

Sathish_Kumar_Rajendiran_Week10.3_Geolocations

September 3, 2020

Name: Sathish Kumar Rajendiran
Task: Week 10: 10.3 Social Network Analysis
Date: 9/3/2020

```
[1]: #pip install networkx library  
!pip install geopy
```

```
Collecting geopy  
  Downloading geopy-2.0.0-py3-none-any.whl (111 kB)  
    |                               | 111 kB 1.5 MB/s eta 0:00:01  
Collecting geographiclib<2,>=1.49  
  Downloading geographiclib-1.50-py3-none-any.whl (38 kB)  
Installing collected packages: geographiclib, geopy  
Successfully installed geographiclib-1.50 geopy-2.0.0
```

```
[5]: #import libraries  
  
# standard library  
import os  
import sys  
from datetime import datetime  
import time  
  
# text tokenization  
import nltk  
import re  
  
#MongoDB libraries  
import pymongo  
from pymongo import MongoClient  
  
# csv, xls, pandas & json  
import pandas as pd  
import json  
import csv  
import xlrd  
  
import networkx as nx
```

```
import geopy
from geopy.geocoders import Nominatim

os.getcwd()
```

[5]: '/Users/sathishrajendiran/ist652-python'

```
[10]: geolocator = Nominatim(user_agent="my-geocode")
location = geolocator.geocode("Hinds Hall, Syracuse, NY")
print(location.address)
```

Hinds Hall, 110, Einhorn Family Walk, Syracuse, Onondaga County, New York,
13210-1053, United States of America

```
[11]: location = geolocator.reverse("43.0382155,-76.1333455471294")
print(location.address)
```

Hinds Hall, 110, Einhorn Family Walk, Syracuse, Onondaga County, New York,
13210-1053, United States of America

```
[12]: location = geolocator.reverse("42.773760,-78.786973")
print(location.address)
```

New Era Field, Bills Drive, Windom, Orchard Park Town, Erie County, New York,
14127, United States of America

```
[13]: location = geolocator.reverse("44.854865,-93.242215")
print(location.address)
```

Mall of America, 60, Lindau Lane, Bloomington, Hennepin County, Minnesota,
55425, United States of America

```
[14]: location = geolocator.reverse("42.999775,-78.787046")
print(location.address)
```

Alfiero Center, Mary Talbert Way, Governors Residence Halls, North Bailey,
Amherst, Amherst Town, Erie County, New York, 14261, United States of America

```
[15]: location = geolocator.reverse("43.183994,-76.236695")
print(location.address)
```

Outback Steakhouse, 3946, State Route 31, Euclid, Town of Clay, Onondaga County,
New York, 13090, United States of America

```
[16]: location = geolocator.reverse("40.689249,-74.044500")
print(location.address)
```

Statue of Liberty, Flagpole Plaza, Manhattan Community Board 1, Manhattan, New York County, New York, 10004, United States of America

```
[ ]: # 1. lat = 42.773760, long = -78.786973  
# 2. lat = 44.854865, long = -93.242215  
# 3. lat = 42.999775, long = -78.787046  
# 4. lat = 43.183994, long = -76.236695  
# 5. lat = 40.689249, long = -74.044500
```