

Launching the Notebook Server

To start a notebook server using a command-line interface, open the Terminal/Anaconda prompt, and navigate to the directory where you'd like to create notebook files (.ipynb). You can confirm the present working directory using `pwd`.

```
cd <directory_path>
```

```
pwd
```

Next, enter the following command in your terminal/Anaconda prompt

```
jupyter notebook
```

The command above will start the Notebook server in the current directory. Typically you'd want to start the server in the directory where your existing-notebooks reside. However, you can navigate through your file system to where the notebooks are present.

Unable to Start the Jupyter Notebook Server?

Try troubleshooting the problem with the help of this post - [What to do when things go wrong?](#)

```
(base) MacBook-Pro:JupyterNotebooks xyz$ jupyter notebook
[I 15:14:01.978 NotebookApp] JupyterLab extension loaded from /opt/anaconda3/lib/python3.7/site-packages/jupyterlab
[I 15:14:01.978 NotebookApp] JupyterLab application directory is /opt/anaconda3/share/jupyter/lab
[I 15:14:02.196 NotebookApp] Serving notebooks from local directory: /Users/xyz/Documents/JupyterNotebooks
[I 15:14:02.196 NotebookApp] The Jupyter Notebook is running at:
[I 15:14:02.196 NotebookApp] http://localhost:8888/?token=aeae0a52a6b43931206658c85da8b37621a1079ff65e17d3
[I 15:14:02.196 NotebookApp] or http://127.0.0.1:8888/?token=aeae0a52a6b43931206658c85da8b37621a1079ff65e17d3
[I 15:14:02.196 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 15:14:02.207 NotebookApp]

To access the notebook, open this file in a browser:
file:///Users/xyz/Library/Jupyter/runtime/nbserver-4632-open.html
Or copy and paste one of these URLs:
http://localhost:8888/?token=aeae0a52a6b43931206658c85da8b37621a1079ff65e17d3
or http://127.0.0.1:8888/?token=aeae0a52a6b43931206658c85da8b37621a1079ff65e17d3
```

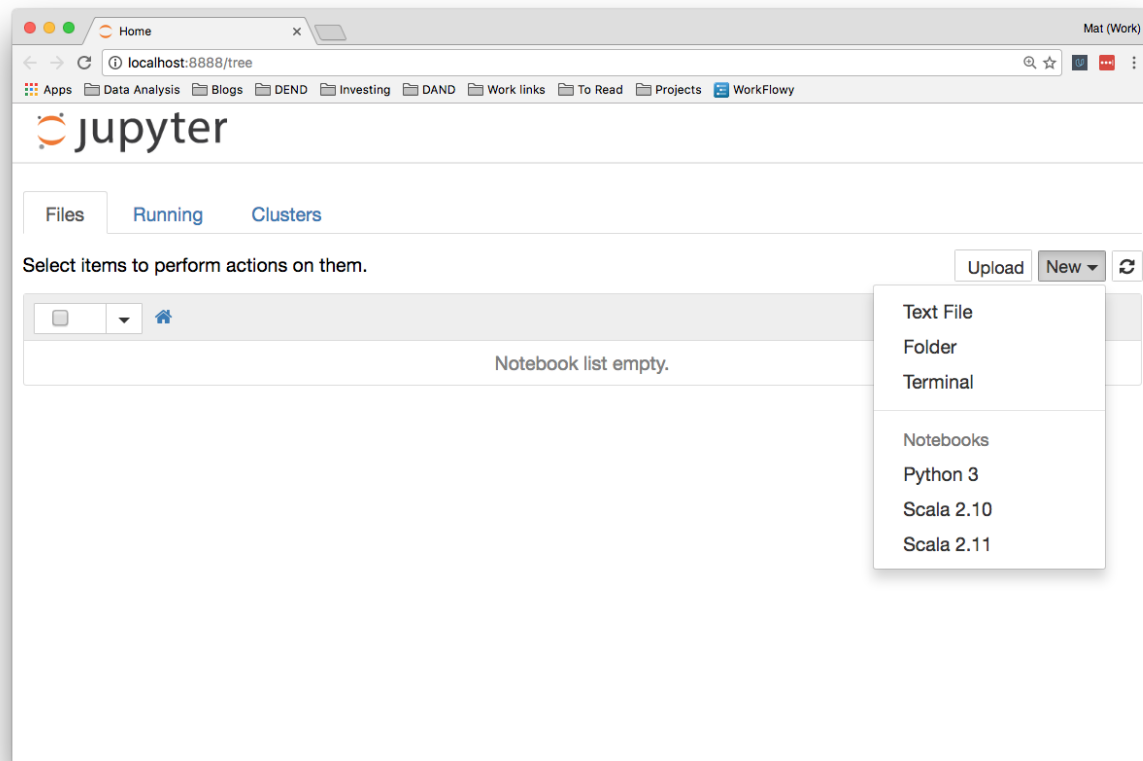
Starting a Notebook server in the default base environment. The `jupyter notebook` command will behave the same in both MacOS/Linux and Windows.

Notebook Server Walkaround

When you run the `jupyter notebook` command (try it yourself!), the server home should open in your browser. By default, the notebook server runs at `http://localhost:8888`. If you aren't familiar with this, `localhost` means your computer and `8888` is the port the server is communicating on. As long as the server is still running, you can always come back to it by going to <http://localhost:8888> in your browser.

If you start another server, it'll try to use port `8888`, but since it is occupied, the new server will run on port `8889`. Then, you'd connect to it at `http://localhost:8889`. Every additional notebook server will increment the port number like this.

If you tried starting your own server, it should look something like this:



A snapshot of Jupyter Notebook Server

You might see some files and folders in the list here, it depends on where you started the server from.

Create a New Notebook

Over on the right, you can click on "New" to create a new notebook, text file, folder, or terminal. The list under "Notebooks" shows the kernels you have installed. Here I'm running the server in a Python 3 environment, so I have a Python 3 kernel available. You might see Python 2 here. I've also installed kernels for Scala 2.10 and 2.11 which you see in the list. See [this documentation](#) for how to install kernels if you ever need to do so.

Jupyter Notebook Server Tabs

The tabs at the top show *Files*, *Running*, and *Cluster*. *Files* shows all the files and folders in the current directory. Clicking on the *Running* tab will list all the currently running notebooks. From there you can manage them.

Clusters previously was where you'd create multiple kernels for use in parallel computing. Now that's been taken over by [ipyparallel](#) so there isn't much to do there.

Notebook Conda Package

You should consider installing the Notebook Conda package to help manage your environments. Run the following terminal command:

conda install nb_conda

After successful installation of the nb_conda package, if you run the notebook server from a conda environment, you'll also have access to the "Conda" tab shown below. Here you can manage your environments from within Jupyter. You can create new environments, install packages, update packages, export environments, and much more.

The screenshot displays the Jupyter web interface with the 'Conda' tab selected. At the top, there are tabs for 'Files', 'Running', 'Clusters', and 'Conda'. Below the tabs, it says '17 Conda environments' with a '+', '-' icon. A table lists the environments:

Action	Name	Default?	Directory
	root		/Users/mat/anaconda
	DAND		/Users/mat/anaconda/envs/DAND
	DAND_P0		/Users/mat/anaconda/envs/DAND_P0
	IntroDA		/Users/mat/anaconda/envs/IntroDA
	YAML		/Users/mat/anaconda/envs/YAML
	flask		/Users/mat/anaconda/envs/flask

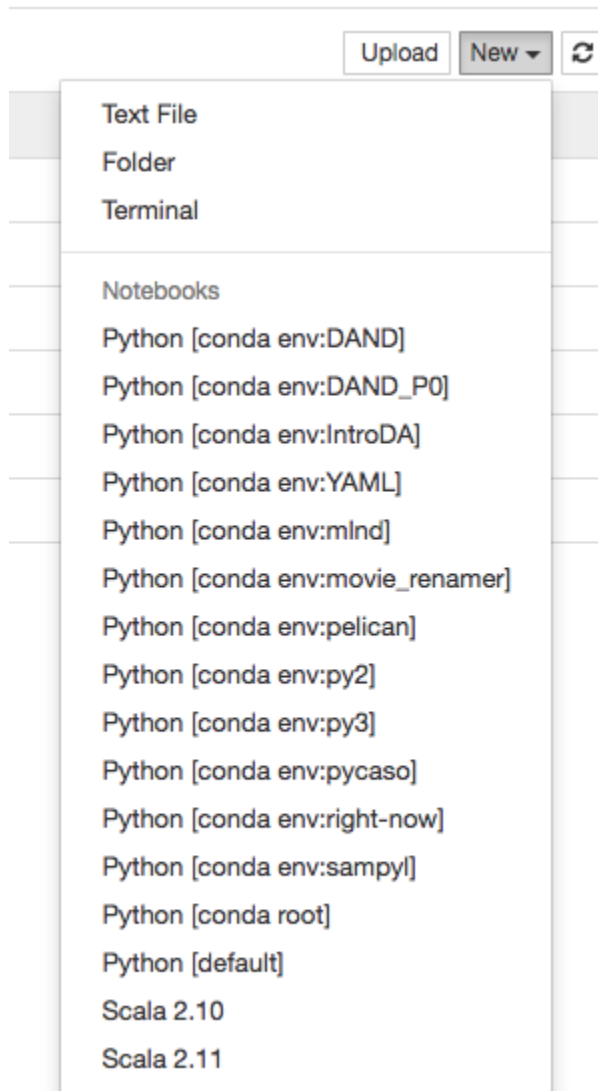
Below the environments table, it says '605 available packages' with a search bar and a right arrow icon. To the right, it says '62 installed packages in environment "DAND"' with icons for refresh, check, download, and delete. Two tables are shown:

Name	Version	Channel
<input type="checkbox"/> _license	1.1	defaults
<input type="checkbox"/> _nb_ext_conf	0.3.0	defaults
<input type="checkbox"/> abstract-rendering	0.5.1	defaults
<input type="checkbox"/> accelerate	2.3.0	defaults
<input type="checkbox"/> accelerate_cudalib	2.0	defaults
<input type="checkbox"/> affine	2.0.0	defaults

Name	Version	Build	Available
<input type="checkbox"/> appnope	0.1.0	py27_0	
<input type="checkbox"/> backports	1.0	py27_0	
<input type="checkbox"/> backports_abc	0.4	py27_0	
<input type="checkbox"/> configparser	3.5.0b2	py27_1	
<input type="checkbox"/> cyciler	0.10.0	py27_0	
<input type="checkbox"/> decorator	4.0.10	py27_0	

conda tab in Jupyter

Additionally, with nb_conda installed you will be able to access any of your conda environments when choosing a kernel. For example, the image below shows an example of creating a new notebook on a machine with several different conda environments:



conda environments in Jupyter

Shutting down Jupyter

You can shutdown individual notebooks by marking the checkbox next to the notebook on the server home and clicking "Shutdown." Make sure you've saved your work before you do this though! Any changes since the last time you saved will be lost. You'll also need to rerun the code the next time you run the notebook.



Files

Running

Clusters

Conda

Duplicate

Shutdown

Upload

New

1

<input checked="" type="checkbox"/>	Keyboard shortcuts.ipynb	Running
<input type="checkbox"/>	Magic commands.ipynb	
<input type="checkbox"/>	Markdown cells.ipynb	
<input type="checkbox"/>	Untitled.ipynb	
<input type="checkbox"/>	Working with code cells.ipynb	Running
<input type="checkbox"/>	Working with code cells.html	

You can shutdown the entire server by pressing control + C twice in the terminal. Again, this will immediately shutdown all the running notebooks, so make sure your work is saved!

```
notebooks — jupyter-notebook • python — 80x24
~/Projects/Courses/Anaconda_Notebooks/notebooks — jupyter-notebook • python
[W 14:18:33.542 NotebookApp] X nbpresent PDF export DISABLED: No module named 'nbrowserpdf'
[I 14:18:33.548 NotebookApp] Serving notebooks from local directory: /Users/mat/Projects/Courses/Anaconda_Notebooks/notebooks
[I 14:18:33.549 NotebookApp] 0 active kernels
[I 14:18:33.549 NotebookApp] The Jupyter Notebook is running at: http://localhost:8888/
[I 14:18:33.549 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[I 14:31:12.823 NotebookApp] Kernel started: 8ac04938-ce31-4171-a754-2d6d3a5caed4
[I 14:33:13.133 NotebookApp] Saving file at /Working with code cells.ipynb
[I 14:44:53.425 NotebookApp] Kernel started: 001a947e-c46e-4dce-9668-94ad53a9bc69
[I 14:45:12.716 NotebookApp] Saving file at /Keyboard shortcuts.ipynb
[I 14:46:53.442 NotebookApp] Saving file at /Keyboard shortcuts.ipynb
[I 14:47:22.103 NotebookApp] Saving file at /Keyboard shortcuts.ipynb
[I 14:49:13.167 NotebookApp] Saving file at /Working with code cells.ipynb
^C[I 14:52:06.160 NotebookApp] interrupted
Serving notebooks from local directory: /Users/mat/Projects/Courses/Anaconda_Notebooks/notebooks
2 active kernels
The Jupyter Notebook is running at: http://localhost:8888/
Shutdown this notebook server (y/[n])? 
```