Graph Visualizer

My Graph Visualizer visualizes a graph from a set of vertices and edges. At first load, it will generate a graph based on the default files found in the project folder named Vertex Data.txt and Edge Data.txt. You can also add vertices by name and edges by using the index of the vertices and the weight of the edge. The vertices in the canvas are draggable. The program can also calculate the shortest path between two vertices. It will change the colors of the edges in its search order to visualize the path. The cost of the shortest path will also be shown by a message box. Lastly, it has a "Clear Graph" and "Reload Default" function. The former will delete the graph from view while the latter will restore the default graph based on the default files in the project folder.

Add Edge

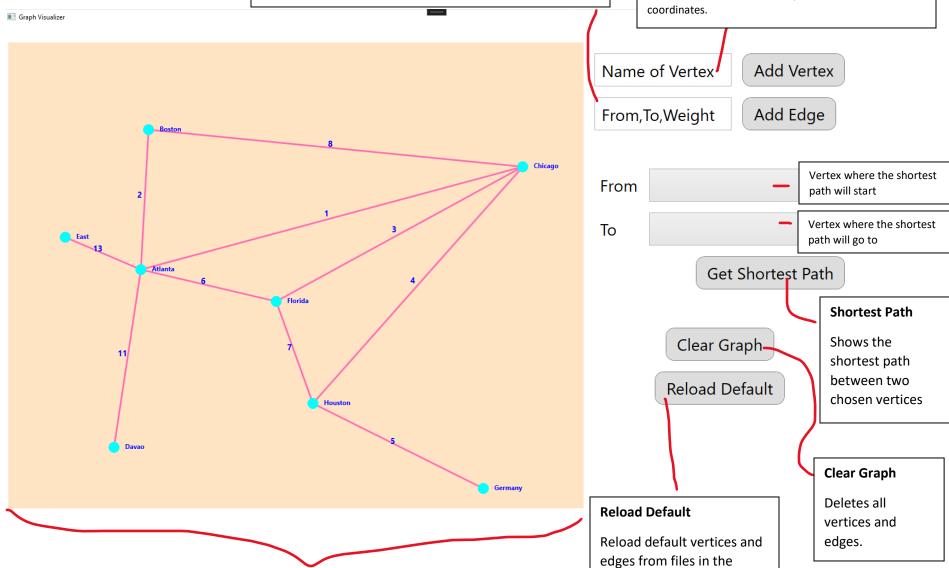
Graph Visualizer

Data of edge to be added to the graph. The format is (int, int, float). From and To are the indices of the vertices.

Add Vertex

folder.

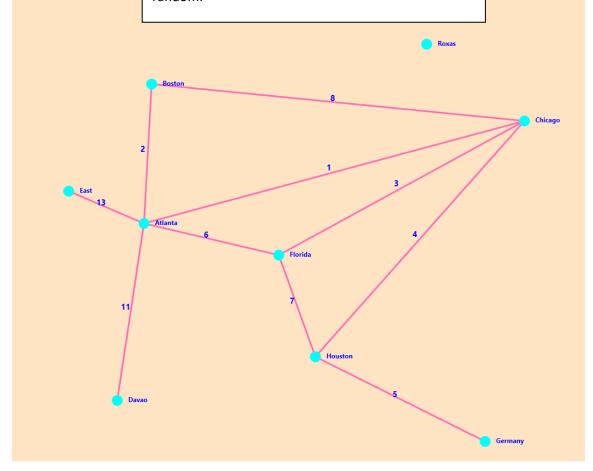
Data of Vertex to add. The input will be the name of the vertex. It will be added to the plane with random coordinates.



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Graph Visualizer

This is where you can see the various Vertices and Edges of the Graph. The vertices' positions are random.



Roxas

Add Vertex

From, To, Weight

Add Edge

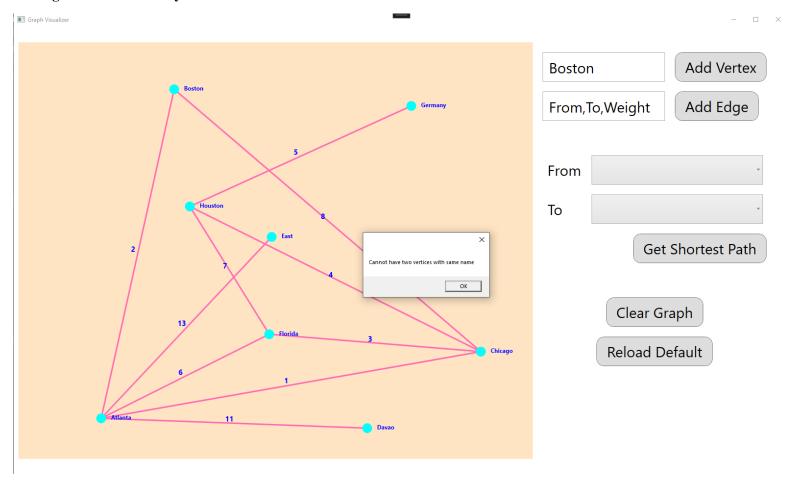
From

Get Shortest Path

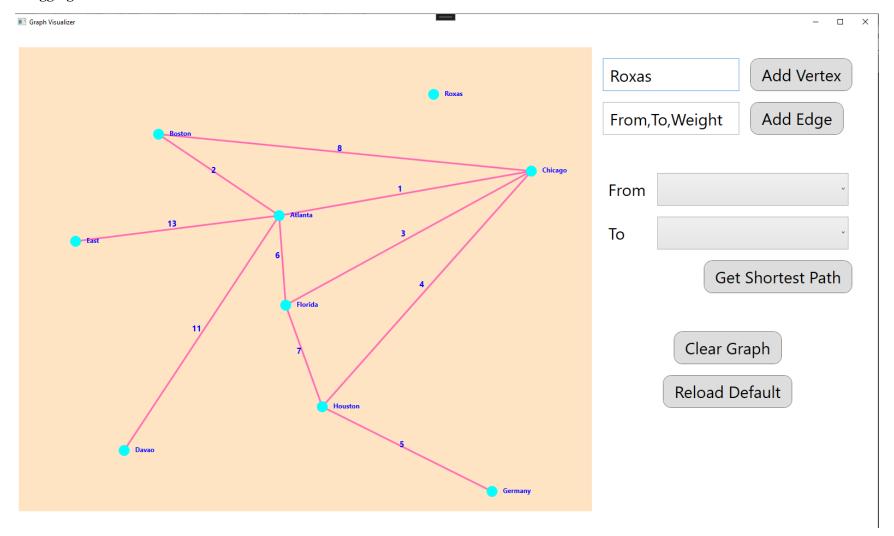
Clear Graph

Reload Default

