March 23rd, 2020 Data

For each state in the US

Geographic Center

Physical Lat & Longitude for each State

Scrape Data from website

Upload it onto Github

Turn the lines of data

CSV – LAT LONG

<https://opencagedata.com/>

Split LAT & LONG geographic centers into 2 different columns

CSV and then Upload

#Build loop to request lat and long from Geocoder#List to append info into  
lat = []  
lng = []  
query = []#loops through data frame takes county and state and request info  
for index, row in a.iterrows():  
if row['State'] == 'PR':  
query = "u'" + row['County'] + ", " + row['State'] + " ,PRI'"  
results = geocoder.geocode(query)  
#Saves lat and long into list  
lat.append(results[0]['geometry']['lat'])  
lng.append(results[0]['geometry']['lng'])  
else:  
query = "u'" + row['County'] + ", " + row['State'] + " ,US'"  
results = geocoder.geocode(query)  
#Saves lat and long into list  
lat.append(results[0]['geometry']['lat'])  
lng.append(results[0]['geometry']['lng'])

#Enter Open Cage key and import it into function  
key = ""  
geocoder = OpenCageGeocode(key)

#Enter latitude into df  
county\_summary\_table\_a['lat'] = lat

#Enter longitude into df  
county\_summary\_table\_a['lng'] = lng

filepath = "cost\_of\_living.json"  
with open(filepath) as jsonfile:  
data = json.load(jsonfile)  
data

df = pd.DataFrame(data['data'])  
df

state,latlng

New York,"40.663468,-73.938697"

California,"34.019394,-118.410825"

Illinois,"41.837551,-87.681844"

Texas,"29.786642,-95.390899"

Arizona,"33.572154,-112.090132"

Pennsylvania,"40.009376,-75.133346"

Florida,"30.336864,-81.661603"

North Carolina,"35.208707,-80.830739"

Ohio,"39.984371,-82.984787"

Indiana,"39.776664,-86.145935"

Washington,"47.619349,-122.351471"

Colorado,"39.76185,-104.881105"

District of Columbia,"38.904103,-77.017229"

Massachusetts,"42.338551,-71.018253"

Tennessee,"36.1718,-86.785002"

Oregon,"45.536951,-122.649971"

Nevada,"36.227551,-115.263782"

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| [Maine, USA](https://www.latlong.net/place/maine-usa-12986.html) | 45.367584 | -68.972168 |

Oklahoma,"35.467079,-97.513657"

Michigan,"42.383037,-83.102237"

Kentucky,"38.165376,-85.647377"

Maryland,"39.300032,-76.610476"

Wisconsin,"43.063348,-87.966695"

New Mexico,"35.10478,-106.646809"

Georgia,"33.762909,-84.422675"

Missouri,"39.125129,-94.551028"

Virginia,"36.779985,-76.025209"

Nebraska,"41.261748,-96.047142"

Minnesota,"44.963324,-93.26832"

Louisiana,"30.05342,-89.934502"

Kansas,"37.690638,-97.345836"

Hawaii,"21.324347,-157.84764"

Alaska,"61.17425,-149.284329"

New Jersey,"40.72422,-74.172574"

Idaho,"43.600229,-116.231656"

Iowa,"41.57259,-93.610243"

Alabama,"33.527444,-86.799047"

Utah,"40.776928,-111.930991"

Arkansas,"34.725432,-92.358556"

South Dakota,"43.539466,-96.732035"

Rhode Island,"41.823056,-71.418784"

Mississippi,"32.315831,-90.212823"

South Carolina,"32.81793,-79.95896"

Connecticut,"41.187393,-73.195757"