Geolocation for mapping

November 22, 2024

```
[3]: import io
     import requests
     url = "https://cocl.us/Geospatial data"
     lat_long = requests.get(url).text
     lat_long_df=pd.read_csv(io.StringIO(lat_long))
     lat_long_df
[3]:
        Postal Code
                     Latitude Longitude
                M1B 43.806686 -79.194353
     1
                M1C 43.784535 -79.160497
     2
                M1E 43.763573 -79.188711
     3
                M1G 43.770992 -79.216917
     4
                M1H 43.773136 -79.239476
     98
                M9N 43.706876 -79.518188
     99
                M9P 43.696319 -79.532242
     100
                M9R 43.688905 -79.554724
     101
                M9V 43.739416 -79.588437
                M9W 43.706748 -79.594054
     102
     [103 rows x 3 columns]
[4]: import pandas as pd
     # Step 1: Read the z_score_cleaned_data_rounded.csv file
     z_score_path = "z_score_cleaned_data_rounded.csv"
     z_score_df = pd.read_csv(z_score_path)
     # Step 2: Rename 'postal_code' to 'Postal Code' in the existing DataFrame
     z_score_df.rename(columns={"postal_code": "Postal Code"}, inplace=True)
     # Step 3: Standardize postal code formats in both DataFrames
     z score_df["Postal Code"] = z_score_df["Postal Code"].str.strip().str.upper()
     lat_long_df["Postal Code"] = lat_long_df["Postal Code"].str.strip().str.upper()
     # Step 4: Merge the DataFrames on 'Postal Code'
```

Merge complete! Updated data saved to z_score_cleaned_data_rounded.csv