I suggest you guys to run kepler on "colab" instead of "JupyterLab"

Install

pip install geopandas

```
Requirement already satisfied: geopandas in /usr/local/lib/python3.10/dist-packages (0.13.2)
Requirement already satisfied: fiona>=1.8.19 in /usr/local/lib/python3.10/dist-packages (from geopandas) (1.9.4.post1)
Requirement already satisfied: packaging in /usr/local/lib/python3.10/dist-packages (from geopandas) (23.1)
Requirement already satisfied: pandas>=1.1.0 in /usr/local/lib/python3.10/dist-packages (from geopandas) (1.5.3)
Requirement already satisfied: pyproj>=3.0.1 in /usr/local/lib/python3.10/dist-packages (from geopandas) (3.6.0)
Requirement already satisfied: shapely>=1.7.1 in /usr/local/lib/python3.10/dist-packages (from geopandas) (2.0.1)
Requirement already satisfied: attrs>=19.2.0 in /usr/local/lib/python3.10/dist-packages (from fiona>=1.8.19-ygeopandas) (23.1.0)
Requirement already satisfied: certifi in /usr/local/lib/python3.10/dist-packages (from fiona>=1.8.19-ygeopandas) (2023.7.22)
Requirement already satisfied: click~=8.0 in /usr/local/lib/python3.10/dist-packages (from fiona>=1.8.19-ygeopandas) (8.1.6)
Requirement already satisfied: click-plugins>=1.0 in /usr/local/lib/python3.10/dist-packages (from fiona>=1.8.19-ygeopandas) (0.7.2)
Requirement already satisfied: six in /usr/local/lib/python3.10/dist-packages (from fiona>=1.8.19-ygeopandas) (0.7.2)
Requirement already satisfied: six in /usr/local/lib/python3.10/dist-packages (from fiona>=1.8.19-ygeopandas) (1.16.0)
Requirement already satisfied: pyton-dateutil>=2.8.1 in /usr/local/lib/python3.10/dist-packages (from pandas>=1.1.0-ygeopandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas>=1.1.0-ygeopandas) (2.03.3)
Requirement already satisfied: numpy>=1.21.0 in /usr/local/lib/python3.10/dist-packages (from pandas>=1.1.0-ygeopandas) (1.23.5)
```

pip install keplergl

```
Requirement already satisfied: click-plugins>=1.0 in /usr/local/lib/python3.10/dist-packages (from fiona>=1.8.19->geopandas>=0.5.0->k(🗛
Requirement already satisfied: cligj>=0.5 in /usr/local/lib/python3.10/dist-packages (from fiona>=1.8.19->geopandas>=0.5.0->keplergl)
Requirement already satisfied: six in /usr/local/lib/python3.10/dist-packages (from fiona>=1.8.19->geopandas>=0.5.0->keplergl) (1.16.0
Requirement already satisfied: jupyter-client in /usr/local/lib/python3.10/dist-packages (from ipykernel>=4.5.1->ipywidgets<8,>=7.0.0
Requirement already satisfied: tornado>=4.2 in /usr/local/lib/python3.10/dist-packages (from ipykernel>=4.5.1->ipywidgets<8,>=7.0.0->|
Requirement already satisfied: setuptools>=18.5 in /usr/local/lib/python3.10/dist-packages (from ipython>=4.0.0->ipywidgets<8,>=7.0.0
Collecting jedi>=0.16 (from ipython>=4.0.0->ipywidgets<8,>=7.0.0->keplergl)
  Using cached jedi-0.19.0-py2.py3-none-any.whl (1.6 MB)
Requirement already satisfied: decorator in /usr/local/lib/python3.10/dist-packages (from ipython>=4.0.0->ipywidgets<8,>=7.0.0->keple
Requirement already satisfied: pickleshare in /usr/local/lib/python3.10/dist-packages (from ipython>=4.0.0->ipywidgets<8,>=7.0.0->kep
Requirement already satisfied: prompt-toolkit!=3.0.0,!=3.0.1,<3.1.0,>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from ipython>:
Requirement already satisfied: pygments in /usr/local/lib/python3.10/dist-packages (from ipython>=4.0.0->ipywidgets<8,>=7.0.0->kepler:
Requirement already satisfied: backcall in /usr/local/lib/python3.10/dist-packages (from ipython>=4.0.0->ipywidgets<8,>=7.0.0->kepler
Requirement already satisfied: matplotlib-inline in /usr/local/lib/python3.10/dist-packages (from ipython>=4.0.0->ipywidgets<8,>=7.0.6
Requirement already satisfied: pexpect>4.3 in /usr/local/lib/python3.10/dist-packages (from ipython>=4.0.0->ipywidgets<8,>=7.0.0->kep.
Requirement already satisfied: notebook>=4.4.1 in /usr/local/lib/python3.10/dist-packages (from widgetsnbextension~=3.6.0->ipywidgets
Requirement already satisfied: parso<0.9.0,>=0.8.3 in /usr/local/lib/python3.10/dist-packages (from jedi>=0.16->ipython>=4.0.0->ipywic
Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1->widgetsnbextension~=3.6.0->ip)
Requirement already satisfied: pyzmq>=17 in /usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1-widgetsnbextension~=3.6.0-
Requirement already satisfied: argon2-cffi in /usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1->widgetsnbextension~=3.6.
Requirement already satisfied: jupyter-core>=4.6.1 in /usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1->widgetsnbextensians)
Requirement already satisfied: nbformat in /usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1->widgetsnbextension~=3.6.0->
Requirement already satisfied: nbconvert in /usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1->widgetsnbextension~=3.6.0-
Requirement already satisfied: nest-asyncio>=1.5 in /usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1->widgetsnbextension-
Requirement already satisfied: Send2Trash>=1.8.0 in /usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1->widgetsnbextension-
Requirement already satisfied: terminado>=0.8.3 in /usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1->widgetsnbextension~
Requirement already satisfied: prometheus-client in /usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1->widgetsnbextension-
```

