
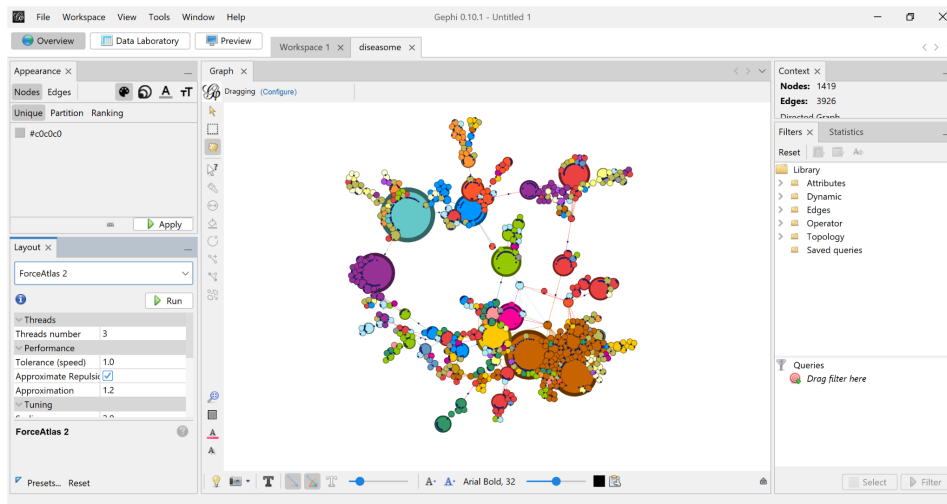


Gephi Assignment

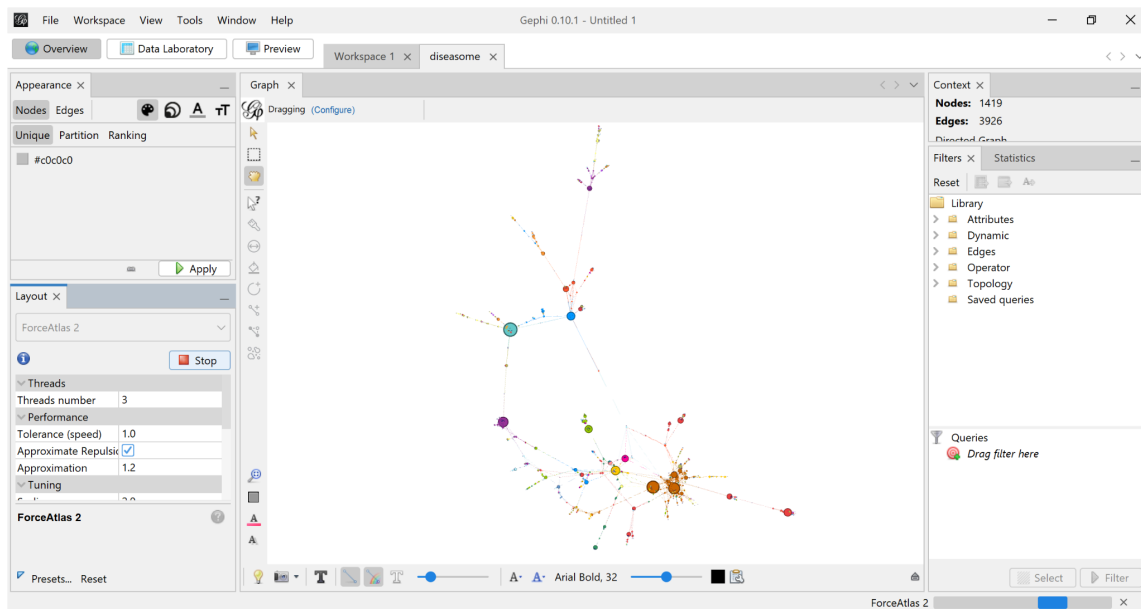
1.Dataset used:

name	Date modified	type	Size
 diseasesome	2/7/2010 5:57 AM	GEXF Graph File	546 KB

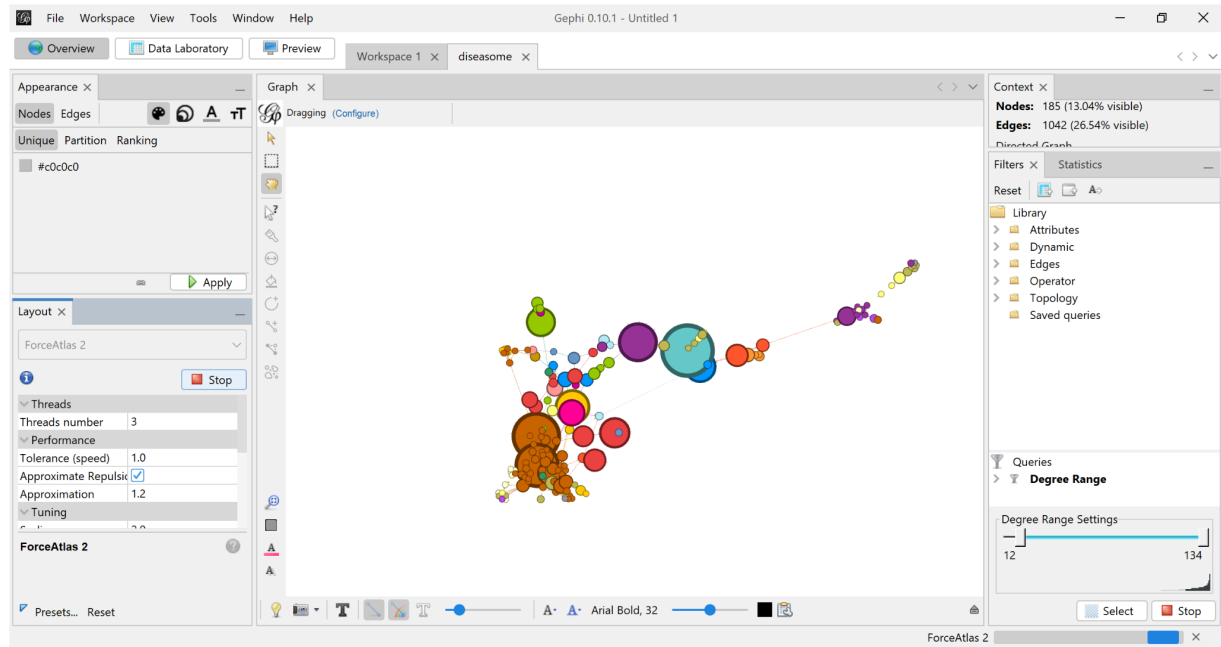
After opening the dataset in Gephi:



Applying layout (ForceAtlas 2):

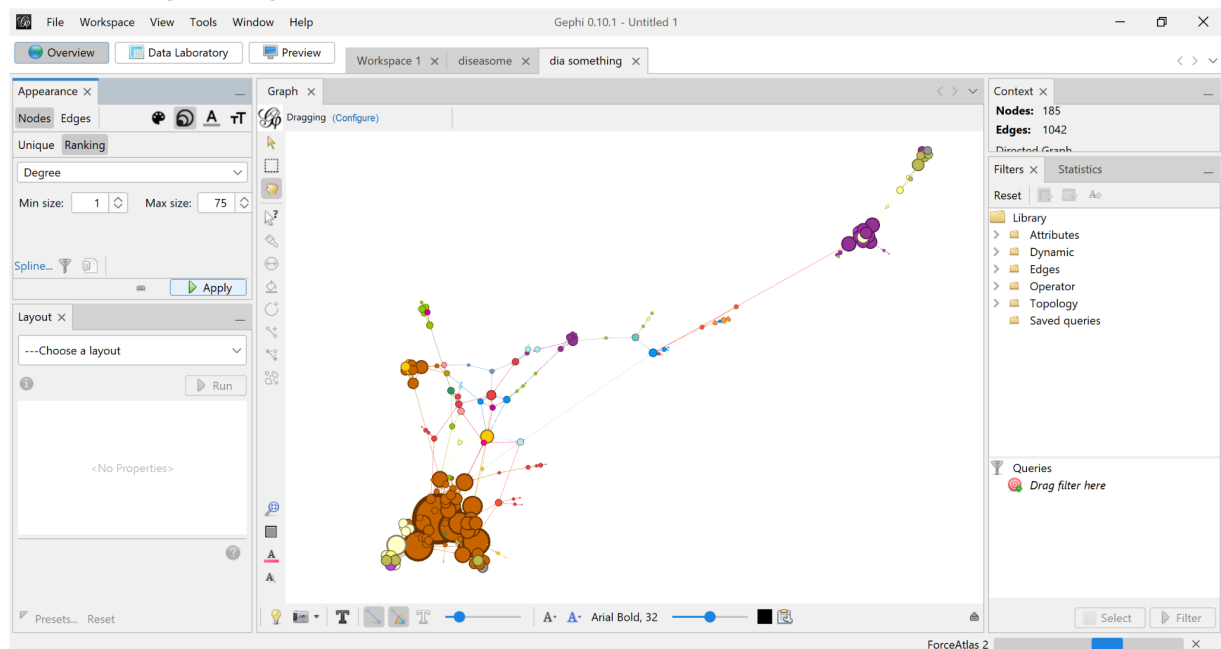


Applying filter (Degree Range):



Now save the file and then open the saved file as a new project.

