

A New And Improved PTNY Trailfinder

John Marino, Mohawk Valley GIS

About PTNY

Parks and Trails New York works to expand, protect and promote a network of parks, trails, and open spaces throughout our state for use and enjoyment by all.

About Mohawk Valley GIS

GIS Services, Interactive Web Map Development, App Development, and General Web Development company primarily serving municipalities, businesses, non-profits, and tourism agencies.



BikeAlbanyMap

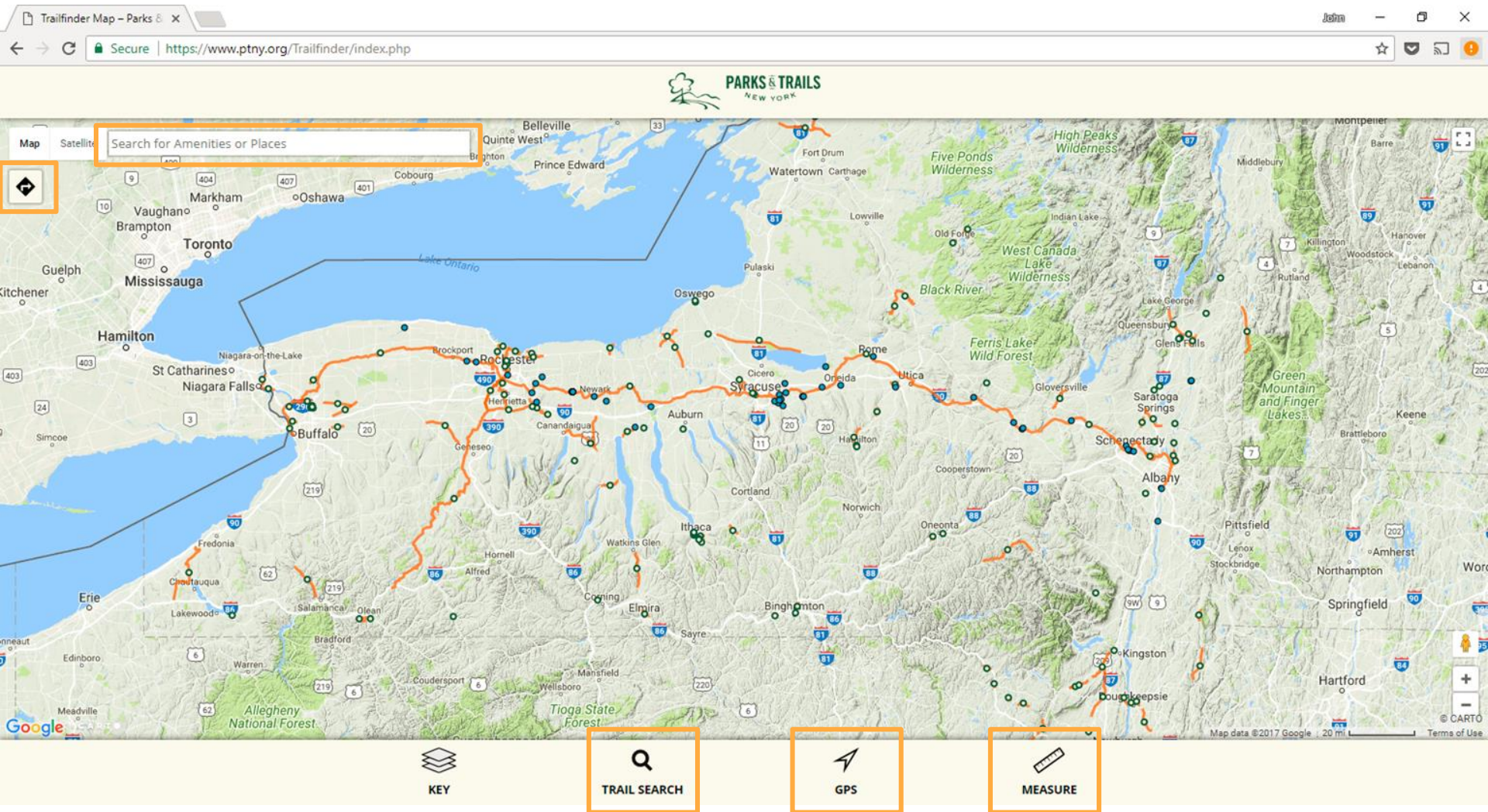
Trailfinder



Purpose of Trailfinder

“Your guide to more than 100 multi-use trails in New York State.”

Features



How Does Trailfinder Work?

How Does Trailfinder Work?



PARKS & TRAILS
NEW YORK

QGIS



- Trail data
- Parking/Trailhead data
- Bike-Friendly Business Locations

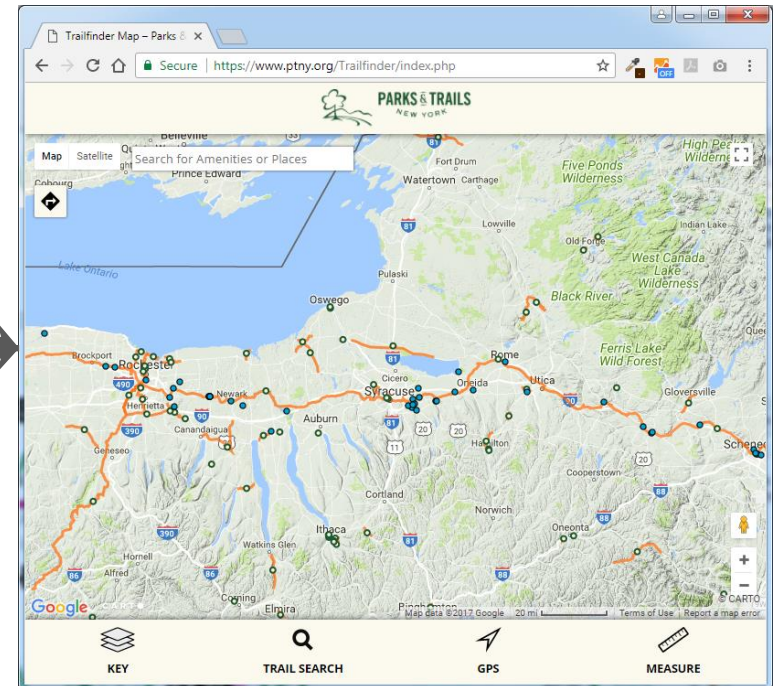


Data queries

map tiles (data)
queried data

Data queries

map tiles (basemap)
queried data



Google Places API

- POI/Address data

Google Directions API

- Directions

CARTO.JS



(Google Maps
Javascript Library)

Useful for Trip Planning

The screenshot displays the Trailfinder Map interface for Parks & Trails New York. The browser address bar shows the URL <https://www.ptny.org/Trailfinder/index.php>. The map shows the Utica, NY area with several trails highlighted in orange and yellow. A search panel on the left is open, showing search criteria and results.

Search Criteria:

- Greater Than Less Than miles
- Near Location
- Trails within miles of

Trail Results:

Trail Name	Length (mi)	Surface Type	Uses
ZOOM TO TRAIL Chenango Canal Towpath Trail	6.4	Natural	XC Skiing, Bicycling, Fishing
ZOOM TO TRAIL Erie Canalway Trail - Syracuse to Little Falls	0	Paved, Stone dust, On-Road, Natural	XC Skiing, In-line Skating, Bicycling, Fishing, Snowmobiling, Horseback Riding
ZOOM TO TRAIL Philip A. Rayhill Memorial Trail	4	Data unavailable	Data unavailable

The interface includes a search bar at the top, a map view selector (Map/Satellite), and a search panel on the left. The map shows the Utica, NY area with several trails highlighted in orange and yellow. The search panel on the left displays the search criteria and results. The bottom of the interface features navigation icons for KEY, TRAIL SEARCH, GPS, and MEASURE.

Useful for Trip Planning

The screenshot shows the Trailfinder Map interface for Parks & Trails New York. The browser address bar displays <https://www.ptny.org/Trailfinder/index.php>. The map features a route from Burchard Ln, Utica, NY to the Philip A. Rayhill Memorial Trail. A popup window for parking is visible, and a directions panel is open on the left.

