# Installation

# Windows OS/MacOSX

- Download Anaconda3 from the official webpage and run the .exe
  - https://repo.anaconda.com/archive/Anaconda3-2019.03-MacOSX-x86_64.pkg
  - https://repo.anaconda.com/archive/Anaconda3-2019.03-Windows-x86_64.exe

- Download NEURON and run the .exe
  - https://neuron.yale.edu/ftp/neuron/versions/v7.7/nrn-7.7.x86_64-osx.pkg
  - https://neuron.yale.edu/ftp/neuron/versions/v7.7/nrn-7.7.w64-mingwsetup.exe

# Linux OS

- Download Anaconda 3
  - https://repo.anaconda.com/archive/Anaconda3-2019.03-Linux-x86_64.sh
- On a terminal execute
  - bash Anaconda3.sh
- Follow the instructions, specify the installation folder, e.g., /home/username/anaconda3

# NEURON on Linux

(1)

- sudo apt install libx11-dev git bison flex automake libtool libxext-dev libncurses-dev xfonts-100dpi libopenmpi-dev make zlib1g-dev
- mkdir neuron && cd neuron
- wget https://neuron.yale.edu/ftp/neuron/versions/v7.6/nrn-7.6.tar.gz
- Wget https://neuron.yale.edu/ftp/neuron/versions/v7.6/iv-19.tar.gz
- tar –xzvf
- mv iv-* iv && mv nrn-* nrn
- cd iv/
- ./configure –prefix=/your/folder/neuron/iv
- make -j
- make install -j

(2)

- cd .. && cd nrn/
- ./configure –prefix=/your/folder/neuron/nrn –with-iv=/your/folder/neuron/iv –with-nrnpython=/home/username/anaconda3/bin/python
- make -j
- make install -j
- cd src/nrnpython
- /home/username/anaconda3/bin/python setup.py install

- Edit your .bashrc file by adding
- export PATH=$PATH:/your/folder/neuron/nrn/x86_64/bin

(3)

- cd /your/directory/neuron
- touch nrnenv
- Edit nrnenv as
- Create an nrnenv file into neuron directory

- export IV=/your/directory/neuron/iv
- export N=/your/directory/neuron/nrn
- # for this concrete example, we assume hostcpu is x86_64
- export CPU=x86_64
- export PATH="$IV/$CPU/bin:$N/$CPU/bin:$PATH"

# NEURON on Linux

- cd .. && cd nrn/
- ./configure –prefix=/your/folder/neuron/nrn –with-iv=/your/folder/neuron/iv –with-nrnpython=/home/username/anaconda3/bin/python
- make -j
- make install -j
- cd src/nrnpython
- /home/username/anaconda3/bin/python setup.py install

- Edit your .bashrc file by adding
- export PATH=$PATH:/your/folder/neuron/nrn/x86_64/bin

# NEURON Linux

- cd /your/directory/neuron
- touch nrnenv
- Edit nrnenv as
- Create an nrnenv file into neuron directory

- export IV=/your/directory/neuron/iv
- export N=/your/directory/neuron/nrn
- # for this concrete example, we assume hostcpu is x86_64
- export CPU=x86_64
- export PATH="$IV/$CPU/bin:$N/$CPU/bin:$PATH"