# User Manual for Mini-Google Map

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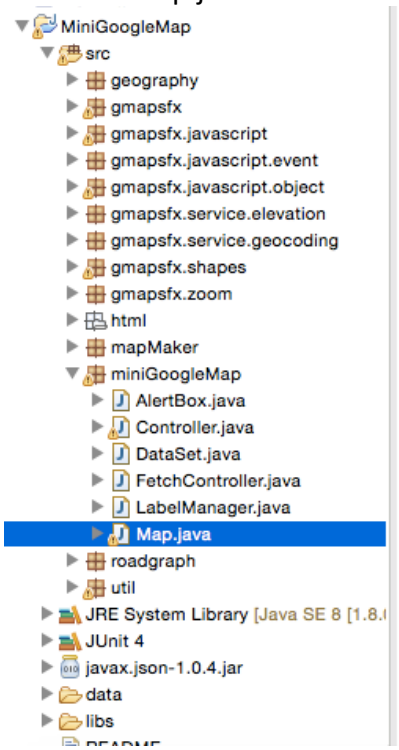
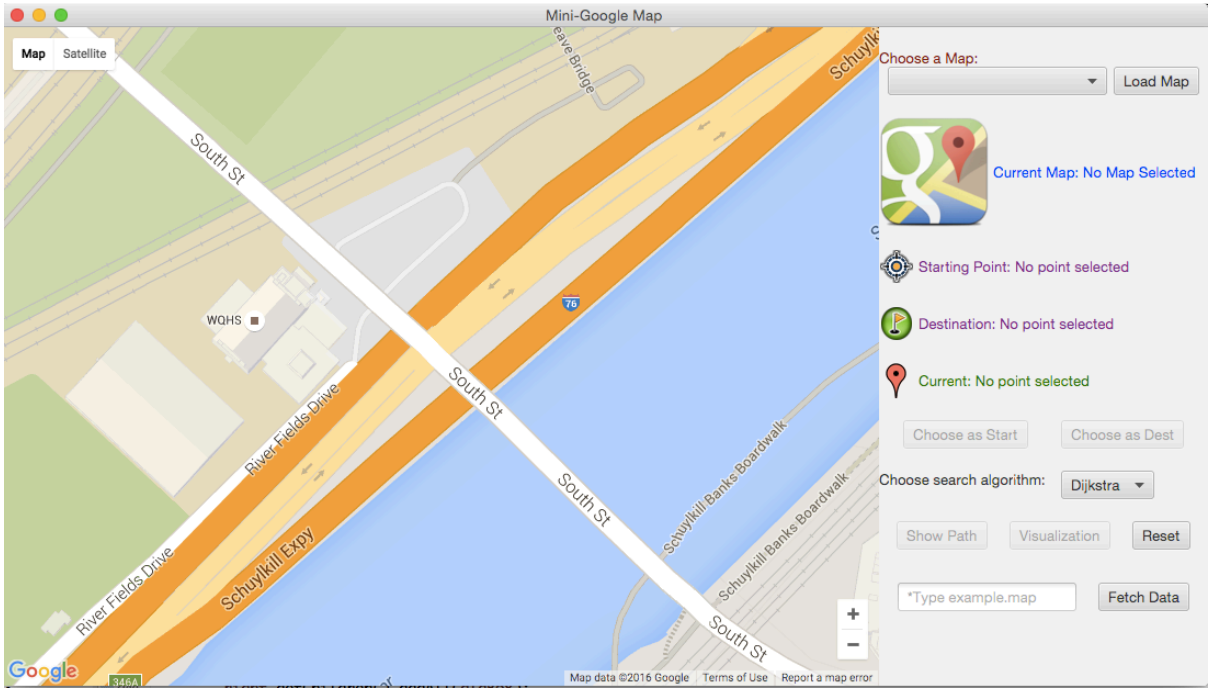
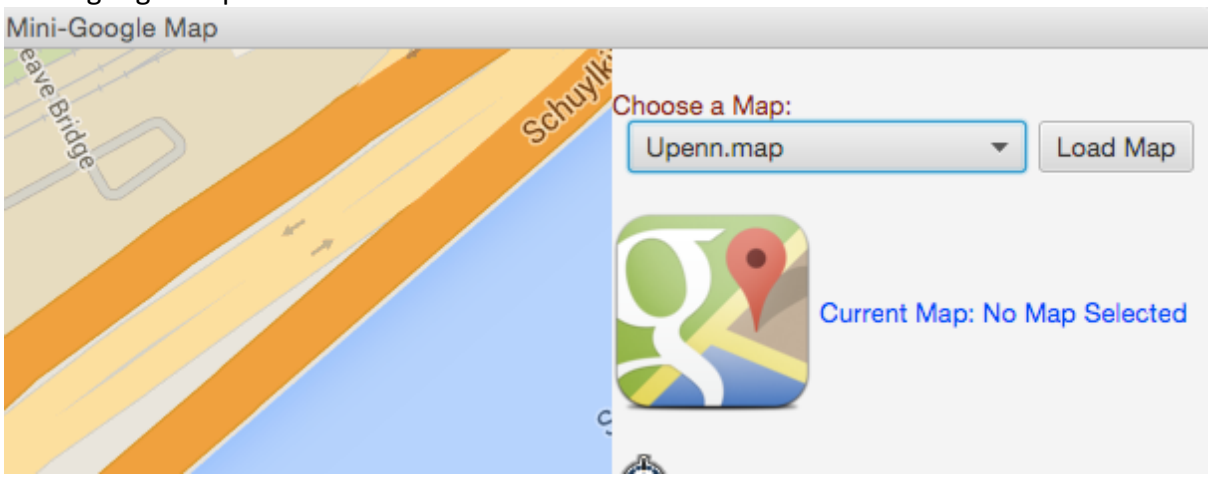
1. Go the map.java under miniGoogleMap package, that's the entry of our map app.



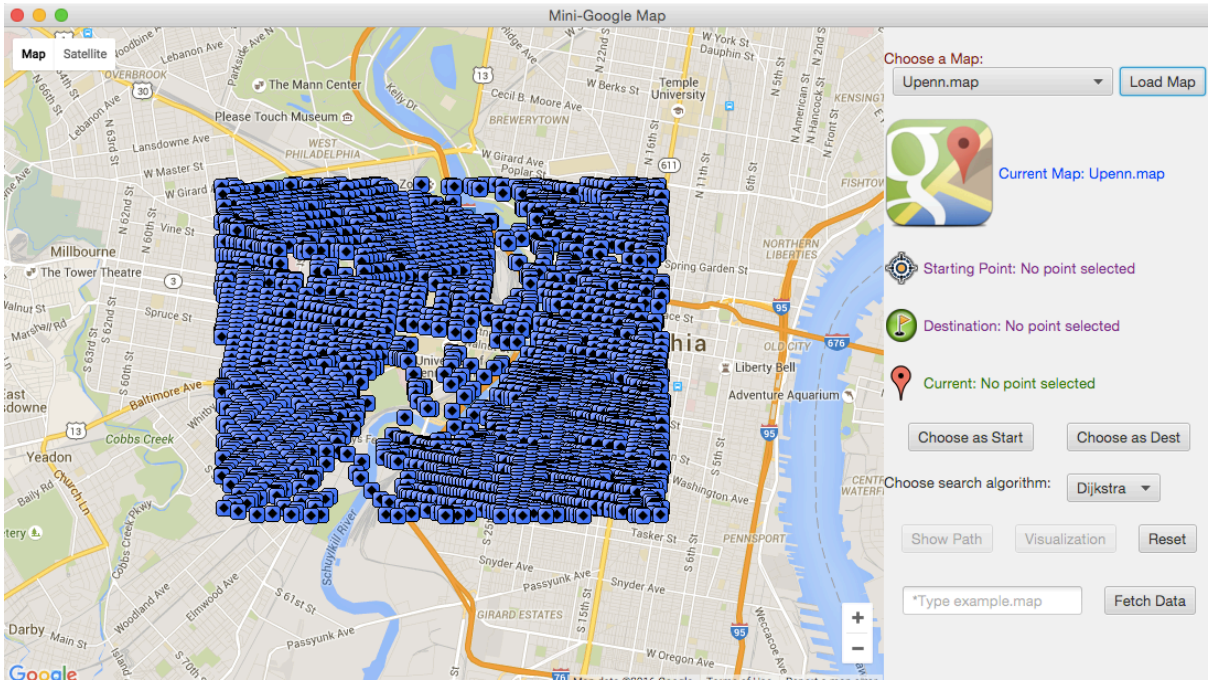

2. We're able to view the map in road map or satellite mode provided by the GmapsFx API, of course we could zoom in.
You can find all the functionalities in the panel box on the right.



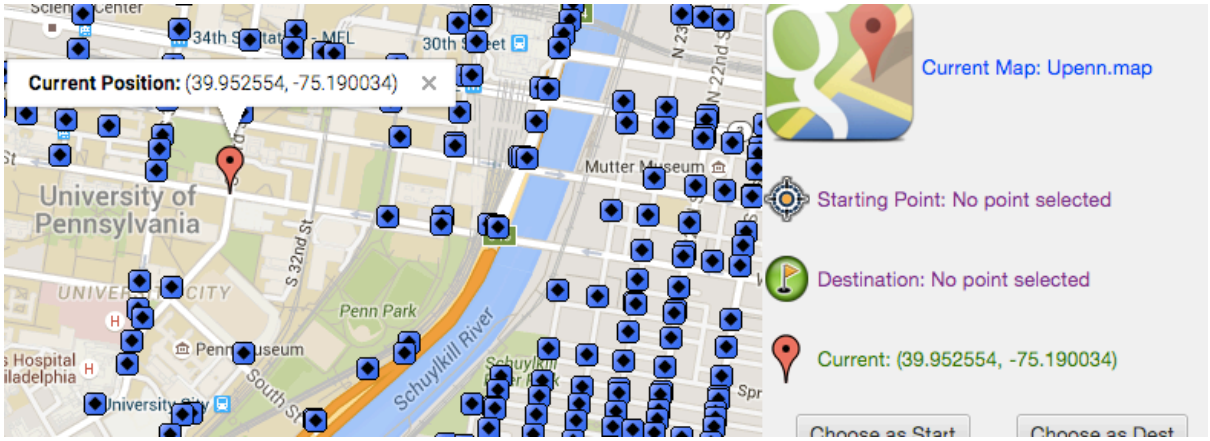

3. we could select map we want to load in the drop-down menu, choosing Upenn.map for example, and then click the Load Map button, the intersections (blue dot) will be displayed in the google map viewer.



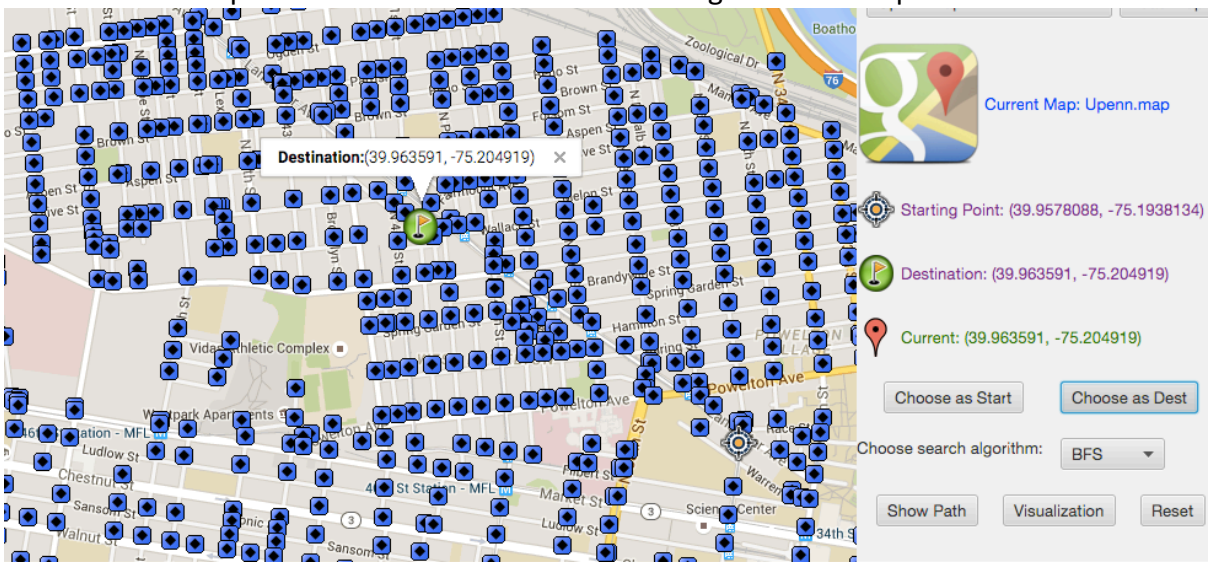

now the Current map is Upenn.map.



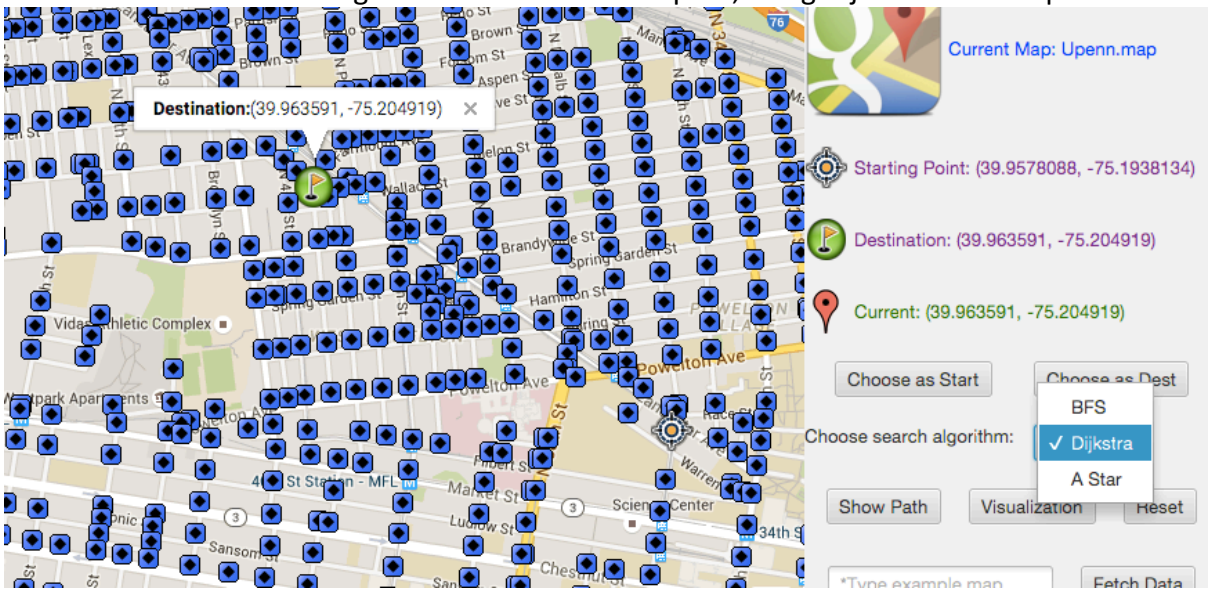

Click a place in the map, it'll show the current lat and lon in both the label and the map viewer.



