

# GIS Instructions

## Installing the right environment and packages

### Anaconda Powershell Prompt

- We will use several special Python packages to process geodata and to interact with geodatabases. The following list is not comprehensive:
  - os
  - geopandas
  - shapely
  - sodapy
  - matplotlib
  - json
  - requests
  - etc.
- Create a new Anaconda environment. Do NOT install the packages in the base environment, e.g.

```
conda create -c conda-forge -n geo python=3
conda activate geo
conda install -c conda-forge ... (or pip install
```

(For more information, see the file attached

conda-cheatsheet.pdf

).

## Geoprocessing in QGIS I (Data Handling)

NEWS:

<https://www.ideam.gov.co/sala-de-prensa/noticia/ideam-el-icpet-de-ecopetrol-y-fundacion-natura-entregan-colombia-el-mapa-nacional-de-coberturas-de>

## Python Programming

## Geoprocessing in QGIS II (Concepts in GIS)

/\* 1. Optional introduction to CRS and

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<https://wiki.eolab.de/> - **HSRW EOLab Wiki**

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