

**UNIVERSIDAD PERUANA CAYETANO
HEREDIA**
INGENIERÍA BIOMÉDICA



UNIVERSIDAD PERUANA
CAYETANO HEREDIA

**INTRODUCCIÓN A
SEÑALES BIOMÉDICAS**
30/08/2024

Actividad 2 - Instalar MNE

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2024 -2

Instalación de MNE con Anaconda

Installing MNE-Python with all dependencies

If you use Anaconda, we suggest installing MNE-Python into its own `conda` environment.

First, please ensure you're using a recent version of `conda`. Run in your terminal:

```
$ conda update --name=base conda # update conda
$ conda --version
```

The installed `conda` version should be `23.10.0` or newer.

```
Anaconda Prompt

(base) C:\Users\User>conda update --name=base conda # update conda

CondaValueError: invalid package specification: #

(base) C:\Users\User>conda --version
conda 24.5.0
```

Now, you can install MNE-Python:

```
$ conda create --channel=conda-forge --strict-channel-priority --name=mne mne
```

This will create a new `conda` environment called `mne` (you can adjust this by passing a different name via `--name`) and install all dependencies into it.

```
Anaconda Prompt - conda create --channel=conda-forge --strict-channel-priority --name=mne mne

(base) C:\Users\User>conda create --channel=conda-forge --strict-channel-priority --name=mne mne
Channels:
 - conda-forge
 - defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: C:\Users\User\anaconda3\envs\mne

added / updated specs:
 - mne

The following packages will be downloaded:

package                                     build                                size  channel
-----
_libavif_api-1.1.1                         h57928b3_1                          9 KB  conda-forge
aiohappyeyeballs-2.4.0                     pyhd8ed1ab_0                        17 KB  conda-forge
aiohttp-3.10.5                             py312h4389bb4_0                    766 KB  conda-forge
aiosignal-1.3.1                             pyhd8ed1ab_0                       12 KB  conda-forge
anyio-4.4.0                                pyhd8ed1ab_0                      102 KB  conda-forge
aom-3.9.1                                   he0c23c2_0                         1.9 MB  conda-forge
argon2-cffi-23.1.0                         pyhd8ed1ab_0                       18 KB  conda-forge
argon2-cffi-bindings-21.2.0                py312he70551f_4                    34 KB  conda-forge
arrow-1.3.0                                 pyhd8ed1ab_0                       98 KB  conda-forge
```

```
Anaconda Prompt - conda create --channel=conda-forge --strict-channel-priority --name=mne mne

The following packages will be downloaded:
```

package	build		
-----	-----		
_libavif_api-1.1.1	h57928b3_1	9 KB	conda-forge
aiohappyeyeballs-2.4.0	pyhd8ed1ab_0	17 KB	conda-forge
aiohttp-3.10.5	py312h4389bb4_0	766 KB	conda-forge
aiosignal-1.3.1	pyhd8ed1ab_0	12 KB	conda-forge
anyio-4.4.0	pyhd8ed1ab_0	102 KB	conda-forge
aom-3.9.1	he0c23c2_0	1.9 MB	conda-forge
argon2-cffi-23.1.0	pyhd8ed1ab_0	18 KB	conda-forge
argon2-cffi-bindings-21.2.0	py312he70551f_4	34 KB	conda-forge
arrow-1.3.0	pyhd8ed1ab_0	98 KB	conda-forge
asttokens-2.4.1	pyhd8ed1ab_0	28 KB	conda-forge
async-lru-2.0.4	pyhd8ed1ab_0	15 KB	conda-forge
attrs-24.2.0	pyh71513ae_0	55 KB	conda-forge
babel-2.14.0	pyhd8ed1ab_0	7.3 MB	conda-forge
beautifulsoup4-4.12.3	pyha770c72_0	115 KB	conda-forge
bleach-6.1.0	pyhd8ed1ab_0	128 KB	conda-forge
blosc-1.21.6	h85f69ea_0	49 KB	conda-forge
brotli-1.1.0	hcfcfb64_1	19 KB	conda-forge
brotli-bin-1.1.0	hcfcfb64_1	20 KB	conda-forge
brotli-python-1.1.0	py312h53d5487_1	315 KB	conda-forge
bzip2-1.0.8	h2466b09_7	54 KB	conda-forge
c-blosc2-2.15.1	hb461149_0	210 KB	conda-forge
ca-certificates-2024.8.30	h56e8100_0	155 KB	conda-forge
cached-property-1.5.2	hd8ed1ab_1	4 KB	conda-forge
cached_property-1.5.2	pyha770c72_1	11 KB	conda-forge

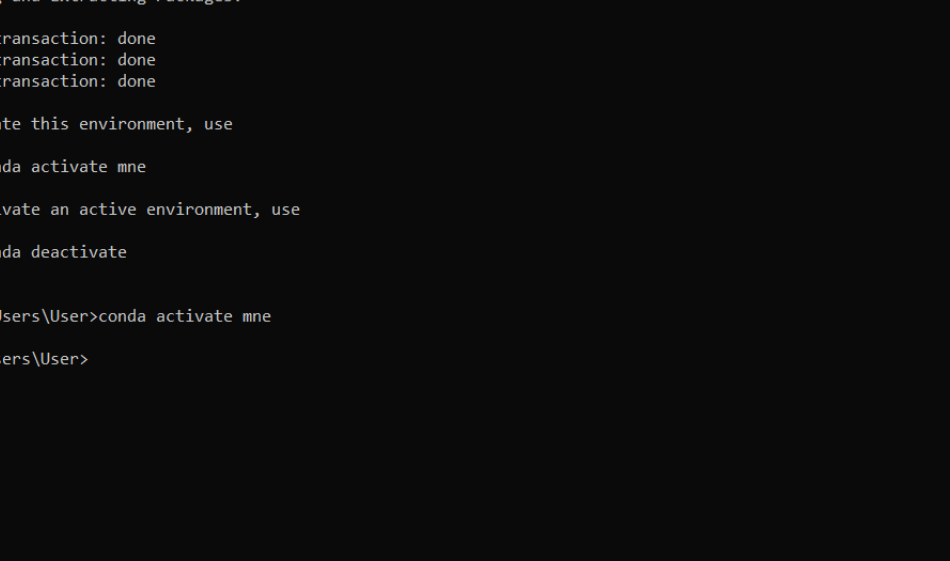
```
Anaconda Prompt

Downloading and Extracting Packages:

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#     $ conda activate mne
#
# To deactivate an active environment, use
#
#     $ conda deactivate

(base) C:\Users\User>
```

you can install individual packages as needed.



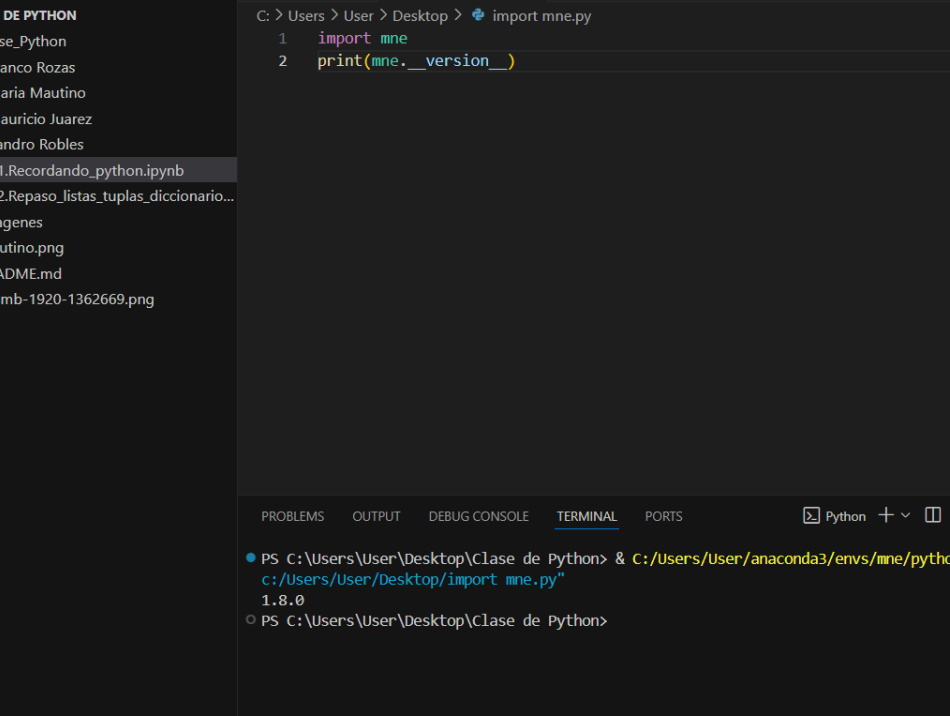
```
Anaconda Prompt
Downloading and Extracting Packages:

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#     $ conda activate mne
#
# To deactivate an active environment, use
#
#     $ conda deactivate

(base) C:\Users\User>conda activate mne

(mne) C:\Users\User>
```

Finalmente, utilizamos visual studio code:



The screenshot displays a Jupyter Notebook environment. The left sidebar shows the Explorer view with a file tree containing a folder named 'CLASE DE PYTHON' and several files, including '1.Recordando_python.ipynb'. The main area shows the code editor with the following Python code:

```
C:\Users\User\Desktop> import mne.py
1 import mne
2 print(mne.__version__)
```

The bottom panel shows the Terminal view with the following output:

```
PS C:\Users\User\Desktop\Clase de Python> & C:/Users/User/anaconda3/envs/mne/python.exe "
c:/Users/User/Desktop/import_mne.py"
1.8.0
PS C:\Users\User\Desktop\Clase de Python>
```

The status bar at the bottom indicates the current file is 'main', the encoding is 'UTF-8', and the Python environment is 'Python 3.12.5 (mne: conda)'.