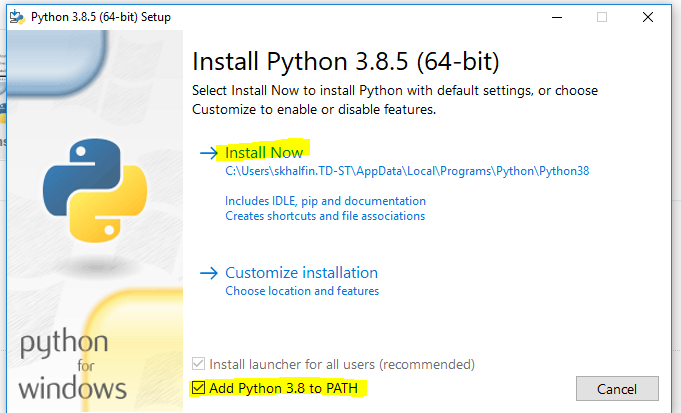
Step 1

Download python 3: <https://www.python.org/downloads/release/python-385/>

You need the [Windows x86-64 executable installer](https://www.python.org/ftp/python/3.8.5/python-3.8.5-amd64.exe).

In install check the "Add Python 3.8 to Path"

Select "Install Now" and wait till it finished.



Step 2

Inside the unzipped folder:



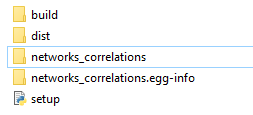
Step 3

Run windows Command Prompt (cmd).

Step 4

Run setup.py install inside the Command Prompt window.

You will see the following folders:



Step 5

Now we will run the code inside the networks\_correlations folder (cd networks\_correlations):

The simplest variation will create:

1. .png file with common correlation matrix.
2. Excel file with correlation matrix
3. Excel file with all between and within correlations

You will also see in the output folder:

subjects\_data.pkl = Mostly for inner use. dictionary. Each subject contains correlation matrix, covariance matrix and time series.

error\_file\_postProcessing.txt = some of the errors will be written here

The command:

create\_cor\_from\_nifty.py --preproc\_folder **FOLDER WITH NIFTY FILES** --atlas\_coords **MNI\_Power.txt** --out\_folder **YOUR OUTPUT FOLDER**

Variables explanation

create\_cor\_from\_nifty.py = the script name

**--preproc\_folder** = Insert the folder with your preprocessed nifty files that you want to create the correlation matrix for

**--atlas\_coords** = Insert a text file with your atlas coordinates. The MNI\_Power.txt is included for Power atlas. (Attention: other atlases not tested!!!)

**--out\_folder** = Insert the path to the output folder.

Another variables:

**--not\_create\_subjects** = you can add this flag if you do want to skip the subjects\_data.pkl file creation because it takes a lot of time. Note: The program will search for this file inside the output folder.

**--networks** = add this flag if you want correlation matrix for some networks and brain plot with connections in these networks. You can find the networks available in the networkToIndexDic.py file.

**--min\_r** = for the brain plot use. Default is 0.7. Plot only connection with R value greater then min\_r.

Example:

create\_cor\_from\_nifty.py --preproc\_folder **FOLDER WITH NIFTY FILES** --atlas\_coords **MNI\_Power.txt** --out\_folder **YOUR OUTPUT FOLDER** --not\_create\_subjects --networks **CO Visual** --min\_r **0.9**