FemtoUP 2021
Install Party
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12 Octobre 2020

Setting up a python environment

py35env

- Environment related to python 3.5
- For a specific use

On your computer :

py27env

Environment related to python
2.7 old packages

py38env

- Environment related to python 3.9
- For latest features testing

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…)

Solution : using an environment manager

Using conda as environment manager

py38env

- Environment related to python 3.9
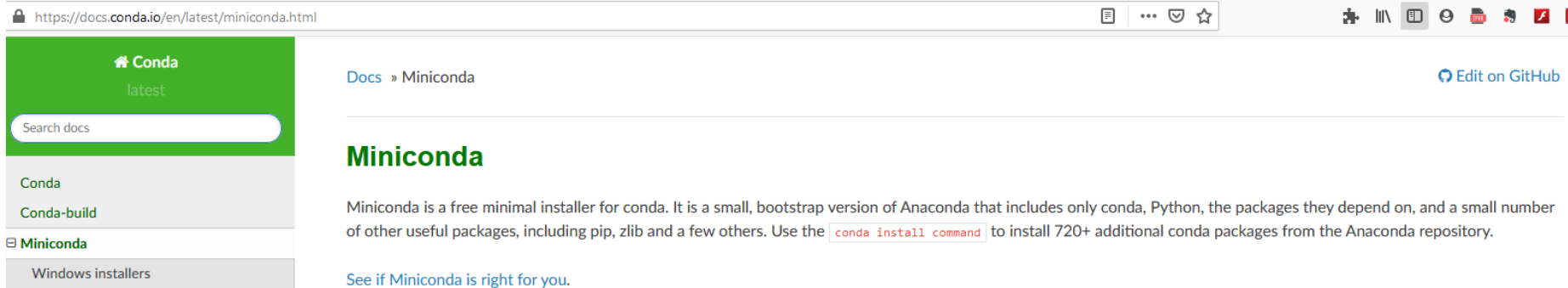- For latest features testing
- Package1
- Package2
- …

Managing environment (conda or venv):
- One python version
- Given packages

Managing packages (conda or pip):
- Specific packages on given servers
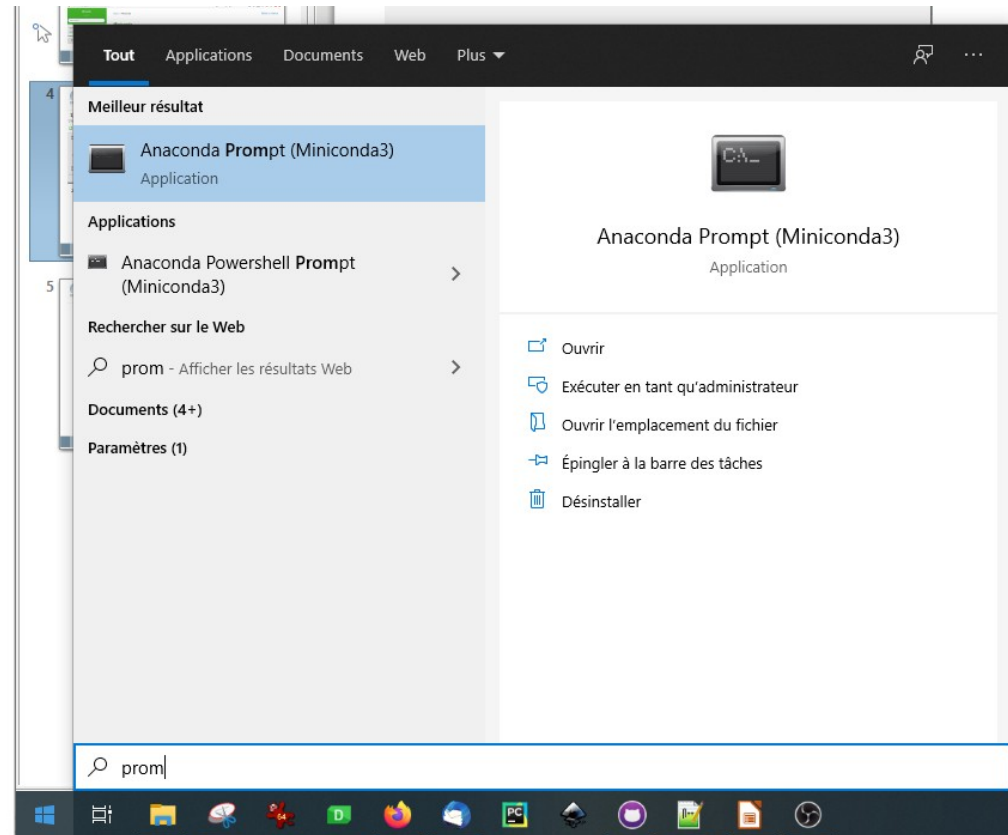- Conda server   using conda
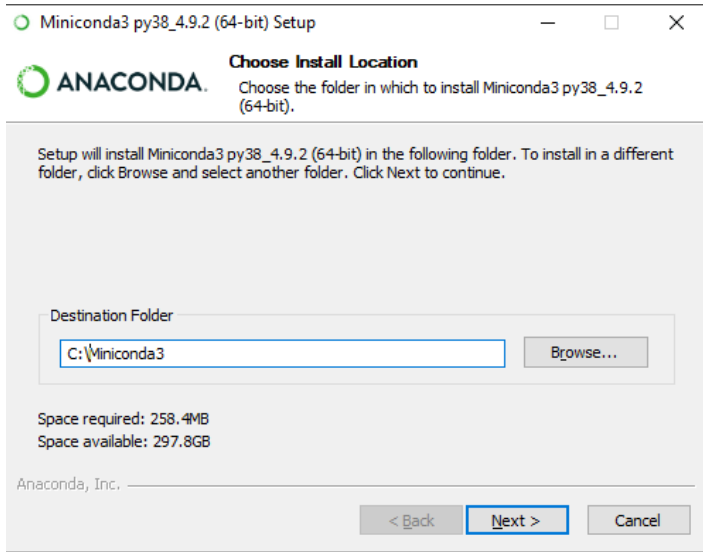- PyPi server   using pip

Lightweight conda : Miniconda

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

CEMES

Ecole-Femto-2021 / **installation**

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⌥ main ▾   installation / env_install.yml

👤 **seb5g** Update env_install.yml

👥 1 contributor

```
10 lines (9 sloc)   126 Bytes
1   name: femtoupfile
2   dependencies:
3     - python=3.8
4     - pip
5     - numpy==1.9.3
6     - spyder
7
8     - pip:
9       - pymodaq
10      - jupyterlab
```

Environment name

Packages installed using conda server : « conda install mypackage »

Packages installed using pip server : «pip install mypackage »

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

cnrs

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!