# LeafletMap

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# 1 GIS Data Processing with Non-ESRI Tools

#### 1.1 Toolkits

- Jupyter Notebooks
- Leaflet
- Python
- ipyleaflet, ipywidgets
- geopandas

## 1.2 Steps

```
Export data from Survey123 to Shapefile:
    Start Jupyter:
    jupyter notebook LeafletMap.ipynb
    Import Files
In [1]: from ipyleaflet import Map, Marker, basemaps, GeoData,
```

#### **Anonymize Data**

### Load Dataset and Crate Leaflet Map

'other':'Other'}

'space\_activity\_hike':'Hike',

'space\_activity\_just\_be':'Just Be',

```
\#Define\ map\ center\ as\ Scott's\ Addition
center = (37.566272, -77.47060)
#Create map
m = Map(center = center, zoom = 12)#, basemap= basemaps. Esri. WorldTopoMap)
for row in data['features']:
    loc = (row['geometry']['coordinates'][1], row['geometry']['coordinates'][0])
    message1 = HTML()
    message1.value = '{} - {}'.format(row['properties']['space_name'],
                                       activity_map[row['properties']['space_acti'].spl
    #marker = Marker(location=loc)
    popup = Popup(location=loc,
    child=message1,
    close_button=False,
    auto_close=False,
    close_on_escape_key=False
)
    m.add_layer(popup)
#geo_json = GeoJSON(data=data, style={'tooltip':'foo'})
display(m)
```

Map(center=[37.566272, -77.4706], controls=(ZoomControl(options=['position', 'zoom\_in\_text', '

In [3]: with open('anon\_results.json', 'r') as f:

data = json.load(f)