# Geographic Shapes

```
import pandas as pd
import geopandas as gpd
import matplotlib.pyplot as plt
```

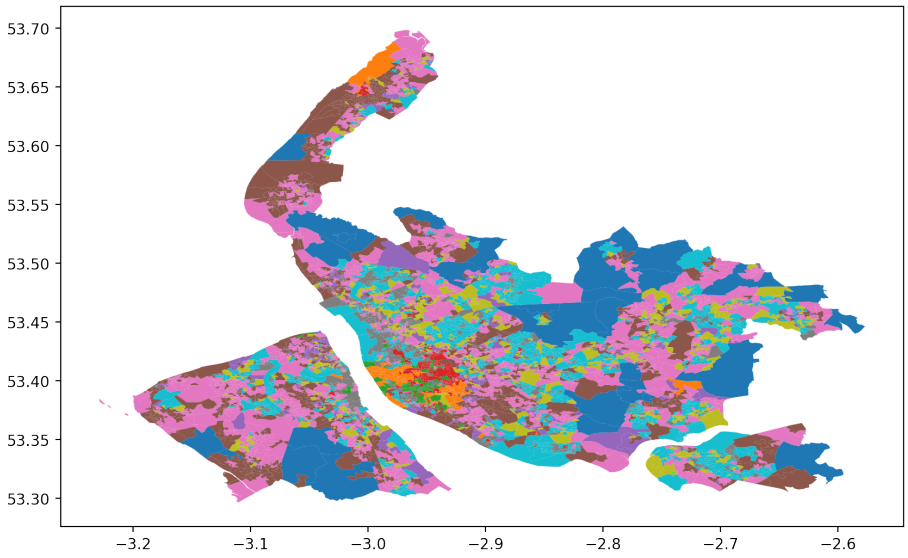
```
LCR = gpd.read_file('../data/LiverpoolCityRegion.geojson')
```

```
LCR.head()
```

```
      OA11CD Local Authority Name Subgroup Code  \
0  E00032987            Liverpool           3a1
1  E00032988            Liverpool           2a3
2  E00032989            Liverpool           3b3
3  E00032990            Liverpool           3d3
4  E00032991            Liverpool           3b3

                                              geometry
0  POLYGON ((-2.97625 53.39928, -2.97623 53.39910...
1  POLYGON ((-2.96889 53.39860, -2.96891 53.39835...
2  POLYGON ((-2.96437 53.39898, -2.96439 53.39897...
3  POLYGON ((-2.96452 53.39792, -2.96453 53.39797...
4  POLYGON ((-2.96698 53.39773, -2.96691 53.39772...
```

```
fig, ax = plt.subplots(figsize=(10,10))
LCR.plot(column='Subgroup Code', ax=ax)
plt.show()
```



```
# to run this from within the notebook, first comment out this line and save...
# ...and then uncomment the line to run it -- otherwise, Pweave will get stuck...
# ...in an infinite loop and be unable to finish processing the notebook
# ! ../bits/publi.sh
```

## References