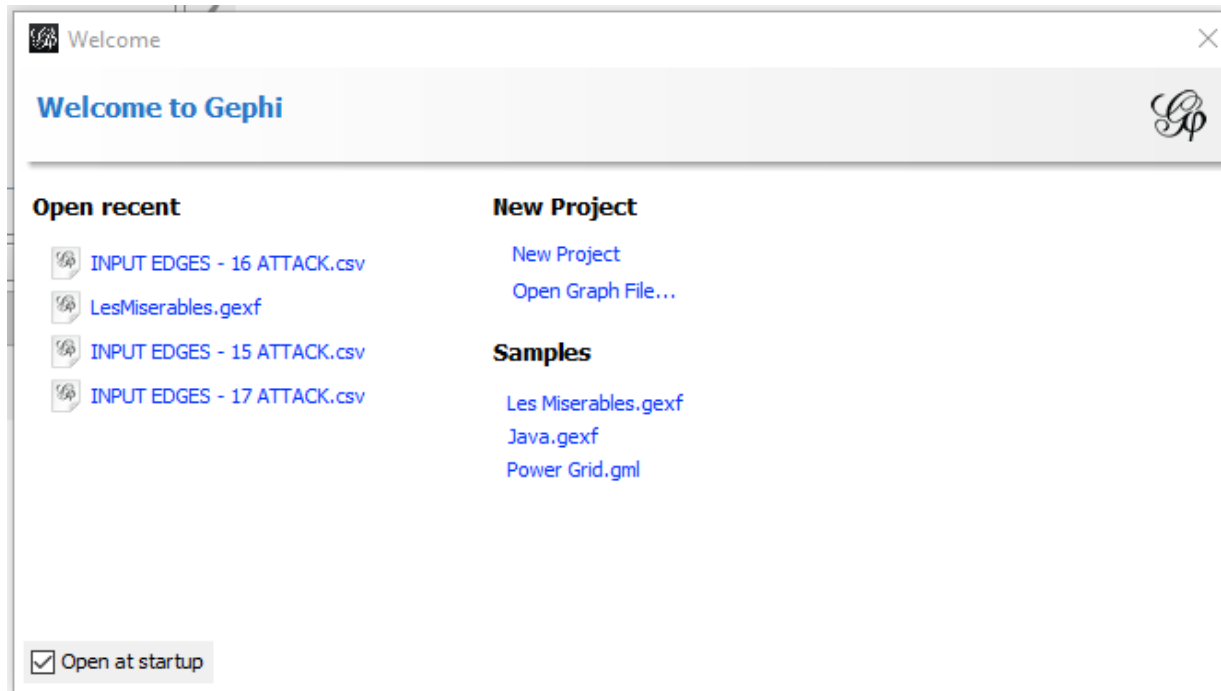


Practice Constructing Interaction Graph

Digital Business Ecosystem Research Center



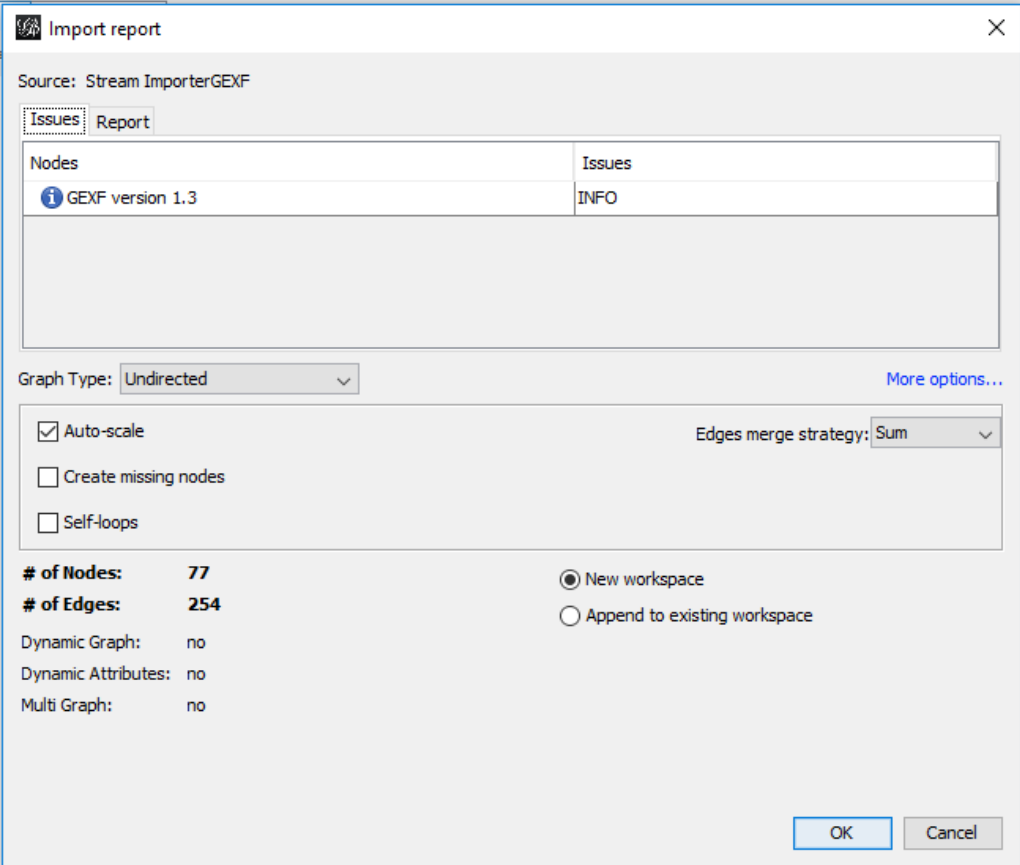
Open The Samples Data




Choose Les Miserables.gexf on Samples

Data Information

- Graph type can be undirected, directed, mixed
- The workplace can be new or append to the existing one



