

# BGT software tutorial 0

## Installing the Jupyter stack

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# Goals

- ▶ Install Python 3.6 or 3.7
- ▶ Install Jupyter notebook
- ▶ Install Julia 0.6
- ▶ Make sure Julia talks to Python and Jupyter

# Download and Install Python

*We will not be using venv or virtual env*

- ▶ All platforms: Install anaconda
- ▶ On windows:  
`https://www.python.org/downloads/windows/ install 3.6.5 or 3.7`
- ▶ On Mac: Install homebrew `https://brew.sh/` then `python >brew install python`
- ▶ On Linux; use your package manager to install 3.6 or 3.7  
ALONG SIDE distribution version

## Make sure Python is in your PATH

Here (PYTHON\_DIR) is the directory where you install python. (For example C:/Program Files/Python3.7 or /opt/python

For windows:

Following this guide, add your python folder to the PATH variables.

Otherwise add the following line ~/.bashrc (linux) or  
~/.bash\_profile (osx):

```
set PATH=(PYTHON_DIR)/bin:$PATH
```

# Install Jupyter

Windows: Using the SAME python interpreter run `>python -m  
pip install jupyter`

On osx: Using homebrew  
`>brew install jupyter`

(On Ubuntu) Use apt to install  
`>sudo apt install jupyter-notebook`

test this by running `>jupyter-notebook`

# Install Julia

Install Julia 0.6.4 for your operating system from:  
`https://julialang.org/downloads/oldreleases.html`

Make sure to add julia to your PATH variable as you did with python.

For windows 7 users; make sure to install the additional fixes listed.

# Install Julia Binding

Install IJulia with `>Pkg.add("IJulia")`  
then exit julia with `>exit()`

Test by opening jupyter-notebook  
and creating a new julia notebook.