

## Step by step guide

1. Install Anaconda or Miniconda

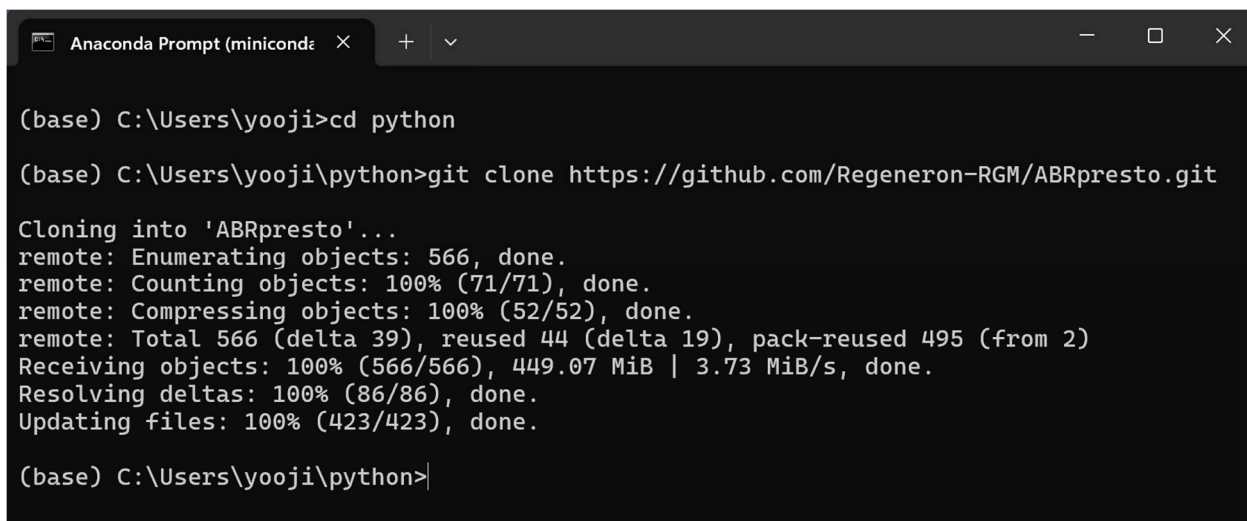
<https://docs.anaconda.com/anaconda/install/>

2. Start anaconda prompt



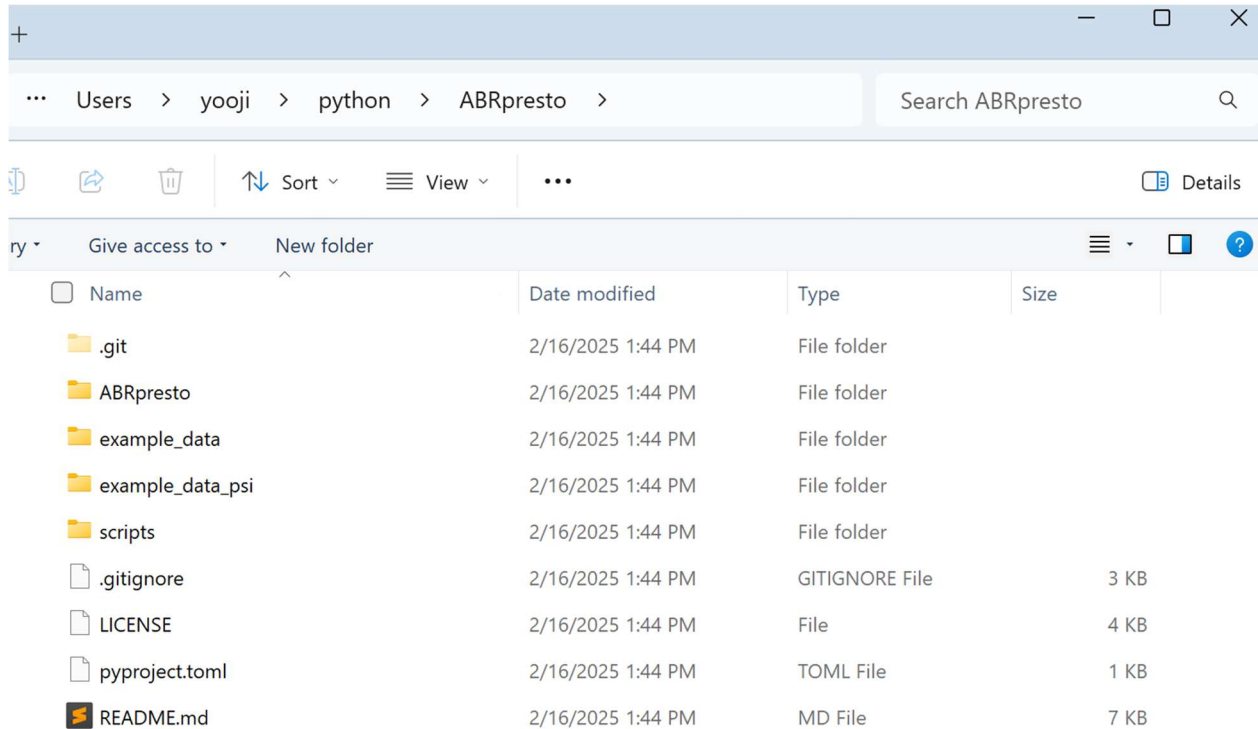
```
Anaconda Prompt (miniconda) x + v - □ x
(base) C:\Users\yooji>
```

3. Make & navigate to the folder you want to download ABR presto then, clone the repository as follows:



```
Anaconda Prompt (miniconda) x + v - □ x
(base) C:\Users\yooji>cd python
(base) C:\Users\yooji\python>git clone https://github.com/Regeneron-RGM/ABRpresto.git
Cloning into 'ABRpresto'...
remote: Enumerating objects: 566, done.
remote: Counting objects: 100% (71/71), done.
remote: Compressing objects: 100% (52/52), done.
remote: Total 566 (delta 39), reused 44 (delta 19), pack-reused 495 (from 2)
Receiving objects: 100% (566/566), 449.07 MiB | 3.73 MiB/s, done.
Resolving deltas: 100% (86/86), done.
Updating files: 100% (423/423), done.
(base) C:\Users\yooji\python>
```

4. This will make a local copy of ABRpresto repository:



5. Navigate to the folder containing ABRpresto (in this case Users>yooji>python) and install ABRpresto using pip install:

```
C:\WINDOWS\system32\cmd. X + v
(base) C:\Users\yooji\python>python -m pip install -e ./ABRpresto
Obtaining file:///C:/Users/yooji/python/ABRpresto
Installing build dependencies ... done
Checking if build backend supports build_editable ... done
Getting requirements to build editable ... done
Preparing editable metadata (pyproject.toml) ... done
Requirement already satisfied: numpy>=1.16.4 in c:\users\yooji\anaconda3\lib\site-packages (from ABRpresto==1.0.1) (1.26.4)
Requirement already satisfied: scipy>=1.2.1 in c:\users\yooji\anaconda3\lib\site-packages (from ABRpresto==1.0.1) (1.13.1)
Requirement already satisfied: pandas>=0.24.2 in c:\users\yooji\anaconda3\lib\site-packages (from ABRpresto==1.0.1) (2.2.3)
Requirement already satisfied: matplotlib>=3.0.0 in c:\users\yooji\anaconda3\lib\site-packages (from ABRpresto==1.0.1) (3.9.2)
Collecting setuptools_scm (from ABRpresto==1.0.1)
Using cached setuptools_scm-8.1.0-py3-none-any.whl.metadata (6.6 kB)
Collecting cftsdata (from ABRpresto==1.0.1)
Downloading cftsdata-0.1.7-py3-none-any.whl.metadata (2.4 kB)
Requirement already satisfied: contourpy>=1.0.1 in c:\users\yooji\anaconda3\lib\site-packages (from matplotlib>=3.0.0->ABRpresto==1.0.1) (1.2.0)
Requirement already satisfied: cycler>=0.10 in c:\users\yooji\anaconda3\lib\site-packages (from matplotlib>=3.0.0->ABRpresto==1.0.1) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\yooji\anaconda3\lib\site-packages (from matplotlib>=3.0.0->ABRpresto==1.0.1) (4.51.0)
Requirement already satisfied: kiwisolver>=1.3.1 in c:\users\yooji\anaconda3\lib\site-packages (from matplotlib>=3.0.0->ABRpresto==1.0.1) (1.4.4)
Requirement already satisfied: packaging>=20.0 in c:\users\yooji\anaconda3\lib\site-packages (from matplotlib>=3.0.0->ABRpresto==1.0.1) (24.1)
Requirement already satisfied: pillow>=8 in c:\users\yooji\anaconda3\lib\site-packages (from matplotlib>=3.0.0->ABRpresto==1.0.1) (10.4.0)
```

## 6. Running ABRpresto example code on Anaconda prompt:

```
python xxx.py
```

```
C:\WINDOWS\system32\cmd. x + v
(base) C:\Users\yooji\python\ABRpresto\scripts>python Fit_all_examples.py
Loading experiments from C:\Users\yooji\python\ABRpresto\example_data_psi\Example_1 abr_io
skipping 4000 Hz
skipping 5656 Hz
8000 Hz already fit with ABRpresto
skipping 11313 Hz
skipping 16000 Hz
skipping 22627 Hz
skipping 32000 Hz
skipping 45254 Hz
Loading experiments from C:\Users\yooji\python\ABRpresto\example_data\Example_1.csv
processing
threshold is 38.4, fit with: sigmoid
exported fit results to C:\Users\yooji\python\ABRpresto\example_data\Example_1_ABRpresto_fit.
json
Loading experiments from C:\Users\yooji\python\ABRpresto\example_data_psi\Example_2 abr_io
skipping 4000 Hz
skipping 5656 Hz
skipping 8000 Hz
skipping 11313 Hz
skipping 16000 Hz
skipping 22627 Hz
32000 Hz already fit with ABRpresto
skipping 45254 Hz
Loading experiments from C:\Users\yooji\python\ABRpresto\example_data\Example_2.csv
processing
threshold is 25.2, fit with: sigmoid
exported fit results to C:\Users\yooji\python\ABRpresto\example_data\Example_2_ABRpresto_fit.
json
```

## 7. Running ABRpresto example code in ipython shell:

```
run xxx.py
```

```
IPython: C:\ABRpresto\scripts x + v
(base) C:\Users\yooji\python\ABRpresto\scripts>ipython
Python 3.12.7 | packaged by Anaconda, Inc. | (main, Oct 4 2024, 13:17:27) [MSC v.1929 64 bit (AMD64)]
Type 'copyright', 'credits' or 'license' for more information
IPython 8.27.0 -- An enhanced Interactive Python. Type '?' for help.

In [1]: run Fit_all_examples.py
Loading experiments from C:\Users\yooji\python\ABRpresto\example_data_psi\Example_1 abr_io
skipping 4000 Hz
skipping 5656 Hz
8000 Hz already fit with ABRpresto
skipping 11313 Hz
skipping 16000 Hz
skipping 22627 Hz
skipping 32000 Hz
skipping 45254 Hz
Loading experiments from C:\Users\yooji\python\ABRpresto\example_data\Example_1.csv
processing
threshold is 38.4, fit with: sigmoid
exported fit results to C:\Users\yooji\python\ABRpresto\example_data\Example_1_ABRpresto_fit.
json
```

8. For this example (Fit\_all\_examples.py) output files are saved under \example\_data

...

yooji

>

python

>

ABRpresto

>

example\_data

Search example\_data

Sort

View

Details

<input type="checkbox"/> Name	Date modified	Type	Size
ABRpresto thresholds 10-29-24.csv	2/16/2025 1:44 PM	Microsoft Excel Com...	937 KB
Example_1.csv	2/16/2025 1:44 PM	Microsoft Excel Com...	53,051 KB
Example_2.csv	2/16/2025 1:44 PM	Microsoft Excel Com...	41,846 KB
Example_3.csv	2/16/2025 1:44 PM	Microsoft Excel Com...	53,034 KB
Example_4.csv	2/16/2025 1:44 PM	Microsoft Excel Com...	53,040 KB
Example_5.csv	2/16/2025 1:44 PM	Microsoft Excel Com...	41,811 KB
Examples.txt	2/16/2025 1:44 PM	Text Document	1 KB
Manual Thresholds.csv	2/16/2025 1:44 PM	Microsoft Excel Com...	226 KB
Example_1_ABRpresto_fit.png	2/16/2025 3:18 PM	PNG File	302 KB
Example_1_ABRpresto_fit.json	2/16/2025 3:18 PM	JSON File	4 KB
Example_2_ABRpresto_fit.png	2/16/2025 3:19 PM	PNG File	267 KB
Example_2_ABRpresto_fit.json	2/16/2025 3:19 PM	JSON File	4 KB
Example_3_ABRpresto_fit.png	2/16/2025 3:19 PM	PNG File	336 KB
Example_3_ABRpresto_fit.json	2/16/2025 3:19 PM	JSON File	4 KB
Example_4_ABRpresto_fit.png	2/16/2025 3:20 PM	PNG File	304 KB
Example_4_ABRpresto_fit.json	2/16/2025 3:20 PM	JSON File	4 KB
Example_5_ABRpresto_fit.png	2/16/2025 3:21 PM	PNG File	271 KB
Example_5_ABRpresto_fit.json	2/16/2025 3:21 PM	JSON File	4 KB