Installing Python with ANACONDA

Installing ANACONDA

1. Download the suitable distribution of Anaconda for your machine.

   a. For LINUX

```
$ wget https://repo.continuum.io/archive/Anaconda3-4.2.0-Linux-x86_64.sh
$ bash Anaconda3-4.2.0-Linux-x86_64.sh
```

   b. For MAC OS use the graphic installer and follow the instructions to install it.
   https://www.continuum.io/downloads#osx

   c. For WINDOWS, use the graphical installer available in

   https://www.anaconda.com/download/#windows

   There is an option to install in silent mode from the command line. Please follow the instructions in https://conda.io/docs/user-guide/install/windows.html to get your installation ready.

   It is recommended to install Anaconda just for your user account, not globally. Also, it is advisable to select the option to add the Anaconda directory to the Windows environment variable `PATH` during the installation.

2. In LINUX and MacOS, reinitialize the terminal to update the changes in the .bashrc (.bash_profile) (including Anaconda path).

3. In the new terminal (or a command line window `CMD` for WINDOWS) you can confirm you have anaconda installed by typing

```
$ conda info
```

Creating an environment from scratch

1. Now we can create an environment specifically designated for the workshop (including all the dependencies and required packages):

```
$ conda create --name cinvespyenv python=3.6 numpy scipy matplotlib h5py i
```

```
python jupyter cython pandas seaborn
```

2. Activate the new environment by typing in the terminal

```
$ source activate cinvespyenv
```

   The Windows syntax to activate the environment is slightly different:

```
$ activate cinvespyenv
```

3. Now you can open a Jupyter notebook from the terminal with the following instruction

```
(cinvespyenv) $ jupyter notebook
```

Creating an environment from a file

If you have a *.yml file with the listed requirements you can create the corresponding environment with the following instruction (after having Anaconda properly installed)

```
$ conda env create -f name-of-the-enviroment.yml
```

for instance, you can use the **cinvespydev.yml** file included in this GitHub repository and install all the dependencies typing:

```
$conda env create -f cinvespyenv.yml
```

More info on managing environments here.

- You can always install an extra library to your environment very easily. Say you need **astropy** (which is not included in *cinvespydev*).

```
$ source activate cinvespydev
(cinvespydev) $ conda install astropy
```