The image shows a software dialog box titled "Import report". It has a close button (X) in the top right corner. The "Source" is listed as "Stream ImporterGEXF". There are two tabs: "Issues" (selected) and "Report". The "Issues" tab contains a table with two columns: "Nodes" and "Issues". The table has one row with an information icon, "GEXF version 1.3", and "INFO". Below the table is a large empty rectangular area. The "Report" tab is currently empty. Below the table area, there is a "Graph Type:" dropdown menu set to "Undirected", with a "More options..." link to its right. Below this are three checkboxes: "Auto-scale" (checked), "Create missing nodes" (unchecked), and "Self-loops" (unchecked). To the right of these is an "Edges merge strategy:" dropdown menu set to "Sum". At the bottom left, there are statistics: "# of Nodes: 77", "# of Edges: 254", "Dynamic Graph: no", "Dynamic Attributes: no", and "Multi Graph: no". At the bottom right, there are two radio buttons: "New workspace" (selected) and "Append to existing workspace" (unselected). At the very bottom right are "OK" and "Cancel" buttons.

Nodes	Issues
 GEXF version 1.3	INFO

Graph Type: Undirected [More options...](#)

☒ Auto-scale ☐ Create missing nodes ☐ Self-loops

Edges merge strategy: Sum

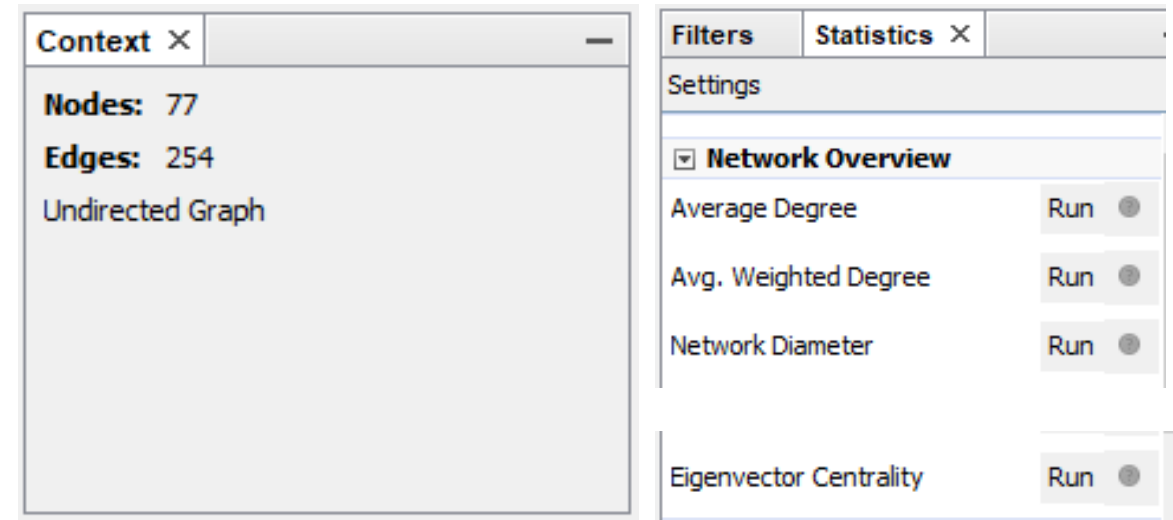
of Nodes: 77
of Edges: 254
Dynamic Graph: no
Dynamic Attributes: no
Multi Graph: no

☒ New workspace
☐ Append to existing workspace

OK Cancel

Run the Centrality Metric

- Average Degree to measure Degree Centrality
- Average Weighted Degree to measure Average Weighted Degree Centrality
- Network Diameter to measure Betweenness Centrality and Degree Centrality
- Eigenvector Centrality to measure Eigenvector Centrality



Centrality Metric Measurement Result

Gephi 0.9.2 - Project 1

File Workspace View Tools Window Help

Overview Data Laboratory Preview

Workspace 1

Data Table

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

Id	Label	Degree	Weighted Degree	Closeness Centrality	Betweenness Centrality	Eigenvector Centrality
11	Valjean	36	158.0	0.644068	1624.4688	1.0
48	Gavroche	22	56.0	0.513514	470.570632	0.995942
55	Marius	19	104.0	0.531469	376.292593	0.828965
27	Javert	17	47.0	0.517007	154.844945	0.676536
25	Thenardier	16	61.0	0.517007	213.468481	0.676495
23	Fantine	15	47.0	0.460606	369.486942	0.404673
58	Enjolras	15	91.0	0.481013	121.277067	0.816259
62	Courfeyrac	13	84.0	0.4	15.011035	0.680372
64	Bossuet	13	66.0	0.475	87.647903	0.72414
63	Bahorel	12	39.0	0.393782	6.228642	0.643606
65	Joly	12	43.0	0.393782	6.228642	0.643606
24	MmeThenardier	11	34.0	0.460606	82.656893	0.463376
26	Cosette	11	68.0	0.477987	67.819322	0.420949
41	Eponine	11	19.0	0.395833	32.739519	0.477549
57	Mabeuf	11	16.0	0.395833	78.834524	0.576256

Run the Network Structure Metric

- Graph Density to measure Network Density
- Modularity to measure Community Detection
- Connected components to measure Connected Components
- Avg. Path Length to measure Average Path Length

Graph Density	0.087	Run	?
Modularity		Run	●
Connected Components		Run	●
Edge Overview			
Avg. Path Length	2.641	Run	?



THANK YOU