Directions

Current Location (43.103952, -75.227253)
Philip A. Rayhill Memorial Trail (43.103686, -75.227253)

Travel Mode:
Driving

PLAN ROUTE **CLEAR**

Burchard Ln, Utica, NY 13502, USA

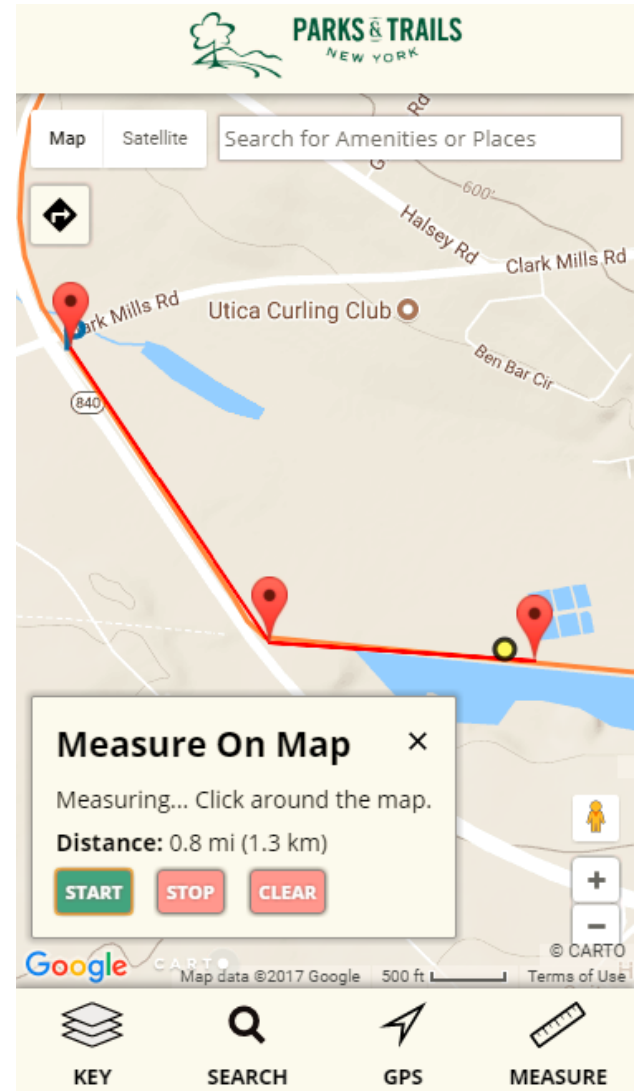
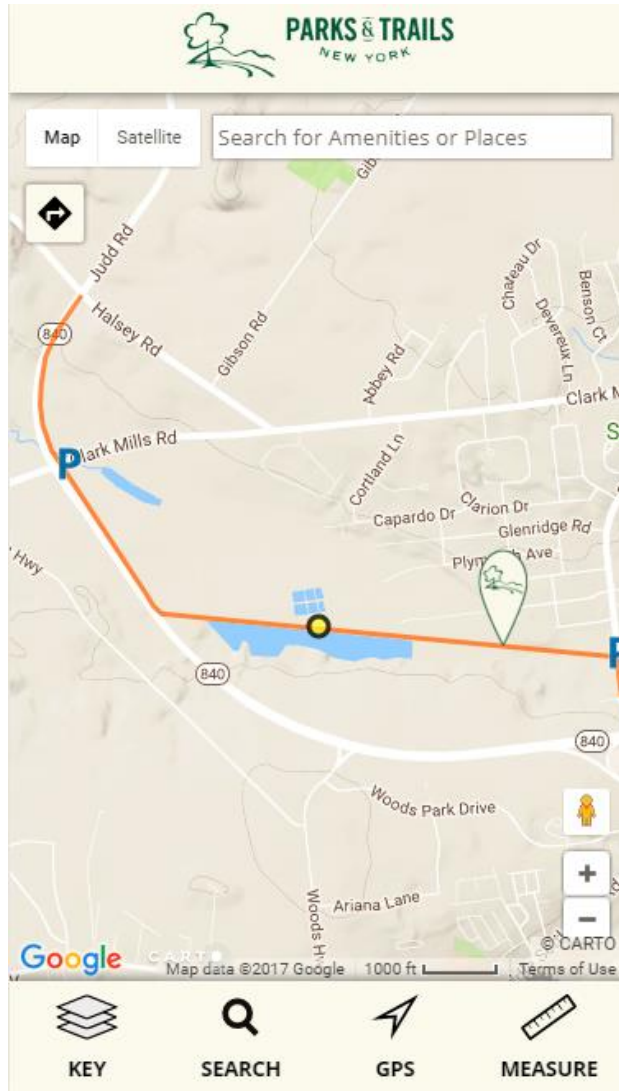
7.8 mi. About 11 mins

1. Head southeast toward Burchard Ln 217 ft
2. Turn left onto Burchard Ln 413 ft
3. Turn right onto Liberty St/Oriskany St W
Continue to follow Oriskany St W 0.4 mi
4. Keep left to stay on Oriskany St W 0.2 mi
5. Turn right to merge onto NY-12 S/NY-5 W/NY-8 S toward New Hartford 3.4 mi
6. Merge onto NY-840 W via the ramp to New York Mills 3.6 mi
7. Turn right onto Clark Mills Rd
Destination will be on the right 164 ft

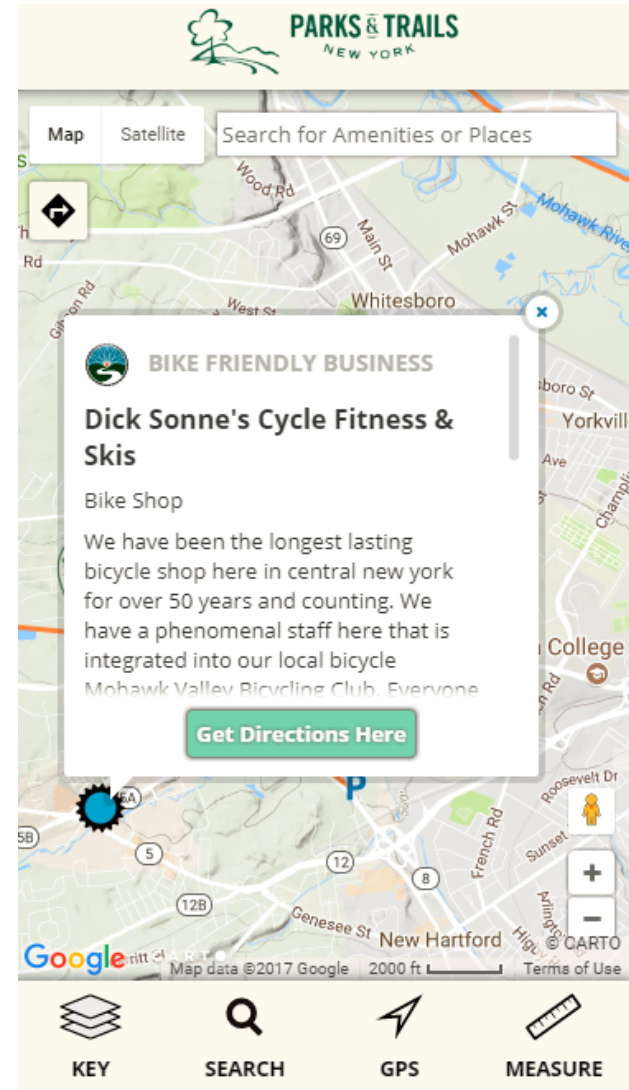
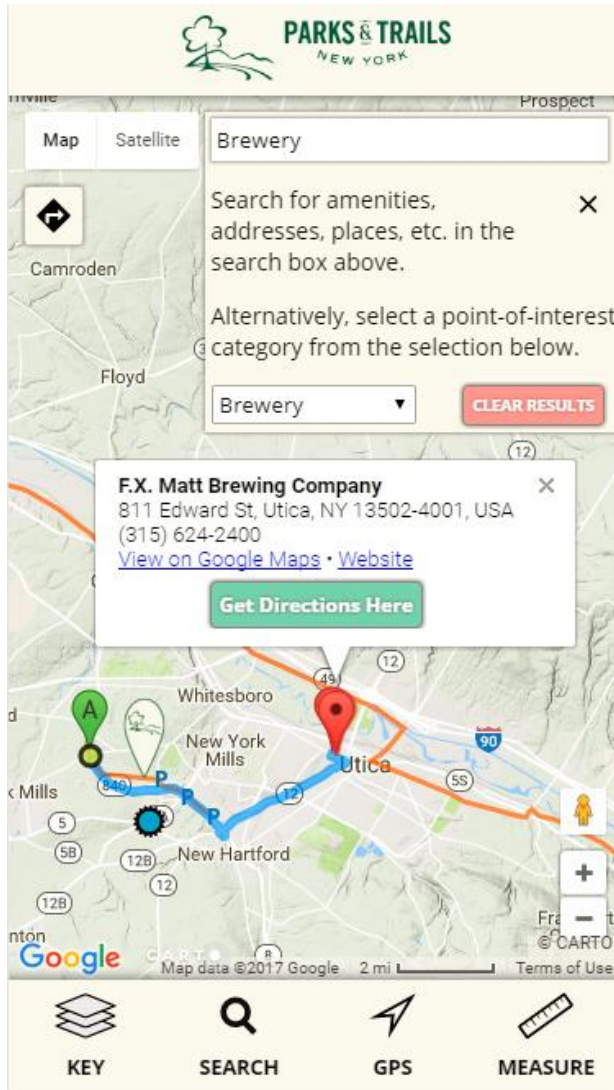
PARKING
Philip A. Rayhill Memorial Trail
Clark Mills Road parking, Whitestown
43.103686, -75.347918
[Get Directions Here](#)

KEY **TRAIL SEARCH** **GPS** **MEASURE**

... And While Out On The Trail



Find Local Businesses



Results

- 5000+ individual users
- Some people search for non-multi-use trails such as Adirondack Trails

Future Enhancements

- Social media integration
- More detailed trail display (outside of infowindows)

Takeaways

- **Very easy to get up and running integrating Carto into Google Maps API**
- Flexibility to add custom features
- Data... Data.... Data...

Bonus Takeway 1

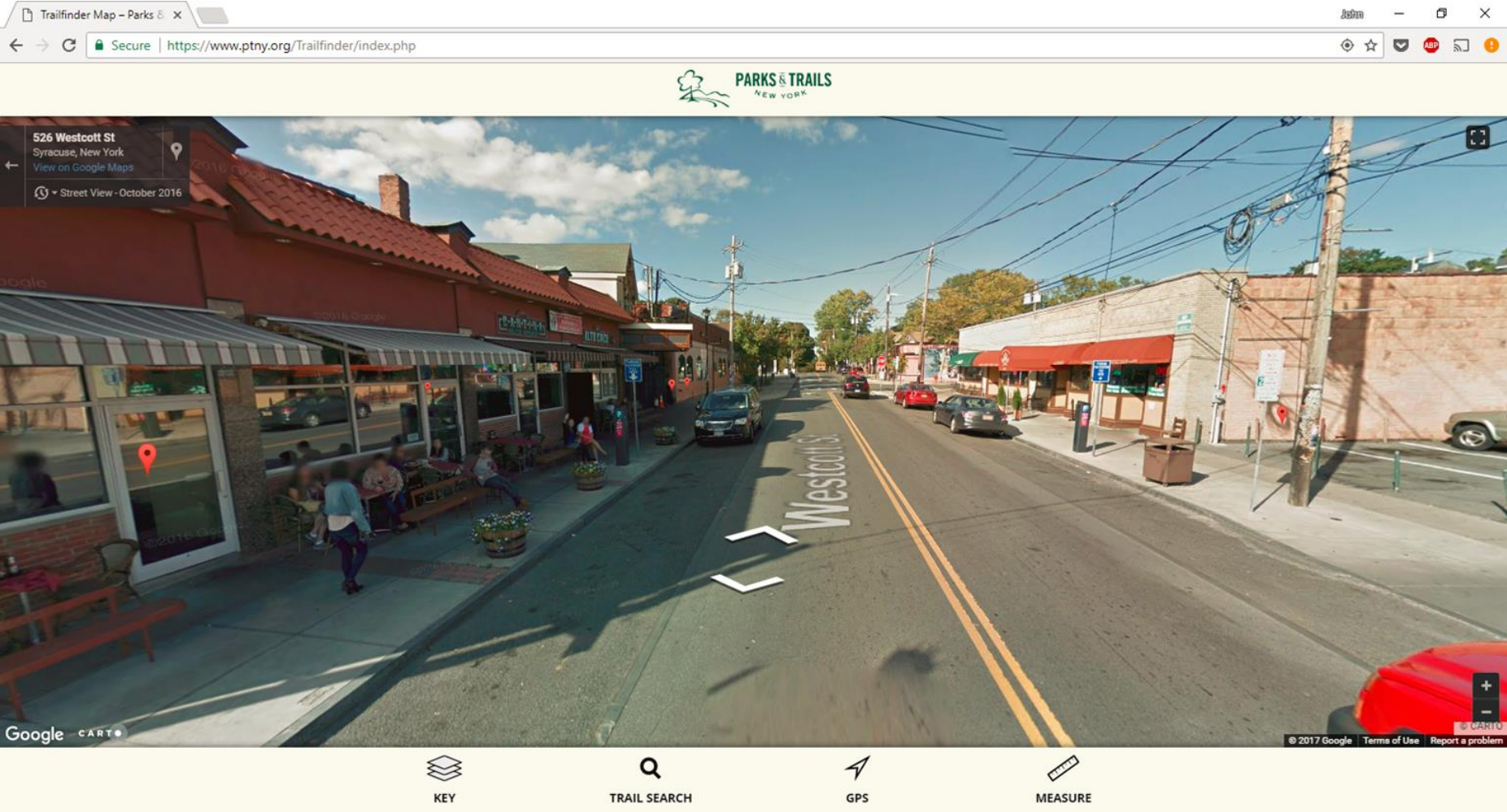
The screenshot shows a web browser window with the URL <https://plugins.qgis.org/plugins/QgisCartoDB/>. The page header includes navigation links: QGIS HOME, ABOUT PLUGINS, PLUGINS, PLANET, USER MAP, LOGIN, and a search bar. The main content area is titled "QGIS Python Plugins Repository" and features a "Download latest" button for the "CartoDB" plugin. The plugin has a 4.5-star rating based on 46 votes. The description states: "CartoDB Plugin for QGIS. It allows to view, create, edit or delete data from your CartoDB account using your favorite opensource desktop GIS: QGIS." Below the description are tabs for "About", "Details", and "Versions". The "Features" section lists: Manage CartoDB connections, Add CartoDB layers to QGIS projects, Add features to CartoDB tables, Edit data and update CartoDB tables, Edit data and update geometries, Delete features, Upload tables, and Create maps. The "Dependencies" section lists: CartoDB, oauth2, simplejson, and certifi. On the left sidebar, there is an "Upload a plugin" button and a list of filter categories: Featured, All, Stable, Fresh, Experimental, Popular, Most voted, Top downloads, Most rated, and QGIS Server plugins. Below these are "Plugin tags" including: 3d, accessibility, address, analysis, android, animation, api, archaeology, area, atlas, attribute, attribute edit, attribute table, attributes, basemap, bing, browser, buffer, cad, cadastre, calculator, canvas, catalog, catastro, circle, classification, click, clip, cloud, cluster, composer, configuration, convert, converter, coordinate, copy, CRS, CSV, d3, danmark, dansk, data, database, datasource, delimitation, dem, development, digitising, digitizing, distance, download, download service, downloader, drainage, draw, dxf, ecology, edit, editing, elevation, ellipse, epanet, excel, export, extraction, feature, field, filter, flood, flow.

<https://plugins.qgis.org/plugins/QgisCartoDB/>

Bonus Takeaway 2

The screenshot displays the Trailfinder Map interface for Westcott, New York. The browser address bar shows the URL <https://www.ptny.org/Trailfinder/index.php>. The map features a search bar with the text "restaurants" and a "Map" button. The map itself shows a grid of streets including Hawthorne St, Westcott St, Cambridge St, Allen St, Fellows Ave, Westmoreland Ave, and others. Key locations marked on the map include Thornden Park Pool, Thornden Park Football Field, Beer Belly Deli & Pub, Westcott Theater, Dorian's Gourmet Pizza and Deli, Westcott Florist, Boom Babies, and Levy K-8 School. The interface includes a "KEY" button, a "TRAIL SEARCH" button, a "GPS" button, and a "MEASURE" button. The bottom right corner of the map area contains the text "Map data ©2017 Google 200 ft" and "Terms of Use".

Bonus Takeaway 2



Bonus Takeaway 2

