

Installation of Basemap and Folium

BASEMAP

1. Prerequisites required for installation :
 - a. NumPy
 - b. Matplotlib
 - c. Python
 - d. GEOS Package
2. Install all the prerequisites mentioned in the above bulletline
3. Download the tar file from the following link and extract it
<https://github.com/matplotlib/basemap/releases/>
4. Install the GEOS Package using the command : `pip3 install geos`
5. Inside the tar file extracted move into the directory `geos-3.3.3`
6. Execute the following command : `export GEOS_DIR = /usr/local/`
7. Execute the following command : `./configure --prefix=$GEOS_DIR`
8. Execute the following command : `make`
9. Execute the following command : `make install`
10. Execute the following command : `cd ../`
11. Execute the following command : `python3 setup.py install`
12. Open Python Interpreter and check if the following command works
 - a. `from mpl_toolkits.basemap import Basemap`
13. To test the functionality, move inside the examples directory and run `python3 simpletest.py`

FOLIUM

1. Run the following command : `pip3 install folium`
2. Open Python Interpreter and check if the following command works
 - a. `Import folium`