

## NeuroBRITE installation instructions for Mac

**\*\*\* NOTE \*\*\*:** If Amanda has installed the Mac software for you, run the commands below, then skip to Step 3




- run the following in your terminal:

```
cd ~/eeg-notebooks  
git pull origin master
```

### STEP 1: download the Miniconda installer for Mac

- Click the Python 3.6 file link on this website: <https://conda.io/miniconda.html>

## Miniconda

	 Windows	 MacOS	 Linux
Python 3.6	<a href="#">64-bit (exe installer)</a> <a href="#">32-bit (exe installer)</a>	<a href="#">64-bit (bash installer)</a>	<a href="#">64-bit (bash installer)</a> <a href="#">32-bit (bash installer)</a>
Python 2.7	<a href="#">64-bit (exe installer)</a> <a href="#">32-bit (exe installer)</a>	<a href="#">64-bit (bash installer)</a>	<a href="#">64-bit (bash installer)</a> <a href="#">32-bit (bash installer)</a>

- Press “command” and “spacebar” at the same time → type “Terminal” into the search bar → press the Terminal icon to open a new Terminal
- Enter the following commands in the Terminal:

```
cd ~/Downloads/  
sh ./Miniconda3-latest-MacOSX-x86_64.sh
```
- You will be asked to type “yes” in the Terminal a couple times

### STEP 2: install required packages

- Run the following commands in the Terminal:
 

```
mv ~/eeg-notebooks ~/old-eeg-notebooks (if old version installed)
source ~/.bash_profile
cd ~
conda create -n nbmac python=3
source activate nbmac
conda install python=3.6
conda install git
git clone https://www.github.com/amandakeasson/eeg-notebooks
cd ~/eeg-notebooks
pip install -r requirements.txt
```
- For the “conda create” command, you will be asked to type “y” to confirm that yes, you wish to install the required packages
- The above packages may take ~5-10 minutes to install
- Ignore the warning that muselsl is not compatible with pygatt version 3.2.0
- Run the following commands in the Terminal:
 

```
mkdir ~/.jupyter/
jupyter notebook password
```
- You will then be asked to enter a password. Note that the password will not show up in the Terminal! After pressing <enter>, you will be asked to confirm your password
- Run the following commands in the Terminal:
 

```
python
import matplotlib
exit()
echo "backend: TkAgg" > ~/.matplotlib/matplotlibrc
```

### STEP 3: Working with eeg-notebooks


- Turn on your MUSE device
- Connect the Bluetooth dongle to the USB port of your Mac
- Run the following commands in the Terminal (in the nbmac environment)
 

```
source activate nbmac
cd ~/eeg-notebooks/notebooks
jupyter notebook
```
- Open **mac\_notebook.ipynb** in the browser
- The rest of the instructions for running experiments and analyzing data are in the mac\_notebook.ipynb notebook
- Please contact us on Slack if you have any questions! :)

### STEP 4: Shutting down eeg-notebooks

- Close the tab for the experiment notebook (e.g. mac\_n170.ipynb) in your browser

- In the jupyter notebook “Home” tab:
  - Click the checkbox beside the notebook(s) that is/are running (they will be green)
  - Click the orange “Shutdown” button that will appear after you click the checkbox
- In your terminal, press Ctrl + C, then press “y” and Enter when prompted to finish shutting down the jupyter notebook kernel


jupyter
Quit
Logout

Files
Running
Clusters

Duplicate
Shutdown
View
Edit

Upload
New

		Name	Last Modified	File size
<input type="checkbox"/>	stimulus_presentation		a month ago	
<input type="checkbox"/>	utils		a month ago	
<input checked="" type="checkbox"/>	mac_N170.ipynb	Running	a month ago	260 kB
<input type="checkbox"/>	N170.ipynb		a month ago	260 kB
<input type="checkbox"/>	P300.ipynb		a month ago	281 kB
<input type="checkbox"/>	Raw_EEG.ipynb		a month ago	1.42 kB
<input type="checkbox"/>	SSVEP.ipynb		a month ago	11.4 kB
<input type="checkbox"/>	__init__.py		a month ago	0 B
<input type="checkbox"/>	mac_n170.py		9 days ago	1.7 kB
<input type="checkbox"/>	run_experiment.py		a month ago	1.89 kB
<input type="checkbox"/>	test1.csv		a month ago	1.89 MB

```
(neurobrite_test2) ae: ~/code0ther/eeg-notebooks/notebooks $ jupyter notebook
[I 15:50:13.592 NotebookApp] Serving notebooks from local directory: /Users/amandae/code0ther/eeg-notebooks/notebooks
[I 15:50:13.593 NotebookApp] 0 active kernels
[I 15:50:13.593 NotebookApp] The Jupyter Notebook is running at:
[I 15:50:13.593 NotebookApp] http://localhost:8888/?token=6274037aa2845b5d5f34d5c5cb5c117c8353b5242cdba7fd
[I 15:50:13.593 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 15:50:13.645 NotebookApp]

Copy/paste this URL into your browser when you connect for the first time,
to login with a token:
    http://localhost:8888/?token=6274037aa2845b5d5f34d5c5cb5c117c8353b5242cdba7fd&token=6274037aa2845b5d5f34d5c5cb5c117c8353b5242cdba7fd
[I 15:50:17.356 NotebookApp] Accepting one-time-token-authenticated connection from ::1
[W 15:50:32.422 NotebookApp] Notebook mac_N170.ipynb is not trusted
[I 15:50:35.094 NotebookApp] Kernel started: cd633cec-206d-479e-b6a8-a8812c22452f
[W 15:50:45.598 NotebookApp] Timeout waiting for kernel_info reply from cd633cec-206d-479e-b6a8-a8812c22452f
[I 15:50:49.221 NotebookApp] Adapting to protocol v5.1 for kernel cd633cec-206d-479e-b6a8-a8812c22452f
[I 15:53:02.251 NotebookApp] Starting buffering for cd633cec-206d-479e-b6a8-a8812c22452f:e949634b178d457a83d8209c68505953
[I 15:55:11.334 NotebookApp] Kernel shutdown: cd633cec-206d-479e-b6a8-a8812c22452f

^C[I 15:56:32.650 NotebookApp] interrupted
Serving notebooks from local directory: /Users/amandae/code0ther/eeg-notebooks/notebooks
0 active kernels
The Jupyter Notebook is running at:
http://localhost:8888/?token=6274037aa2845b5d5f34d5c5cb5c117c8353b5242cdba7fd
Shutdown this notebook server (y/[n])? y
[C 15:56:34.298 NotebookApp] Shutdown confirmed
[I 15:56:34.365 NotebookApp] Shutting down 0 kernels
(neurobrite_test2) ae: ~/code0ther/eeg-notebooks/notebooks $
```