

# User manual

## Setup

1. Download NPM if not present in your device. You can download it from this link: <https://nodejs.org/en/download>
2. In the directory of the project, type “npm list” to make sure vis.js is installed which it should be
3. Run the software by opening the index.html file on your browser.

How to use the software:



Importing files:

Click the “choose file” button and select a .txt file which contains DIMACS data, the graph will automatically load. Two DIMACS file are provided in the project directory for all algorithm. Graph must be empty for this option to work (no added nodes)

Creating graphs:

- Click Add nodes to create new nodes to the graph.
- Click on a node (will be highlighted) and click delete node to delete.
- Click on a node (will be highlighted), select a node in the drop-down menu, specify edge length, and click new edge to create an edge between that node and an edge.

Running algorithms:

After creating / importing a graph, click either the BF, DF, or DIJ button to run either breadth first, depth first or Dijkstra’s accordingly.

### Running Depth First Algorithm



Use these buttons to either move the algorithm backwards, forward or pause and play. When wanting to create a new graph or perform a new algorithm, just refresh the page.