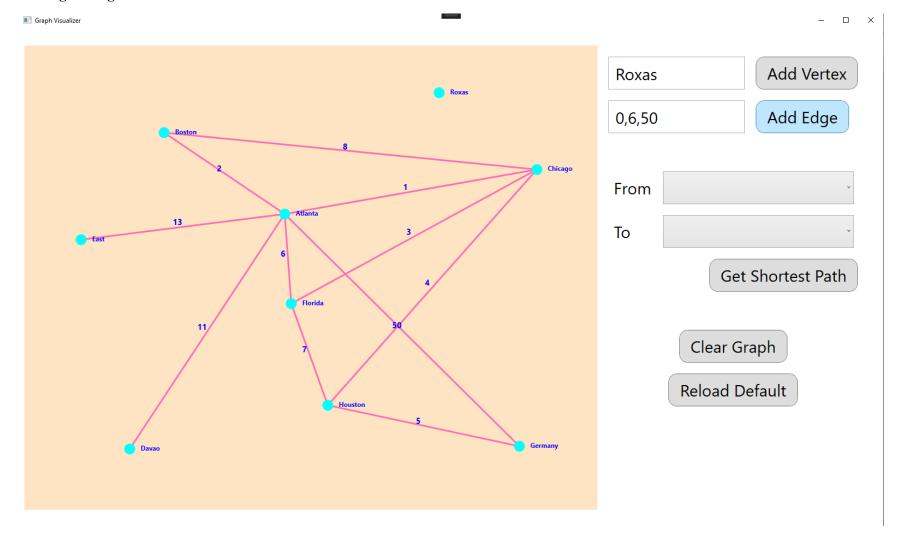
Adding vertex that already exist



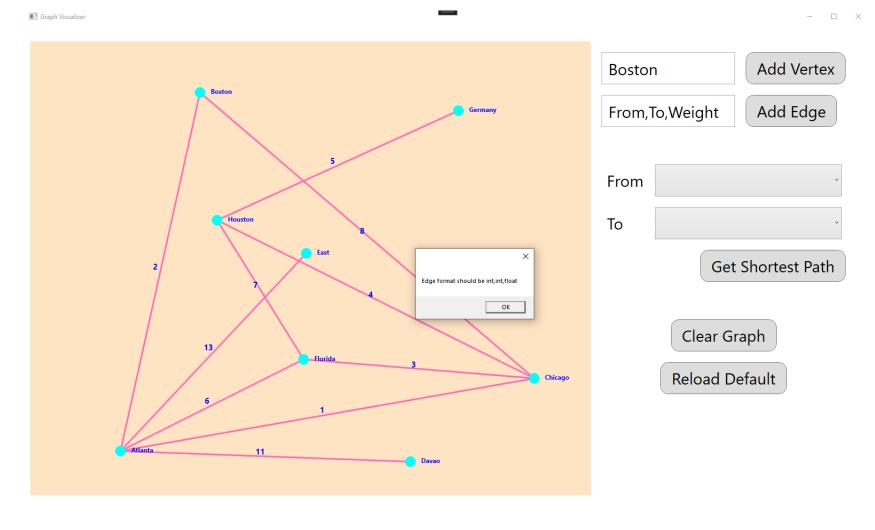
Dragging

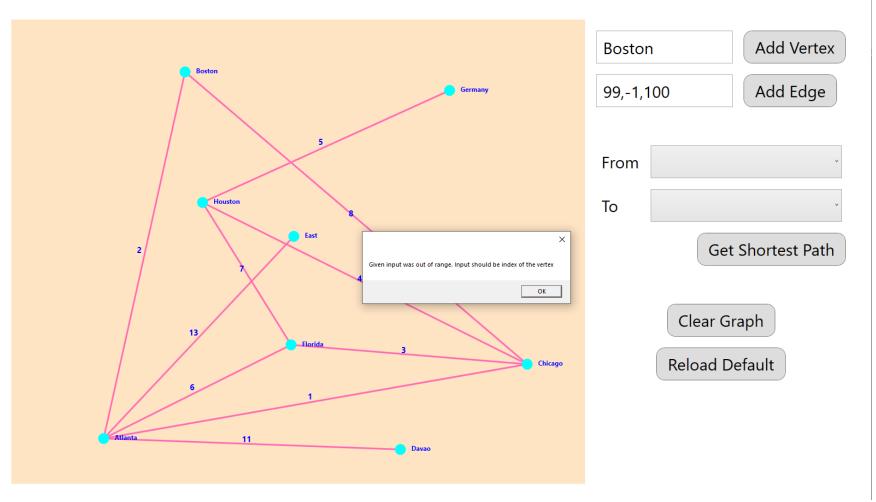


Adding an Edge