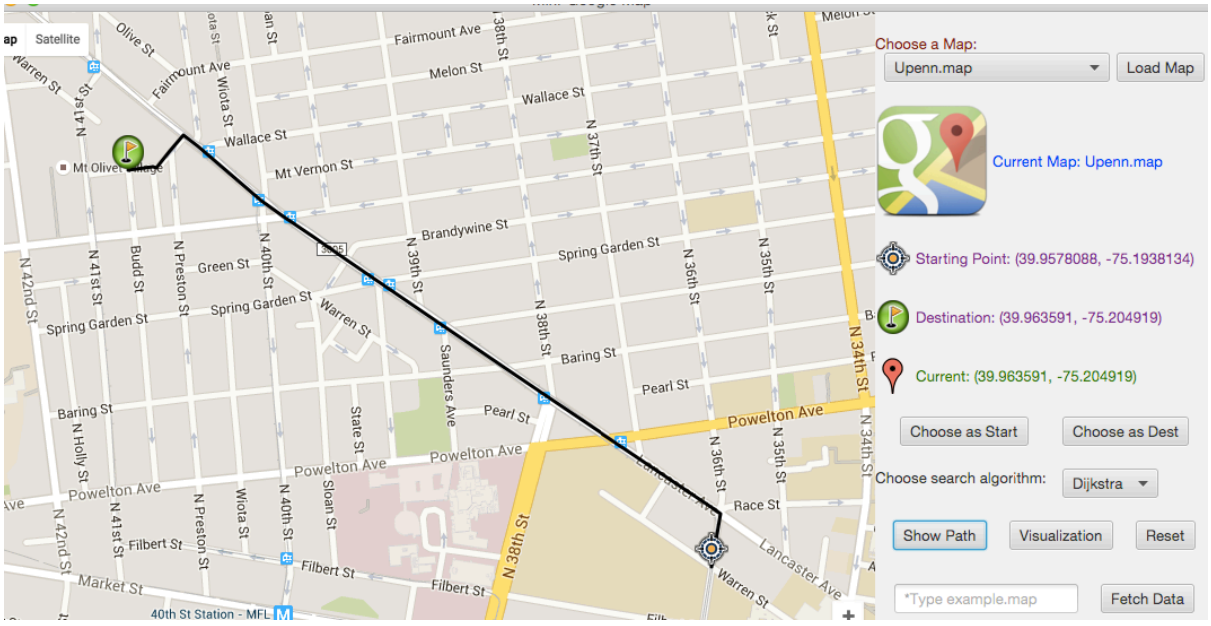

4. Choose a start point and a destination for calculating the shortest path



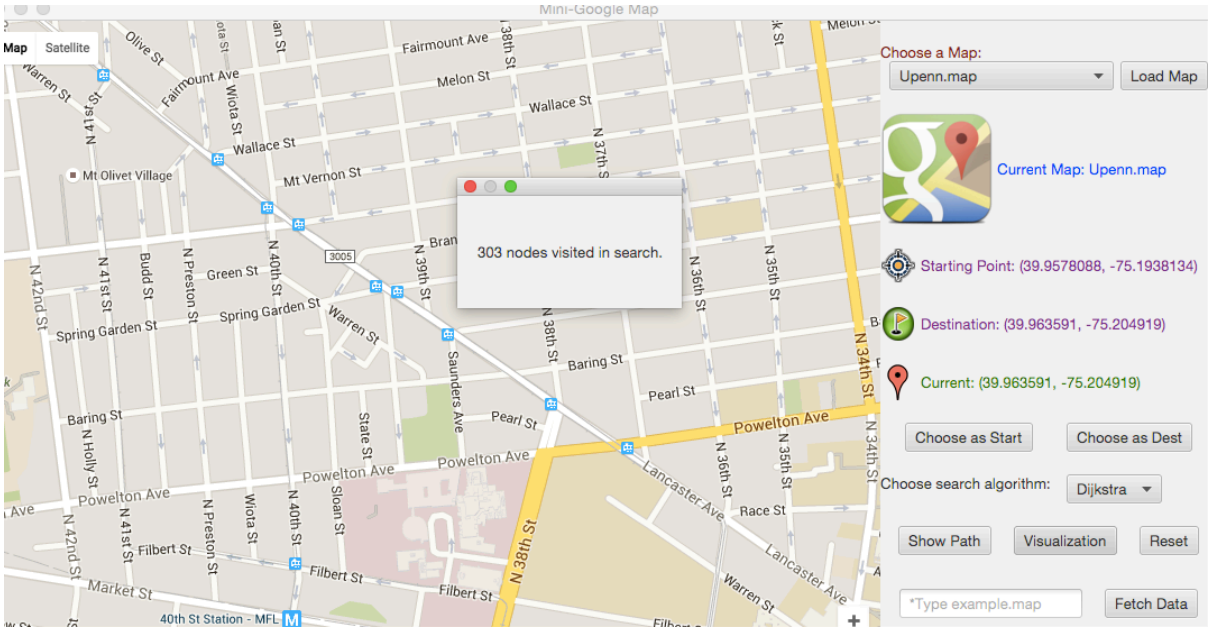
We can choose different algorithm to calculate the path, using Dijkstra for example.



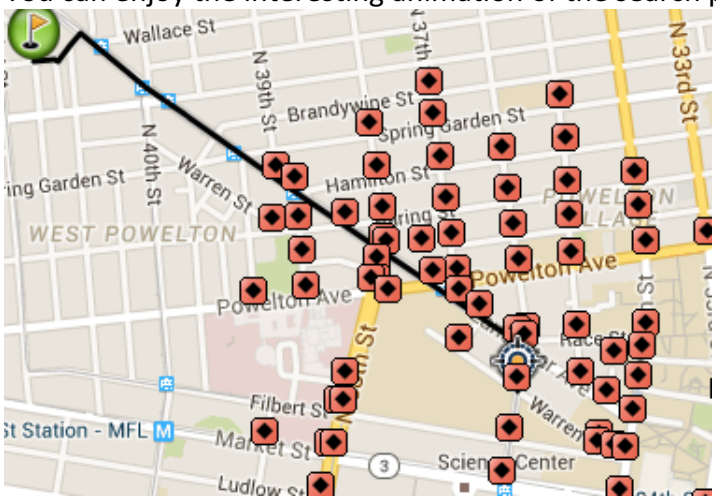

after we click Show Path button: we'll see the shortest path. After we show the path, we'll also be able to use the Visualization button



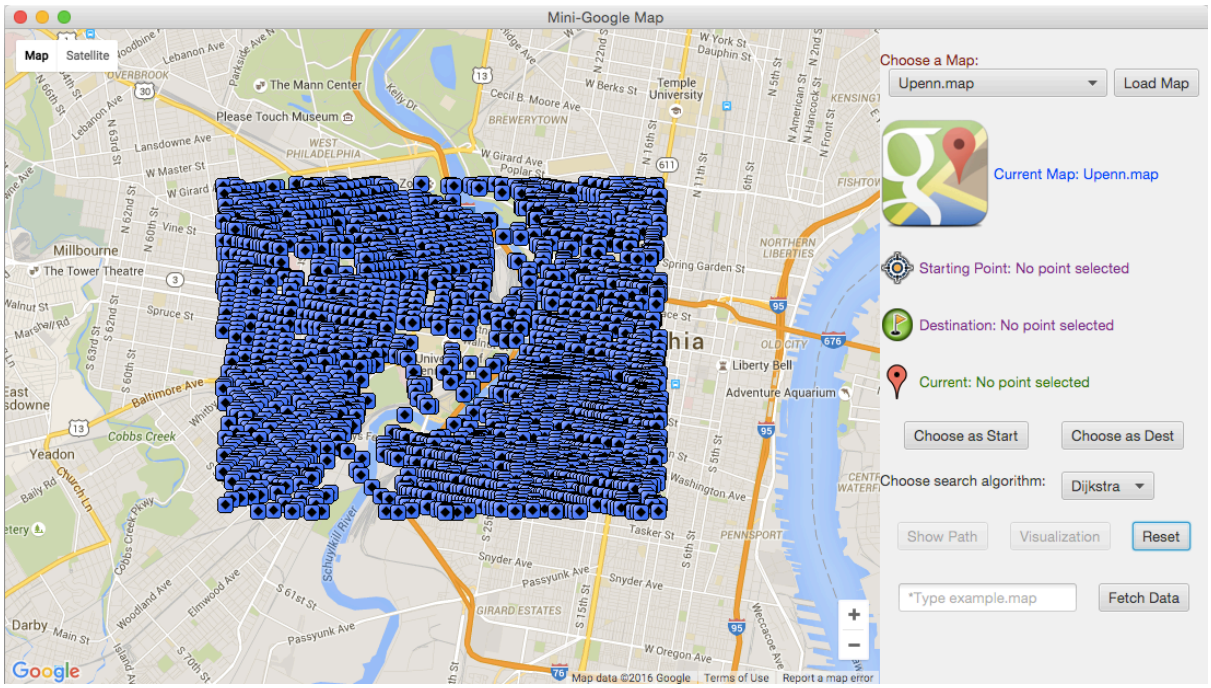

All the visited nodes will be displayed in the order they were explored once the visualization button is pressed (along with how many node are visited in the search process):




You can enjoy the interesting animation of the search process.




You can reset for another path calculation and visualization, which brings us back to the whole view, and the Show Path and Visualization buttons are again disabled.



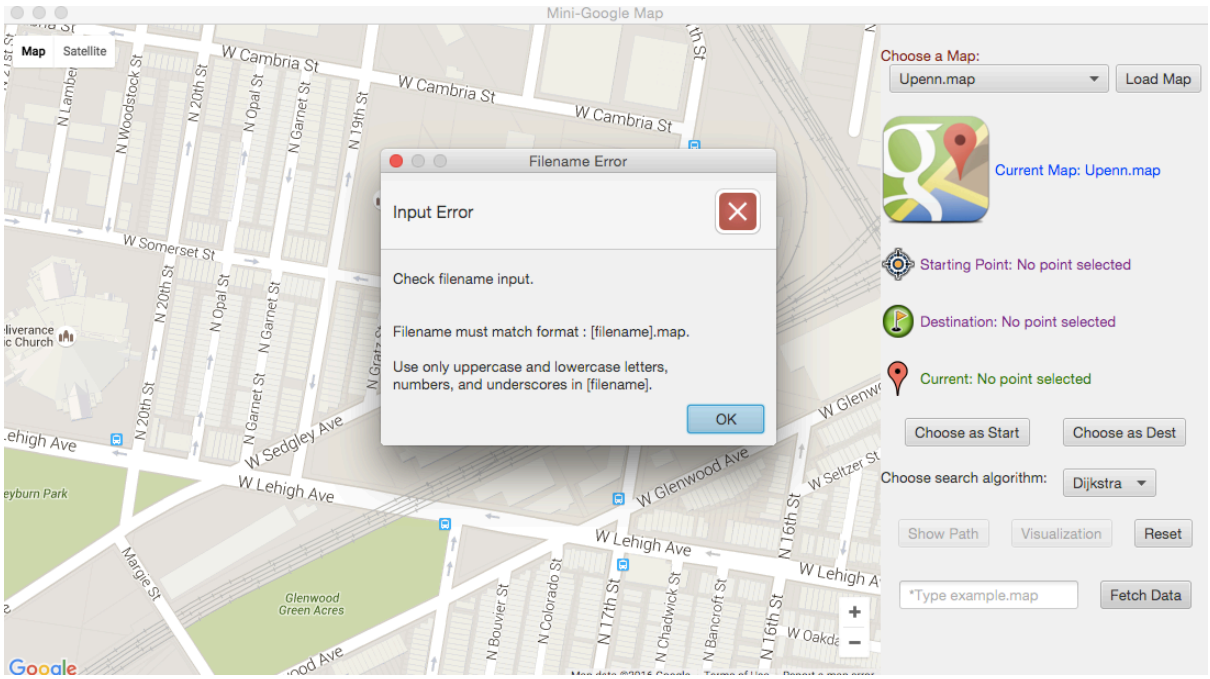

5. Data Fetching:

You can create your own map via our map:

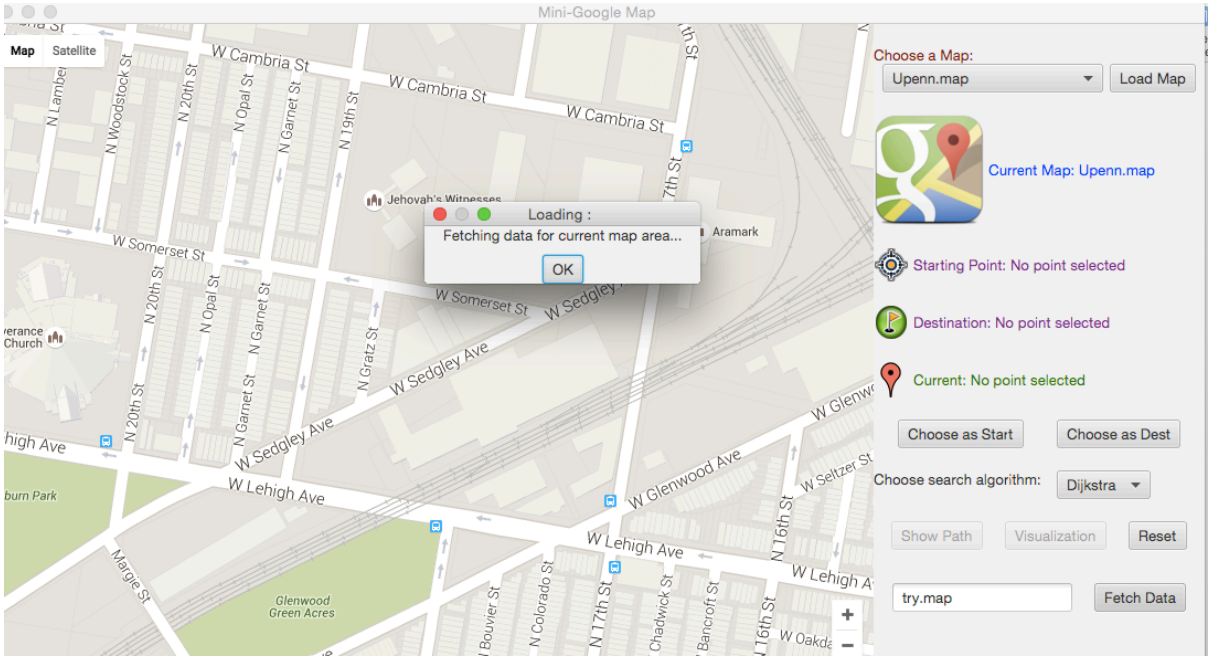
(1) Locate the map viewer to a specific area you want for the map file.

(2) Give the new map a name (format: /*your map*/.map ).

