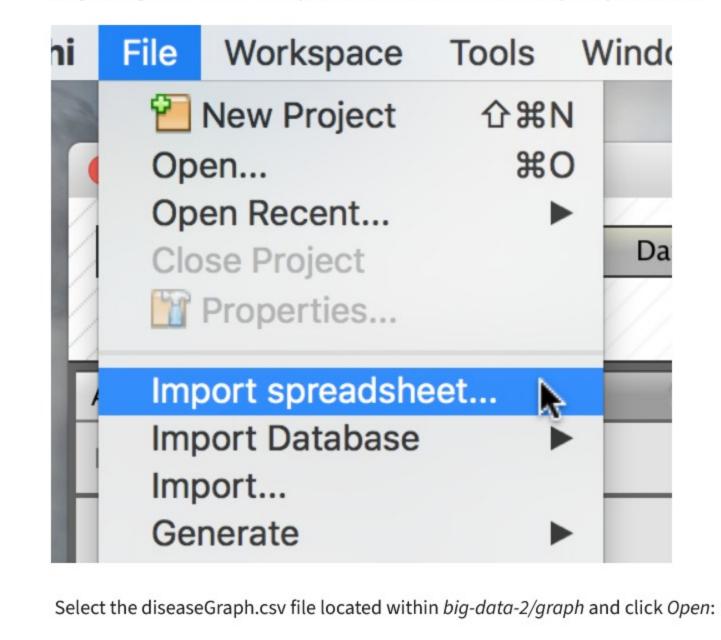
Exploring Graph Data Models with Gephi

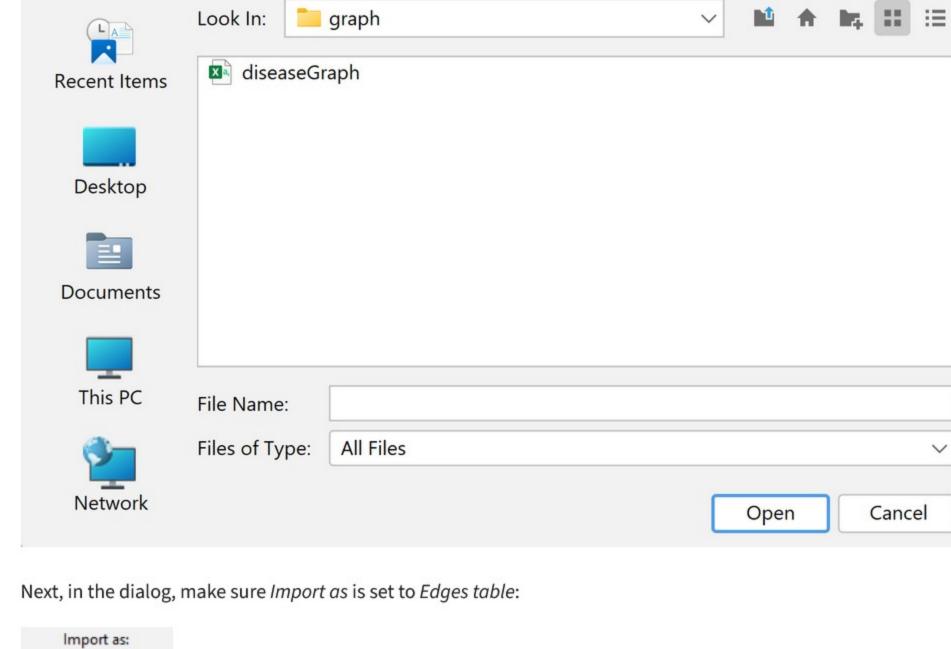
By the end of this activity, you will be able to:

- 1. Import a CSV file into Gephi
- 2. Perform statistical operations and layout algorithms on graph data in Gephi

Instructions for downloading, installing, and running Gephi can be found at https://gephi.org/users/install L. **Step 1. Import CSV file.** In Gephi, click on *File*, and choose *Import spreadsheet*:



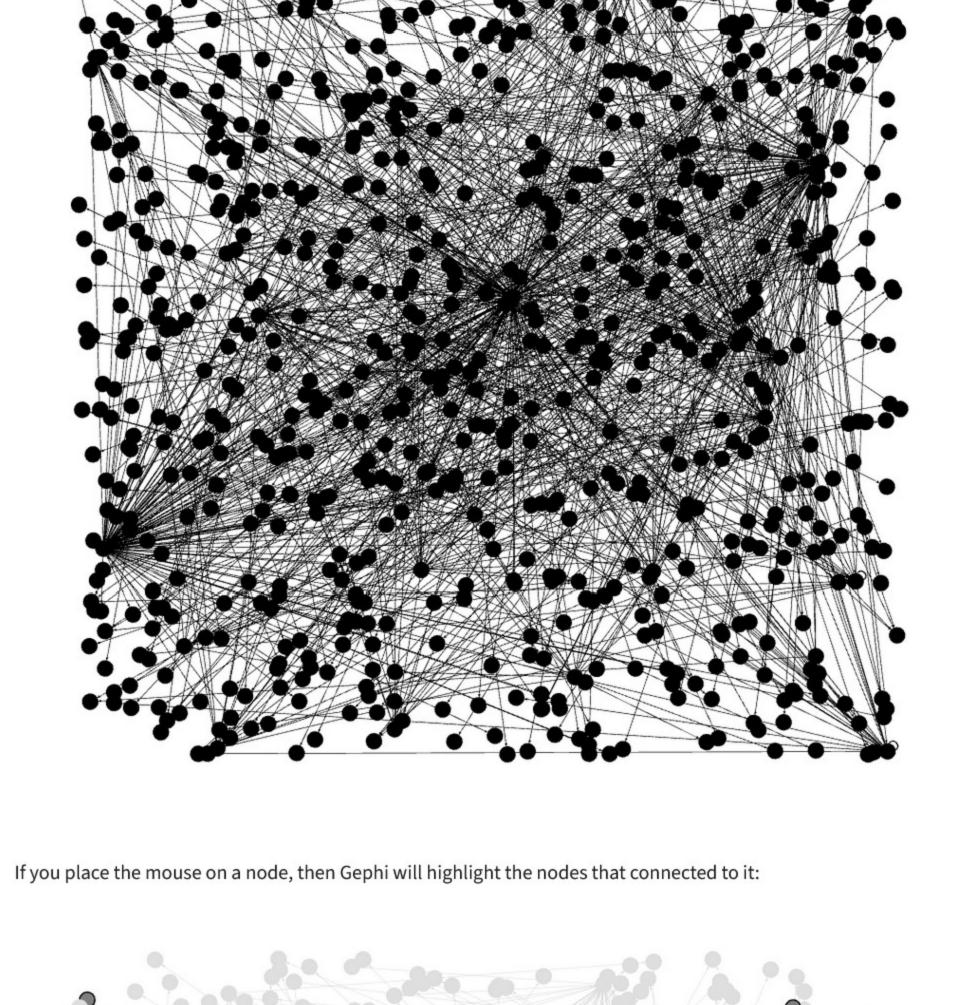
Open

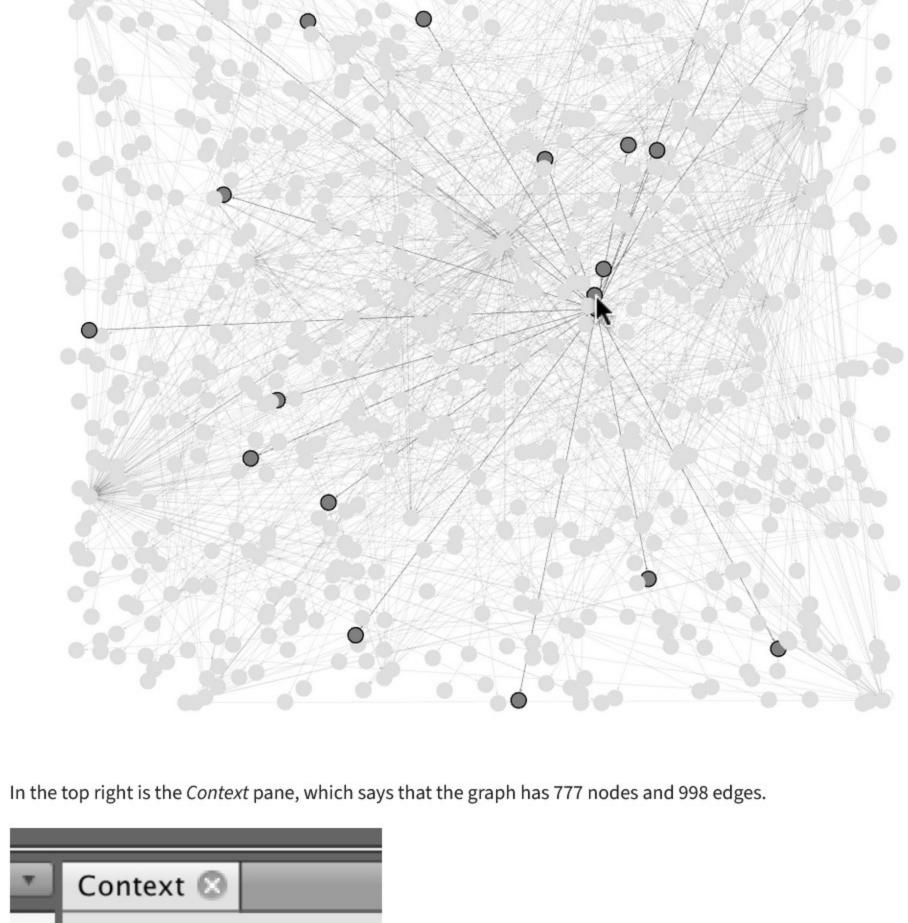


Click Next, and then click Finish to import the CSV data into Gephi.

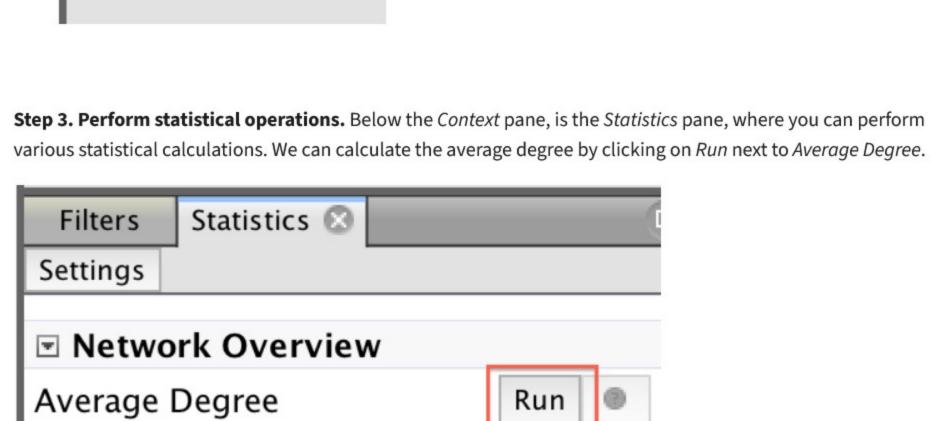
Step 2. Examine graph properties. In the middle pane, Gephi displays the graph. The black circles are the nodes, and the lines between them are the edges.

Edges table





Directed Graph



Connected Components

---Choose a layout

calculations.

Close to close the dialog.

Nodes: 777

Edges: 998

Avg. Weighted Degree Run The dialog that pops up says that the average degree is 1.284 Click on Close to close the dialog.

Next, we can calculate the connected components by clicking on Run next to Connected Components: This will

present a dialog box with the title, "Connected Components settings" and ask for either "Directed" or "Undirected"

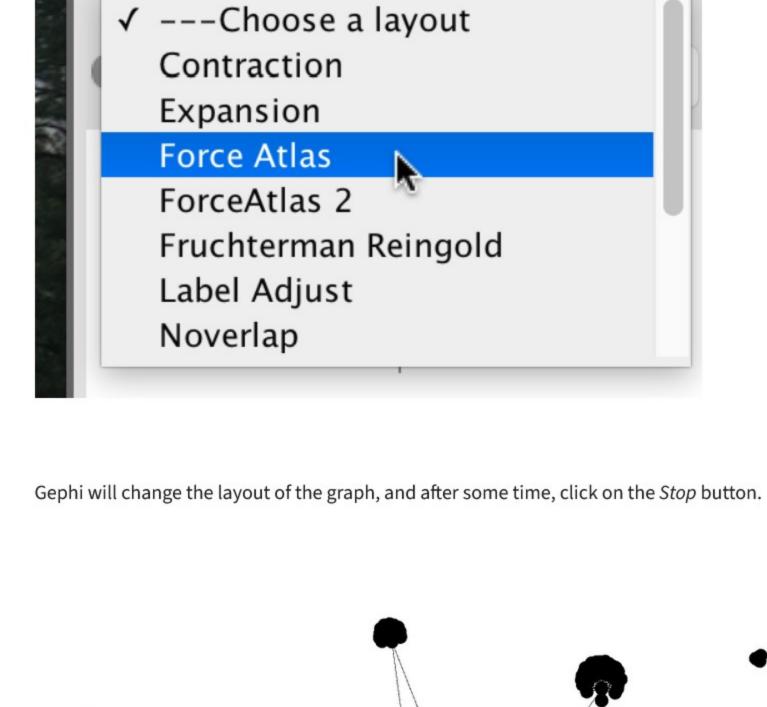
Run

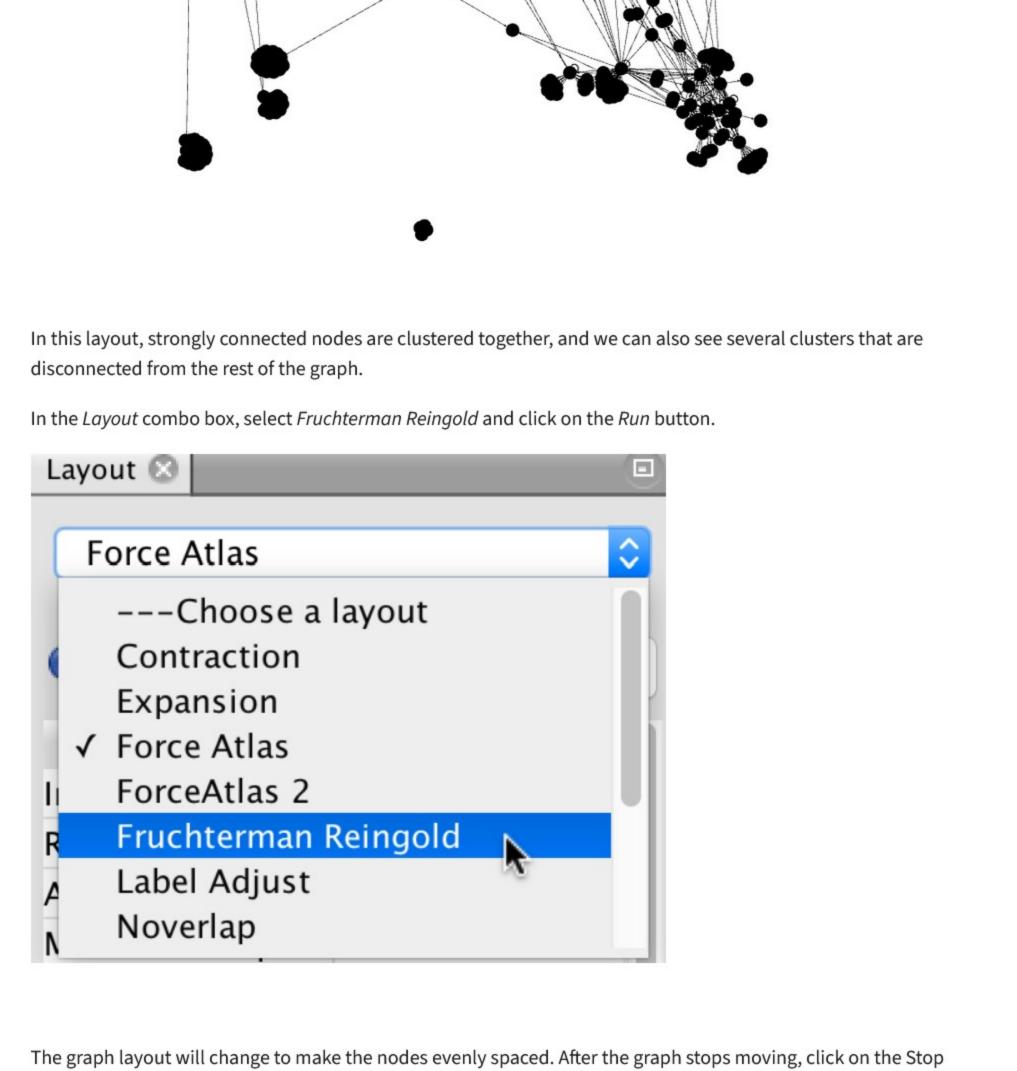
Run

the bottom left, click on the --Choose a layout combo box and select Force Atlas, and click on the Run button. Layout 🔕

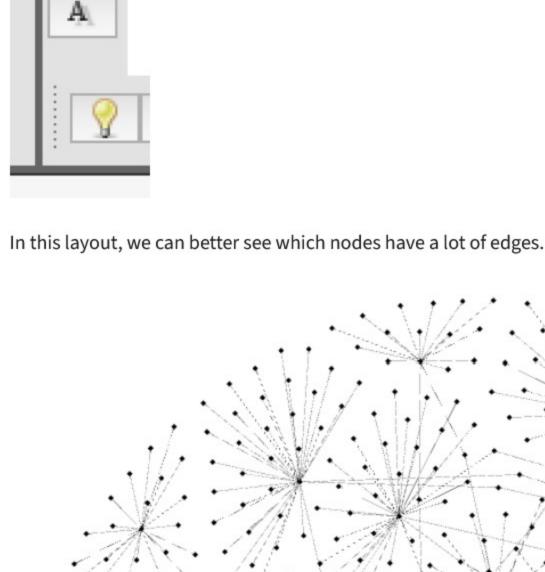
The resulting dialog says there are 5 weakly connected components and 761 strongly connected components. Click

Step 4. Run layout algorithms. Gephi can perform different layout algorithms on the graph. In the Layout pane on





button, and then on the magnifying glass icon in the middle-left bottom to center the graph.



Go to next item

✓ Completed