2. Now finding the degree:

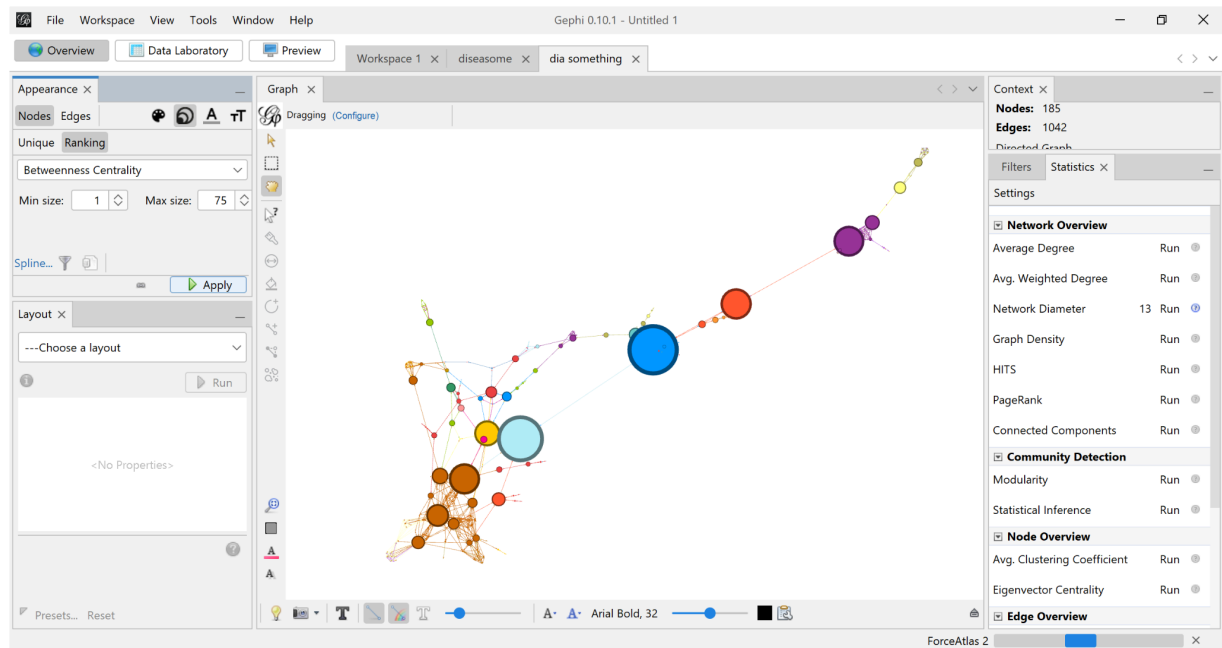


Now go to statistics and run “Network Diameter” under ‘Network Overview’.

