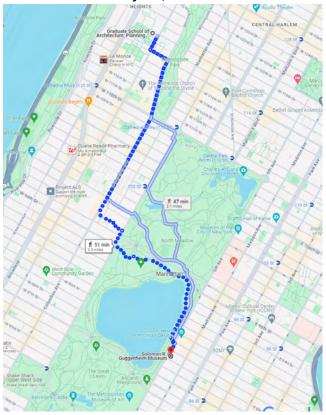
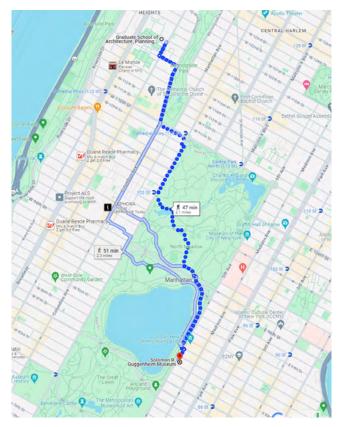
Is the Suggested Route Truly the Best Option?

Google Maps typically suggests the quickest and most direct route for walkers, but is this path truly the best? For instance, is it safe? To verify, I conducted an experiment.

From: Avery Hall, Columbia University Distination: Solomon R. Guggenheim Museum

Data & Time: July 24, 2024 at 10:00 a.m.







Option 1

Distance: 2.1mi Time: 51m

Option 2 (Google Recommended)

Distance: 2.1mi Time: 47m

- 1. Travel via W 110th St until Central Park W. 2. Turn SW until 103 St Sta.
- 3. Walk thru Central Park to the destination.

Option 3

Distance: 2.3mi Time: 51m

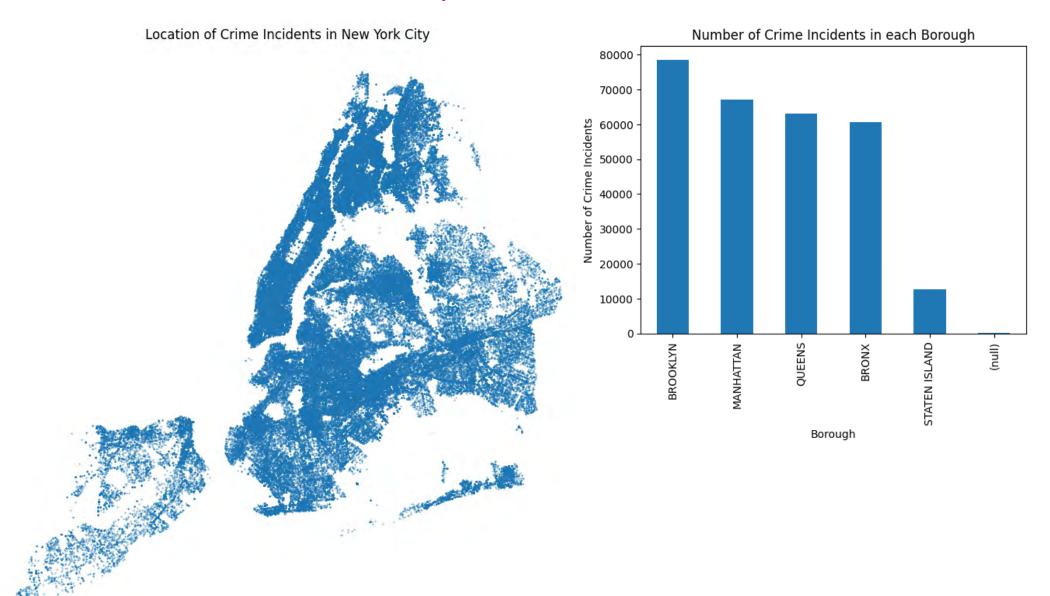
1. Travel via W 110th St until Duke Ellington Circle. 2. Turn SW until the destination.

- 1. Travel via Columbus Ave until W 97th St. 2. Turn SE thru 97th St Transverse until 5th Ave.
 - 3. Turn southwest to your destination.

What it can tell me: Safety of the routes

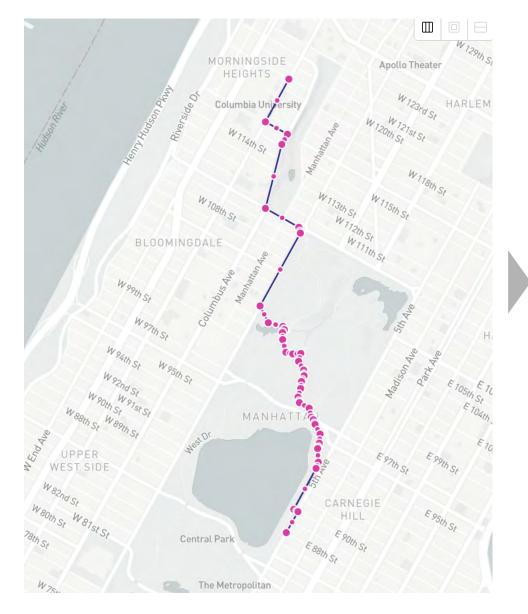
Where I got it: NYC OpenData, play.placemark.io