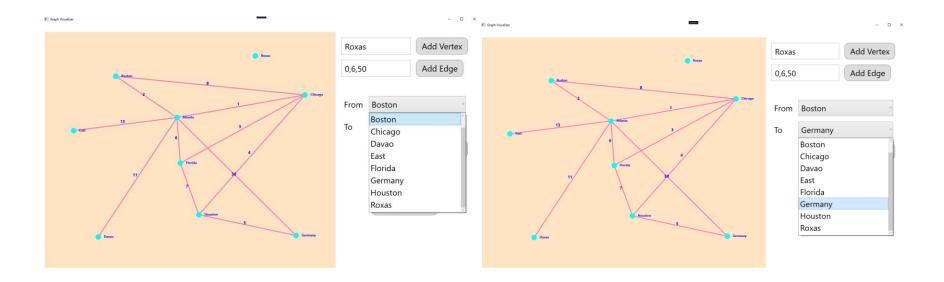
Add Edge Errors



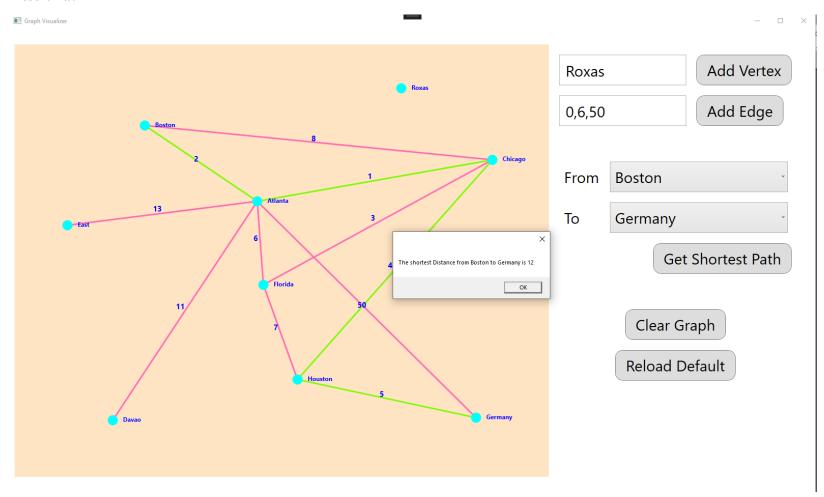


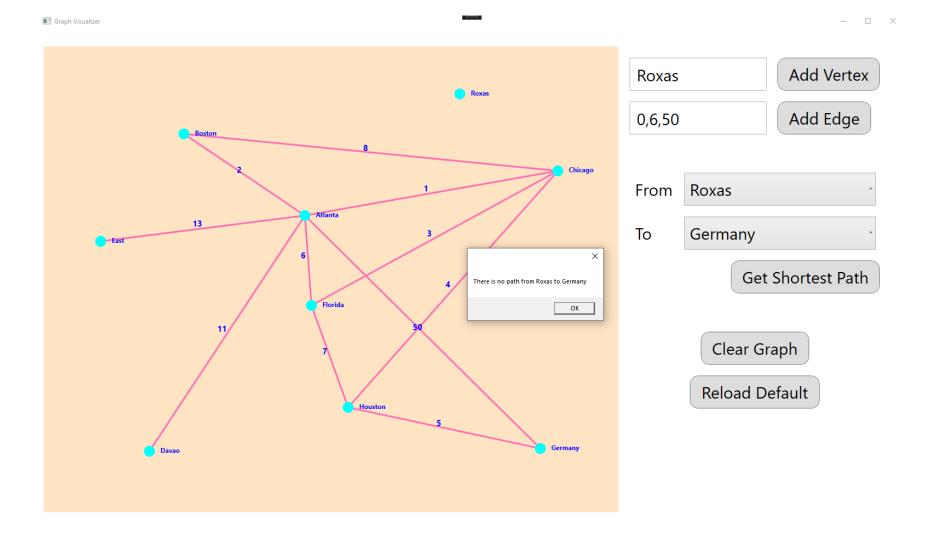
Calculating Shortest Path

Choosing Vertices:

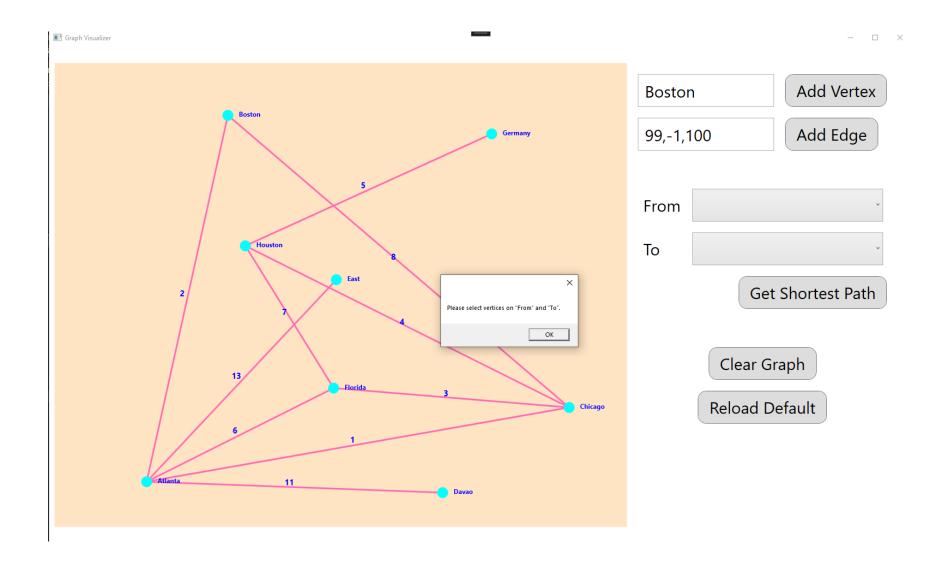


Result Path

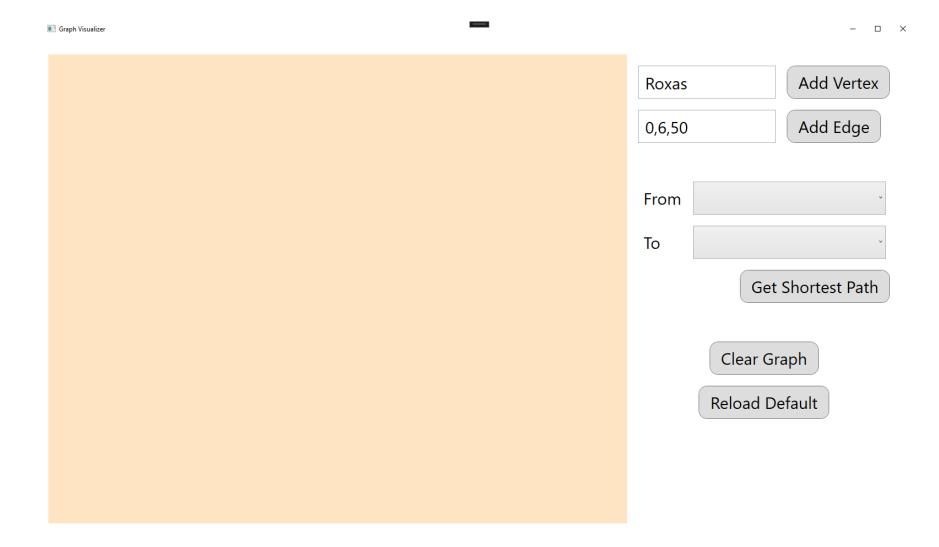


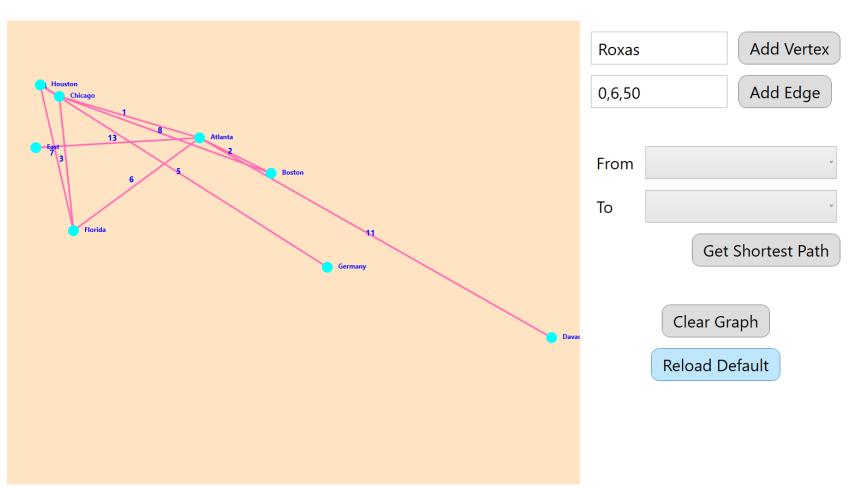


Shortest Path Error



Clear Graph





The vertices' positions are random

Default Files are found in the folder named as Vertex Data and Edge Data

.vs	10/22/2022 3:26 PM	File folder	
Graph Visualizer	11/3/2022 11:57 PM	File folder	
Graphs	11/3/2022 10:36 AM	File folder	
Edge Data	10/26/2022 12:33 PM	Text Document	1 KB
🛂 Graph Visualizer.sIn	10/23/2022 11:11 AM	Visual Studio Solu	2 KB
Graph Visualizer.sln.DotSettings	11/2/2022 1:05 PM	DOTSETTINGS File	1 KB
🔊 Graph Visualizer.sln.DotSettings.user	10/25/2022 5:34 PM	Per-User Project O	1 KB
Vertex Data	11/3/2022 6:15 PM	Text Document	1 KB
Edge Data Graph Visualizer.sln Graph Visualizer.sln.DotSettings Graph Visualizer.sln.DotSettings.user	10/26/2022 12:33 PM 10/23/2022 11:11 AM 11/2/2022 1:05 PM 10/25/2022 5:34 PM	Text Document Visual Studio Solu DOTSETTINGS File Per-User Project O	2 KB 1 KB 1 KB