

# Downloading Anaconda

The first step is to download Anaconda package that includes a lot of libraries interesting for engineers and scientists. In addition, it comes with several programming environment such as Spyder or Jupyter. To download this package, go to its [website](#) and select the version fitting your operating system. **Don't download nor install older version!**



# Creating the python environment

As soon as the package is installed, find and run the “Anaconda prompt” to open the conda terminal. Notice that this will open on the base Anaconda environment.

A screenshot of the Anaconda Prompt terminal window. The title bar reads "Anaconda Prompt (Anaconda3)". The terminal content shows the prompt "(base) C:\Users\alain>\_" on a black background with white text. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

The next step is to create a dedicated environment for ANN to avoid any conflict with the current installation of your python environment (called (base)).

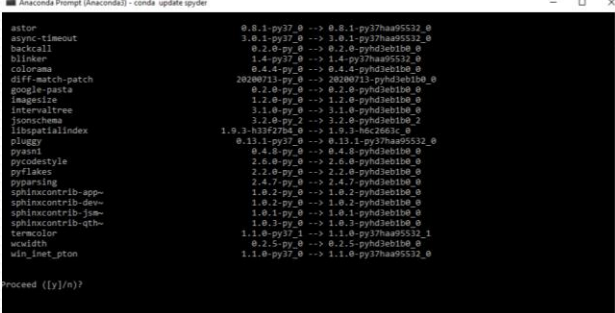
To create an environment and to activate it, please type these two programming commands:

- ✓ `conda create -n ann_env`, where *ann\_env* is the name of the environment you want to create.
- ✓ `activate ann_env`, where *ann\_env* is the name of the environment you want to activate.

# Installation packages

At this step, update anaconda environment :

- ✓ `conda update -n base -c defaults conda`



```
Anaconda Prompt (Anaconda3) - conda update spyder
astor 0.8.1-py37_0 --> 0.8.1-py37ha95532_0
async-timeout 3.0.1-py37_0 --> 3.0.1-py37ha95532_0
backcall 0.2.0-py_0 --> 0.2.0-pyhd3eb1b0_0
blinker 1.4-py37_0 --> 1.4-py37ha95532_0
colorama 0.4.4-py_0 --> 0.4.4-pyhd3eb1b0_0
diff-match-patch 20200713-py_0 --> 20200713-pyhd3eb1b0_0
google-pasta 0.2.0-py_0 --> 0.2.0-pyhd3eb1b0_0
imagesize 1.2.0-py_0 --> 1.2.0-pyhd3eb1b0_0
intervaltree 3.1.0-py_0 --> 3.1.0-pyhd3eb1b0_0
jsonschema 3.2.0-py_2 --> 3.2.0-pyhd3eb1b0_2
llspatialindex 1.9.3-h39f278c_0 --> 1.9.3-h6c2603c_0
pluggy 0.13.1-py37_0 --> 0.13.1-py37ha95532_0
pyasn1 0.4.8-py_0 --> 0.4.8-pyhd3eb1b0_0
pycodestyle 2.6.0-py_0 --> 2.6.0-pyhd3eb1b0_0
pyflakes 2.2.0-py_0 --> 2.2.0-pyhd3eb1b0_0
pyparning 2.4.7-py_0 --> 2.4.7-pyhd3eb1b0_0
sphinxcontrib-app 1.0.2-py_0 --> 1.0.2-pyhd3eb1b0_0
sphinxcontrib-dev 1.0.2-py_0 --> 1.0.2-pyhd3eb1b0_0
sphinxcontrib-jsm 1.0.1-py_0 --> 1.0.1-pyhd3eb1b0_0
sphinxcontrib-qth 1.0.2-py_0 --> 1.0.2-pyhd3eb1b0_0
termcolor 1.1.0-py37_1 --> 1.1.0-py37ha95532_1
wcwidth 0.2.5-py_0 --> 0.2.5-pyhd3eb1b0_0
win_inetpton 1.1.0-py37_0 --> 1.1.0-py37ha95532_0

Proceed ([y]/n)?
```

When the correct environment is selected (this is the one in parenthesis in the beginning of the prompt of the terminal), you can start installing the relevant packages by typing all these programming instructions one by one and by confirming the installation of the packages needed by pressing the “y” key:

- ✓ `conda install python`
- ✓ `conda install tensorflow`
- ✓ `conda install pydot`
- ✓ `conda install matplotlib`
- ✓ `conda install scikit-learn`
- ✓ `conda install -c conda-forge shap`
- ✓ `conda install spyder=5.05` (or Jupyter regarding your preferred programming editor)