

Starting NEURON "by itself"

with the GUI

- double click on nrngui icon
- double click on a hoc file (MSWin)
- drag and drop hoc file onto nrngui icon (MSWin and MacOS)

from the command line

- `nrngui` # loads GUI and standard run libs
- `nrniv` # loads neither

`nrn... bah.hoc` # executes `bah.hoc`

Windows 10 because of PATH issues--

Terminal:	nrngui	nrniv
Command Prompt	N	N
NEURON's bash	Y	Y
Anaconda Prompt	N	Y

Using NEURON as a Python module

```
python foo.py
```

where foo.py starts with

```
from neuron import h
```

gets NEURON's computational engine

```
from neuron import h, gui
```

*gets N's engine + GUI and standard run libraries,
shows NEURON Main Menu toolbar*

```
from neuron import h
```

```
h.load_file("stdgui.hoc")
```

gets GUI and std run libs, doesn't show toolbar

Hint: use -i to prevent autoexit

```
python -i foo.py
```

Exiting NEURON

Command:

hoc interpreter (oc> prompt) `quit()`

Python interpreter (>>> prompt) `exit()`

Keyboard shortcut: ^D (ctrl-D)

Exception: under MSWin if you started by

`nrngui -python`

 or

`nrniv -python`

the shortcut is ^Z.

But you won't be using the -python option . . .