Stored in directory: /root/.cacne/pip/wneeis/es/es/da/db/bbbatztcbscbicd/zoada8959tcezo/bc0009/cb8t50dcd009 Successfully built keplergl Installing collected packages: traittypes, jedi, keplergl

Import

```
import pandas as pd
import geopandas as gpd
from keplergl import KeplerGl
```

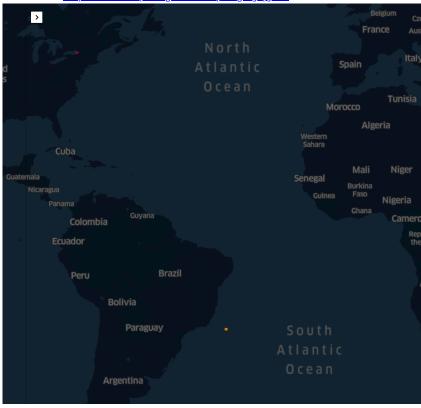
Third Party Jupyter widget for Colab

```
from google.colab import output
output.enable_custom_widget_manager()
```

Base map

```
m = KeplerGl(height=600, width=800)
m
```

User Guide: https://docs.kepler.gl/docs/keplergl-jupyter



Data frame

df

ılı.



locate cities on the map

m.add_data(data=df, name='cities')
...



P.S: for customizing use the Kepler tabs

GeoDataFrame

import pandas as pd
import geopandas as gpd
from keplergl import KeplerGl

parking_df = pd.read_csv("parking_violations_2015.csv")
parking_df.head()

	anon_ticket_number	issue_datetime	anon_plate_id	violation_desc	fine	issuin
0	4674379	01/01/2015 00:00	934383	BLOCKNG MASS TRANSIT	101	
1	4707189	01/01/2015 00:00	1065037	BLOCKNG MASS TRANSIT	101	
2	4584526	01/01/2015 00:01	1262953	SIDEWALK CC	76	
4						-

parking_df.shape

(119910, 8)

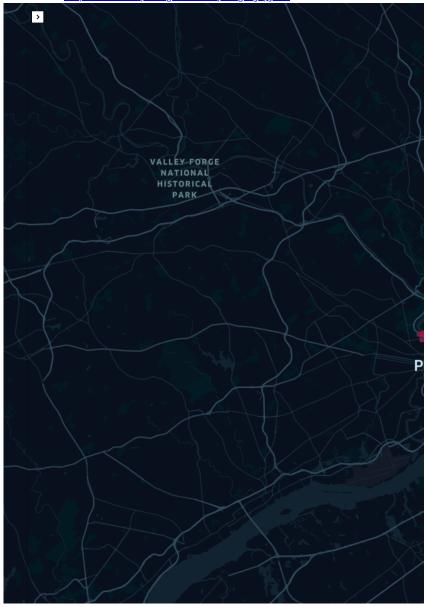
gdf = gpd.GeoDataFrame(parking_df, geometry=gpd.points_from_xy(parking_df.lon, parking_df.lat), crs="EPSG:4326")
gdf.head()

	anon_ticket_number	issue_datetime	anon_plate_id	violation_desc	fine	issuin
0	4674379	01/01/2015 00:00	934383	BLOCKNG MASS TRANSIT	101	
1	4707189	01/01/2015 00:00	1065037	BLOCKNG MASS TRANSIT	101	
4						+

```
gdf.to_file("parking_2015.geojson", driver='GeoJSON')
```

```
m = KeplerGl(height=900)
m.add_data(data=gdf, name='parking_points')
m
```

User Guide: https://docs.kepler.gl/docs/keplergl-jupyter



import geopandas as gpd
from keplergl import KeplerGl

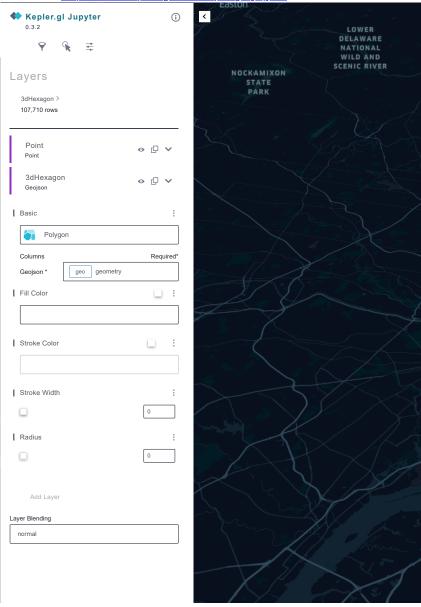
3D visualize

```
gdf = gpd.read_file("parking_2015.geojson")
gdf.head()
```

	anon_ticket_number	issue_datetime	anon_plate_id	violation_desc	fine	issuin
0	4674379	01/01/2015 00:00	934383	BLOCKNG MASS TRANSIT	101	
1	4707189	01/01/2015 00:00	1065037	BLOCKNG MASS TRANSIT	101	
4						>

m = KeplerGl(height=900)
m.add_data(data=gdf, name='3dHexagon')

User Guide: https://docs.kepler.gl/docs/keplergl-jupyter



Animate

import geopandas as gpd
import pandas as pd
from keplergl import KeplerGl

gdf = gpd.read_file("parking_2015.geojson", parse_dates=True)
gdf.head()

	anon_ticket_number	issue_datetime	anon_plate_id	violation_desc	fine	issuin
0	4674379	01/01/2015 00:00	934383	BLOCKNG MASS TRANSIT	101	
1	4707189	01/01/2015 00:00	1065037	BLOCKNG MASS TRANSIT	101	
4						+

gdf["issue_datetime"] = pd.to_datetime(gdf["issue_datetime"], dayfirst=True)

gdf.sample(10)

	anon_ticket_number	issue_datetime	anon_plate_id	violation_desc	fine i
104743	4633708	2015-01-31 10:30:00	1328468	METER EXPIRED CC	36
4252	4575171	2015-01-03 10:22:00	1540074	METER EXPIRED CC	36
58033	4622972	2015-01-18 09:00:00	985476	BLOCKING DRIVEWAY	51
43555	4683288	2015-01-14 16:52:00	1277624	METER EXPIRED	26
91629	4514288	2015-01-28 12:45:00	1398166	METER EXPIRED CC	36

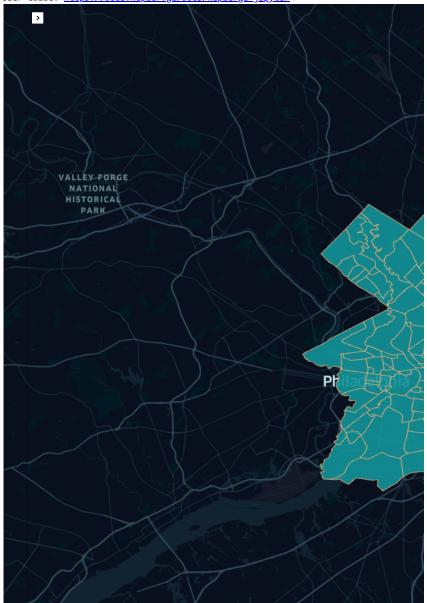
m = KeplerGl(height=900)

m

m.add_data(data=gdf, name='animation')

User Guide: https://docs.kepler.gl/docs/keplergl-jupyter Kepler.gl Jupyter < 0.3.2 8 **-**Filters animation > 107,710 rows Choropleth Map import geopandas as gpd from keplergl import KeplerGl neighborhoods = gpd.read_file("neighbrhoods.geojson") neighborhoods.head() NAME LISTNAME MAPNAME Shape_Leng Shape_Area NUMPOINTS Ν BRIDESBURG Bridesburg 27814.546521 4.458626e+07 0 Bridesburg 149.0 Ν BUSTLETON Bustleton Bustleton 48868.458365 1.140504e+08 228.0 1 neighborhoods = neighborhoods.to_crs("EPSG:4326") neighborhoods.crs <Geographic 2D CRS: EPSG:4326> Name: WGS 84 Axis Info [ellipsoidal]: - Lat[north]: Geodetic latitude (degree) - Lon[east]: Geodetic longitude (degree) Area of Use: - name: World. - bounds: (-180.0, -90.0, 180.0, 90.0) Datum: World Geodetic System 1984 ensemble - Ellipsoid: WGS 84 - Prime Meridian: Greenwich m = KeplerGl(height=900) m.add_data(data=neighborhoods, name='choropleth_map')

User Guide: https://docs.kepler.gl/docs/keplergl-jupyter



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