Steps to install python on your laptop



- 1. Check whether python is already installed
 - type \$ python in a command line window -> command not found message means it is likely not installed
- 2.Collect information about your operating system:
 - Windows, Mac OS, Linux ?
 - 32 bit vs. 64 bit operating system
- 3.Download the corresponding Installer for Python 3.9 from Anaconda (for Windows and Mac):
 - https://www.anaconda.com/distribution/
 - chose the Graphical Installer
- 4.Launch the Installer on your laptop
 - Important installation options: (there options are only available in windows not for mac) check installation for this user only: "Install for just me (recommended)"
 - check "add Anaconda to my PATH environment variable" (important)
 - check "Register Anaconda as my default Python 3.x"

Complete installation with required packages



1.Launch Anaconda Navigator

- go to the environments tab : you can see all installed python packages in the 'base' environment there
- verify that all required packages are installed (ipython, numpy, scipy, jupyter-notebook, matplotlib, pandas, scikit-learn, xlrd)
- install **biopython** (and any other package above which is not already installed) as it is not part of the default installation; you can either do this in the

Anaconda Navigator or in the command line

- -> Anaconda Navigator : go to 'base' environment and chose 'Not installed' packages, search for *biopython* and install
- -> Command line: launch the 'Anaconda prompt' and execute \$ conda install -c anaconda biopython (don't worry about warnings and intermittent error messages, unless the code finishes with an error message)
- 2. Add Brian2 by typing the following command in the 'Anaconda prompt':
 - \$ conda install -c conda-forge brian2

Test python on your laptop



- 1.Execute \$ ipython in the 'Anaconda prompt' or the 'Terminal' (on mac)
 - try to import the packages required for the course In[1]: import numpy, scipy,matplotlib, pandas, Bio, sklearn, brian2, xlrd (the import should end without error message)
- 2.Execute \$ jupyter-notebook in the 'Anaconda prompt' or the 'Terminal' (on mac)
 - the jupyter server should start and a window should open in your browser
 - you can select and launch the course tutorial or homework assignment (which have to be files with the [name_of_file].ipynb ending) here
- 3.Chose 'New' -> 'Python 3' to start a new notebook
 - try again if all the above packages can be loaded with In[1]: import numpy, scipy, matplotlib, pandas, Bio, sklearn, brian2, xlrd