Week 3 individual assignment

October 18, 2020

```
[1]: import geopandas as gpd
```

```
[16]: police = gpd.read_file('data/
      ↪Police_Department_Incident_Reports__2018_to_Present.csv')
```

```
[17]: police.head()
```

```
[17]:        Incident Datetime Incident Date Incident Time Incident Year  \
      0  2020/08/15 08:56:00 AM    2020/08/15         08:56          2020
      1  2020/08/15 09:40:00 AM    2020/08/15         09:40          2020
      2  2018/02/24 10:00:00 PM    2018/02/24         22:00          2018
      3  2020/08/16 03:13:00 AM    2020/08/16         03:13          2020
      4  2020/08/16 03:38:00 AM    2020/08/16         03:38          2020

        Incident Day of Week       Report Datetime        Row ID Incident ID  \
      0             Saturday  2020/08/15 08:56:00 AM  95300907041      953009
      1             Saturday  2020/08/15 06:21:00 PM  95322706244      953227
      2             Saturday  2018/03/02 10:13:00 AM  64174871000      641748
      3               Sunday  2020/08/16 03:14:00 AM  95319604083      953196
      4               Sunday  2020/08/16 04:56:00 AM  95326228100      953262

        Incident Number CAD Number  … Current Police Districts  \
      0        200474239             …
      1        206121692             …
      2        186051531             …
      3        200491669  202290313  …                        2
      4        200491738  202290404  …                        3

        Current Supervisor Districts Analysis Neighborhoods  \
      0
      1
      2
      3                            9                      26
      4                            2                      20

        HSOC Zones as of 2018-06-05 OWED Public Spaces  \
      0
```

1

```
1
2
3
4                                        3

   Central Market/Tenderloin Boundary Polygon - Updated  \
0
1
2
3
4

   Parks Alliance CPSI (27+TL sites) ESNCAG - Boundary File  \
0
1
2
3
4

   Areas of Vulnerability, 2016 geometry
0                                    None
1                                    None
2                                    None
3                      2             None
4                      2             None

[5 rows x 37 columns]
```

[18]: `police.info()`

```
<class 'geopandas.geodataframe.GeoDataFrame'>
RangeIndex: 23444 entries, 0 to 23443
Data columns (total 37 columns):
 #   Column                              Non-Null Count  Dtype
---  ------                              --------------  -----
 0   Incident Datetime                   23444 non-null
object
 1   Incident Date                       23444 non-null
object
 2   Incident Time                       23444 non-null
object
 3   Incident Year                       23444 non-null
object
 4   Incident Day of Week                23444 non-null
object
 5   Report Datetime                     23444 non-null
object
```

```
 6   Row ID                           23444 non-null
object
 7   Incident ID                      23444 non-null
object
 8   Incident Number                  23444 non-null
object
 9   CAD Number                       23444 non-null
object
 10  Report Type Code                 23444 non-null
object
 11  Report Type Description          23444 non-null
object
 12  Filed Online                     23444 non-null
object
 13  Incident Code                    23444 non-null
object
 14  Incident Category                23444 non-null
object
 15  Incident Subcategory             23444 non-null
object
 16  Incident Description             23444 non-null
object
 17  Resolution                       23443 non-null
object
 18  Intersection                     23443 non-null
object
 19  CNN                              23443 non-null
object
 20  Police District                  23443 non-null
object
 21  Analysis Neighborhood            23443 non-null
object
 22  Supervisor District              23443 non-null
object
 23  Latitude                         23443 non-null
object
 24  Longitude                        23443 non-null
object
 25  point                            23443 non-null
object
 26  SF Find Neighborhoods            23443 non-null
object
 27  Current Police Districts         23443 non-null
object
 28  Current Supervisor Districts     23443 non-null
object
 29  Analysis Neighborhoods           23443 non-null
object
```

```
30  HSOC Zones as of 2018-06-05                          23443 non-null
object
31  OWED Public Spaces                                   23443 non-null
object
32  Central Market/Tenderloin Boundary Polygon - Updated 23443 non-null
object
33  Parks Alliance CPSI (27+TL sites)                    23443 non-null
object
34  ESNCAG - Boundary File                               23443 non-null
object
35  Areas of Vulnerability, 2016                         23443 non-null
object
36  geometry                                             0 non-null
geometry
dtypes: geometry(1), object(36)
memory usage: 6.6+ MB
```

[19]: `police.shape`

[19]: (23444, 37)

[ ]: