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Creating mne conda environment

To create the same mne environment that we are using on COGNESTIC-25 Virtual Machines, follow these steps below.

Note: Because of different system settings and requirements, we do not guarantee it will work for you exactly in these steps.

STEP 0: Prerequisites

- **WINDOWS users**

- **Install WSL** following instructions in the [fMRI_analysis_on_Windows.pdf](#) Steps **1 to 2.1.3**
- Start your WSL terminal and **install Miniconda** - Step 2.5.1 in [fMRI_analysis_on_Windows.pdf](#)
- Once inside WSL, follow the Linux instructions below.

- **LINUX users**

- If you haven't done so already, **install Miniconda** (or less preferably Anaconda) on your system
- Follow the steps below.

- **MAC users**

- nothing, a standalone MNE-Python will be installed

STEP 1: Download the MNE installer

- **WINDOWS (via WSL) and LINUX users**

In the terminal, navigate to the directory where you want to save the installer and execute this command:

```
curl -L -o mne_installer.sh https://github.com/mne-tools/mne-installers/releases/download/v1.9.0/MNE-Python-1.9.0_0-Linux.sh
```

- **MAC (intel) users**

Navigate to the directory where you want to save the installer and execute this command:

```
curl -L -o MNE-Python-1.9.0_0-macOS_Intel.pkg https://github.com/mne-tools/mne-installers/releases/download/v1.9.0/MNE-Python-1.9.0_0-macOS_Intel.pkg
```

- **MAC (Apple Silicon) users**

Navigate to the directory where you want to save the installer and execute this command:

```
curl -L -o MNE-Python-1.9.0_0-macOS_M1.pkg https://github.com/mne-tools/mne-installers/releases/download/v1.9.0/MNE-Python-1.9.0_0-macOS_M1.pkg
```

STEP 2: Install MNE

WINDOWS (via WSL) and LINUX users

- Deactivate any active conda environments: `conda deactivate`
- Check the location of your conda environments: `conda info`
Look for line **envs directories** : `/home/username/miniconda3/envs`.
That path is the parent folder where conda keeps your environments.
- In the terminal execute (replacing the `/home/username/miniconda3/envs` with the path to your environments):

```
sh ./mne_installer.sh -b -p /home/username/miniconda3/envs/mne
```

Note: the `-p` option requires the full path where you want the environment installed, not just the environment name. That's why we use `/home/username/miniconda3/envs/mne` rather than just `mne`.

MAC users

Run the downloaded `.pkg` file.

This will install a new application 'MNE-Python', which has a self-contained conda and mne-environment. You can find it either in your Applications or using spotlight to search. This application has its own terminal '**Prompt (MNE)**'. **Use that to install additional packages and start Jupyter Lab.**

STEP 3: Install additional packages

WINDOWS (via WSL) and LINUX users

- Activate the new mne environment: `conda activate mne`
- Run these commands:
 - `pip install levenshtein`
 - `pip install rsatoolbox==0.1.5`
 - `pip install mtrf`
 - `python -m ipykernel install --user --name mne --display-name "Python (mne)"`

MAC users

- Open your '**Prompt (MNE)**'
- Run these commands:
 - `pip install levenshtein`
 - `pip install rsatoolbox==0.1.5`
 - `pip install mtrf`
 - `python -m ipykernel install --user --name mne --display-name "Python (mne)"`

STEP 4: Verify the installation

Run: `python -c "import mne; mne.sys_info()"`

If everything is set up correctly, this will print system and package information for your **mne** environment.

Now you should have the same **mne** environment we are using on the VMs.