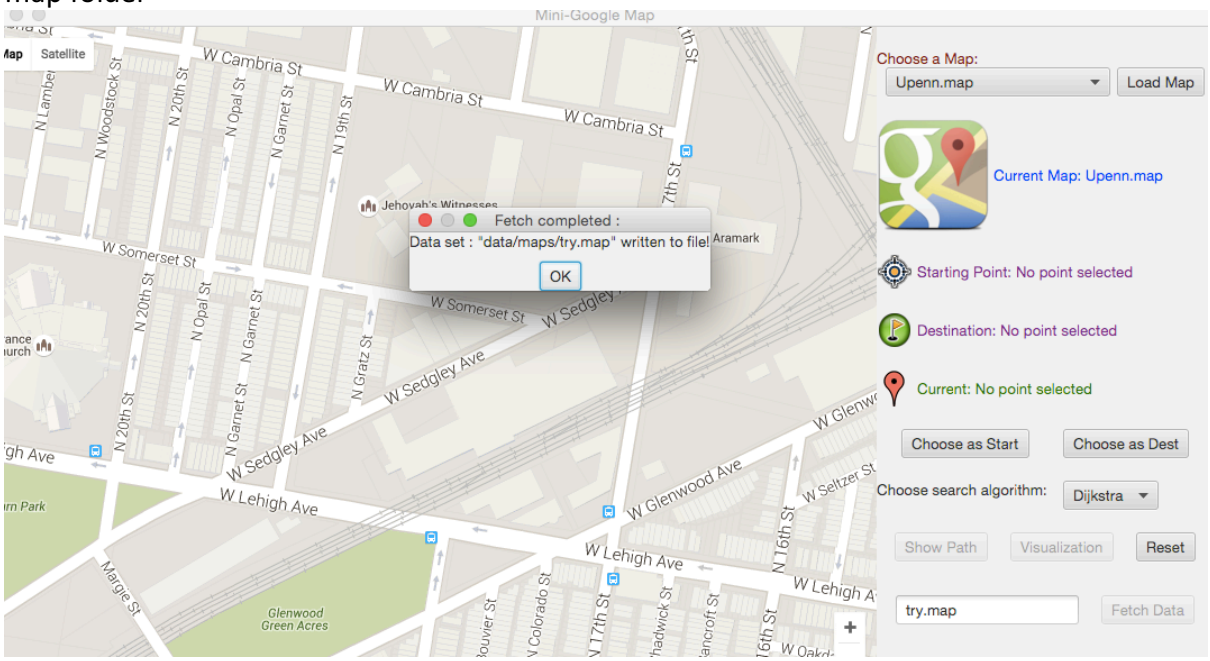
(3) Press fetch data and when the map is successfully created, you can find the map in the dropdown menu and load it.



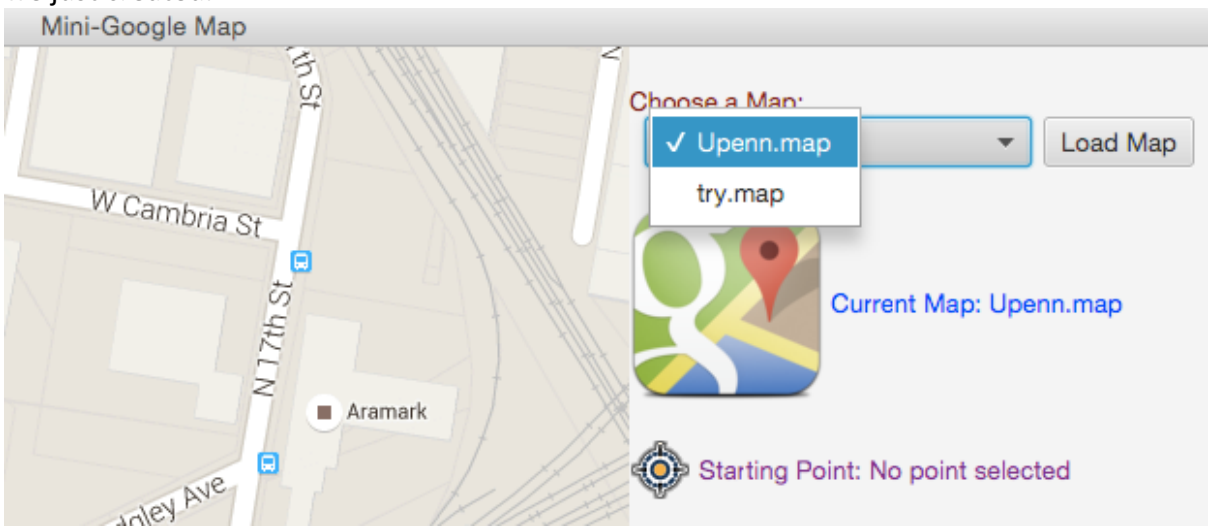

Now type in name according to the prompt in the text field, and click Fetch Data. A second window says data are being fetched




Wait for few seconds, another window will prompt the .map have been created and put our map folder

