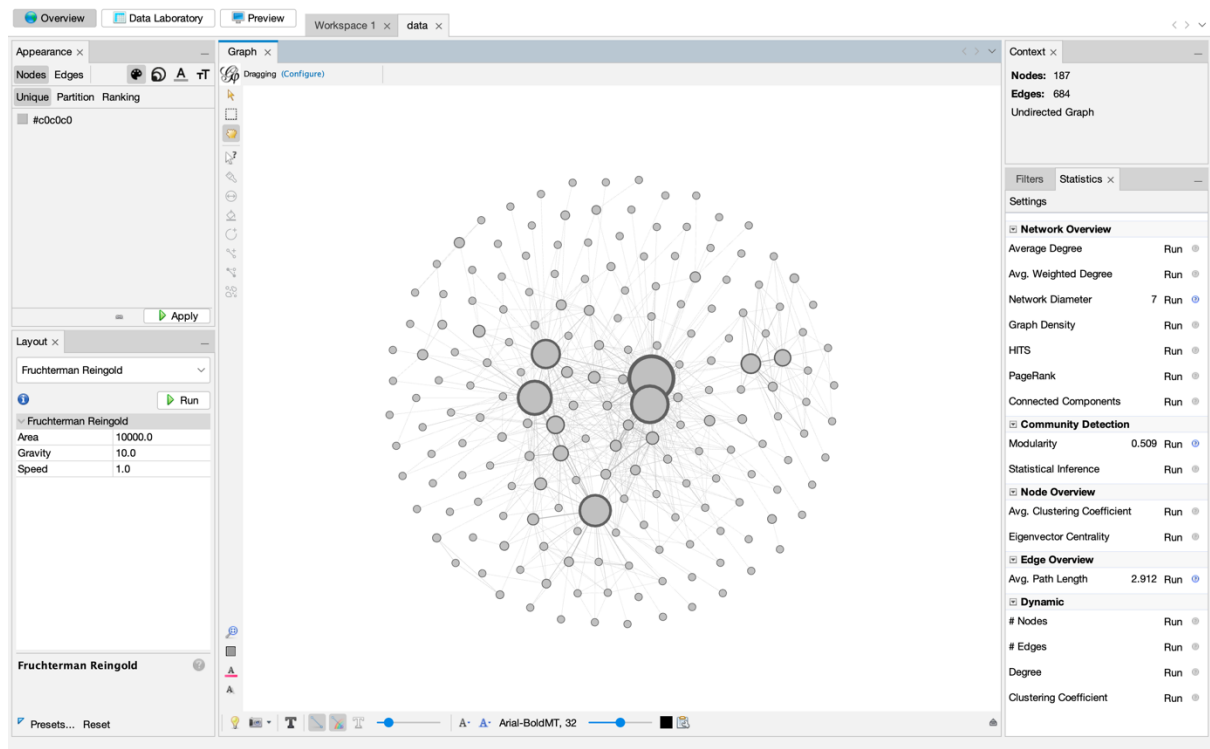
The dataset used for this assignment is:

https://storage.googleapis.com/kagglesdsdata/datasets/404473/775618/book1.csv?X-Goog-Algorithm=GOOG4-RSA-SHA256&X-Goog-Credential=gcp-kaggle-com%40kaggle-161607.iam.gserviceaccount.com%2F20240315%2Fauto%2Fstorage%2Fgoog4_request&X-Goog-Date=20240315T160730Z&X-Goog-Expires=259200&X-Goog-SignedHeaders=host&X-Goog-Signature=1d911ae98434bca86db1781894e7aaf9b362cff798cae799868aa3a211a37a8b5ec8ee260ccaeb57fb89a5d108f0ffb98a58340f2cc00eb4c9b0b1733f3a232ff36fe1d32d82795d7eb29608da0420591fa3af6a73d88ffa83ba04f137fbf9cdbc0bee6dfce6003289fe35b9108bb27d83d008a13447c7d51aff3ff89a71c6ac7e1d3d960380bc337d0cc6ecb74f5521be3a398924d2e340d3bae282e3281a65f737d14a5fed8fdb5c52ba65708ae0fbde58b99d03ff1a6908f93a56bc22e7a24f520ab9a5b2a9f337e99c6f0646899d1c734d7363f0f7da90789057dd934343fa21f5e0a2f6bb4af3990bb45816e844aa9099e2ccbb0086fc3fbae89c279

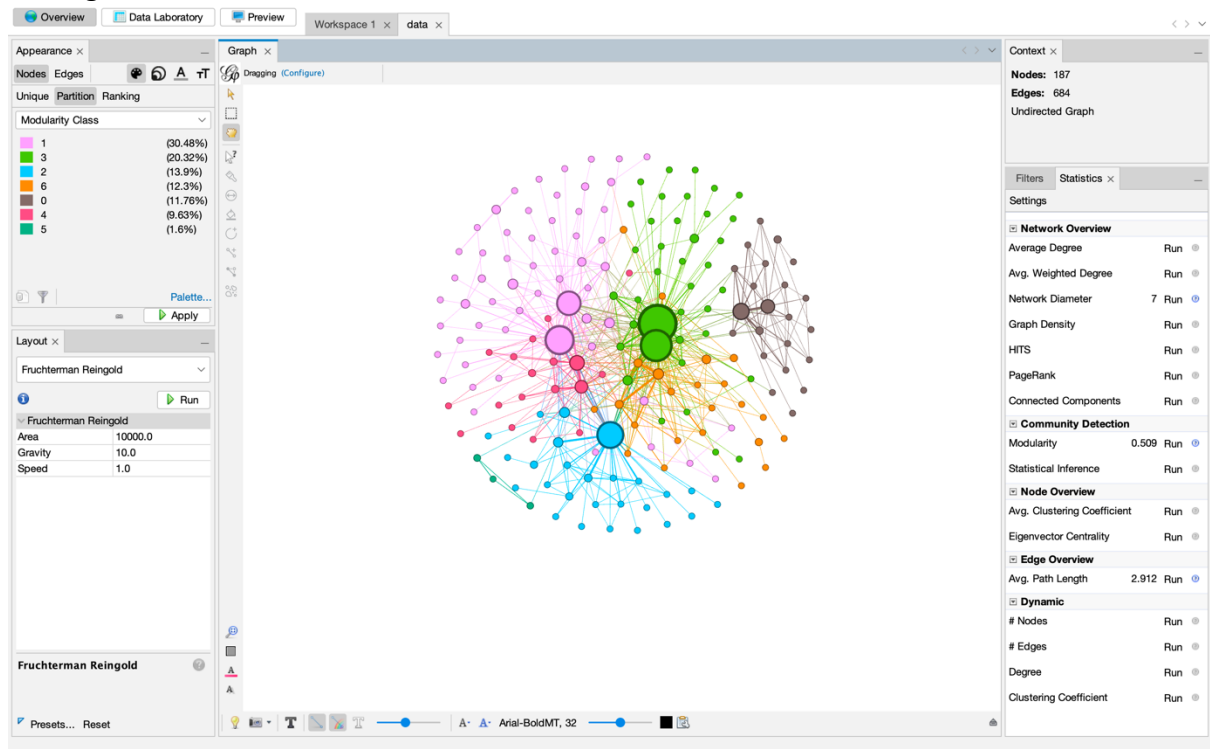
Applying the Fruchterman Reingold spacing algorithm (as it has the best visualisation in this scenario):



Calculating the centrality and applying the size of the node as the betweenness centrality measure:



Adding colours based on the communities:



Final SVG:

