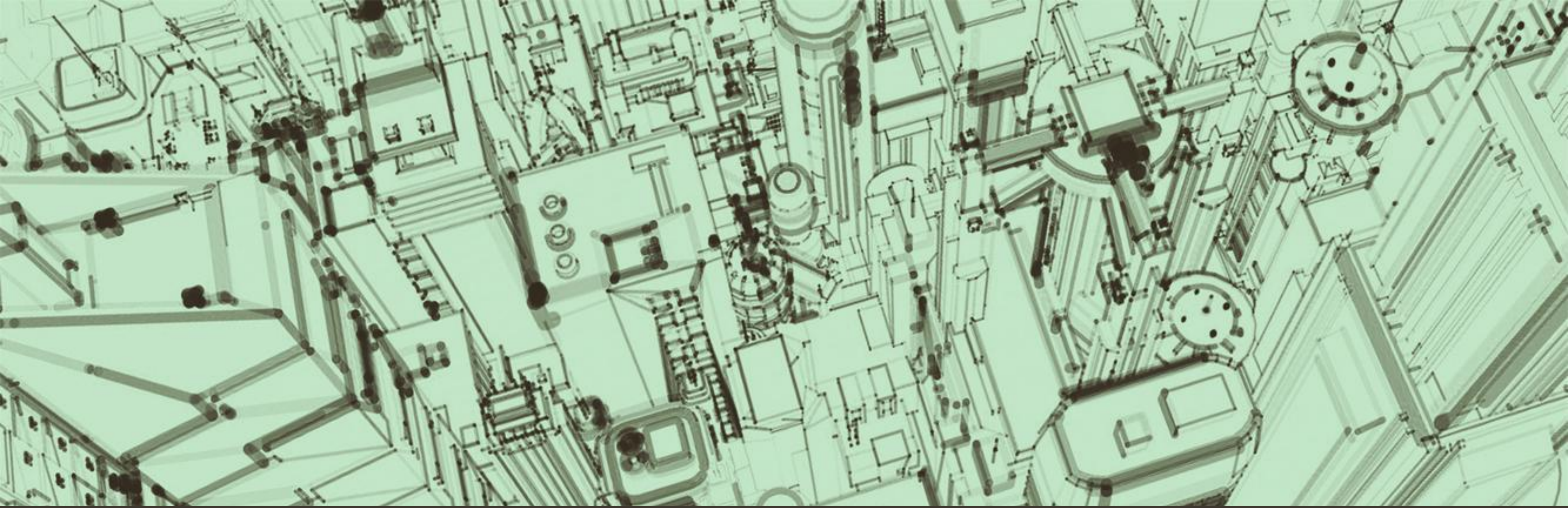


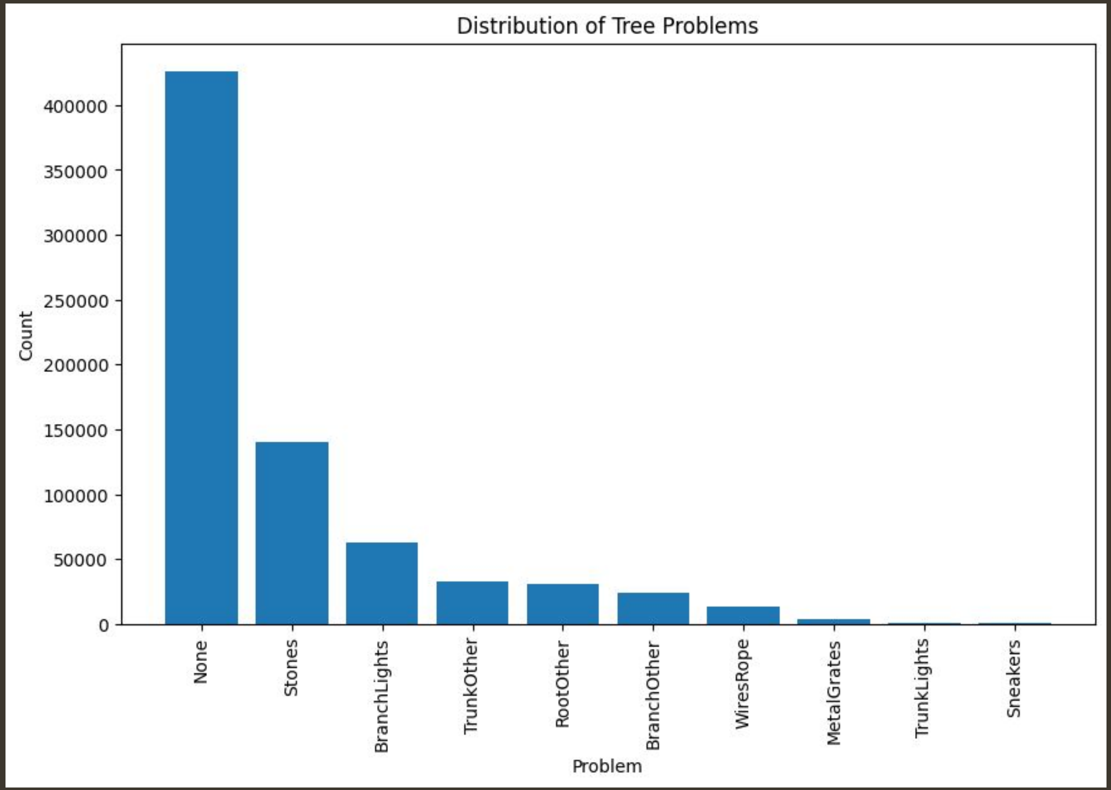
NYC Trees

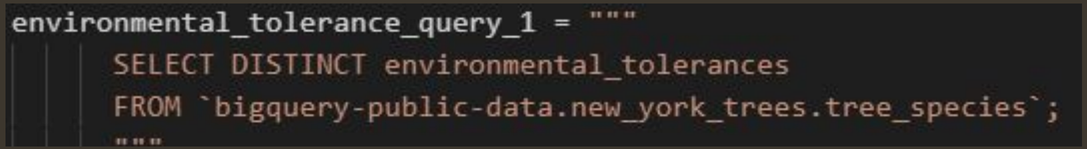
Project SQL

Research Questions

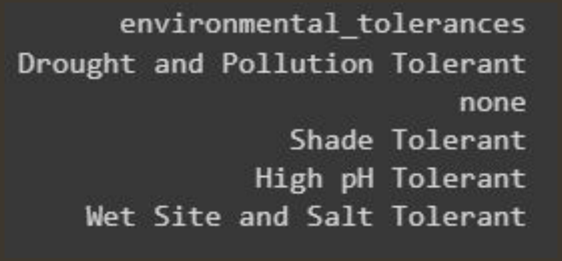
- What are some common tree problems in NYC?
- Is there a measurable difference in DBH measured over a 10 year span?
- Can we visualize DBH in variation in different parts of the city?
- Where is data being collected in the city and where is it not? See heat map
- How many trees per borough
- Can we estimate a trees age using DBH? How would this be distributed across a target genus with multiple representative species?
- Which trees have a nice red fall color?
- Can this data be used to understand areas with a similar latitude? (research lead)

Typical Tree Problems in 2015 Survey



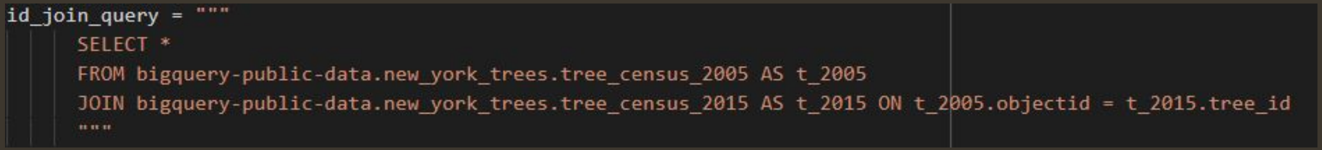


```
environmental_tolerance_query_1 = """
        SELECT DISTINCT environmental_tolerances
        FROM `bigquery-public-data.new_york_trees.tree_species`;
        """
```

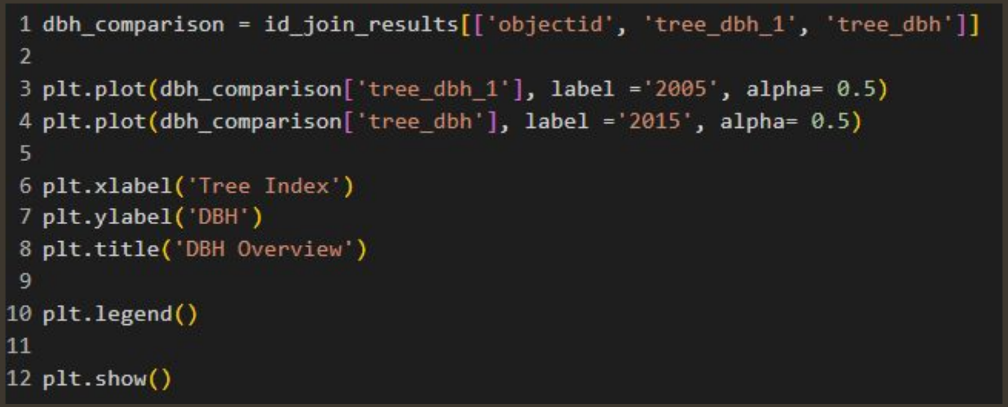


```
          environmental_tolerances
Drought and Pollution Tolerant
                          none
               Shade Tolerant
              High pH Tolerant
     Wet Site and Salt Tolerant
```

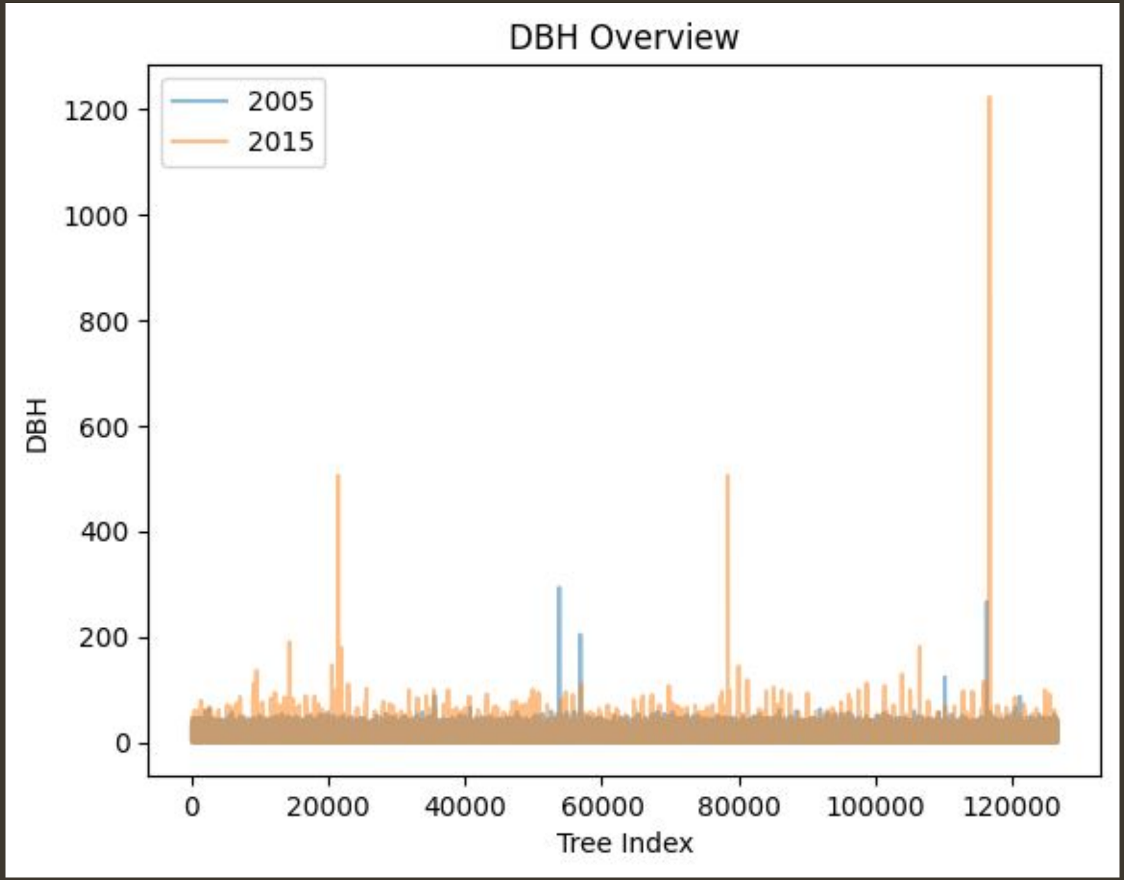
DBH between 2005 and 2015



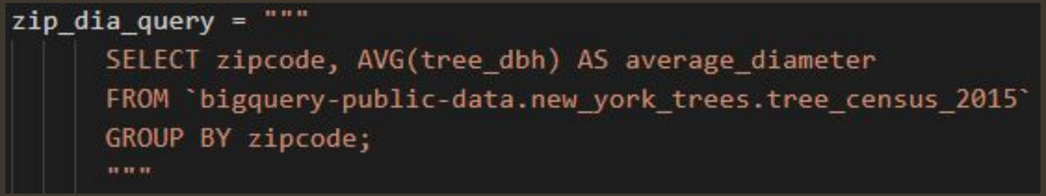
```
id_join_query = """
        SELECT *
        FROM bigquery-public-data.new_york_trees.tree_census_2005 AS t_2005
        JOIN bigquery-public-data.new_york_trees.tree_census_2015 AS t_2015 ON t_2005.objectid = t_2015.tree_id
        """
```



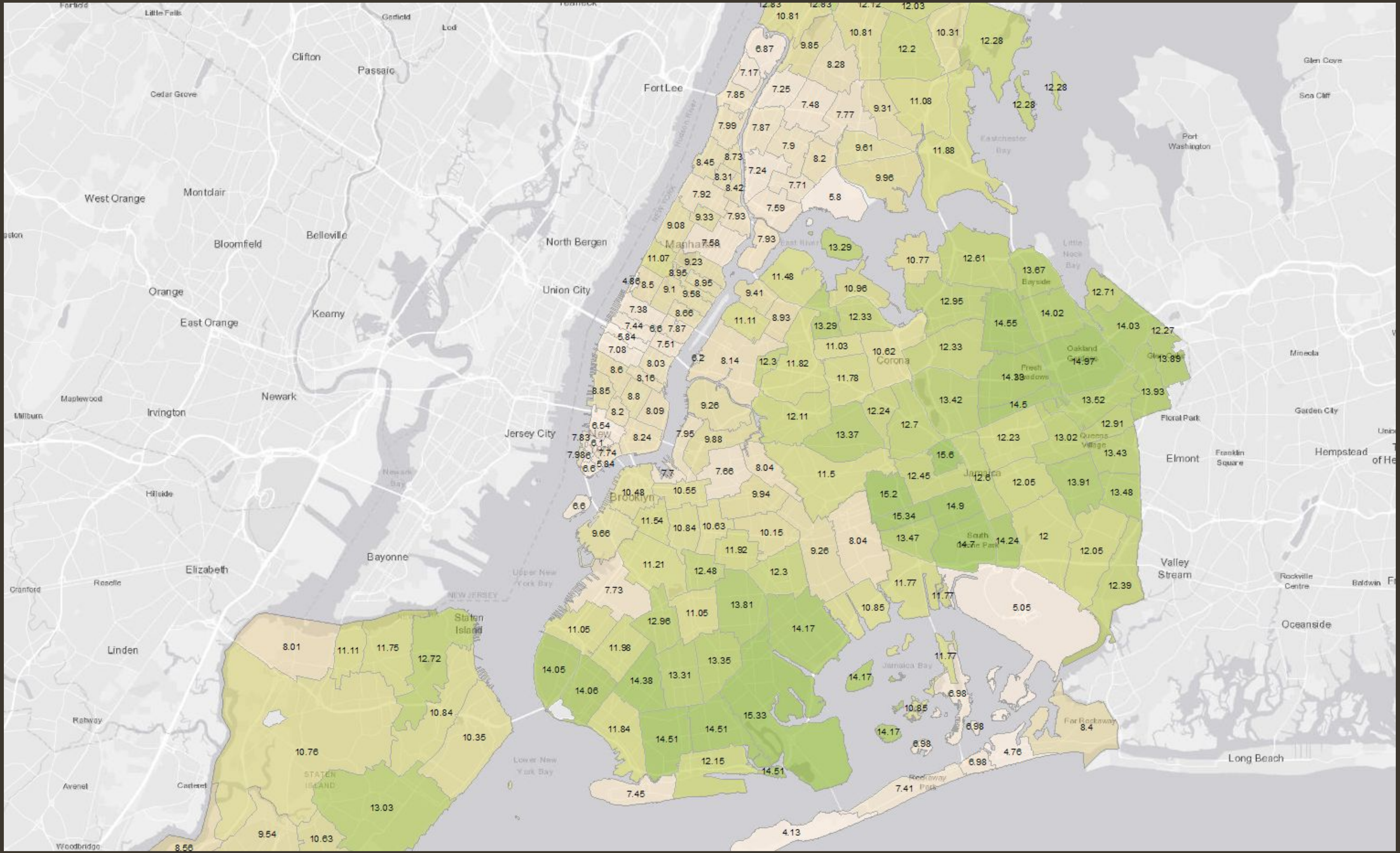
```
dbh_comparison = id_join_results[['objectid', 'tree_dbh_1', 'tree_dbh']]

plt.plot(dbh_comparison['tree_dbh_1'], label ='2005', alpha= 0.5)
plt.plot(dbh_comparison['tree_dbh'], label ='2015', alpha= 0.5)

plt.xlabel('Tree Index')
plt.ylabel('DBH')
plt.title('DBH Overview')

plt.legend()

plt.show()
```

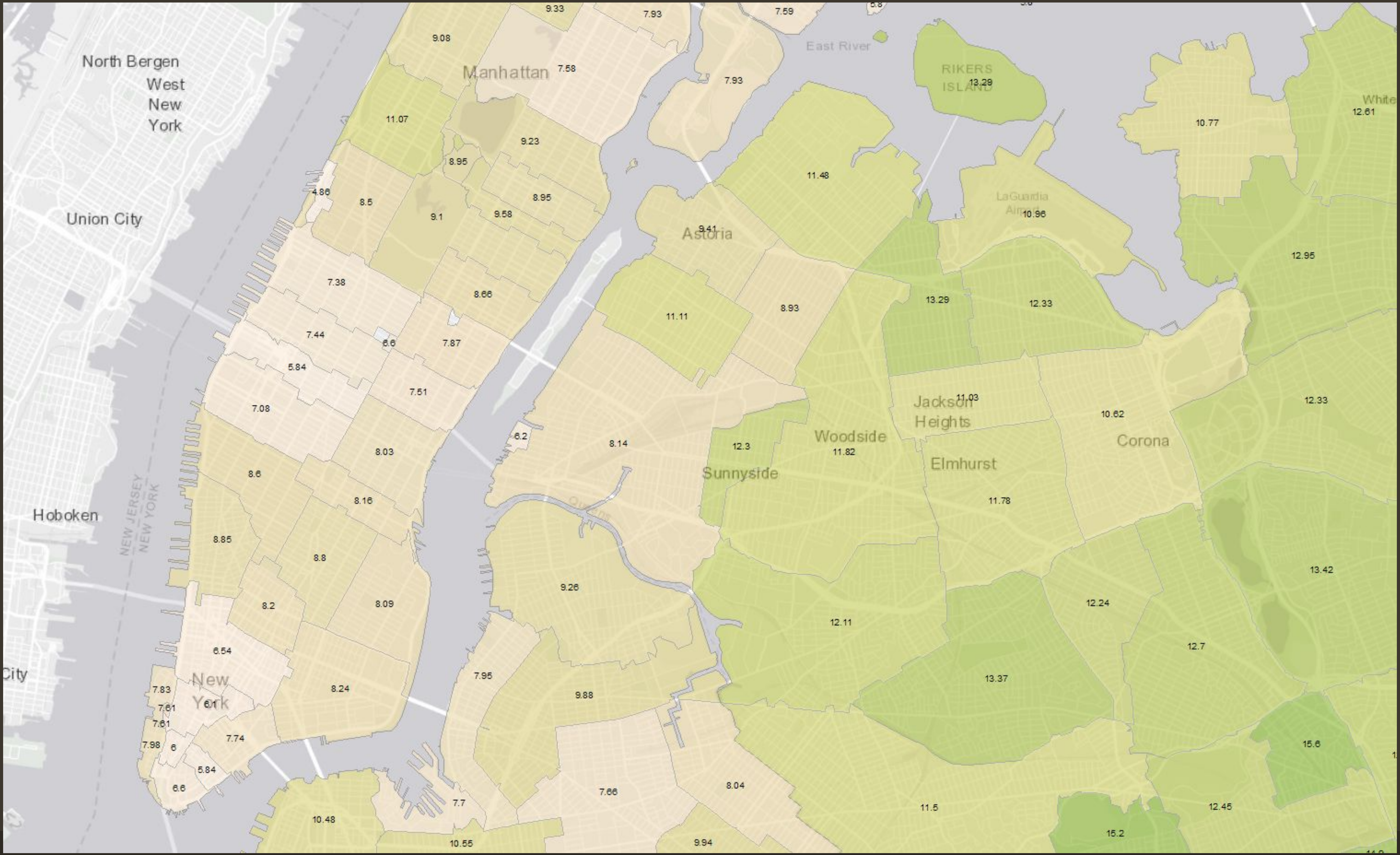


Spatial Analysis

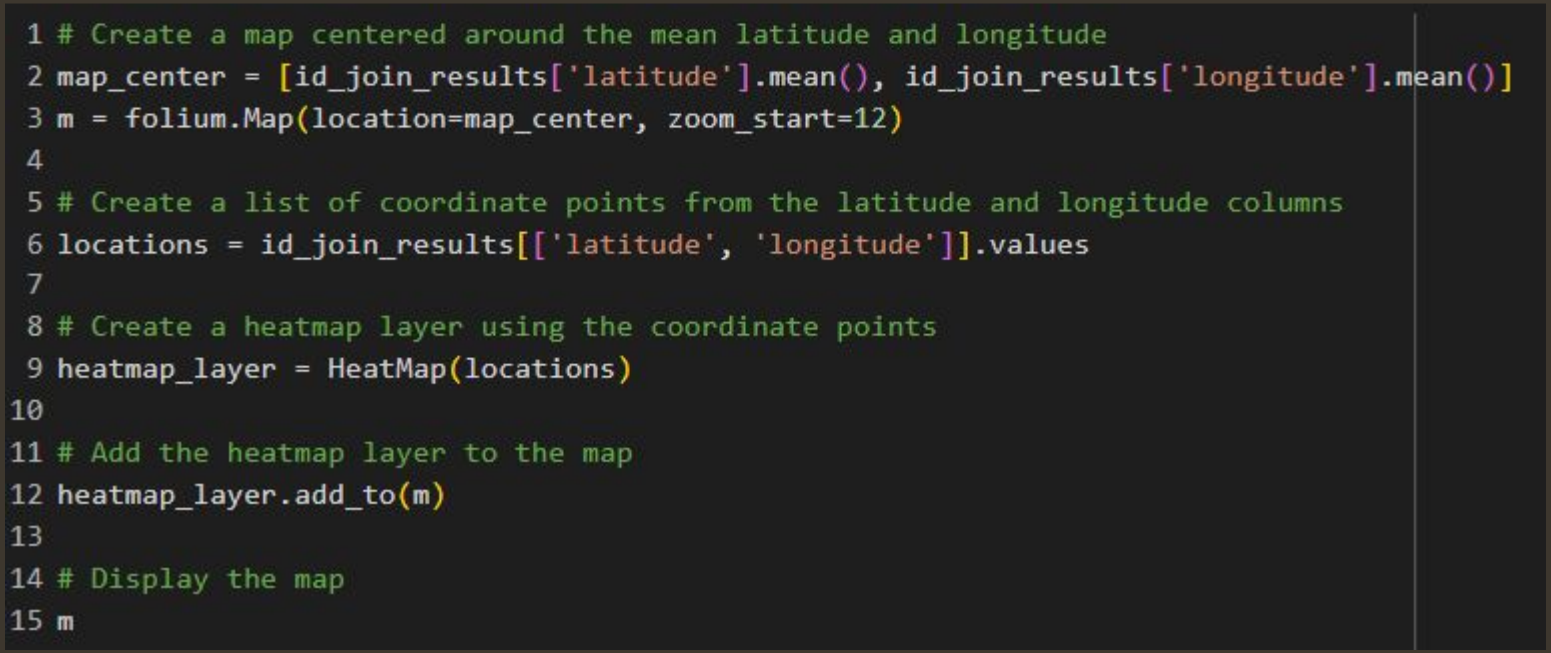


```
zip_dia_query = """
        SELECT zipcode, AVG(tree_dbh) AS average_diameter
        FROM `bigquery-public-data.new_york_trees.tree_census_2015`
        GROUP BY zipcode;
        """
```

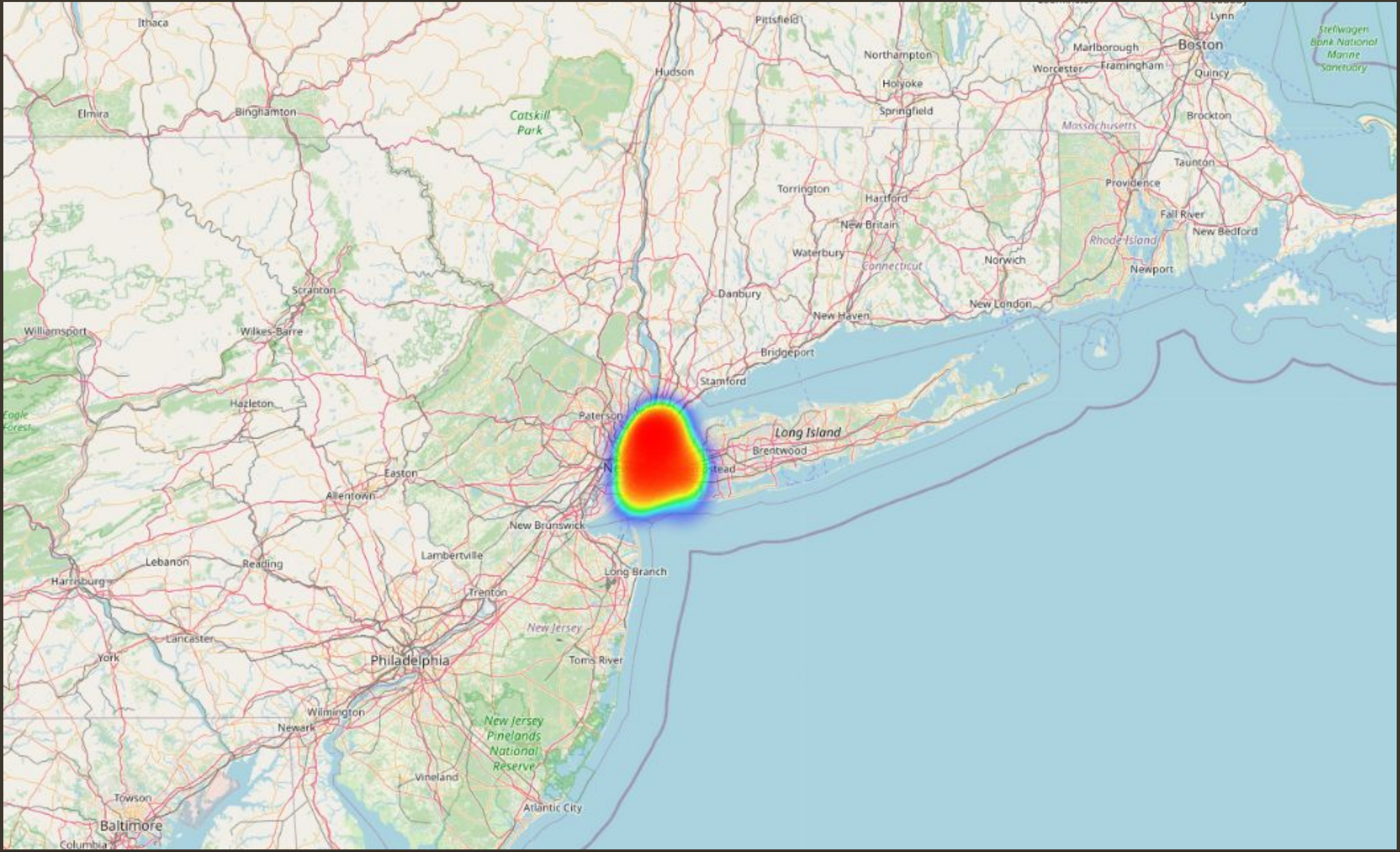



North Bergen
West New York
Union City
Hoboken
City
NEW JERSEY
NEW YORK
Manhattan
New York
East River
RIKERS ISLAND
LaGuardia Airport
Astoria
Woodside
Sunnyside
Jackson Heights
Elmhurst
Corona
Queens
White
9.33
7.93
7.59
5.8
9.08
7.58
7.93
13.29
11.07
9.23
10.77
12.61
8.95
11.48
4.86
8.5
8.95
10.96
9.1
9.58
9.41
12.95
7.38
8.66
13.29
12.33
11.11
8.93
7.44
6.6
7.87
5.84
7.51
11.03
12.33
7.08
10.62
6.2
8.14
12.3
11.82
8.03
8.6
8.16
11.78
8.85
8.8
13.42
9.26
8.2
8.09
12.24
12.11
6.54
12.7
7.95
13.37
7.83
8.24
9.88
7.61
6.1
7.61
7.74
15.6
7.98
6
5.84
8.04
6.6
7.66
11.5
12.45
7.7
10.48
15.2
10.55
9.94

Heat Map



```
# Create a map centered around the mean latitude and longitude
map_center = [id_join_results['latitude'].mean(), id_join_results['longitude'].mean()]
m = folium.Map(location=map_center, zoom_start=12)

# Create a list of coordinate points from the latitude and longitude columns
locations = id_join_results[['latitude', 'longitude']].values

# Create a heatmap layer using the coordinate points
heatmap_layer = HeatMap(locations)

# Add the heatmap layer to the map
heatmap_layer.add_to(m)

# Display the map
m
```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Lynn
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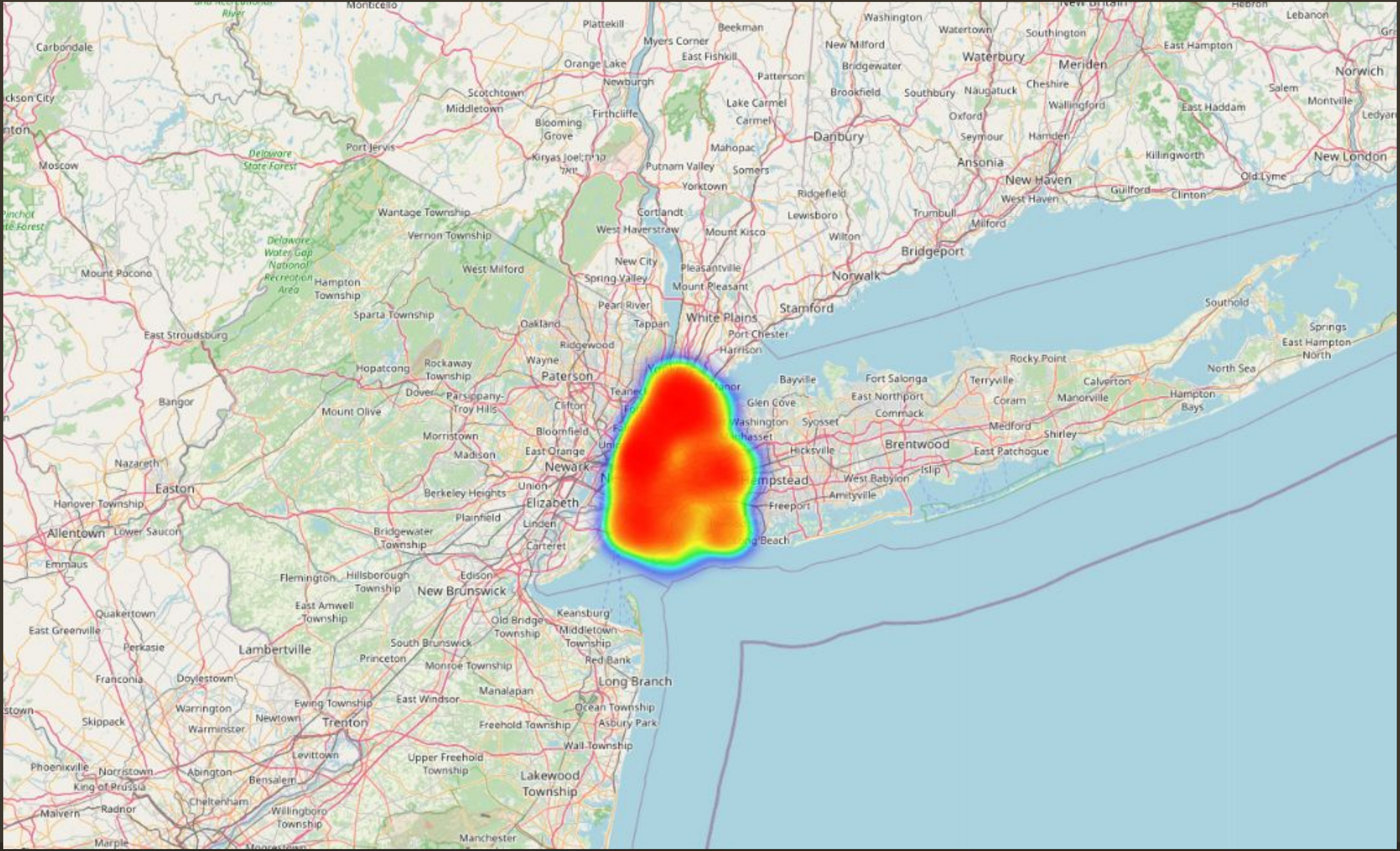
Northampton
Marlborough
Boston
Hudson
Worcester
Framingham
Quincy
Holyoke
Catskill Park
Elmira
Binghamton
Springfield
Brockton
Massachusetts
Taunton
Providence
Torrington
Hartford
Fall River
New Britain
Rhode Island
New Bedford
Waterbury
Connecticut
Norwich
Newport
Scranton
Danbury
New London
New Haven
Williamsport
Wilkes-Barre
Bridgeport
Stamford
Hazleton
Paterson
Long Island
Eagle Forest
Brentwood
Easton
Allentown
New Brunswick
Lambertville
Lebanon
Reading
Long Branch
Harrisburg
Trenton
New Jersey
Lancaster
York
Philadelphia
Toms River
Wilmington
Newark
New Jersey Pinelands National Reserve
Vineland
Towson
Atlantic City
Baltimore
Columbia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Washington
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Southington
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Lebanon
Carbondale
Myers Corner
East Fishkill
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Waterbury
Meriden
Norwich
Orange Lake
Bridgewater
Cheshire
Newburgh
Patterson
Brookfield
Southbury
Naugatuck
Salem
Montville
Scotchtown
Lake Carmel
Wallingford
East Haddam
Middletown
Firthcliffe
Carmel
Oxford
Blooming Grove
Danbury
Seymour
Hamden
Port Jervis
Mahopac
Ansonia
Killingworth
New London
Moscow
Delaware State Forest
Kiryas Joel
Putnam Valley
Somers
Old Lyme
Yorktown
Ridgefield
New Haven
Guilford
Clinton
West Haven
Wantage Township
Cortlandt
Lewisboro
Trumbull
Milford
Vernon Township
West Haverstraw
Mount Kisco
Wilton
Delaware Water Gap National Recreation Area
Bridgeport
New City
Pleasantville
Mount Pocono
West Milford
Spring Valley
Norwalk
Hampton Township
Mount Pleasant
Pearl River
Stamford
Southold
Sparta Township
White Plains
Oakland
Tappan
Port Chester
East Stroudsburg
Springs
Ridgewood
Harrison
East Hampton North
Rocky Point
Wayne
Rockaway Township
Hopatcong
Paterson
Bayville
Fort Salonga
Terryville
North Sea
Calverton
Dover
Parsippany-Troy Hills
Glen Cove
East Northport
Coram
Manorville
Hampton Bays
Bangor
Clifton
Commack
Mount Olive
Syosset
Medford
Bloomfield
Shirley
Morristown
Hicksville
Brentwood
East Orange
East Patchogue
Madison
Nazareth
Newark
Islip
West Babylon
Easton
Berkeley Heights
Union
Amityville
Hanover Township
Elizabeth
Freeport
Allentown
Lower Saucon
Bridgewater Township
Plainfield
Linden
Carteret
Long Beach
Emmaus
Flemington
Hillsborough Township
Edison
New Brunswick
East Amwell Township
Keansburg
Quakertown
Old Bridge Township
Middletown Township
East Greenville
South Brunswick
Perkasie
Lambertville
Red Bank
Princeton
Monroe Township
Long Branch
Franconia
Doylestown
Manalapan
Ewing Township
East Windsor
Ocean Township
Warrington
Skippack
Newtown
Trenton
Freehold Township
Asbury Park
Warminster
Wall Township
Levittown
Upper Freehold Township
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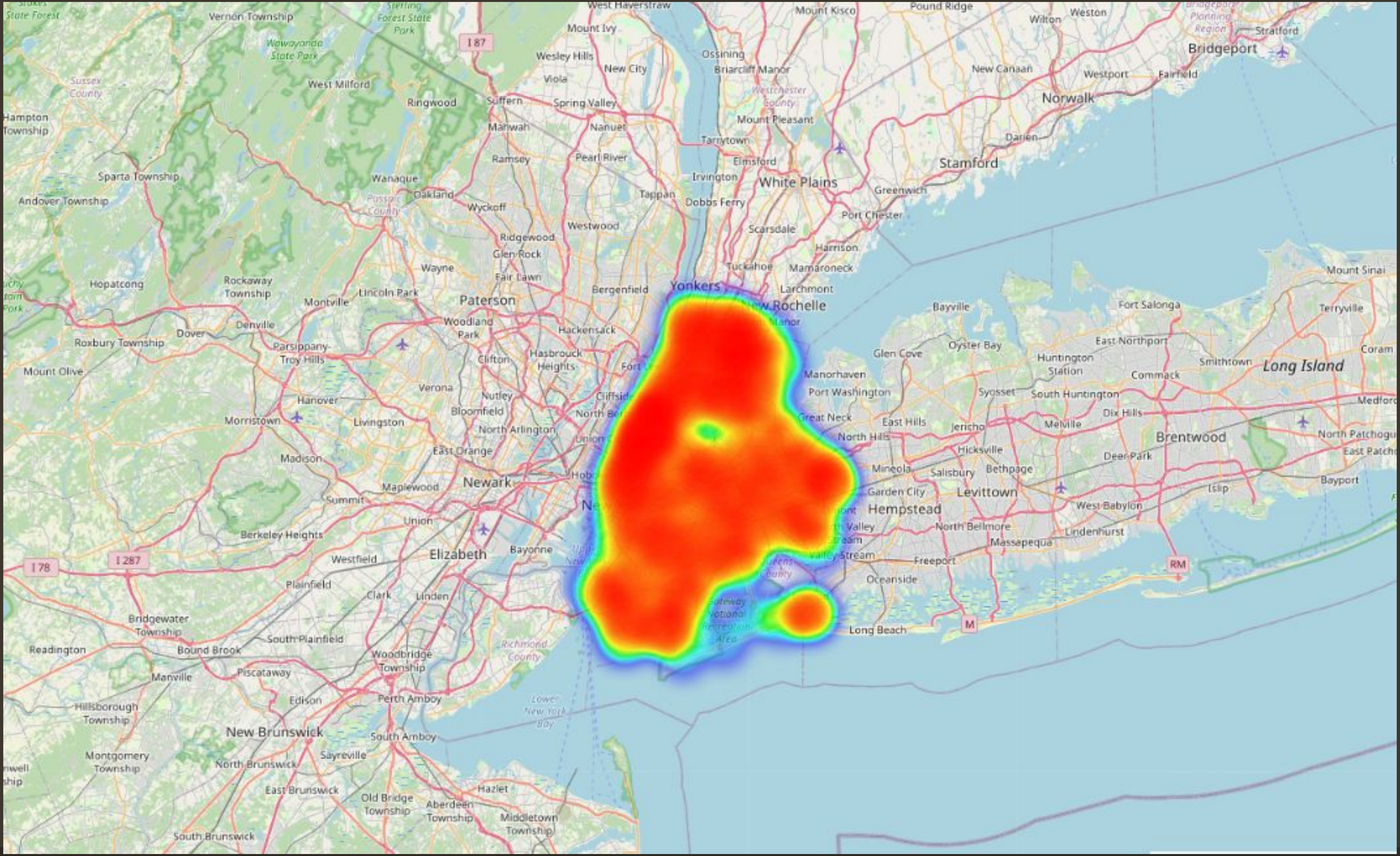
Malvern
Radnor
Willingboro Township
Manchester
Marple



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West Milford
Ringwood
Suffern
Mahwah
Hampton Township
Sparta Township
Andover Township
Wanaque
Oakland
Wyckoff
Ramsey
Passaic County
Ridgewood
Glen Rock
Fair Lawn
Wayne
Hopatcong
Rockaway Township
Montville
Lincoln Park
Paterson
Woodland Park
Denville
Dover
Roxbury Township
Parsippany-Troy Hills
Mount Olive
Clifton
Hasbrouck Heights
Verona
Nutley
Bloomfield
Hanover
Morristown
Livingston
North Arlington
East Orange
Madison
Newark
Maplewood
Summit
Union
Berkeley Heights
Westfield
Elizabeth
Bayonne
Plainfield
Clark
Linden
I 78
I 287
I 87
Bridgewater Township
Readington
Bound Brook
South Plainfield
Manville
Piscataway
Woodbridge Township
Edison
Perth Amboy
Hillsborough Township
New Brunswick
South Amboy
Sayreville
Montgomery Township
North Brunswick
East Brunswick
Old Bridge Township
Aberdeen Township
Hazlet
Middletown Township
South Brunswick
Richmond County
Lower New York Bay
West Haverstraw
Mount Ivy
Wesley Hills
New City
Viola
Spring Valley
Nanuet
Pearl River
Tappan
Westwood
Bergenfield
Hackensack
Yonkers
New Rochelle
Ossining
Briarcliff Manor
Westchester County
Mount Pleasant
Tarrytown
Elmsford
Irvington
White Plains
Dobbs Ferry
Scarsdale
Tuckahoe
Harrison
Mamaroneck
Larchmont
Port Chester
Greenwich
Mount Kisco
Pound Ridge
Wilton
Weston
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Stratford
Manorhaven
Port Washington
Great Neck
North Hills
East Hills
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Bayville
Oyster Bay
Jericho
Syosset
Hicksville
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Salisbury
Garden City
Bethpage
Levittown
Hempstead
Valley Stream
North Bellmore
Massapequa
Freeport
Oceanside
Long Beach
Huntington Station
South Huntington
Melville
Dix Hills
Deer Park
West Babylon
Lindenhurst
Fort Salonga
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Brentwood
Islip
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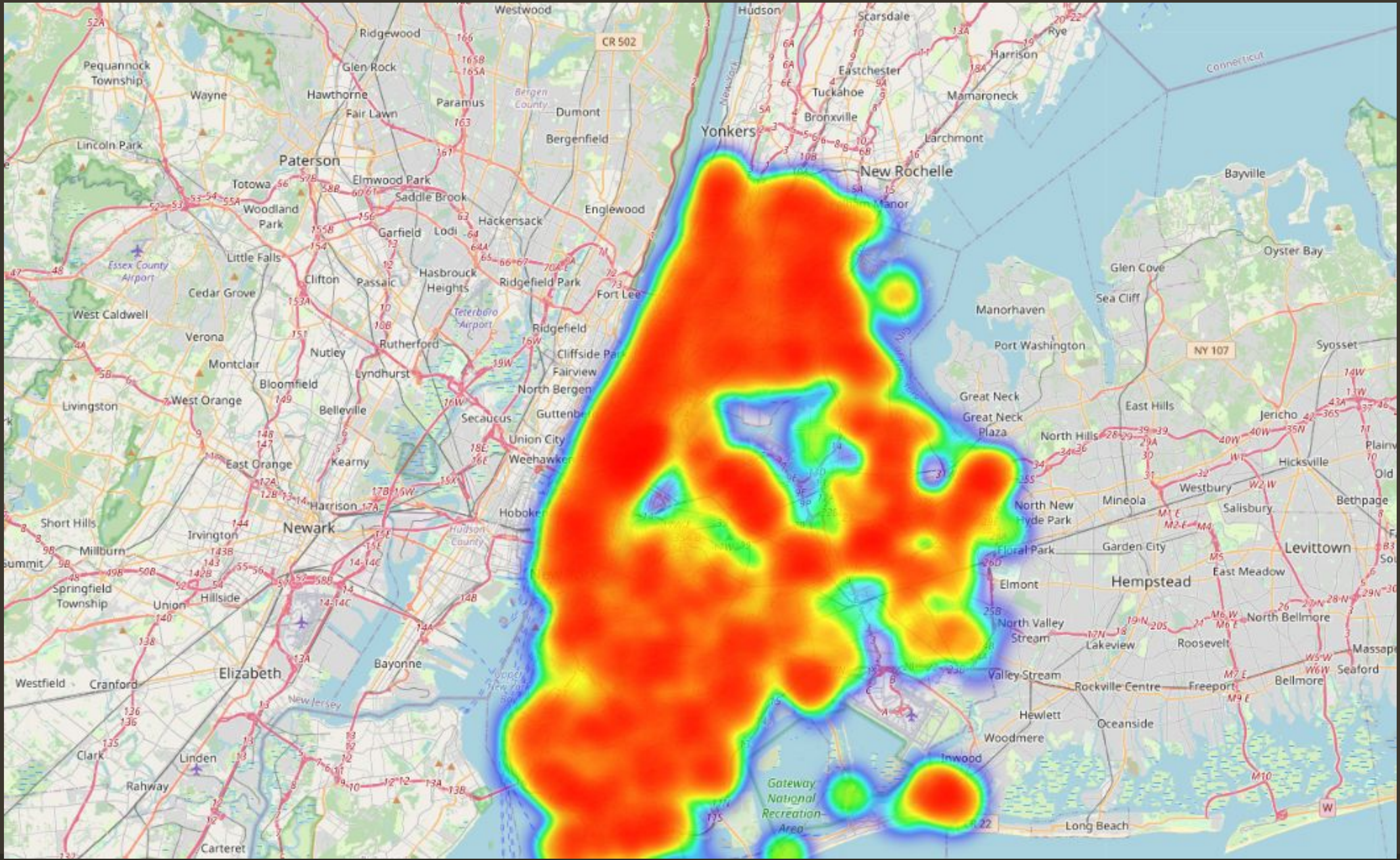
North Patchogue
Mount Sinai
Terryville
Coram
Medford



Westwood
Ridgewood
Hudson
Scarsdale
Rye
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Glen Rock
Harrison
Wayne
Hawthorne
Paramus
Bergen County
Eastchester
Tuckahoe
Mamaroneck
Fair Lawn
Dumont
Bronxville
Connecticut
Lincoln Park
Bergenfield
Yonkers
Larchmont
Paterson
New Rochelle
Totowa
Elmwood Park
Saddle Brook
Bayville
Woodland Park
Englewood
Hackensack
Garfield
Lodi
Little Falls
Oyster Bay
Essex County Airport
Clifton
Passaic
Hasbrouck Heights
Ridgefield Park
Glen Cove
Cedar Grove
Fort Lee
Sea Cliff
Teterboro Airport
West Caldwell
Manorhaven
Verona
Ridgefield
Nutley
Rutherford
Cliffside Park
Port Washington
Montclair
Fairview
NY 107
Syosset
Bloomfield
North Bergen
Great Neck
Livingston
West Orange
Belleville
Lyndhurst
Secaucus
East Hills
Great Neck Plaza
Jericho
Union City
North Hills
Weehawken
East Orange
Kearny
Hicksville
Westbury
Mineola
Bethpage
North New Hyde Park
Harrison
Salisbury
Short Hills
Hoboken
Newark
Irvington
Hudson County
Floral Park
Garden City
Levittown
Millburn
Summit
Elmont
Hempstead
East Meadow
Springfield Township
Hillside
Union
North Valley Stream
Lakeview
Roosevelt
North Bellmore
Bayonne
Valley Stream
Rockville Centre
Freeport
Bellmore
Seaford
Westfield
Cranford
Elizabeth
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Hewlett
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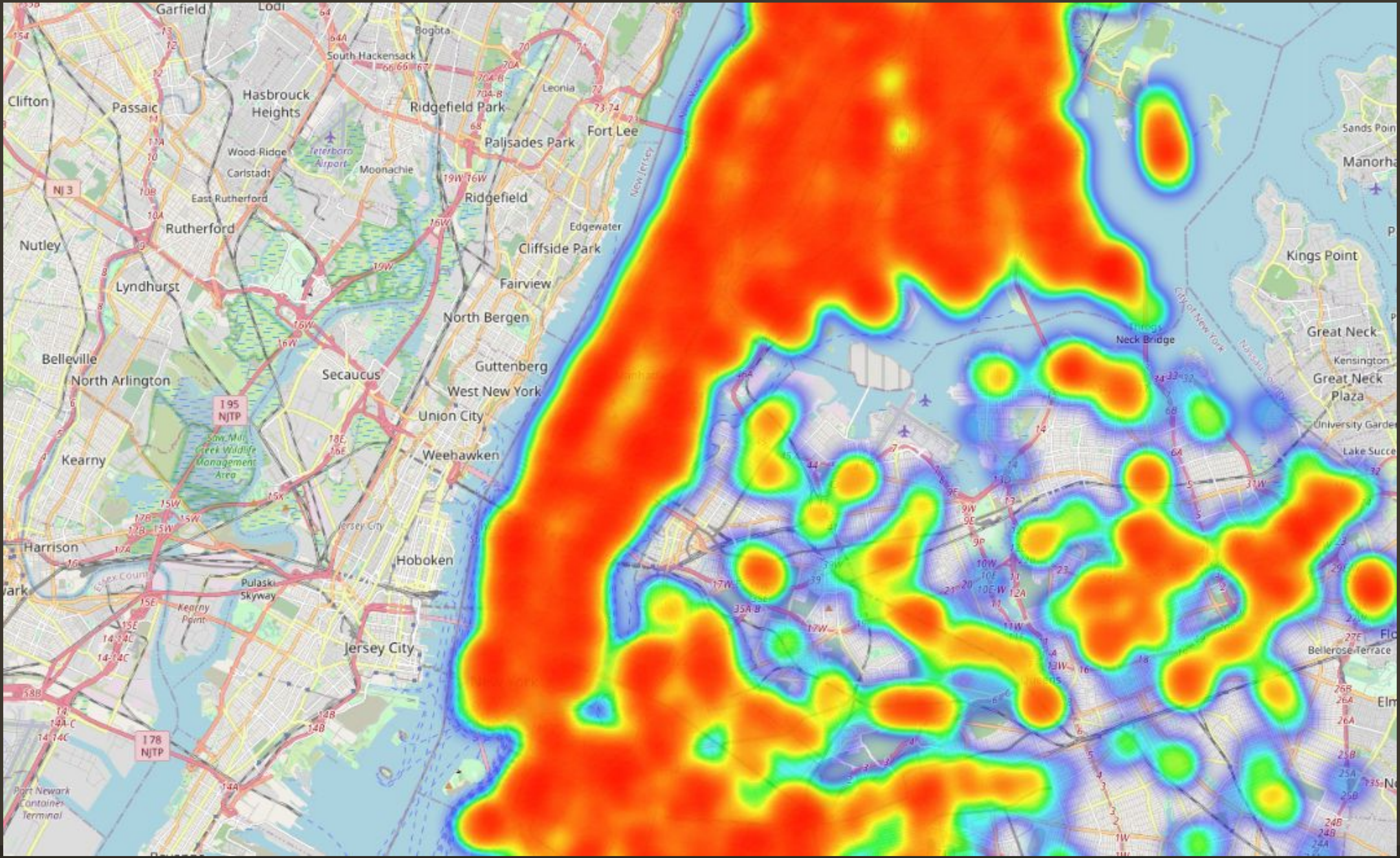
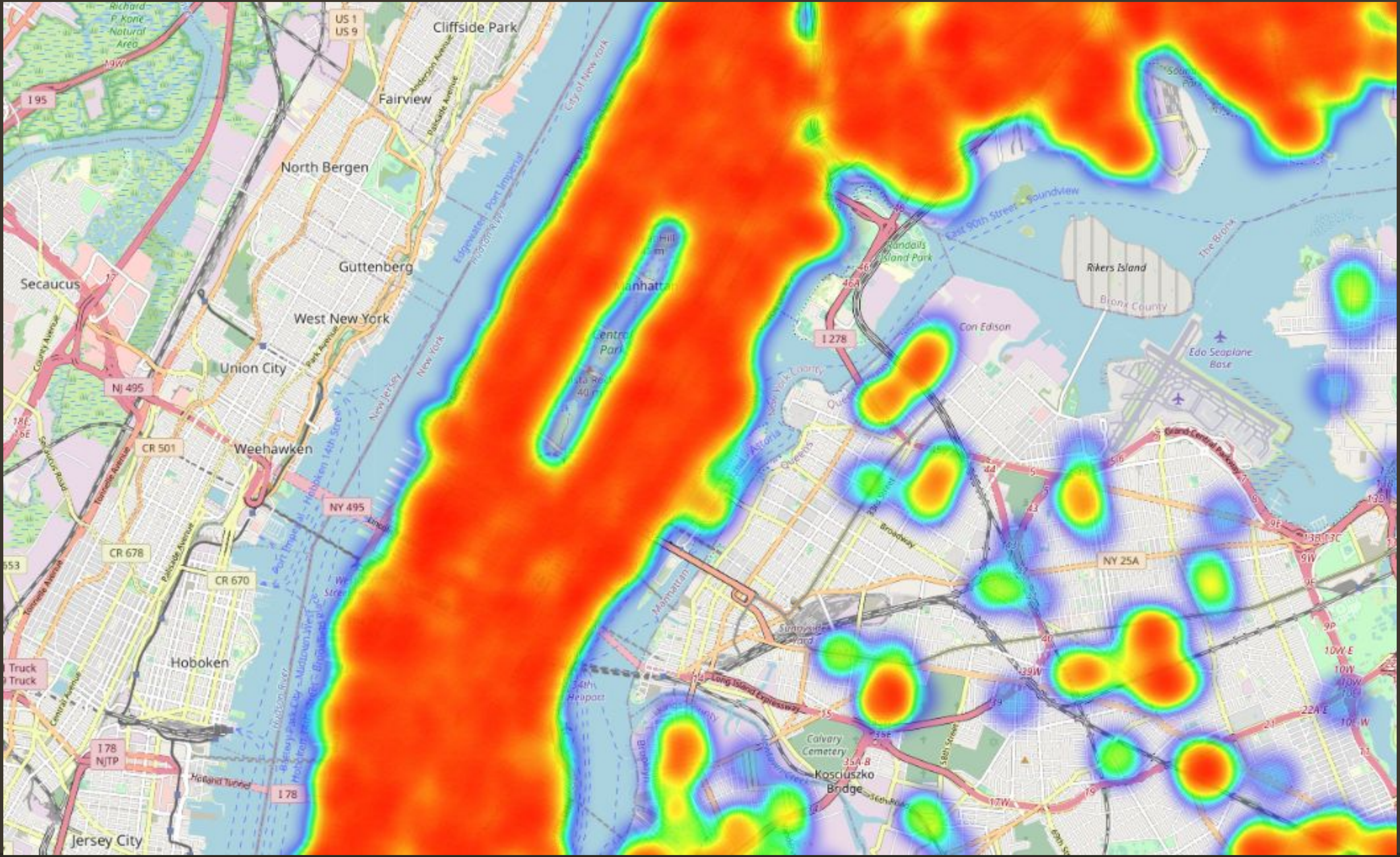
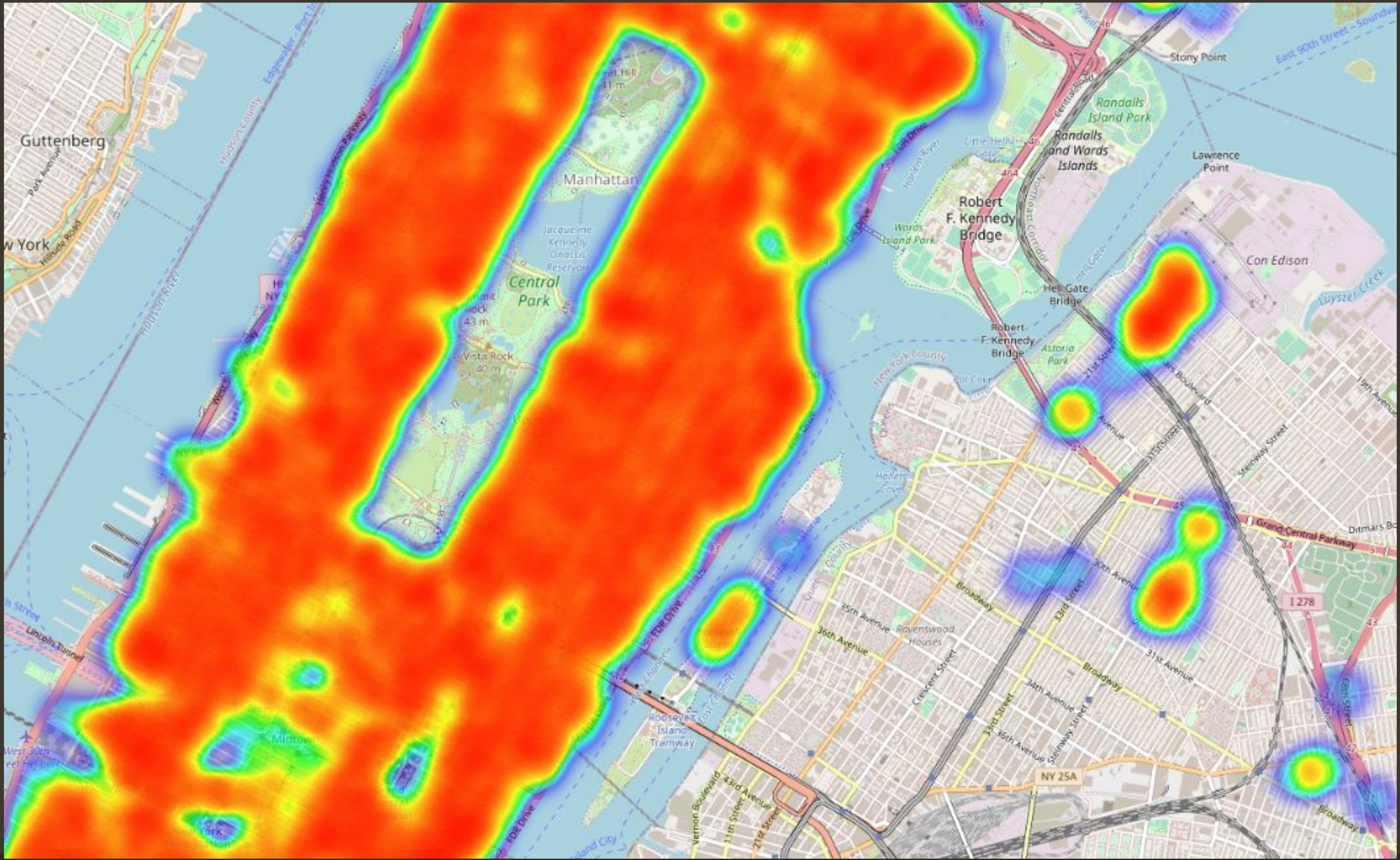
Woodmere
Clark
Linden
Inwood
Rahway
Gateway National Recreation Area
Long Beach
Carteret


Garfield
Lodi
Bogota
South Hackensack
Clifton
Passaic
Hasbrouck Heights
Ridgefield Park
Leonia
Fort Lee
Palisades Park
Wood-Ridge
Teterboro Airport
Carlstadt
Moonachie
NJ 3
East Rutherford
Ridgefield
Rutherford
Edgewater
Nutley
Cliffside Park
Lyndhurst
Fairview
North Bergen
Belleville
North Arlington
Secaucus
Guttenberg
West New York
I 95 NJTP
Union City
Kearny
Saw Mill Creek Wildlife Management Area
Weehawken
Jersey City
Harrison
Hoboken
Pulaski Skyway
Kearny Point
Jersey City
I 78 NJTP
Port Newark Container Terminal
New Jersey
New York
Sands Point
Manorhaven
Kings Point
Throgs Neck Bridge
City of New York
Nassau County
Great Neck
Kensington
Great Neck Plaza
University Gardens
Lake Success
Bellerose Terrace
Floral Park
Elmont


Richard P. Kane Natural Area
US 1
US 9
Cliffside Park
Fairview
I 95
North Bergen
Guttenberg
Secaucus
West New York
Union City
NJ 495
CR 501
Weehawken
NY 495
CR 678
CR 670
Hoboken
I 78
NJTP
Holland Tunnel
Jersey City
Manhattan
Central Park
Randalls Island Park
East 90th Street - Soundview
Rikers Island
Bronx County
Con Edison
Edo Seaplane Base
I 278
Queens
Broadway
Grand Central Parkway
NY 25A
Sunnyside Yard
Long Island Expressway
Calvary Cemetery
Kosciuszko Bridge
34th Heliport


Guttenberg
Hudson River
Lincoln Tunnel
Manhattan
Central Park
Jacqueline Kennedy Onassis Reservoir
Vista Rock 40 m
Stony Point
Randalls Island Park
Randalls and Wards Islands
Robert F. Kennedy Bridge
Wards Island Park
Lawrence Point
Con Edison
Hell Gate Bridge
Astoria Park
Grand Central Parkway
Ditmars Bo
19th Avenue
Steinway Street
31st Street
30th Avenue
31st Avenue
Broadway
35th Avenue
36th Avenue
Ravenswood Houses
Crescent Street
33rd Street
34th Avenue
32nd Street
36th Avenue
Steinway Street
NY 25A
I 278
Roosevelt Island Tramway
Vernon Boulevard
43rd Avenue
11th Street
21st Street
FDR Drive

Jacqueline Kennedy Onassis Reservoir
86th Street Transverse
Central Park
Summit Rock 43 m
81st Street-Museum of Natural History
The Great Lawn
Vista Rock 40 m
The Lake
Sheep Meadow
The Mall
86th Street
Lexington Avenue-63rd Street
Lexington Avenue-59th Street
East 99th Street
FDR Drive
FDR
Wards Island Bridge
Wards Island Park
F. Kennedy Bridge
Robert F. Kennedy Bridge
East River
Hallets Point
Pot Cove
Astoria Park South
26th Avenue
27th Avenue
Astoria Houses
Astoria
Blackwell Island Light
Astoria Ferry Landing
Astoria - East 90th Street
West Channel
East Channel
East Road
Main Street
River Road
West Road
Roosevelt Island Bridge
Vernon Boulevard
Broadway
21st Street
Crescent Street
31st Avenue
34th Avenue
35th Avenue
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30th Avenue
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31st Road
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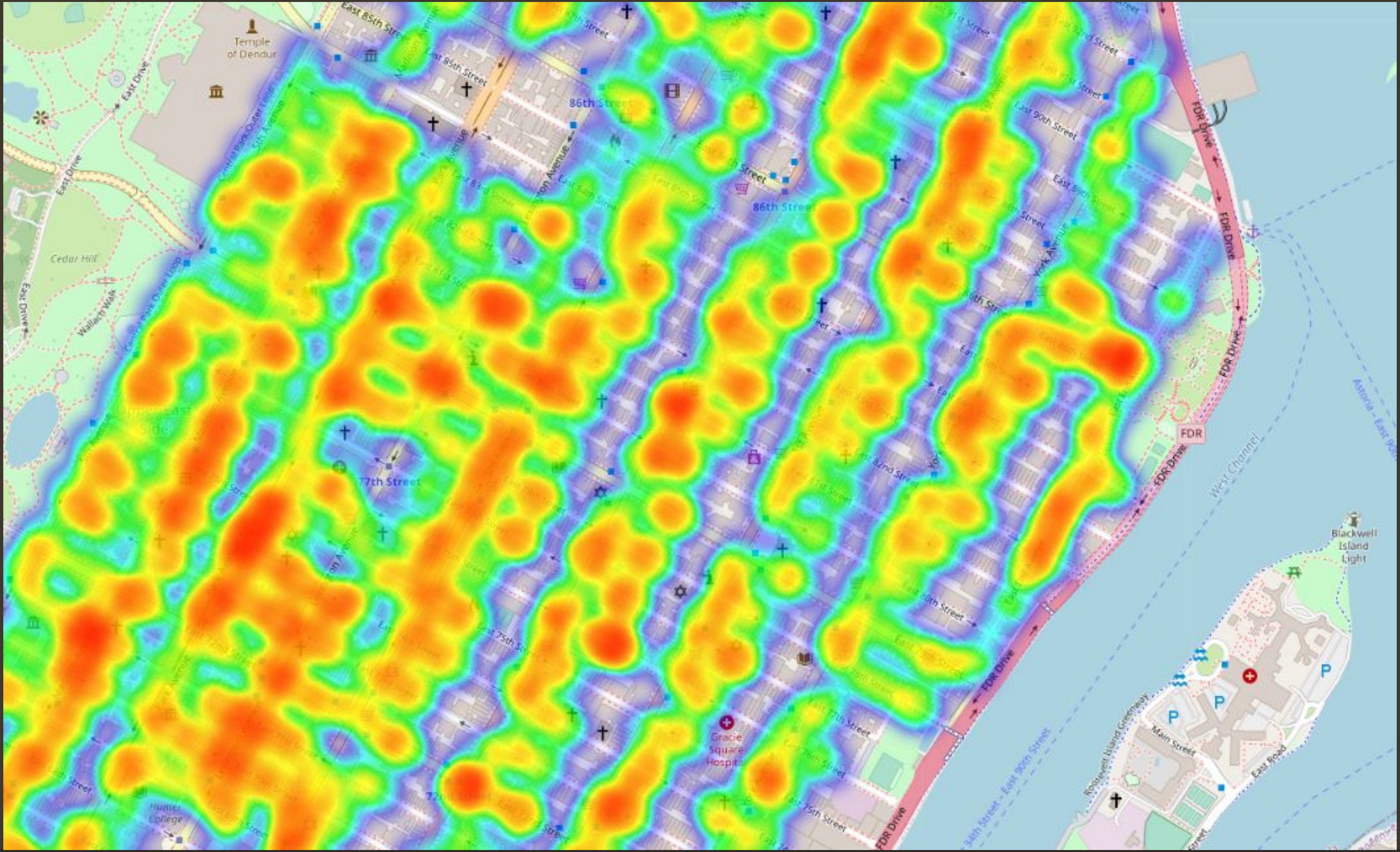
33rd Road
28th Avenue
29th Avenue
Ravenswood


Temple of Dendur
East Drive
Cedar Hill
Wallach Walk
East 85th Street
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86th Street
86th Street
Madison Avenue
Lexington Avenue
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East 83rd Street
East 90th Street
East 91st Street
East 92nd Street
East 89th Street
York Avenue
FDR Drive
FDR
77th Street
East 82nd Street
East 80th Street
East 79th Street
East 78th Street
East 77th Street
East 76th Street
East 75th Street
72nd Street
Upper East Side
Hunter College
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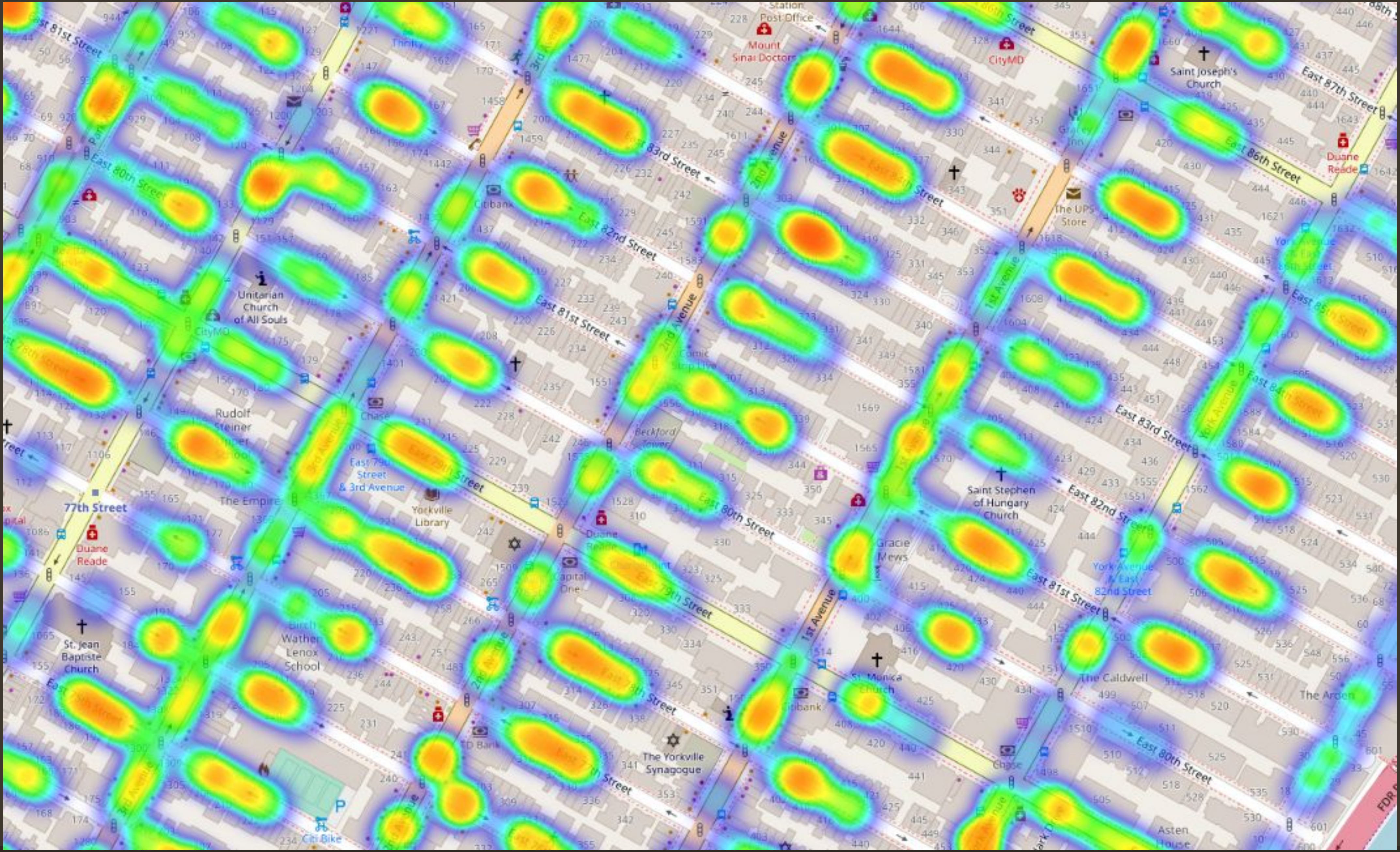
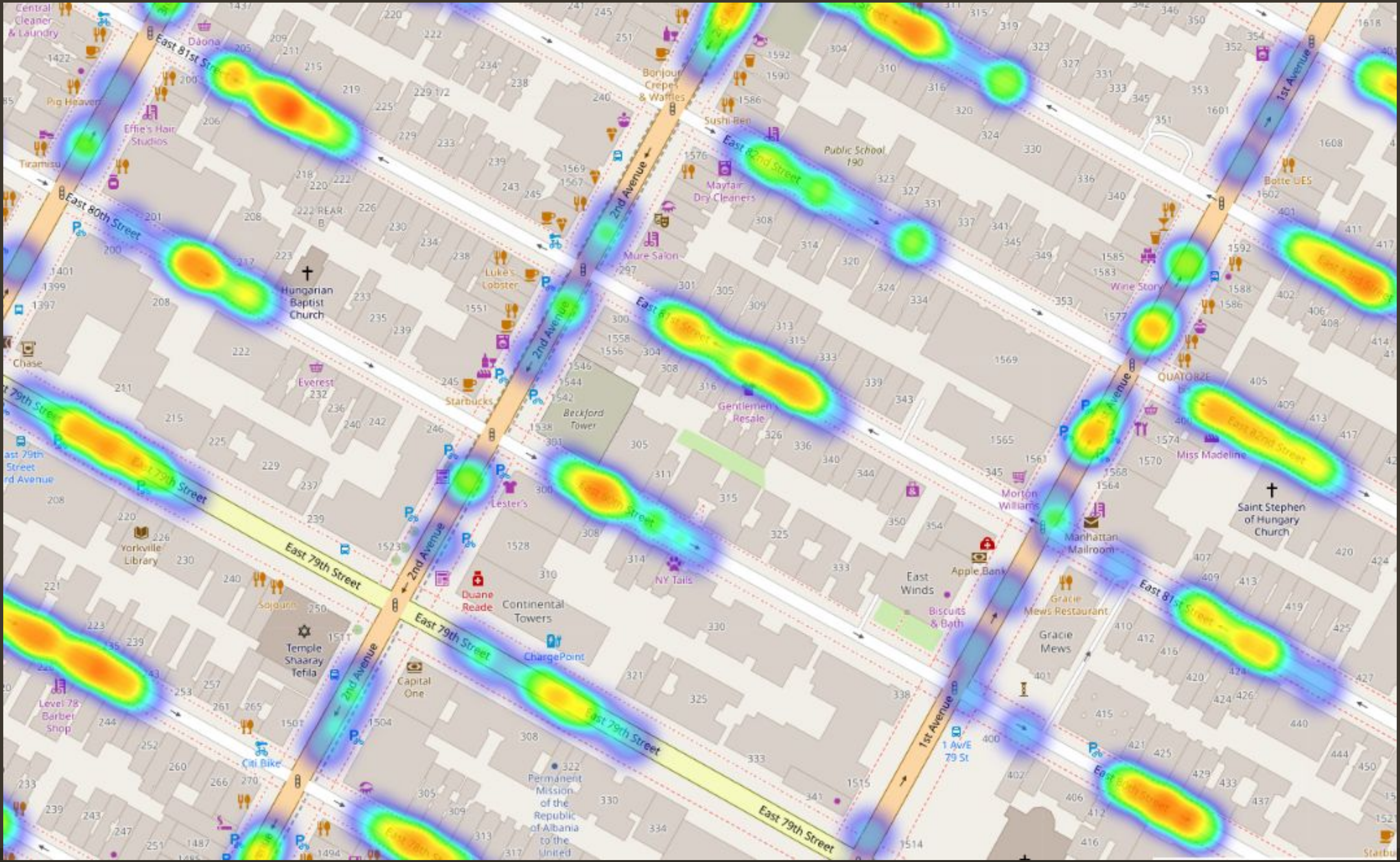
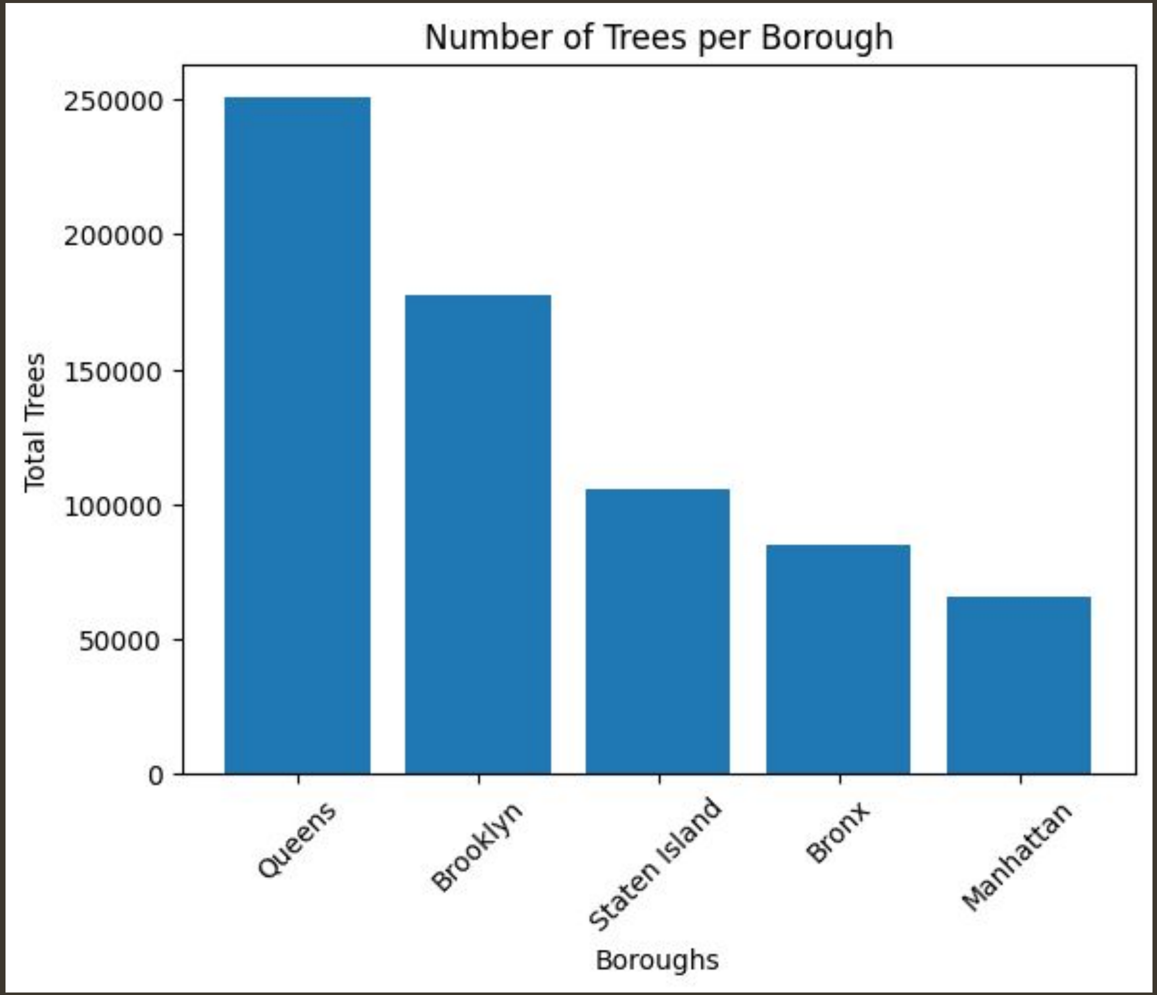
West Channel
Blackwell Island Light
Roosevelt Island Greenway
Main Street
East Road
34th Street - East 90th Street
Astoria - East 90th Street

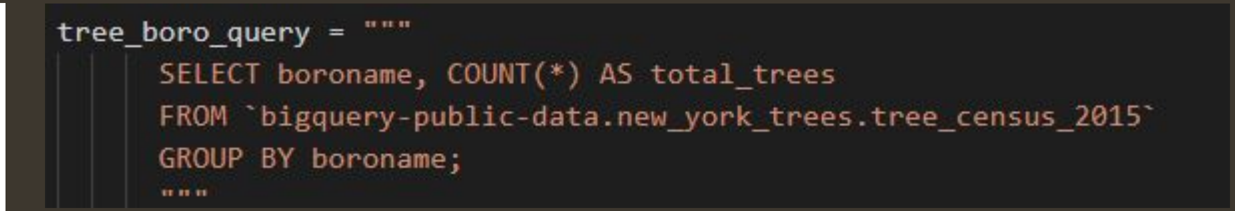


East 81st Street
East 80th Street
East 83rd Street
East 82nd Street
East 81st Street
East 80th Street
East 79th Street
East 78th Street
East 77th Street
East 84th Street
East 85th Street
East 86th Street
East 87th Street
3rd Avenue
2nd Avenue
1st Avenue
York Avenue
Park Avenue
Mount Sinai Doctors
Post Office
CityMD
Saint Joseph's Church
Duane Reade
The UPS Store
Citibank
Unitarian Church of All Souls
Rudolf Steiner School
East 79th Street & 3rd Avenue
Chase
Yorkville Library
Capital One
77th Street
The Empire
Birch Wathen Lenox School
St. Jean Baptiste Church
TD Bank
The Yorkville Synagogue
Saint Stephen of Hungary Church
Gracie Mews
St. Monica Church
York Avenue & East 82nd Street
The Caldwell
The Arden
Asten House
Beckford Tower
Comic Strip Live
Citi Bike
FDR Drive

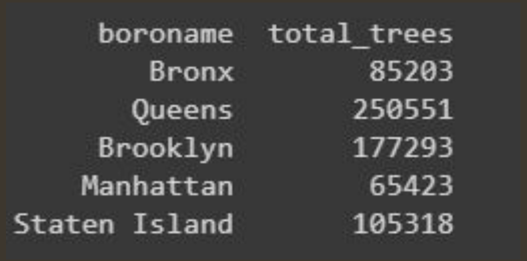

Central Cleaner & Laundry
Daona
East 81st Street
Pig Heaven
Effie's Hair Studios
Tiramisu
East 80th Street
Hungarian Baptist Church
Chase
East 79th Street
East 79th Street 3rd Avenue
Yorkville Library
Everest
Starbucks
Luke's Lobster
Bonjour Crepes & Waffles
Sushi Ren
2nd Avenue
Mayfair Dry Cleaners
Mure Salon
Public School 190
Beckford Tower
Gentlemen's Resale
Lester's
NY Tails
Duane Reade
Continental Towers
ChargePoint
Temple Shaaray Tefila
Sojourn
Capital One
Level 78 Barber Shop
Citi Bike
Permanent Mission of the Republic of Albania to the United
East Winds
Biscuits & Bath
Apple Bank
Morton Williams
Manhattan Mailroom
Gracie Mews Restaurant
Gracie Mews
1st Avenue
1 Av/E 79 St
Wine Story
QUATORZE
Miss Madeline
Saint Stephen of Hungary Church
Botte UES
East 82nd Street
East 80th Street
Starbucks

Trees per Borough



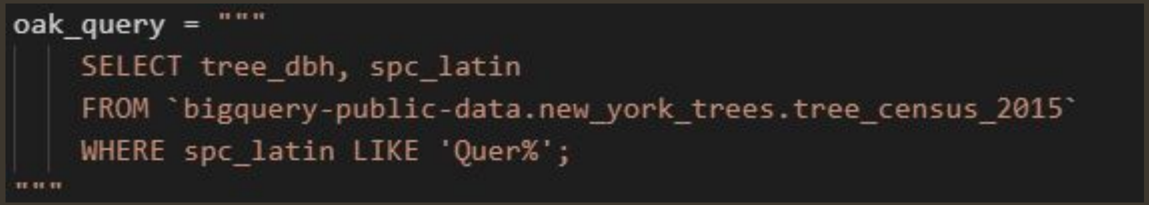


```
tree_boro_query = """
        SELECT boroname, COUNT(*) AS total_trees
        FROM `bigquery-public-data.new_york_trees.tree_census_2015`
        GROUP BY boroname;
        """
```

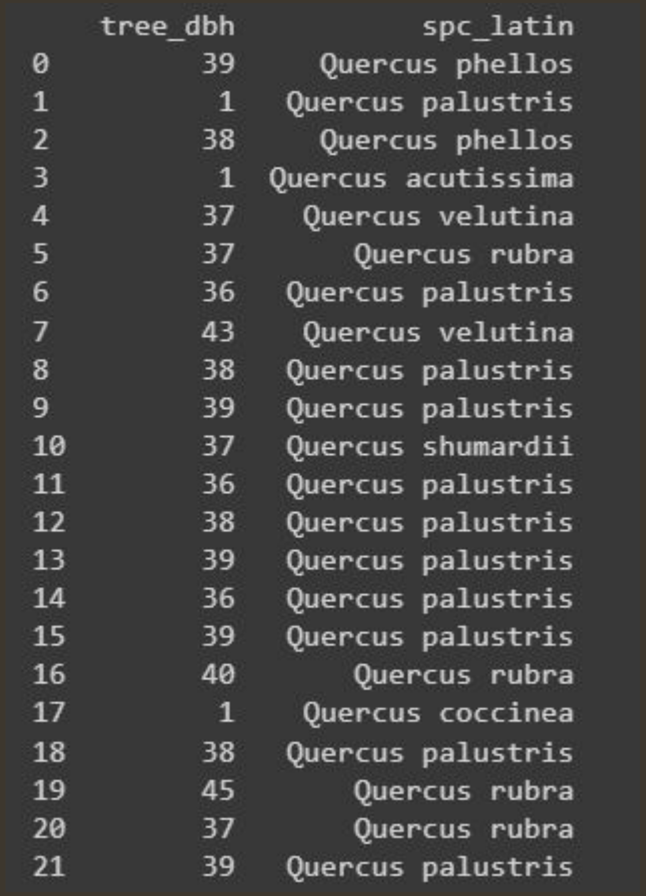


```
     boroname  total_trees
        Bronx        85203
       Queens       250551
     Brooklyn       177293
    Manhattan        65423
Staten Island       105318
```

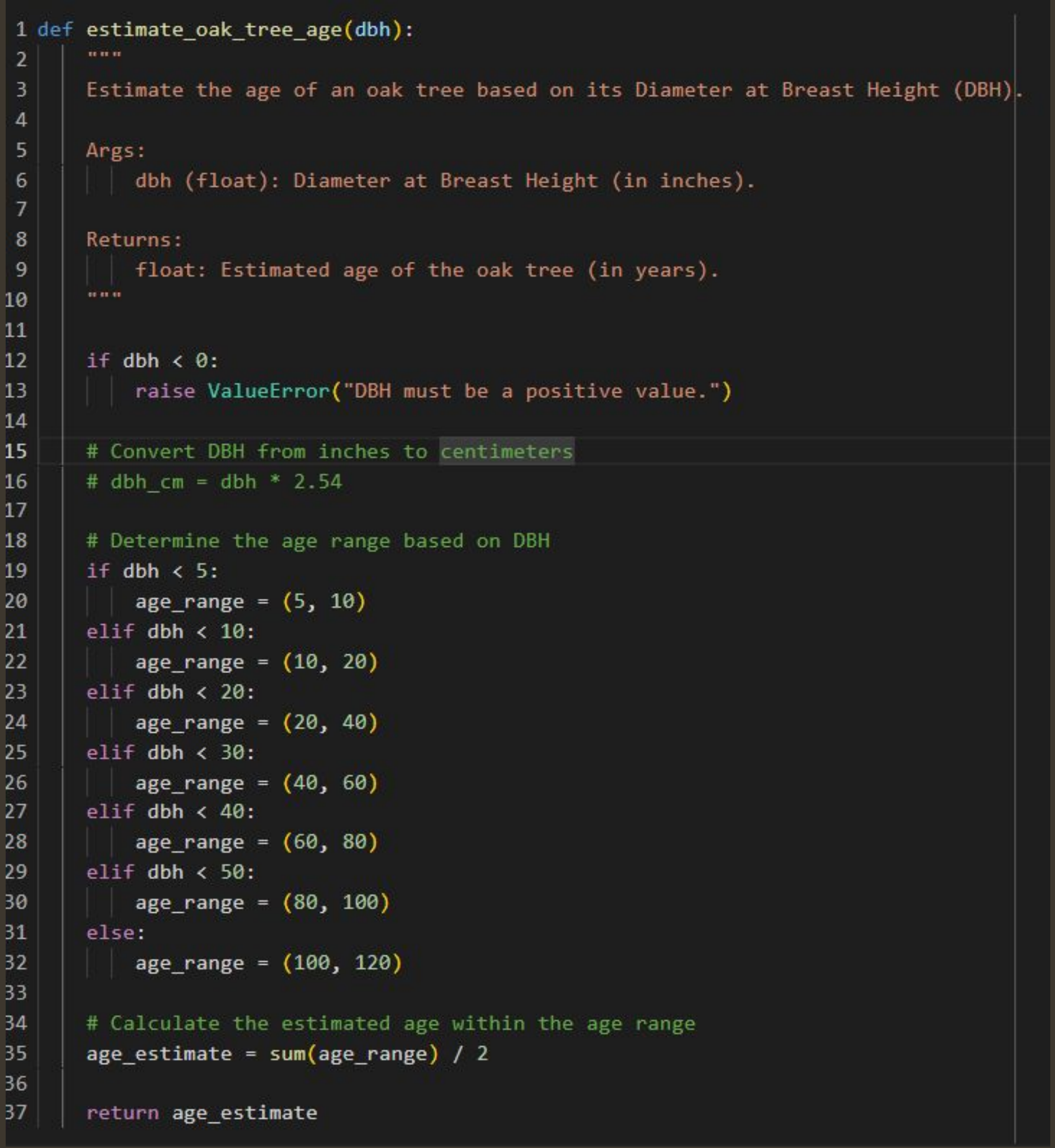
Oak Age



```
oak_query = """
    SELECT tree_dbh, spc_latin
    FROM `bigquery-public-data.new_york_trees.tree_census_2015`
    WHERE spc_latin LIKE 'Quer%';
"""
```

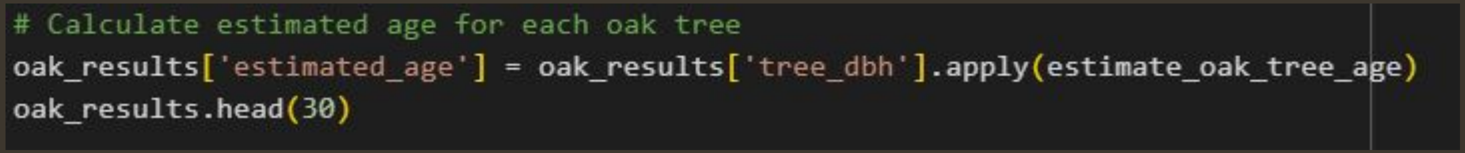


```
    tree_dbh           spc_latin
0         39     Quercus phellos
1          1   Quercus palustris
2         38     Quercus phellos
3          1 Quercus acutissima
4         37    Quercus velutina
5         37       Quercus rubra
6         36   Quercus palustris
7         43    Quercus velutina
8         38   Quercus palustris
9         39   Quercus palustris
10        37   Quercus shumardii
11        36   Quercus palustris
12        38   Quercus palustris
13        39   Quercus palustris
14        36   Quercus palustris
15        39   Quercus palustris
16        40       Quercus rubra
17         1    Quercus coccinea
18        38   Quercus palustris
19        45       Quercus rubra
20        37       Quercus rubra
21        39   Quercus palustris
```

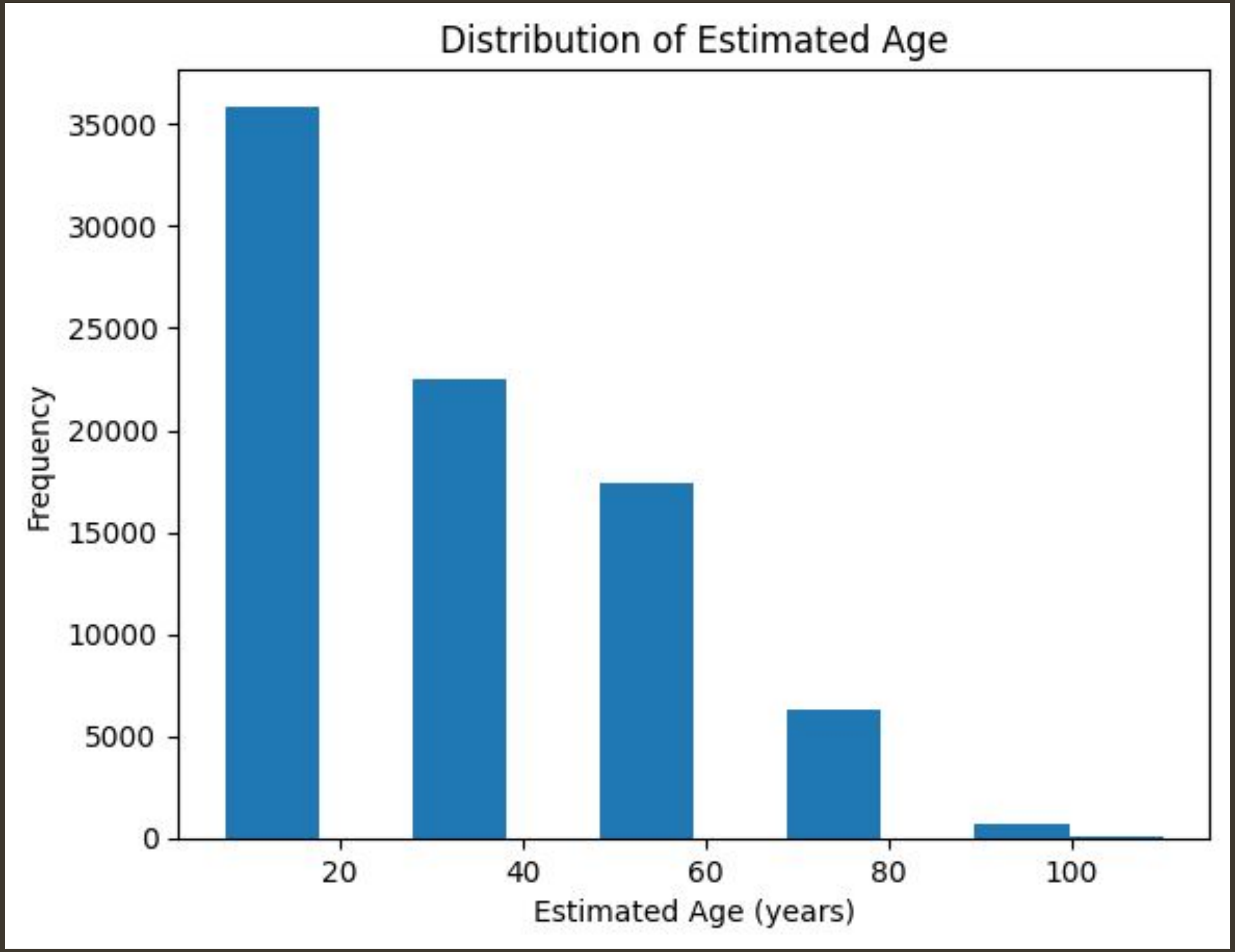


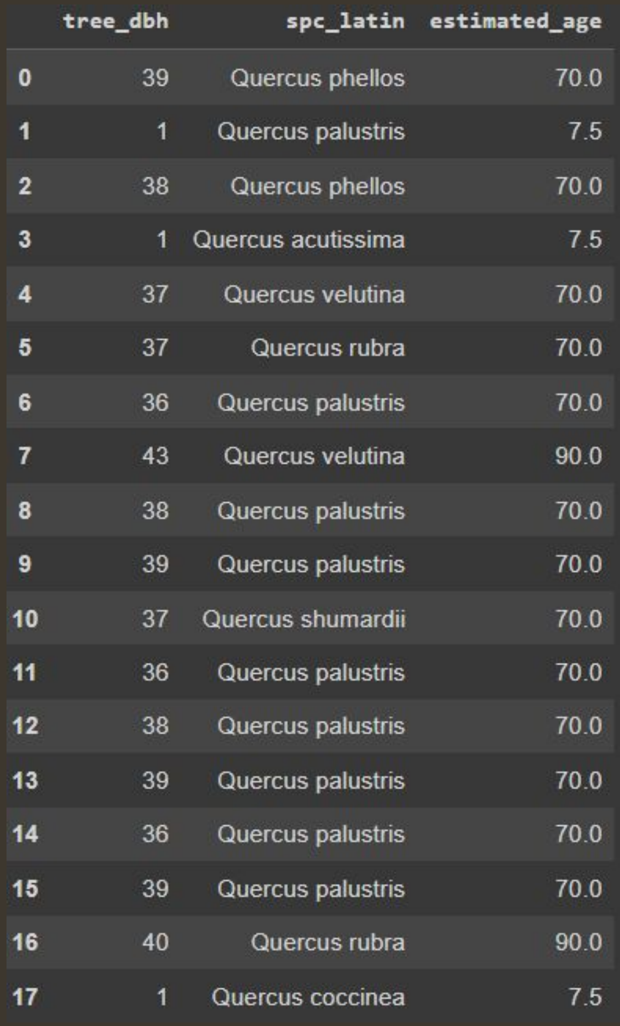
```python
def estimate_oak_tree_age(dbh):
    """
    Estimate the age of an oak tree based on its Diameter at Breast Height (DBH).

    Args:
        dbh (float): Diameter at Breast Height (in inches).

    Returns:
        float: Estimated age of the oak tree (in years).
    """

    if dbh < 0:
        raise ValueError("DBH must be a positive value.")

    # Convert DBH from inches to centimeters
    # dbh_cm = dbh * 2.54

    # Determine the age range based on DBH
    if dbh < 5:
        age_range = (5, 10)
    elif dbh < 10:
        age_range = (10, 20)
    elif dbh < 20:
        age_range = (20, 40)
    elif dbh < 30:
        age_range = (40, 60)
    elif dbh < 40:
        age_range = (60, 80)
    elif dbh < 50:
        age_range = (80, 100)
    else:
        age_range = (100, 120)

    # Calculate the estimated age within the age range
    age_estimate = sum(age_range) / 2

    return age_estimate
```

Oak Age



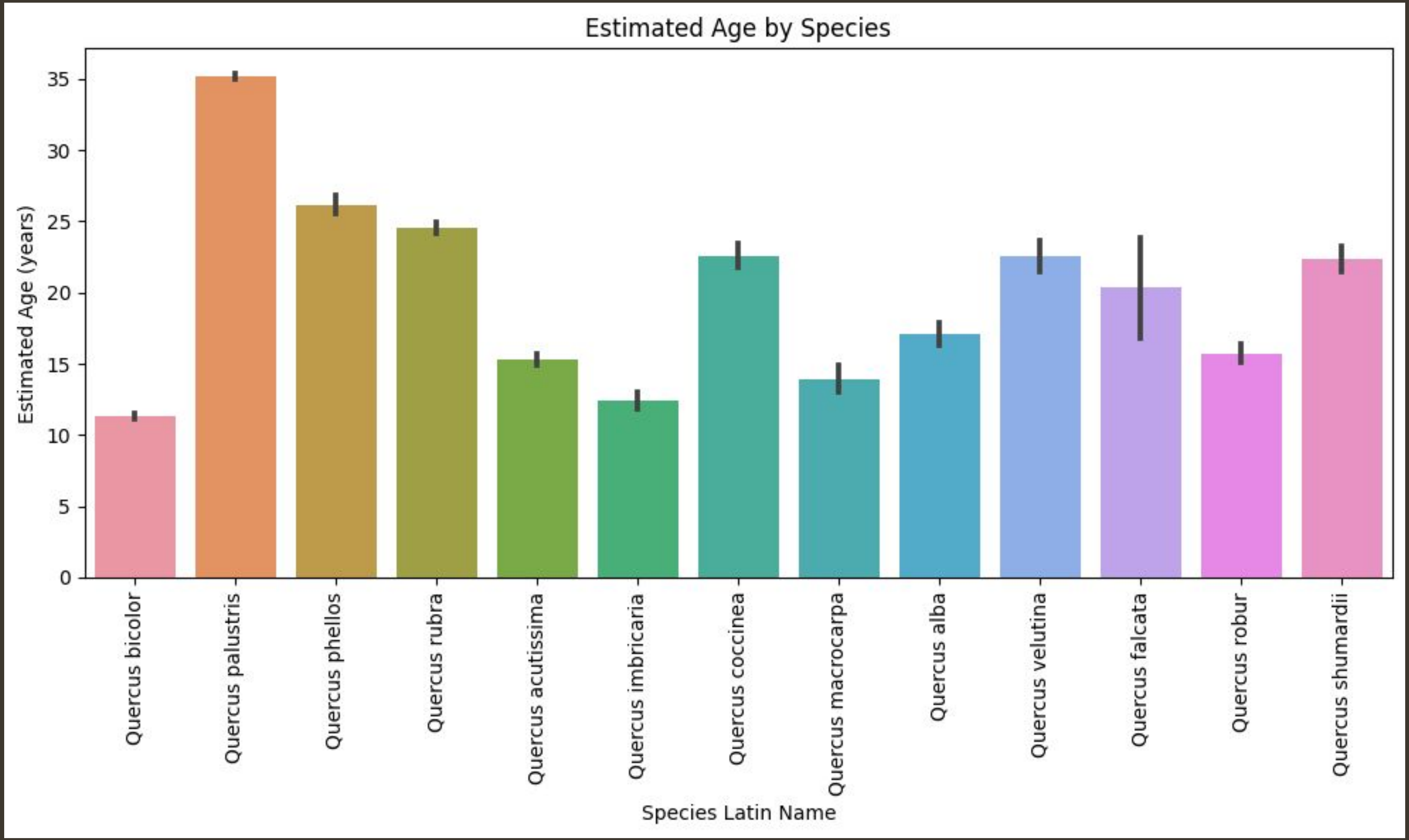
```
# Calculate estimated age for each oak tree
oak_results['estimated_age'] = oak_results['tree_dbh'].apply(estimate_oak_tree_age)
oak_results.head(30)
```





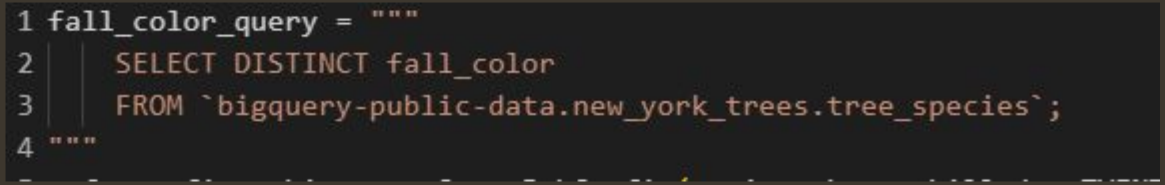
	tree_dbh	spc_latin	estimated_age
0	39	Quercus phellos	70.0
1	1	Quercus palustris	7.5
2	38	Quercus phellos	70.0
3	1	Quercus acutissima	7.5
4	37	Quercus velutina	70.0
5	37	Quercus rubra	70.0
6	36	Quercus palustris	70.0
7	43	Quercus velutina	90.0
8	38	Quercus palustris	70.0
9	39	Quercus palustris	70.0
10	37	Quercus shumardii	70.0
11	36	Quercus palustris	70.0
12	38	Quercus palustris	70.0
13	39	Quercus palustris	70.0
14	36	Quercus palustris	70.0
15	39	Quercus palustris	70.0
16	40	Quercus rubra	90.0
17	1	Quercus coccinea	7.5

Oak Age

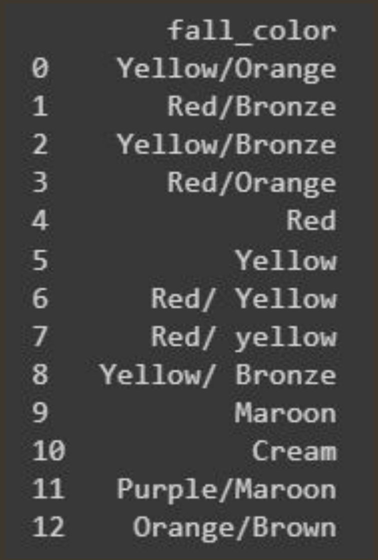


Estimated Age by Species
Estimated Age (years)
0
5
10
15
20
25
30
35
Quercus bicolor
Quercus palustris
Quercus phellos
Quercus rubra
Quercus acutissima
Quercus imbricaria
Quercus coccinea
Quercus macrocarpa
Quercus alba
Quercus velutina
Quercus falcata
Quercus robur
Quercus shumardii
Species Latin Name

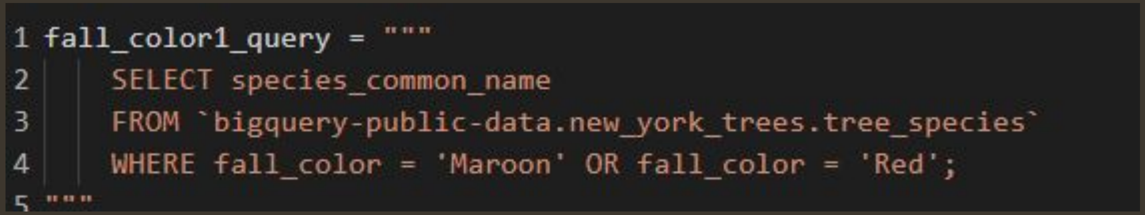
Fall Color



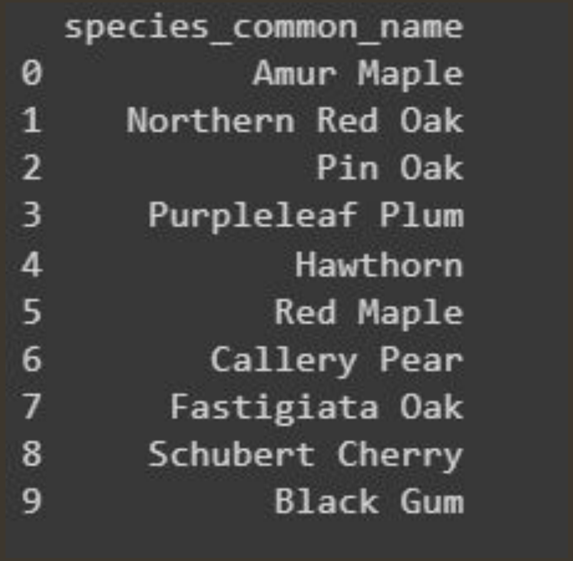
```
fall_color_query = """
    SELECT DISTINCT fall_color
    FROM `bigquery-public-data.new_york_trees.tree_species`;
"""
```



```
          fall_color
0      Yellow/Orange
1         Red/Bronze
2      Yellow/Bronze
3         Red/Orange
4                Red
5             Yellow
6        Red/ Yellow
7        Red/ yellow
8     Yellow/ Bronze
9             Maroon
10             Cream
11     Purple/Maroon
12      Orange/Brown
```

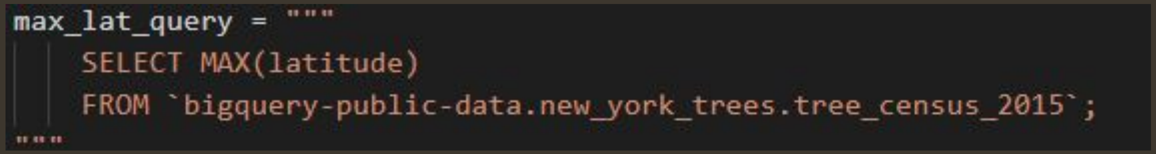


```
fall_color1_query = """
    SELECT species_common_name
    FROM `bigquery-public-data.new_york_trees.tree_species`
    WHERE fall_color = 'Maroon' OR fall_color = 'Red';
"""
```

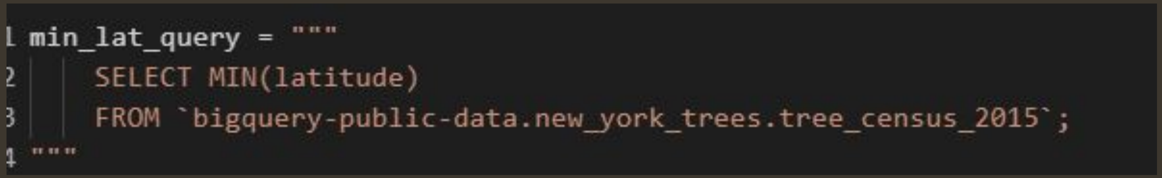


```
  species_common_name
0          Amur Maple
1    Northern Red Oak
2             Pin Oak
3     Purpleleaf Plum
4            Hawthorn
5           Red Maple
6        Callery Pear
7       Fastigiata Oak
8      Schubert Cherry
9           Black Gum
```

