# BACKGROUND:

# dataset: http://api.census.gov/data/2021/acs/acs1/subject

# dataset schema: https://api.census.gov/data/2021/acs/acs1/subject/variables.html

# # # attributes we want and their var name in the schema description

# total pop: S0101\_C01\_001E

# 15-19: S0101\_C01\_005E

# > 18yo: S0101\_C01\_026E

# median age: S0101\_C01\_032E

# import libs

import requests

import pandas as pd

# import parks data and the county its in

parks = pd.read\_csv('parks.csv')

parks = parks[parks['Park'].notna()]

parks['County'] = parks['County'].str.replace(' County', '').str.upper()

# this works county data

response = requests.get('http://api.census.gov/data/2021/acs/acs1/subject?get=NAME,S0101\_C01\_001E,S0101\_C01\_026E&for=county:\*&in=state:48&key=0923d8ea2ca411114390b1f6da3b6ed97afb330d')

# this works for city

#response = requests.get('http://api.census.gov/data/2021/acs/acs1/subject?get=NAME,S0101\_C01\_001E,S0101\_C01\_005E,S0101\_C01\_026E,S0101\_C01\_032E&for=place:\*&in=state:48&key=0923d8ea2ca411114390b1f6da3b6ed97afb330d')

# convert from json i think

data = response.json()

# Convert the list of lists to a DataFrame

df = pd.DataFrame(data[1:], columns=data[0])

# Print the DataFrame

df = df.rename(columns = {'S0101\_C01\_001E':'total\_pop','S0101\_C01\_005E':'15\_to\_19','S0101\_C01\_026E':'over\_18','S0101\_C01\_032E':'median\_age'})

# axe ' County, Texas' from county

df['NAME'] = df['NAME'].str.replace(' County, Texas','').str.upper()

# join parks data to census data

df\_parks\_census = df.merge(parks, left\_on = 'NAME', right\_on = 'County', how = 'left')

# drop stuff

df\_parks\_census.drop(['Census link','County','state','county'], axis=1, inplace=True)