Project Proposal: Map of Free Wi-Fi in NYC

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# Project Description

To create an interactive map that helps users identify closest public Wi-Fi locations near a location they search for. The map will list the top 5 results and each result will be color-coded by WiFi access type (free vs. limited). Other information the program will provide includes network name, network provider, location type, and distance to the Wi-Fi spot.

# Dataset

We plan to use the NYC\_Free\_Public\_WiFi dataset provided through NYC Open Data. The dataset contains 885 free WiFi hotspots. Features include:

* Type
* Provider
* Name of Location
* Detail on Location
* Latitude
* Longitude
* Location Type (Outdoor vs. Indoor)
* Borough
* Network ID

# Project Details

We will construct a data frame using Pandas to store the data. We will use other libraries and APIs such as Numpy for distance calculation as well as Matlibplot and Google Map API for mapping. We will attempt to create a user interface that will provide a visualization of nearby locations.