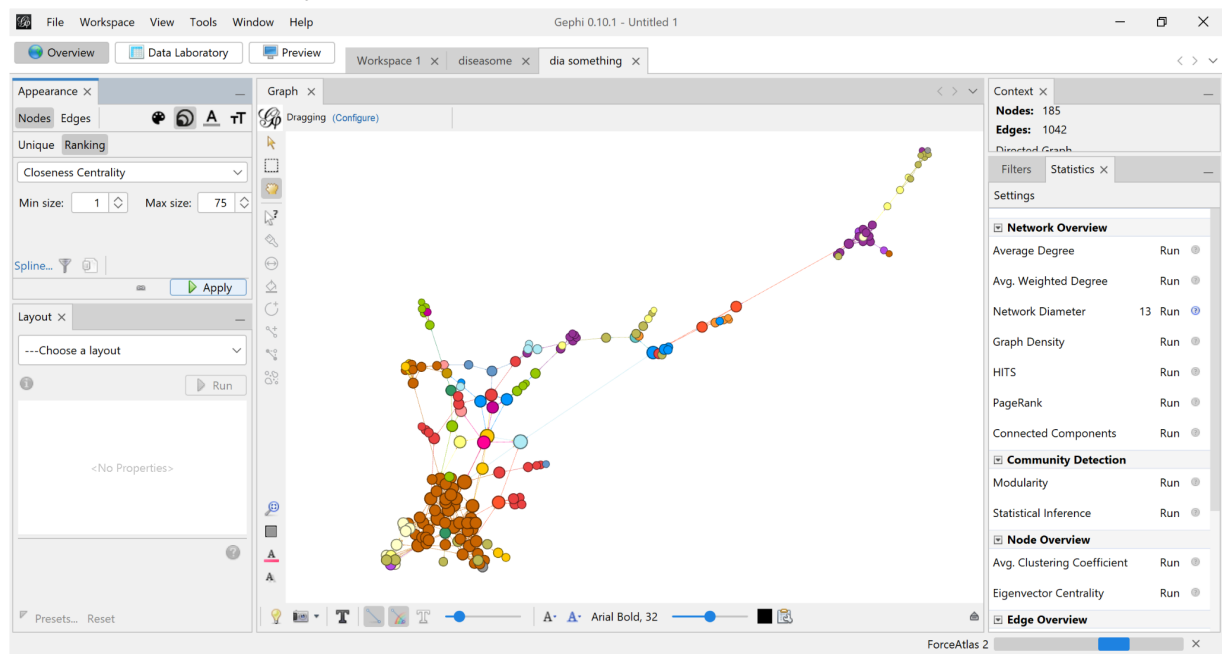
After running it, we get a graph screen. Exit the screen and then find the node centrality.

3.Node Centrality:

3.1- Betweenness centrality:



3.2- Closeness centrality:



4. Data Laboratory:

Gephi 0.10.1 - Untitled 1

File Workspace View Tools Window Help

Overview Data Laboratory Preview

Workspace 1 x disease x dia something x

Data Table x

Nodes Edges Configuration Add node Add edge Search/Replace Import Spreadsheet Export table More actions Filter Id

Id	Label	Interval	type	disclass	Eccentricity	Closeness Centrality	Harmonic Closeness Centrality	Betweenness Centrality
742	Lipoma		disease	Cancer	11.0	0.201595	0.276802	2124.996032
743	Bone mineral densi...		disease	Bone	13.0	0.112096	0.153042	0.0
744	Exudative vitreoreti...		disease	Ophthalmological	13.0	0.112096	0.153042	0.0
745	Hyperostosis, endo...		disease	Bone	13.0	0.112096	0.153042	0.0
746	Osteoporosis-pseu...		disease	Bone	13.0	0.112096	0.153042	0.0
747	van Buchem disease		disease	Unclassified	13.0	0.112096	0.153042	0.0
751	Dementia		disease	Neurological	10.0	0.210714	0.261519	1053.460414
769	Adrenal adenoma		disease	Cancer	12.0	0.171678	0.228337	0.0
770	Angiofibroma, spor...		disease	Endocrine	12.0	0.171678	0.228337	0.0
771	Carcinoid tumor of...		disease	Cancer	12.0	0.171678	0.228337	0.0
772	Multiple endocrine...		disease	Cancer	11.0	0.185535	0.248163	753.381746
773	Parathyroid adenoma		disease	Cancer	12.0	0.171678	0.228337	0.0
774	Prolactinoma, hype...		disease	Endocrine	12.0	0.171678	0.228337	0.0
775	Renal cell carcinoma		disease	Cancer	10.0	0.224051	0.300247	398.556596
782	Waardenburg syndr...		disease	Multiple	11.0	0.17387	0.205245	0.0
784	Cafe-au-lait spots		disease	Cancer	9.0	0.242134	0.318866	40.99411
785	Muir-Torre syndro...		disease	Cancer	9.0	0.242134	0.318866	40.99411
790	Meningioma		disease	Cancer	10.0	0.215591	0.296258	59.838384
794	Lynch cancer famil...		disease	Cancer	9.0	0.241803	0.316041	0.0
795	Neurofibromatosis		disease	Cancer	9.0	0.25142	0.336609	516.954867
80	Renal tubular dysg...		disease	Renal	9.0	0.232283	0.274865	46.766667
81	Mental retardation		disease	Neurological	11.0	0.156776	0.18088	352.0

Add column Merge columns Delete column Clear column Copy data to other column Fill column with a value Duplicate column Create a boolean column from regex match Create column with list of regex matching groups Negate boolean values Convert column to dynamic

ForceAtlas 2