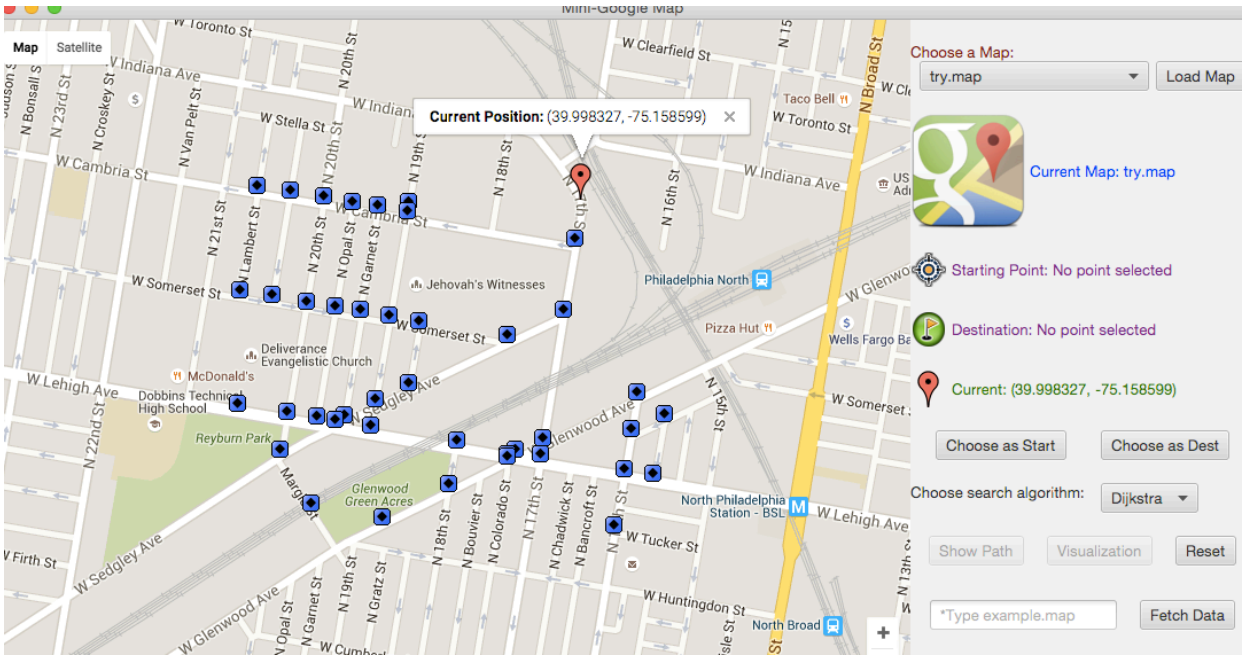


Go to the drop-down menu as we did for the Upenn.map, and now we'll see a new map file we just created.

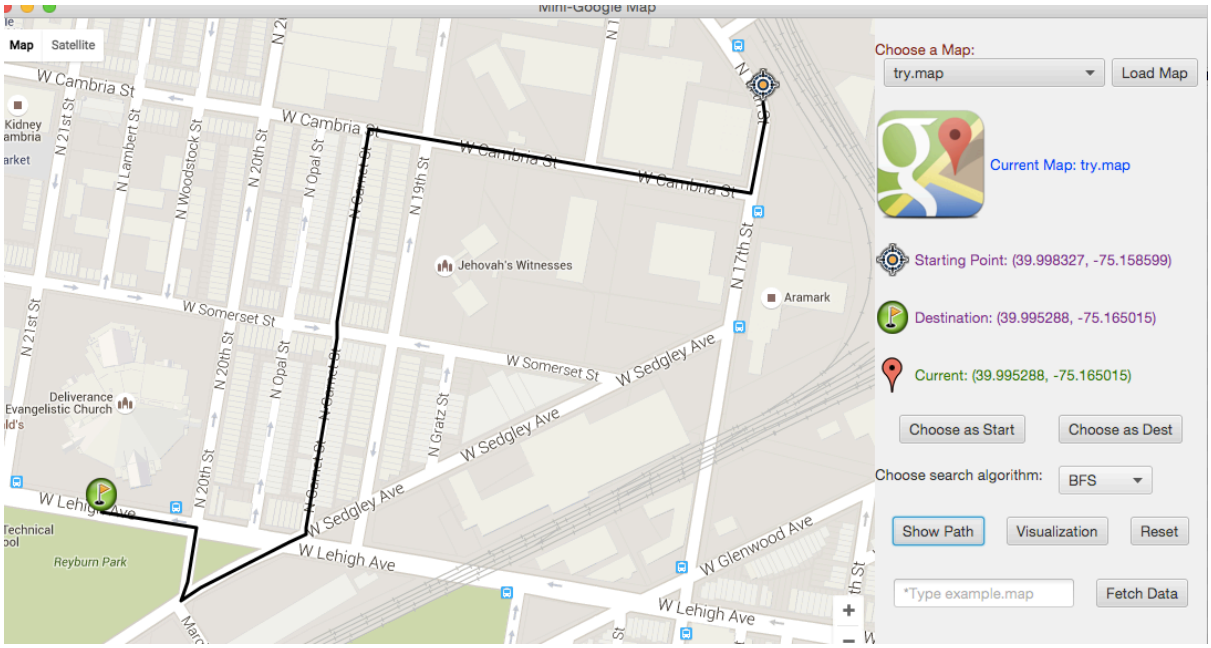



Load this new map file

Now we' re able to see all these blue points, use them to get path between 2 points.




Show path




Visualization