





Setting up a python environment

On your computer:



Various python installed:

- Some are system wide
- Located within programs (e.g. InkScape...)
- Some versions required for specific programs (v2.7 for old ones, 32bits version, specific packages not compatible...)

py35env



- Environment related to python 3.5
- For a specific use

py38env

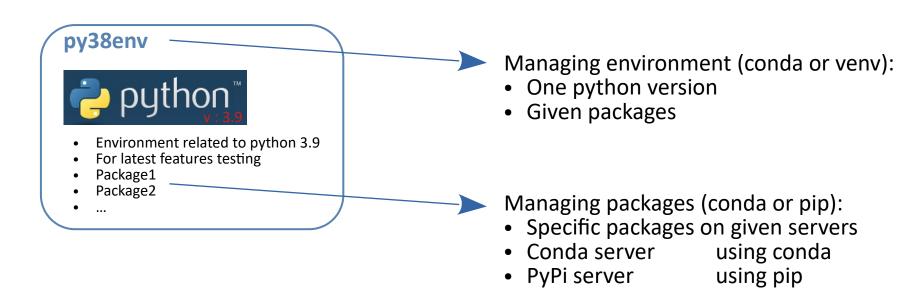


- Environment related to python 3.9
- For latest features testing

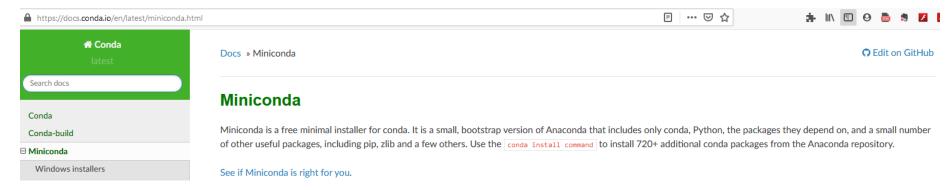
Solution: using an environment manager



Using conda as environment manager



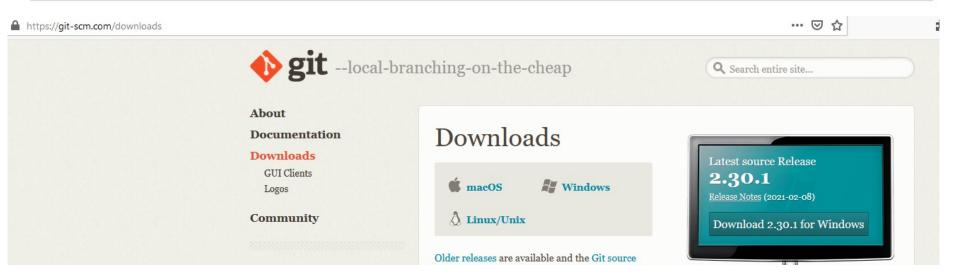
Lightweight conda: Miniconda







Other required software: Git



Required to get last development packages for the practicals

(Mac and Linux users may already have it on their computer!)
To check this enter « git --version » on your command line

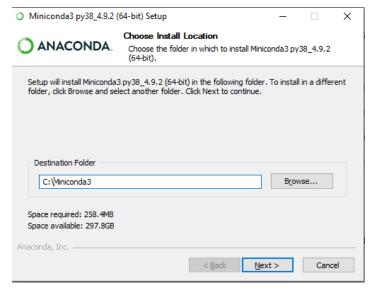
(base) C:\Users\weber\Labo\Programmes Python\Git_others\FemtoUP2021\installation>git --version git version 2.26.0.windows.1



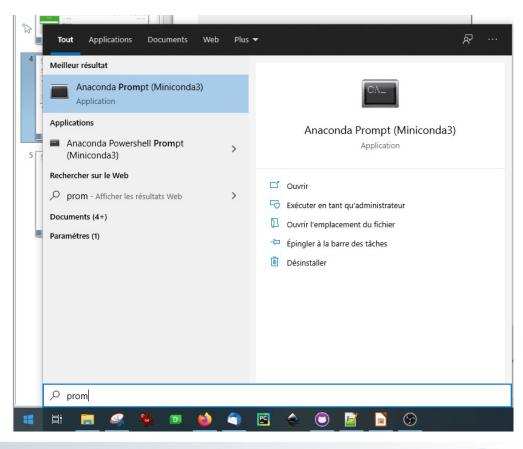


Installation using Miniconda

1) Installing Miniconda (on root folder for ease)



2) Starting the Command Prompt







Creating and using environment

In the anaconda prompt

Create a new environment

(base) C:\Users\weber>conda create -n femtoup python=3.8.5

• Activate it _____ (base) C:\Users\weber>conda activate femtoup (femtoup) C:\Users\weber>

Install packages

One should install:

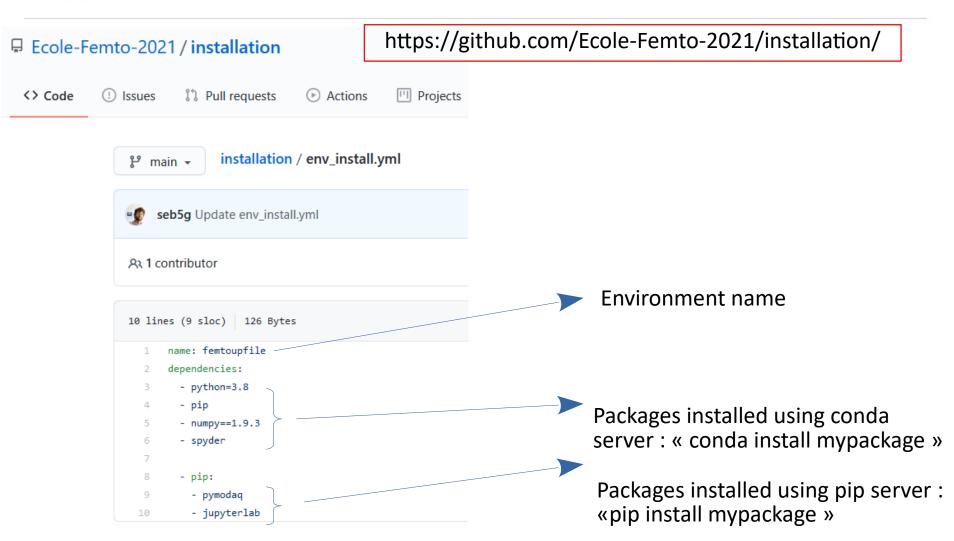
- Spyder (using conda)
- Jupyterlab (using pip)
- Pymodaq (using pip)

```
(femtoup) C:\Users\weber>conda install spyder
```

(femtoup) C:\Users\weber>pip install jupyterlab



Environment file



(base) C:\Users\weber>conda env create -f env_install.yml





Updating the Environment

If for some reason, the environment file is modified, you'll need to download it again and update the environment using :

(femtoupfile) C:\Users>conda env update --prefix ./env --file env_install.yml --prune





Now is your turn!