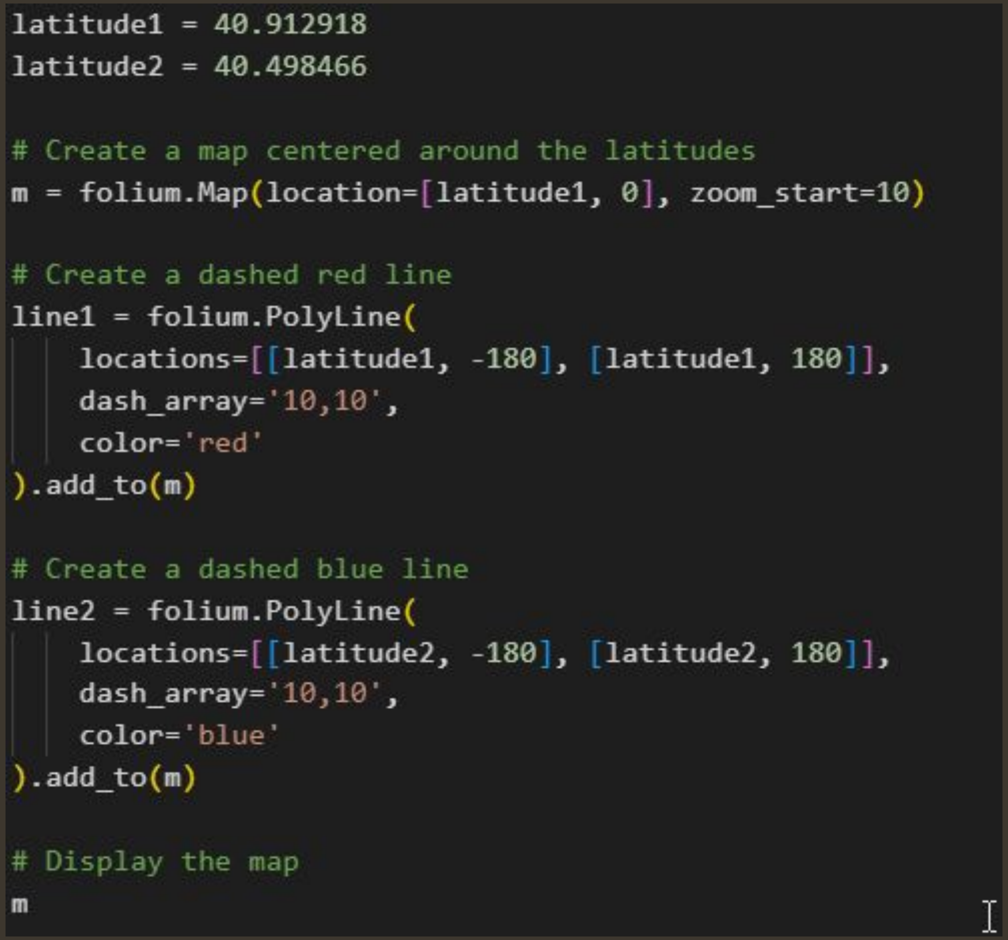
Latitude Comparison



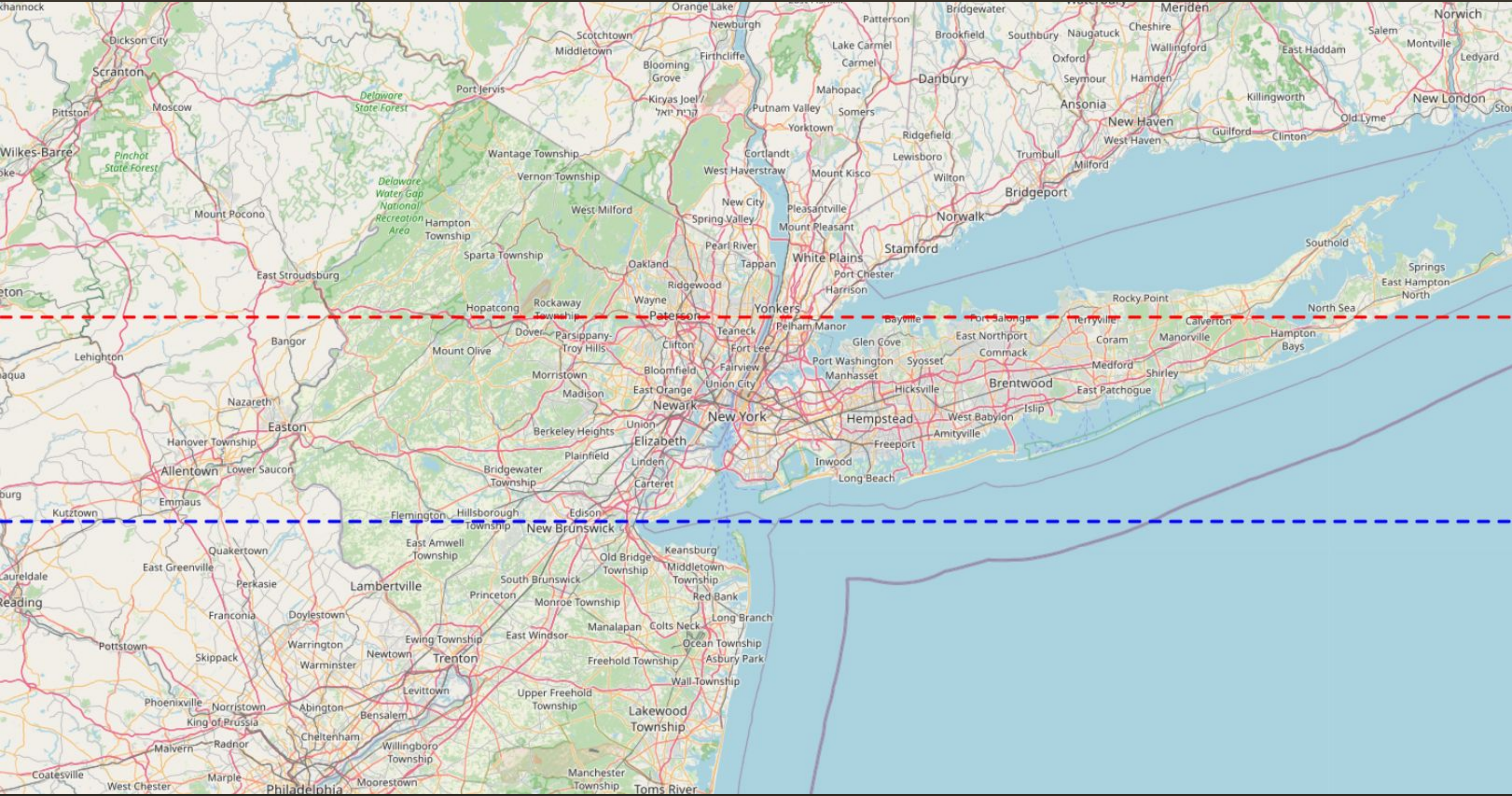
```
max_lat_query = """
    SELECT MAX(latitude)
    FROM `bigquery-public-data.new_york_trees.tree_census_2015`;
"""
```



```
min_lat_query = """
    SELECT MIN(latitude)
    FROM `bigquery-public-data.new_york_trees.tree_census_2015`;
"""
```



```
latitude1 = 40.912918
latitude2 = 40.498466

# Create a map centered around the latitudes
m = folium.Map(location=[latitude1, 0], zoom_start=10)

# Create a dashed red line
line1 = folium.PolyLine(
    locations=[[latitude1, -180], [latitude1, 180]],
    dash_array='10,10',
    color='red'
).add_to(m)

# Create a dashed blue line
line2 = folium.PolyLine(
    locations=[[latitude2, -180], [latitude2, 180]],
    dash_array='10,10',
    color='blue'
).add_to(m)

# Display the map
m
```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Patterson
Bridgewater
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Norwich
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Scotchtown
Middletown
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Southbury
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Cheshire
Salem
Montville
Wallingford
East Haddam
Ledyard
Firthcliffe
Lake Carmel
Carmel
Oxford
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Guilford
Clinton
Old Lyme
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Wantage Township
Cortlandt
Lewisboro
Trumbull
Milford
West Haverstraw
Mount Kisco
Vernon Township
Wilton
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New City
Bridgeport
Mount Pocono
West Milford
Pleasantville
Hampton Township
Spring Valley
Norwalk
Mount Pleasant
Pearl River
Southold
Stamford
Sparta Township
White Plains
Oakland
Tappan
Port Chester
Springs
East Stroudsburg
Ridgewood
East Hampton North
Harrison
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Bridgewater Township
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Carteret
Emmaus
Kutztown
Hillsborough Township
Edison
Flemington
New Brunswick
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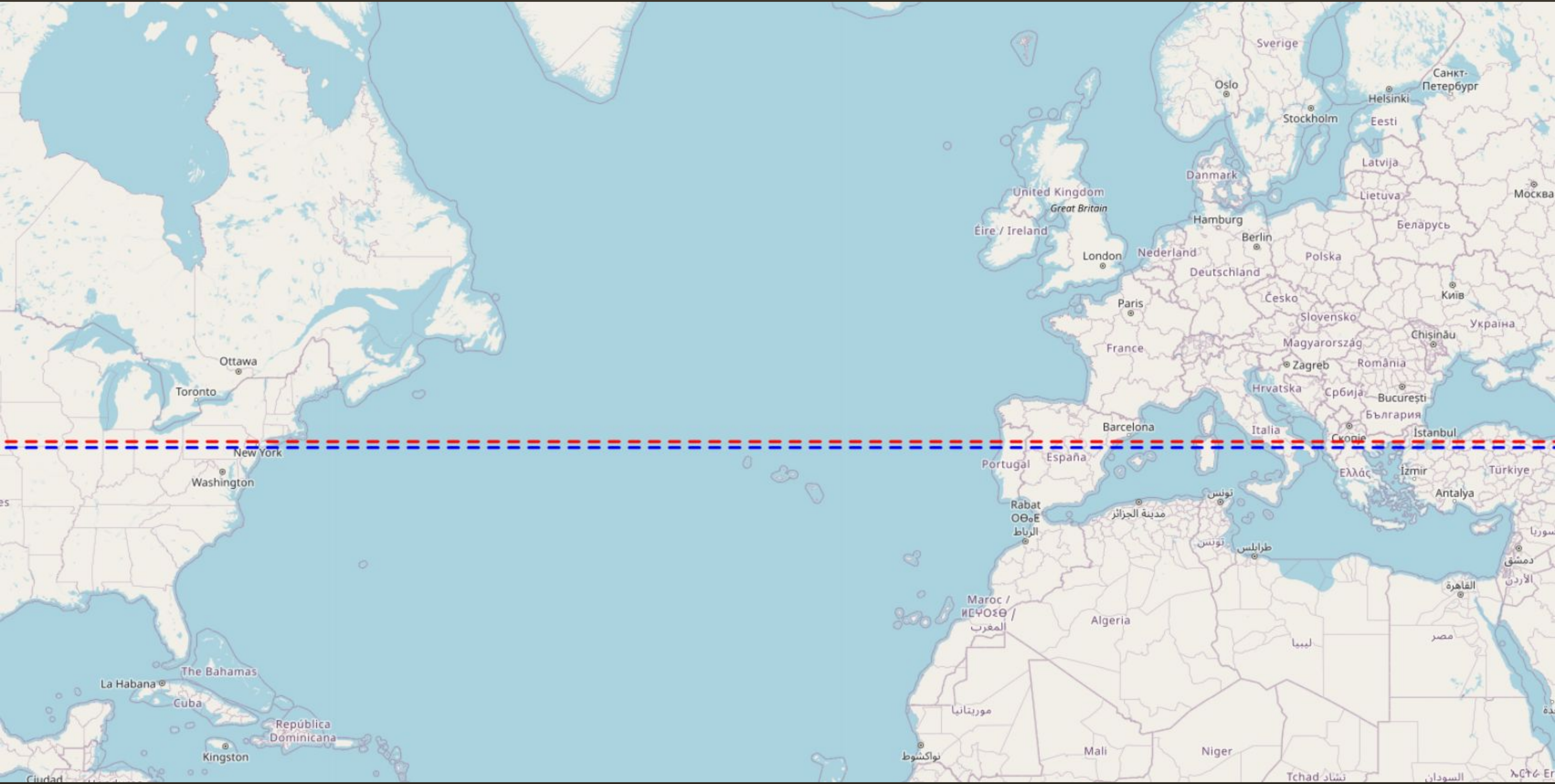
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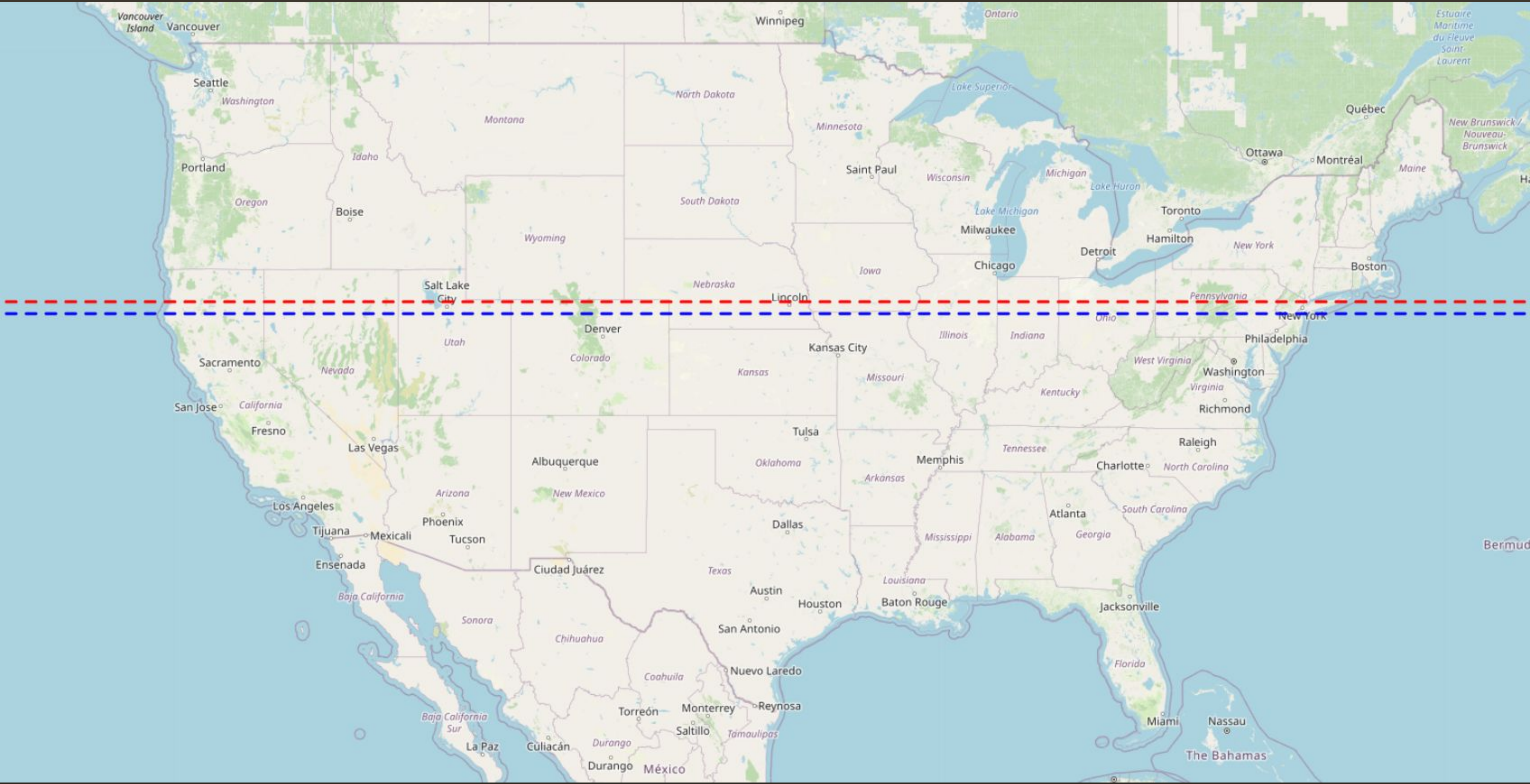
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Tucson
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Alabama
Georgia
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Baja California
Austin
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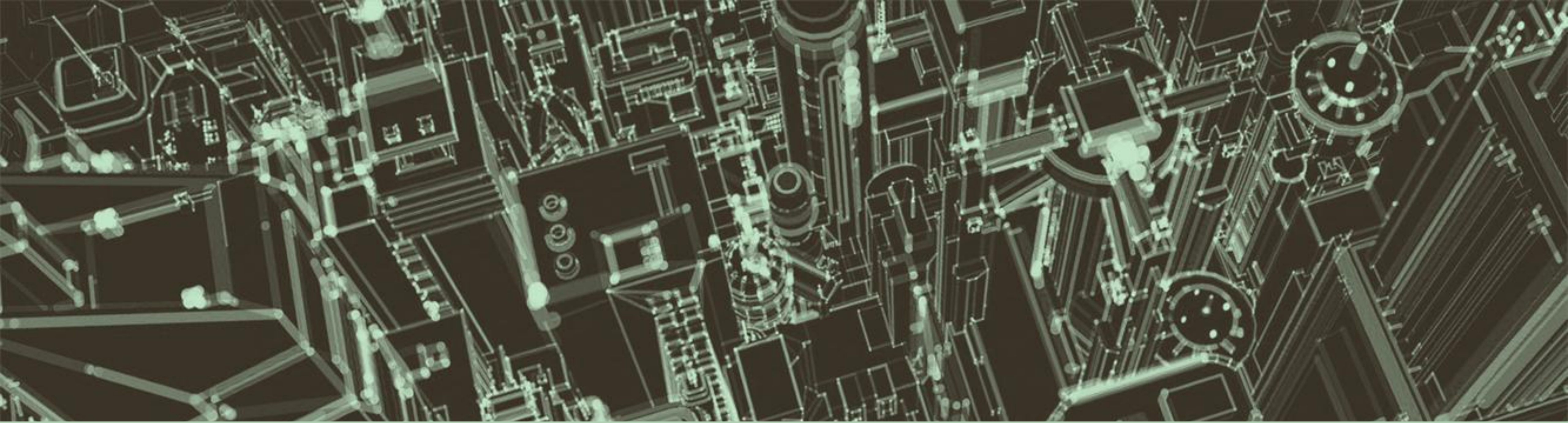

Thanks!