jupyter_notebook_script

July 1, 2021

1 Jupyter Notebook Script

2 Terminal Server Window

Launch jupyter notebook by entering 'jupyter notebook' on command line or using icon.

First screen is a JN Terminal Server window

Terminal Server window must stay **open** during all work with jupyter notebooks

Server can handles any number of open notebooks at one time..

After opening, can be ignored

3 Jupyter Dashboard

Jupyter dashboard should appear in your designated browser (chrome, edge, sfari, etc).

The Jupyter dashboard doesn't say "dashboard" but that's what everybody calls it. It shows a list of folders and files where you have existing notebooks and where any new ones will be created. A jupyter notebook (if you have any) will have a file extension of **.ipynb**

Note: Dashboard list must also stay **open** during all work with jupyter notebooks

3.1 Steps to create an empty notebook from dash board screen.

1. On the top right is a drop down button that says **New**. Click on it.
2. From the drop down options, click on **Python 3** .
3. That's it- a new browser tab with an empty jupyter notebook will pop up

4 Navigating through a Notebook for First Time

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1. Layout of screen (Headings and Icons)

2. HELP: User interface tour/ Keyboard shortcuts

3. Setting title for new notebook

4. Command line modes: **Edit** and **Command** (Green vs Blue)
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5. Entering and executing "cells"

6. Order of cell execution : [In] and [Out]

   Use samples from python:
   345 + 234
   name = 'Dave'
   print(name)

7. Types of Cells :
    * Code cells
    * Markdown cells

8. Managing the notebook "kernel" : Stopping and starting

9. Saving and recovering notebook files (pdf and html)

10. Special commands: **Magic** commands

    * line magic(%):

    * cell magic(%%):

4.1 line magic:

1 %lsmagic : lists magic commands

2. % ls   : lists files in current folder

2. %whos   : shows variables in namespace

3. %matplotlib inline : executes graphs inside notebook

3. %load and %save

4.2 cell magic:

1. %%timeit

2. %%latex

3. %%load and %%save

[1]:
```
%lsmagic
```

[1]:
```
Available line magics:
%alias  %alias_magic  %autoawait  %autocall  %automagic  %autosave  %bookmark
%cat  %cd  %clear  %colors  %conda  %config  %connect_info  %cp  %debug  %dhist
%dirs  %doctest_mode  %ed  %edit  %env  %gui  %hist  %history  %killbgscripts
%ldir  %less  %lf  %lk  %ll  %load  %load_ext  %loadpy  %logoff  %logon
%logstart  %logstate  %logstop  %ls  %lsmagic  %lx  %macro  %magic  %man
%matplotlib  %mkdir  %more  %mv  %notebook  %page  %pastebin  %pdb  %pdef  %pdoc
%pfile  %pinfo  %pinfo2  %pip  %popd  %pprint  %precision  %prun  %psearch
%psource  %pushd  %pwd  %pycat  %pylab  %qtconsole  %quickref  %recall  %rehashx
%reload_ext  %rep  %rerun  %reset  %reset_selective  %rm  %rmdir  %run  %save
%sc  %set_env  %store  %sx  %system  %tb  %time  %timeit  %unalias  %unload_ext
%who  %who_ls  %whos  %xdel  %xmode

Available cell magics:
%%!  %%HTML  %%SVG  %%bash  %%capture  %%debug  %%file  %%html  %%javascript
%%js  %%latex  %%markdown  %%perl  %%prun  %%pypy  %%python  %%python2
%%python3  %%ruby  %%script  %%sh  %%svg  %%sx  %%system  %%time  %%timeit
%%writefile

Automagic is ON, % prefix IS NOT needed for line magics.
```

[2]:
```
%whos
```

```
Interactive namespace is empty.
```