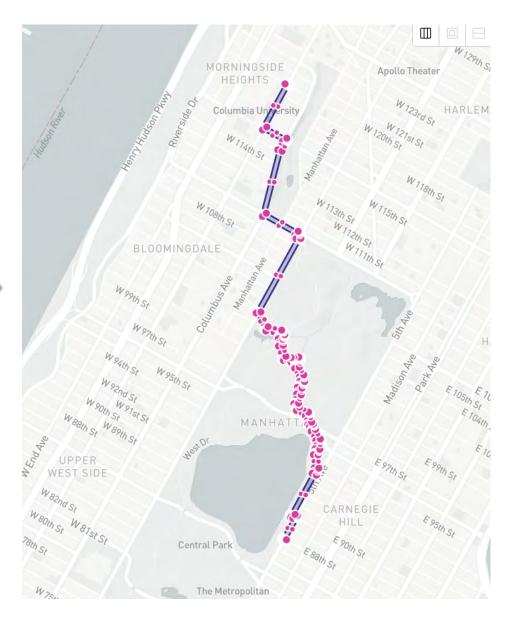
- 1. Locate the crime location dataset for NYC for the first half of 2024 on NYC OpenData.
- 2. Visualize the Number of Crime Incidents in New York City



Advantageous Option

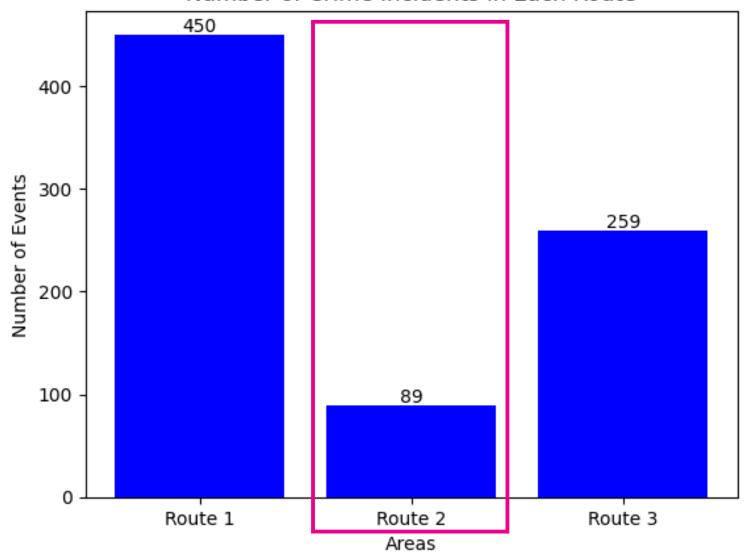
- 1. Use play.placemark.io to delineate the three walking path on a map.
- 2. Offset the route to create a 50 ft wide area.
- 3. Save the areas as GeoJSON files.





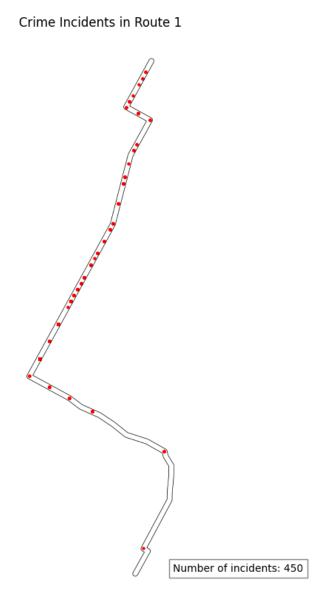
- 1. Use geojson files as filters to delimit the scope of calculations.
- 2. Calculate the number of crime incidents within each of the three walking path.

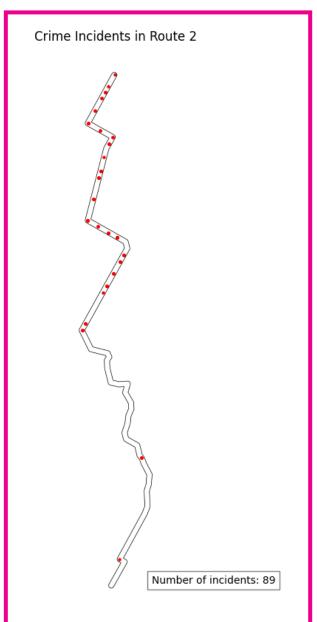


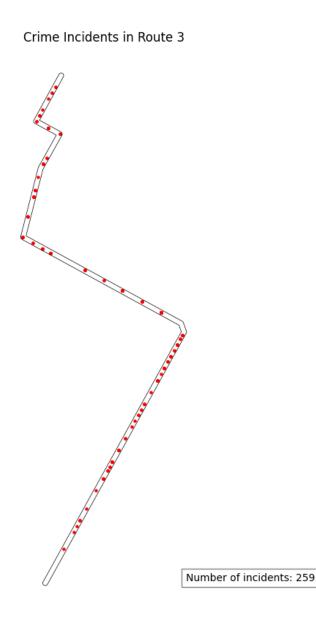


Advantageous Option

- 1. Visualize each walking path on the map and locate the crime incidents within the path (scope: 50 feet)
- 2. Note: Some of the crime incidents occurred in the same location.

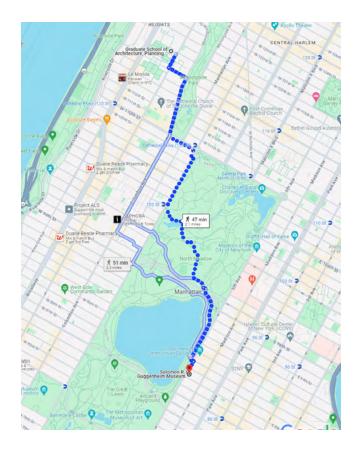






Conclusion:

The walking path/route recommended by Google Maps is not only the fastest, shortest, but also the safest.



Option 2 (Google Recommended)

Distance: 2.1mi Time: 47m

- Travel via W 110th St until Central Park W.
 Turn SW until 103 St Sta.
- 3. Walk thru Central Park to the destination.