

GIS Python

Maurizio Napolitano
(napo@fbk.eu)

Python GIS



Python libraries :)

Projections

pyproj

Vector Data

geopandas

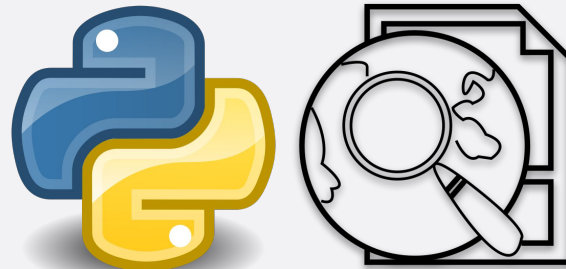
shapely

osmnx

pyrosm

Raster Data

rasterio



Analysis

osmnx

shapely

geopandas

pysal

Geocoding

geopy

geocoder

Visualization

matplotlib

seaborn

folium

bouquet

 [jorisvandenbossche](#) / **geopandas-tutorial**

 Watch ▾ 4  Star 37  Fork 11

 Code  Issues 1  Pull requests 0  Projects 0  Wiki  Insights

Branch: master ▾ **geopandas-tutorial** / 01-introduction-geospatial-data.ipynb

 Find file  Copy path

 **jorisvandenbossche** updates from tutorial

dfefed on May 7

1 contributor

656 lines (655 sloc) | 17.6 KB

  Raw Blame History  

Introduction to geospatial vector data in Python

```
In [ ]: %matplotlib inline

import pandas as pd
import geopandas

pd.options.display.max_rows = 10
```

Importing geospatial data

Geospatial data is often available from specific GIS file formats or data stores, like ESRI shapefiles, GeoJSON files, geopackage files, PostGIS (PostgreSQL) database, ...

We can use the GeoPandas library to read many of those GIS file formats (relying on the fiona library under the hood, which is an interface to GDAL/OGR), using the `geopandas.read_file` function.

Contacts



Maurizio Napolitano



<http://slideshare.net/napo>



napolitano@fbk.eu



[@napo](https://twitter.com/napo)

Acknowledgements

Icons - from the Noun Project. Authors: Yuvika Koul, Juraj Sedlák , Gene Stroman, David, Adrien Conquet, Evangeline White, Vanila, kinkakuji
Chanut is Industrie, Wahyu Prihantoro
images - wikipedia, openstreetmap