

Basic use of Jupyter Lab

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The previous tutorial has demonstrated how to install Jupyter Lab. This tutorial mainly introduces the basic use of Jupyter Lab!

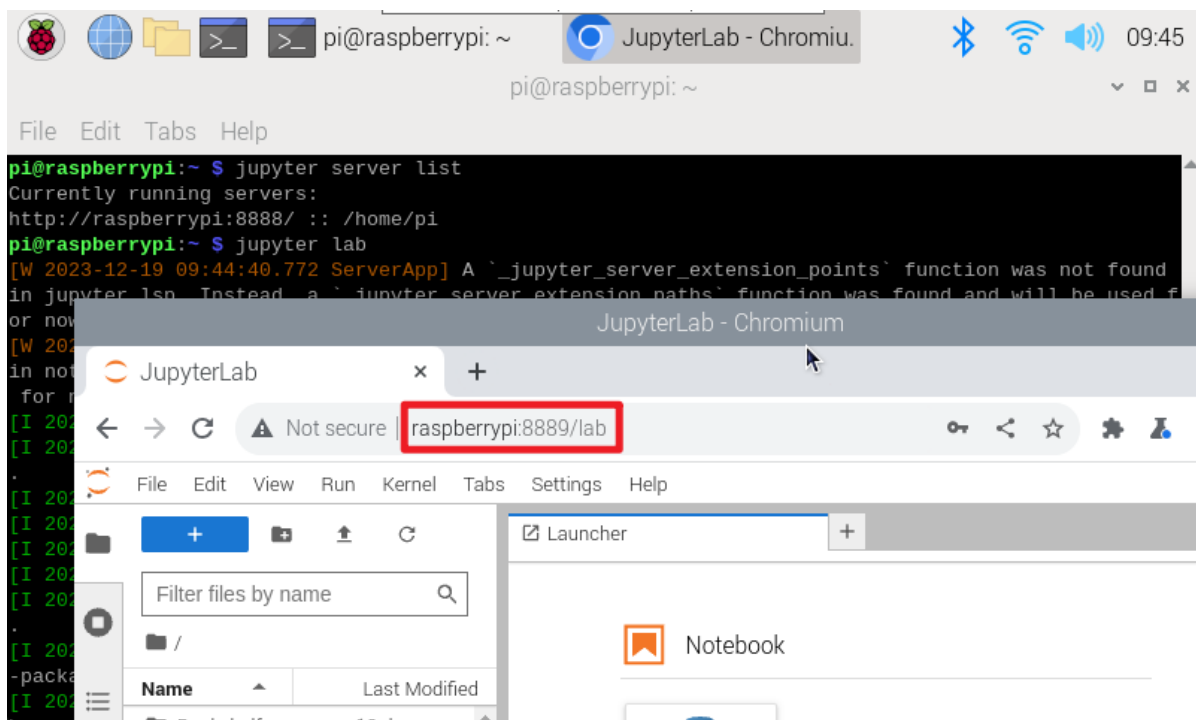
1. Start Jupyter Lab

Enter the jupyter lab command in the terminal:

```
jupyterlab
```

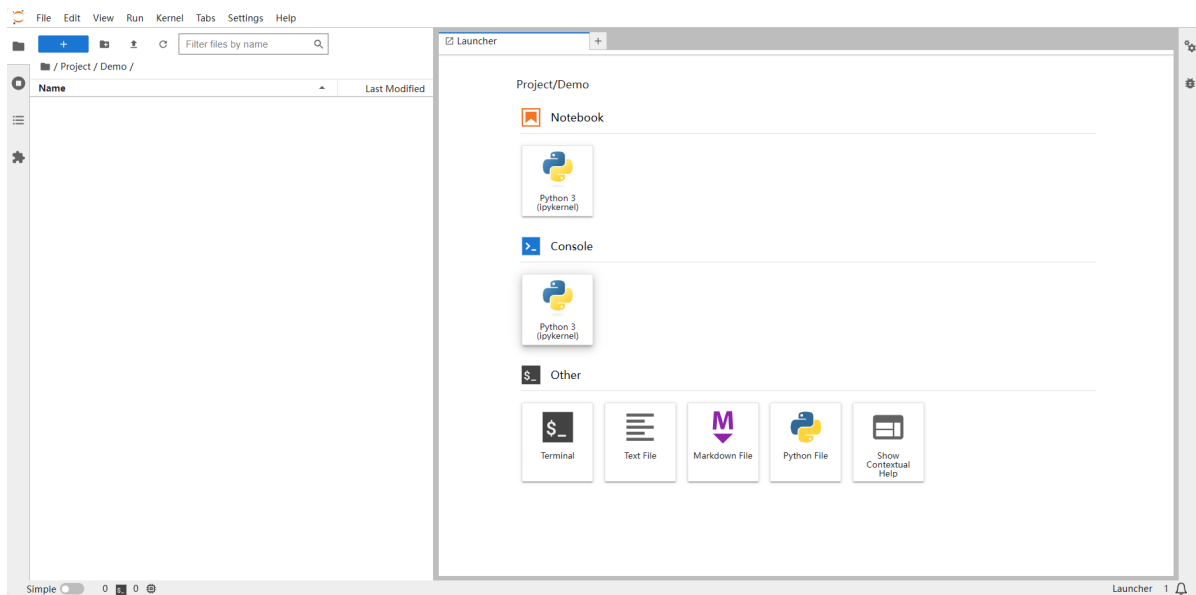
If you have set up Jupyter Lab to start automatically at boot, then if you run Jupyter Lab in the terminal again, it will be assigned a different port number (such as IP: 8889, etc.). It is recommended that you access Jupyter Lab directly according to IP: 8888;

Example: The Raspberry Pi IP is 192.168.93. After starting jupyter lab, you can enter 192.168.93:8888 on a device on the same LAN or in the local browser to access jupyter lab.

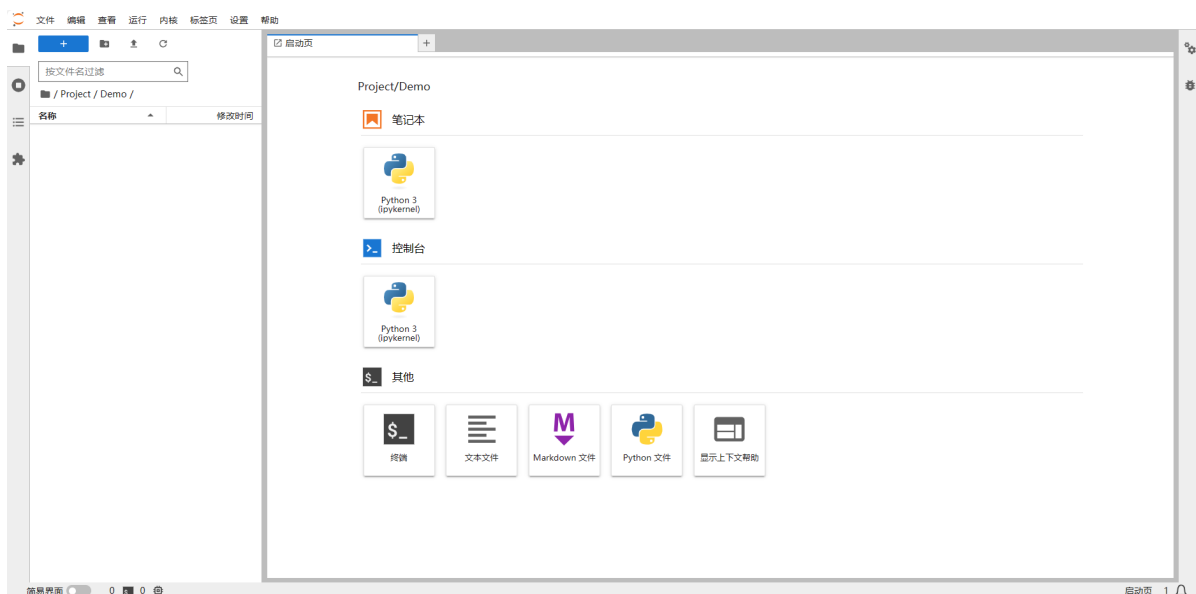


2. Introduction to Jupyter Lab interface

English interface



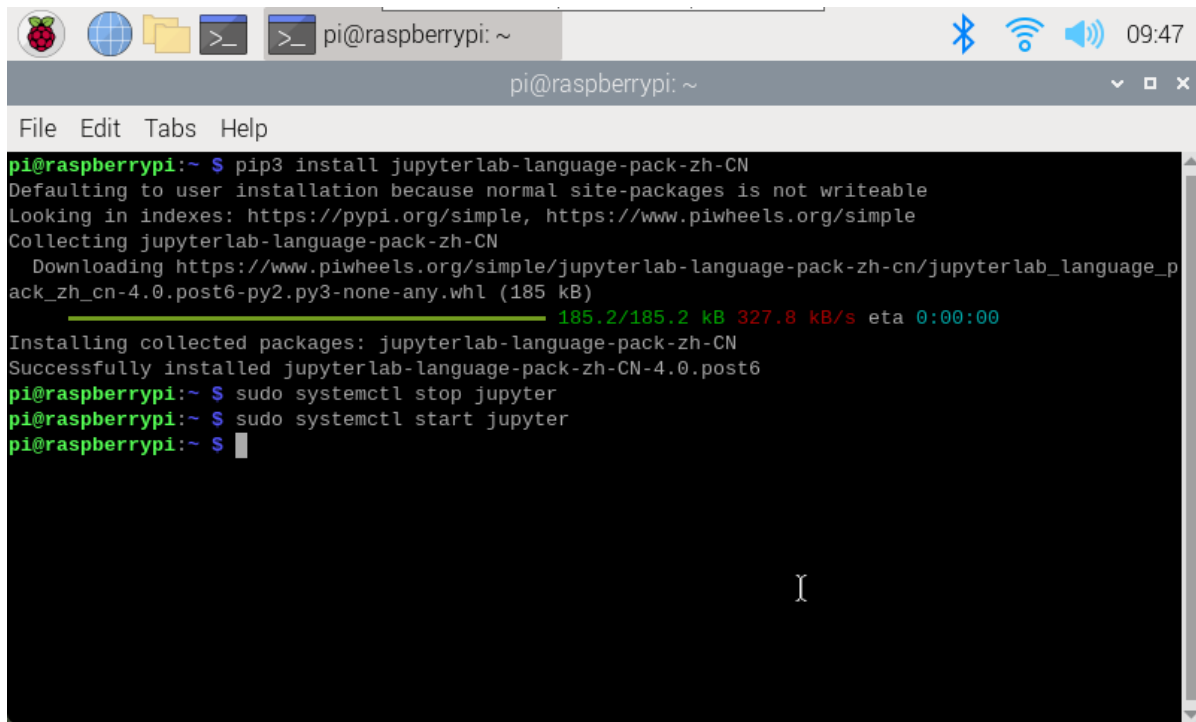
Chinese interface



How to Chineseize the interface

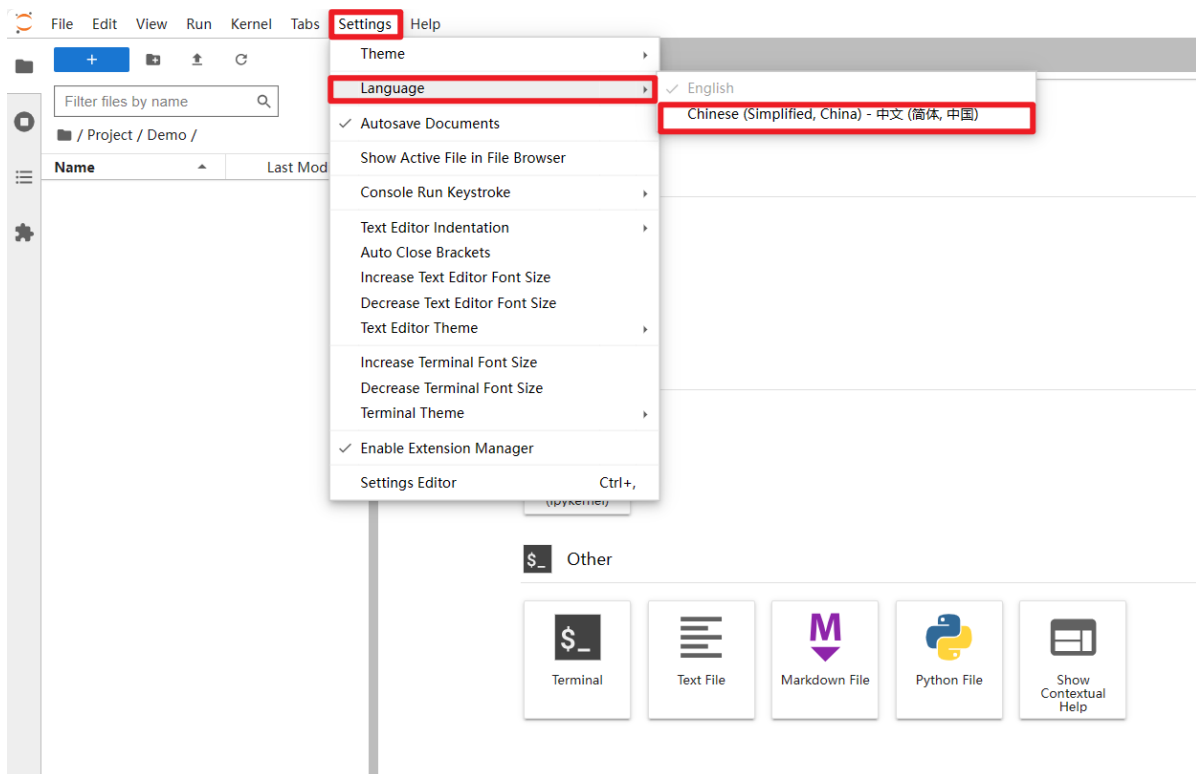
Use pip to install the Chinese interface and enter the following command in the terminal:

```
pip3 install jupyterlab-language-pack-zh-CN
```



```
pi@raspberrypi: ~  
File Edit Tabs Help  
pi@raspberrypi:~$ pip3 install jupyterlab-language-pack-zh-CN  
Defaulting to user installation because normal site-packages is not writeable  
Looking in indexes: https://pypi.org/simple, https://www.piwheels.org/simple  
Collecting jupyterlab-language-pack-zh-CN  
  Downloading https://www.piwheels.org/simple/jupyterlab-language-pack-zh-cn/jupyterlab_language_p  
ack_zh_cn-4.0.post6-py2.py3-none-any.whl (185 kB)  
    185.2/185.2 kB 327.8 kB/s eta 0:00:00  
Installing collected packages: jupyterlab-language-pack-zh-CN  
Successfully installed jupyterlab-language-pack-zh-CN-4.0.post6  
pi@raspberrypi:~$ sudo systemctl stop jupyter  
pi@raspberrypi:~$ sudo systemctl start jupyter  
pi@raspberrypi:~$
```

After the installation is complete, restart jupyter lab, then select "Settings → Language → Chinese Simplified" and reload the page.



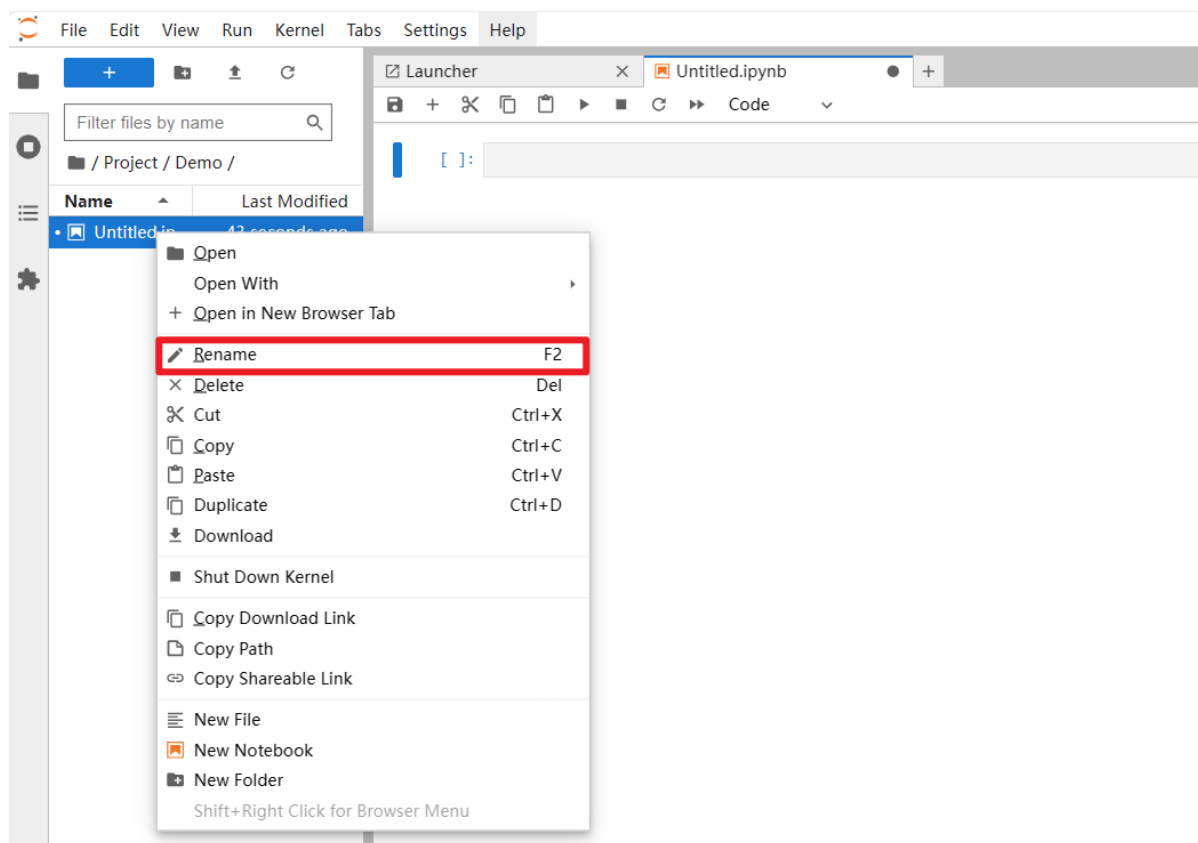
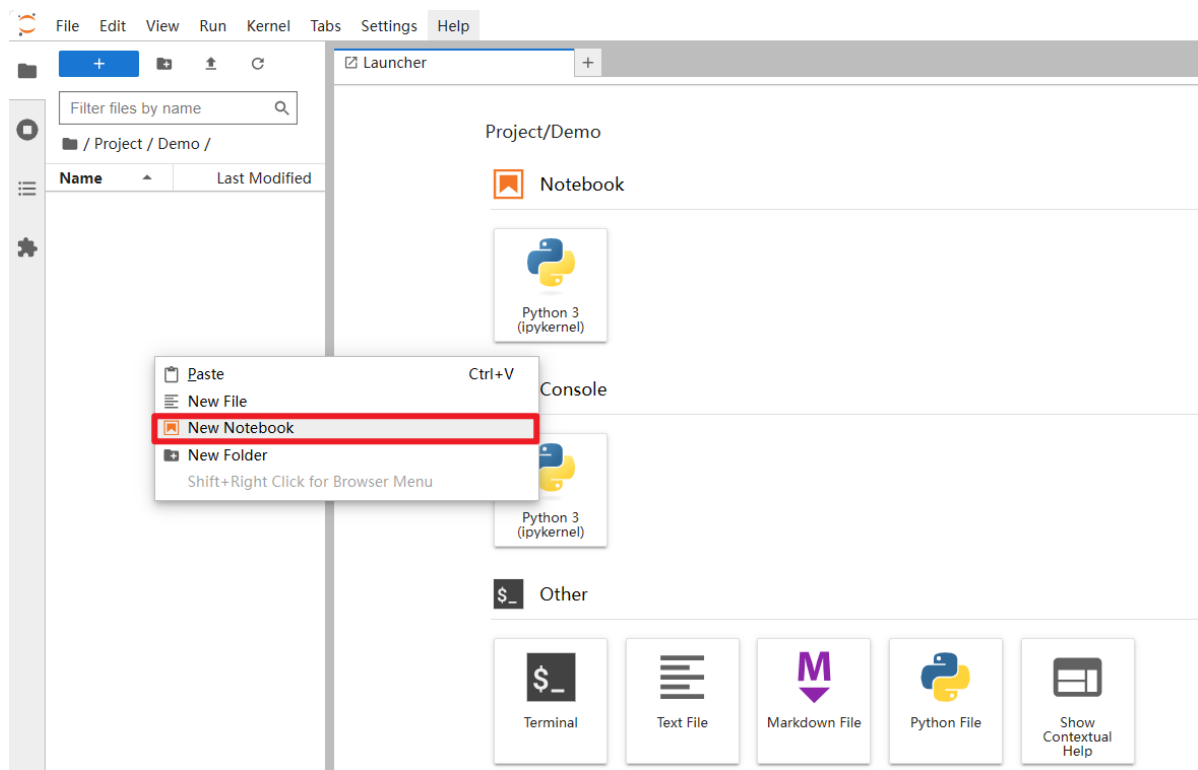
The interface options will not be explained here. You can choose the Chinese or English interface!

3. HelloWorld

Write and run the HelloWorld program.

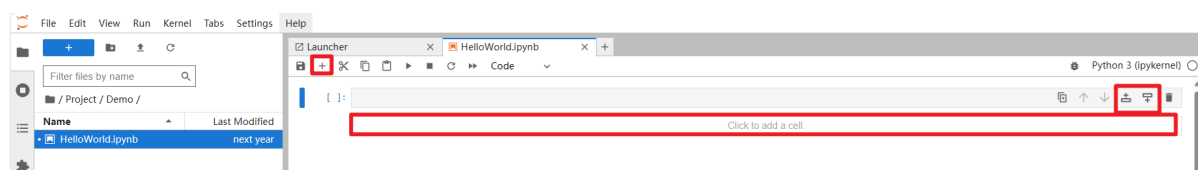
- Create a new file and name it HelloWorld

Right-click the file browser menu bar, select "New Notebook File (New Notebook)", select Python3 for the kernel, and then rename it to HelloWorld

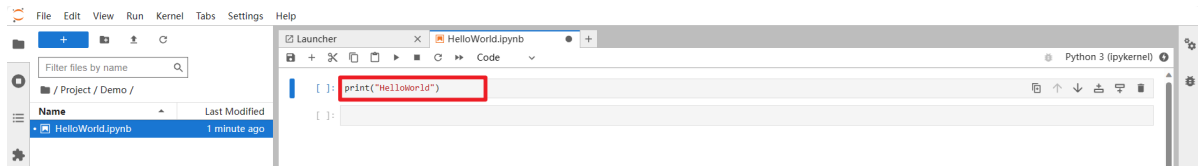


Code block

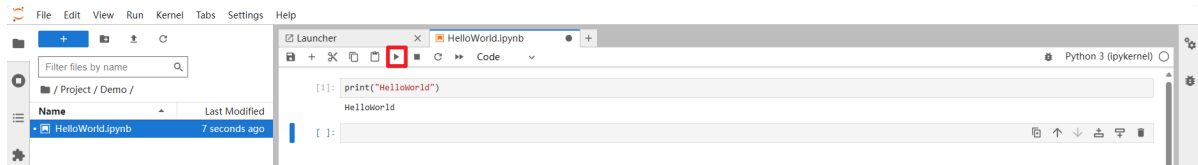
Select the following positions to add code blocks up or down



Write code



Run code

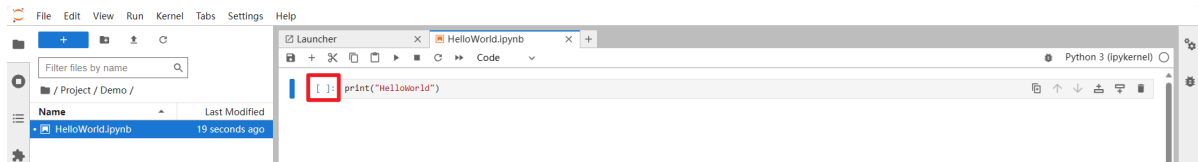


Code block description

The content in [] on the left side of the code block has two states: * and number

*: Indicates that the code block is still running

Number: represents the order in which code blocks are executed



Precautions

If you want to reset or abnormal problems occur while the code is running, you can do the following: restart all cores and clear all code block output.

