

In [1]:

```
from shapely.geometry import shape,mapping
from shapely.geometry import Polygon
from shapely.wkt import dumps, loads
import folium
import json
```

In [2]:

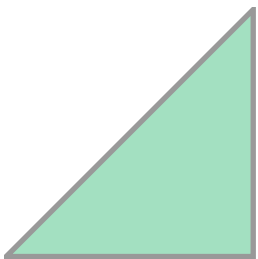
```
#wkt格式
wkt_string="POLYGON ((0 0, 10 10, 10 0, 0 0))"
```

In [3]:

```
# shapely格式
# polygon = Polygon([(0, 0), (10, 10), (10, 0)])
polygon=loads(wkt_string)
print('area',polygon.area,'length',polygon.length)
print('wkt',polygon.wkt)
polygon
```

```
area 50.0 length 34.14213562373095
wkt POLYGON ((0 0, 10 10, 10 0, 0 0))
```

Out[3]:



In [7]:

```
# 用Polygon图层显示
m=folium.Map(location=(5,5),zoom_start=6)

# Polygon图层
# folium.Polygon([
#     [0,0],
#     [10,0],
#     [3,3],
#     [0,5]
# ],fill_color='red').add_to(m)

xlst,ylst=polygon.exterior.xy
lst=[[y,x] for x,y in zip(xlst,ylst)]
folium.Polygon(lst,fill_color='red').add_to(m)
m
```

Out[7]:

In [5]:

```
# geojson格式
json_poly=mapping(polygon)
print('shape json',json_poly,'\n')

geojson_dic={
    "type": "Feature",
    "geometry": mapping(polygon),
}
geojson_poly=json.dumps(geojson_dic)
print('geojson_poly',geojson_poly)
```

```
shape json {'type': 'Polygon', 'coordinates': (((0.0, 0.0), (10.0,
10.0), (10.0, 0.0), (0.0, 0.0))),)}
```

```
geojson_poly {"type": "Feature", "geometry": {"type": "Polygon", "
coordinates": [[[0.0, 0.0], [10.0, 10.0], [10.0, 0.0], [0.0, 0.0]]
]}}
```

In [6]:

```
# 用GeoJson格式显示

m=folium.Map(location=(5,5),zoom_start=6)

# GeoJson图层
folium.GeoJson(
    geojson_poly,
    name='geojson'
).add_to(m)

m
```

Out[6]: