

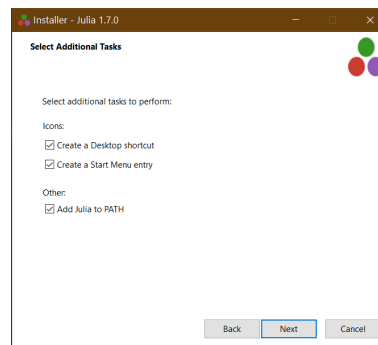
Julia installation

GNEU0001-1 : Principles of neuroengineering

1 Julia

1. On Windows

- (a) Download Julia (latest version) on julialang.org
- (b) Run the installer (.exe file downloaded)
- (c) During the installation, check **Add Julia to path** (see below)



- (d) Search for Julia app and click on it to open the julia terminal

2. On MacOS

- (a) Download Julia v1.8.1 on julialang.org, and click on [Linux and macOS instructions](#)
- (b) Drag the Julia-1.8.app to Applications Folder's Shortcut
- (c) Open the Julia app

2 Jupyter Notebook

1. Add the IJulia package

- (a) In the Julia terminal (called the REPL), type first the command : `import Pkg` (to use the package manager)
- (b) Install IJulia with the command: `Pkg.add("IJulia")`.
- (c) Run the command: `Pkg.build("IJulia")`. It takes a little time.

2. Install Jupyter Notebook

- (a) Still in the Julia terminal, run the command: `using IJulia`.

- (b) To launch Jupyter Notebook, run the command: `notebook()`.

As Jupyter Notebook is probably not installed yet, the terminal will propose you to install it via conda. You can then type `y` to do so. Once the installation ends, it should open a Jupyter Notebook window in your navigator.

3. Create a new Julia Notebook on Jupyter

- (a) Click on **New** on the top-right of your screen
- (b) Select **Julia** from the drop-down list
- (c) Test your notebook by printing "Hello World" using the command : `println("Hello World")`

3 Julia packages needed

Please run the notebook `Pkg_install.ipynb` in Jupyter to install all the packages you need.