

Creation of Anaconda environment for the Geospatial Data workshop

1. Open your Anaconda command prompt

2. Create a new environment called “geospatial” (with Python 3.9)

```
conda create -n geospatial python=3.9 -y
```

3. Activate the new environment to proceed with the installation of the packages

```
conda activate geospatial
```

4. Install Jupyter Notebook

```
pip install jupyter --no-input
```

5. Install all geospatial packages

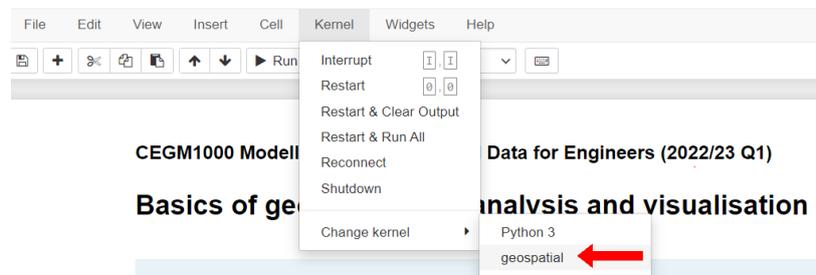
```
conda install -y -c conda-forge geopandas rasterio folium branca
```

```
conda install -y -c jmc Murray json
```

6. In order to use the new environment with Jupyter Notebook, we need to add it to its list of known environments

```
python -m ipykernel install --user --name geospatial --display-name "geospatial"
```

7. Now we can run all notebooks, after making sure the kernel is set to "geospatial" to make sure we are using the newly installed environment.



8. After you finished the introductory PDF, try with “Notebook 1” of the workshop. Run the first cell to check whether all packages have been installed correctly.

Check if all packages have been installed correctly

```
In [1]: 1 import geopandas as gpd
2 import folium
3 import json
4 import branca
5 import rasterio
6 import rasterio.mask
7 import matplotlib.pyplot as plt
8 import numpy as np
9 from rasterio.plot import show
10
11 print('All libraries are downloaded and imported correctly')
```

All libraries are downloaded and imported correctly