

# 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!

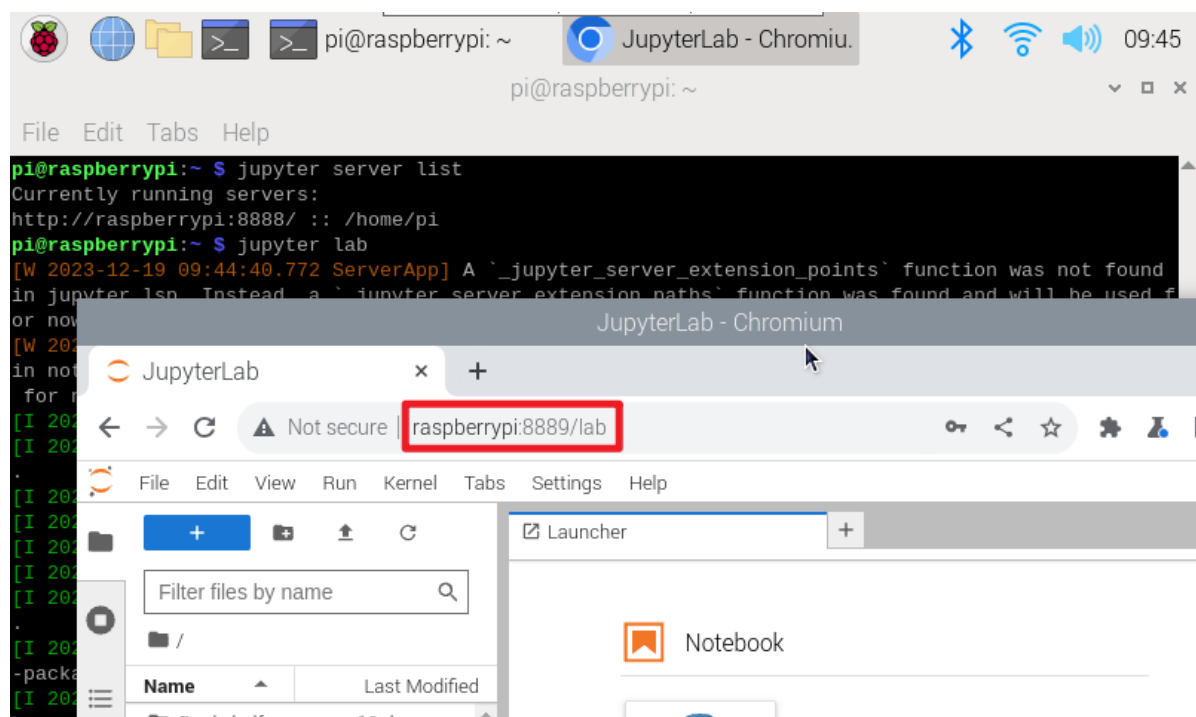
## 1. Start Jupyter Lab

Enter the jupyter lab command in the terminal:

```
jupyterlab
```

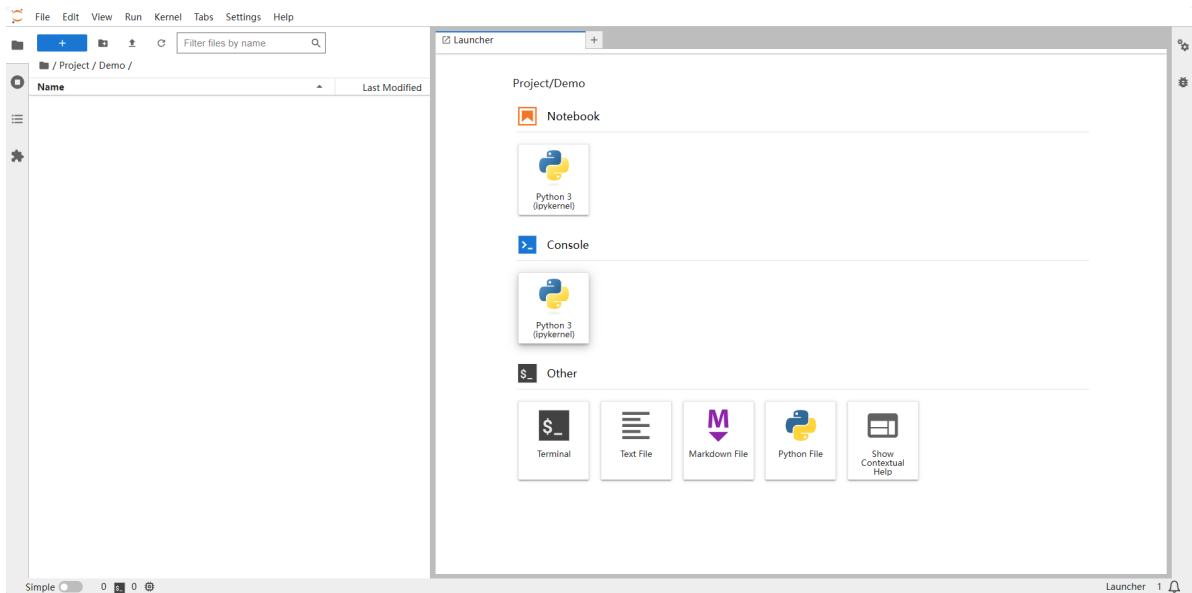
If you have set up Jupyter Lab to start automatically at boot, then if you run Jupyter Lab in the terminal again, it will be assigned a different port number (such as IP: 8889, etc.). It is recommended that you access Jupyter Lab directly according to IP: 8888;

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.

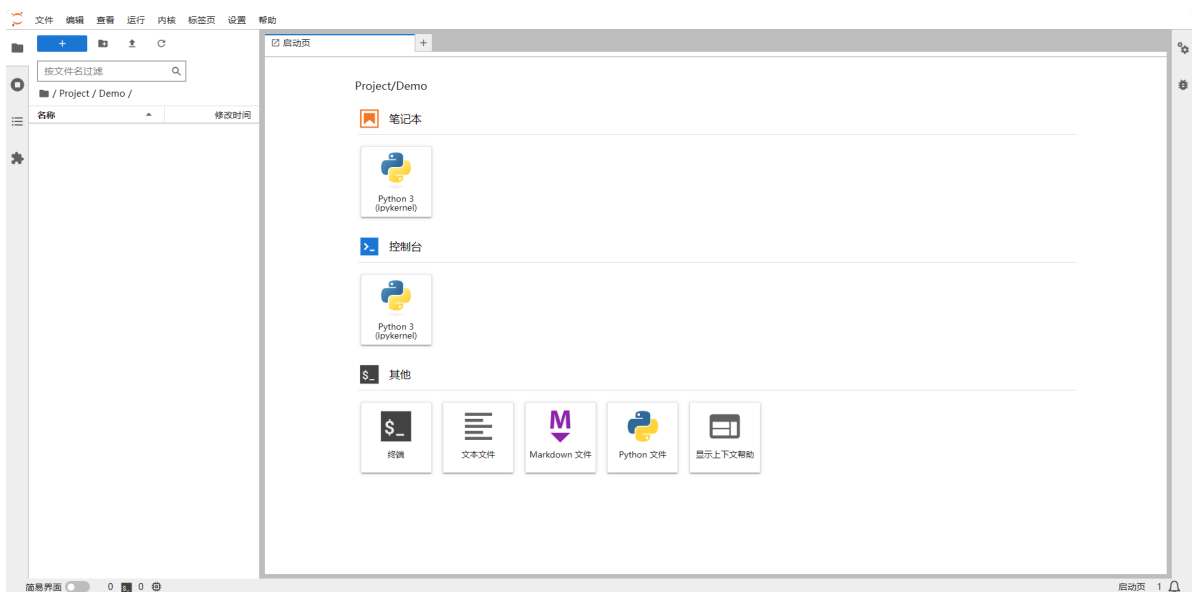


## 2. Introduction to Jupyter Lab interface

### English interface



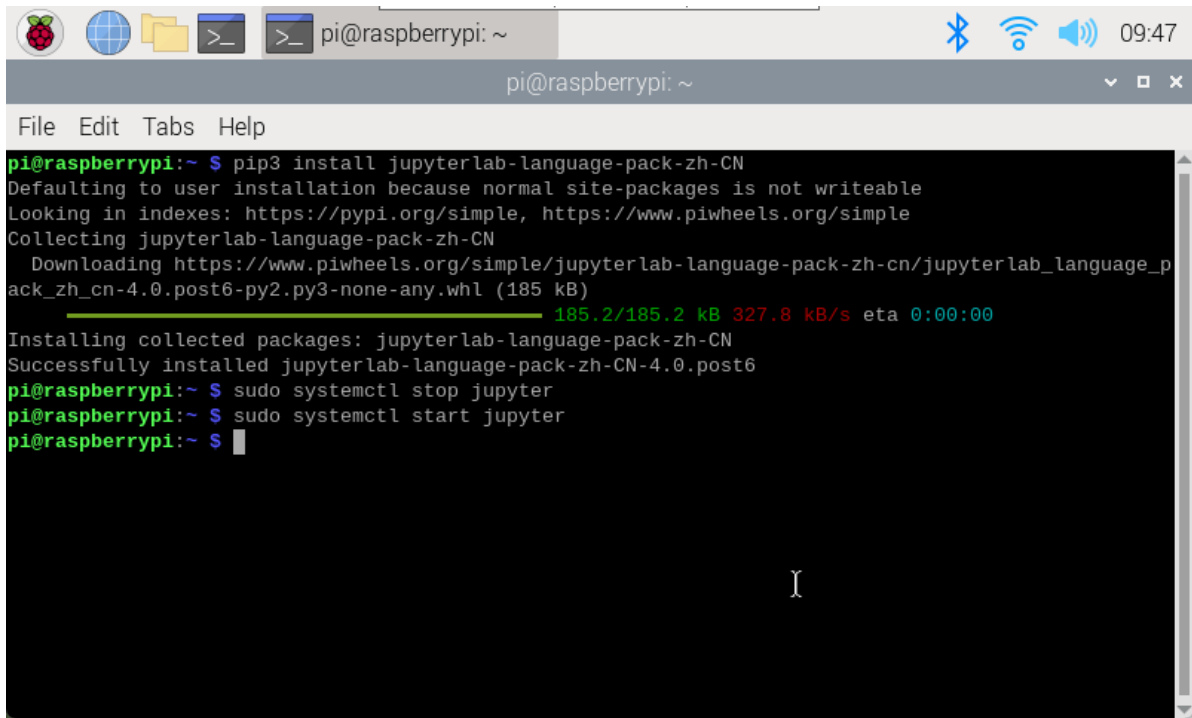
### Chinese interface



### How to Chineseize the interface

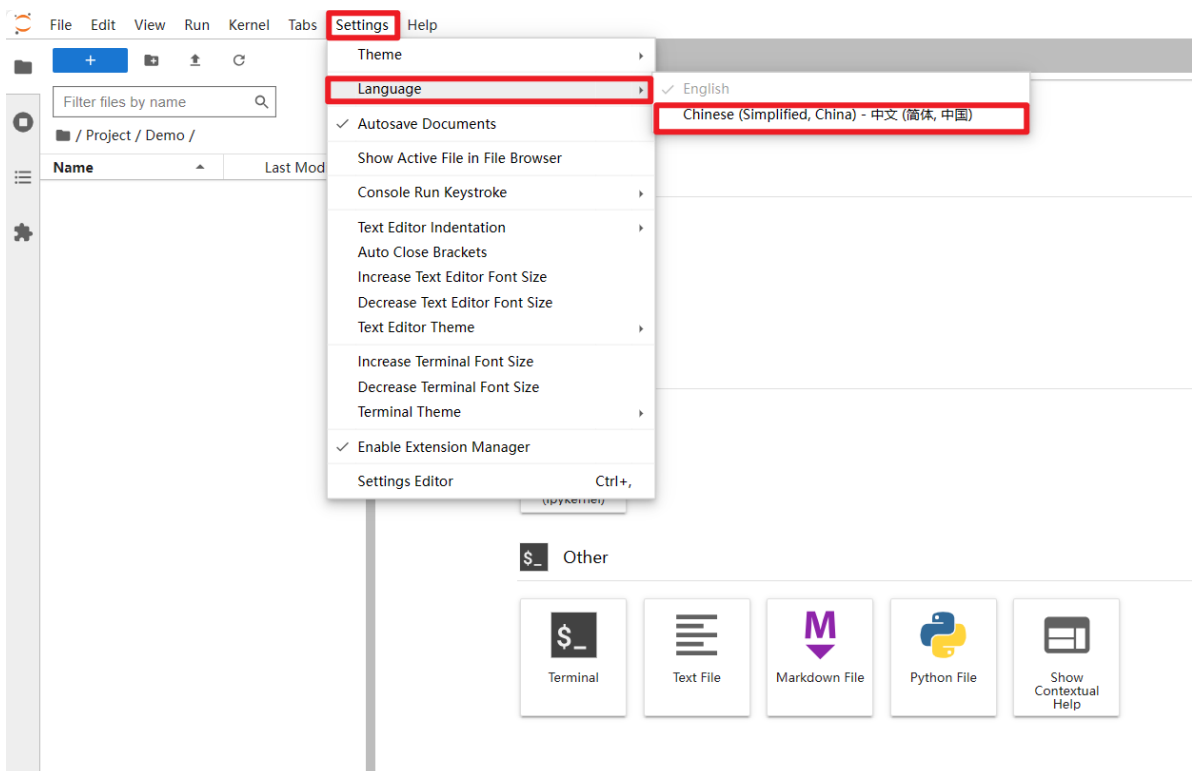
Use pip to install the Chinese interface and enter the following command in the terminal:

```
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_pack_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.



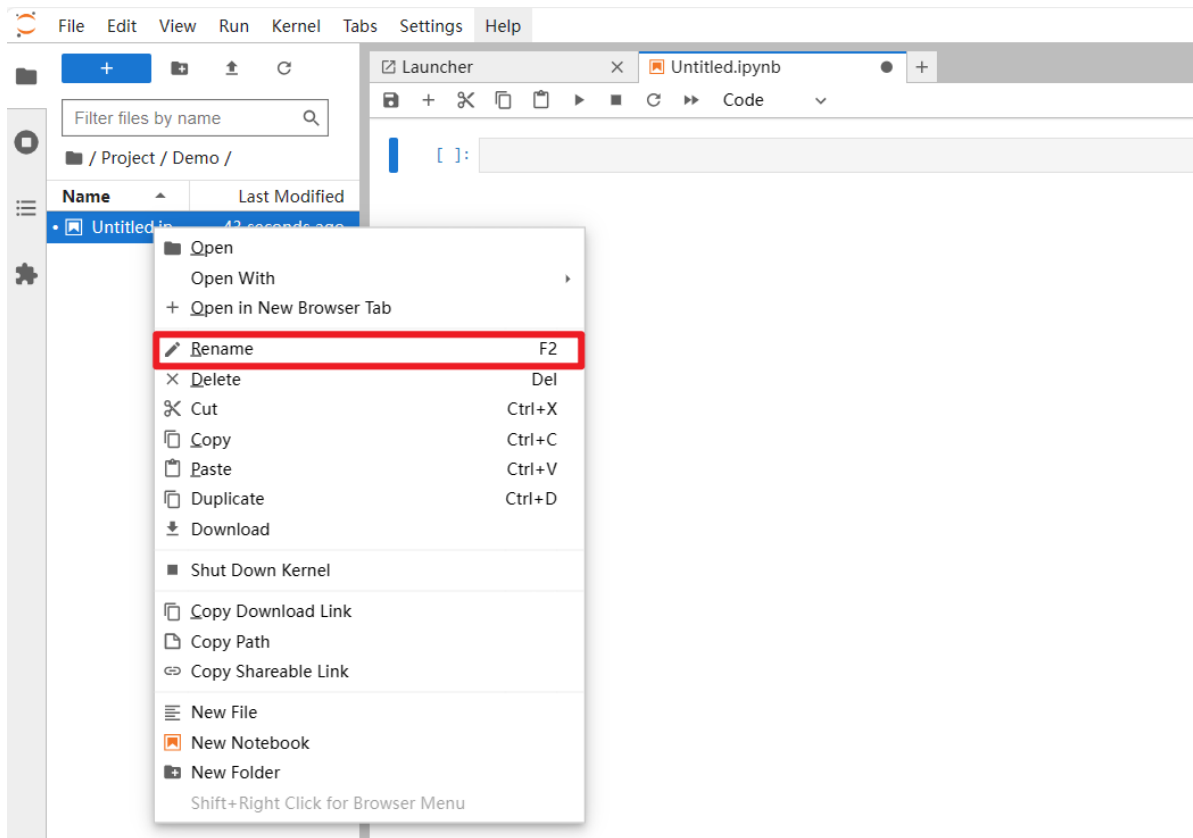
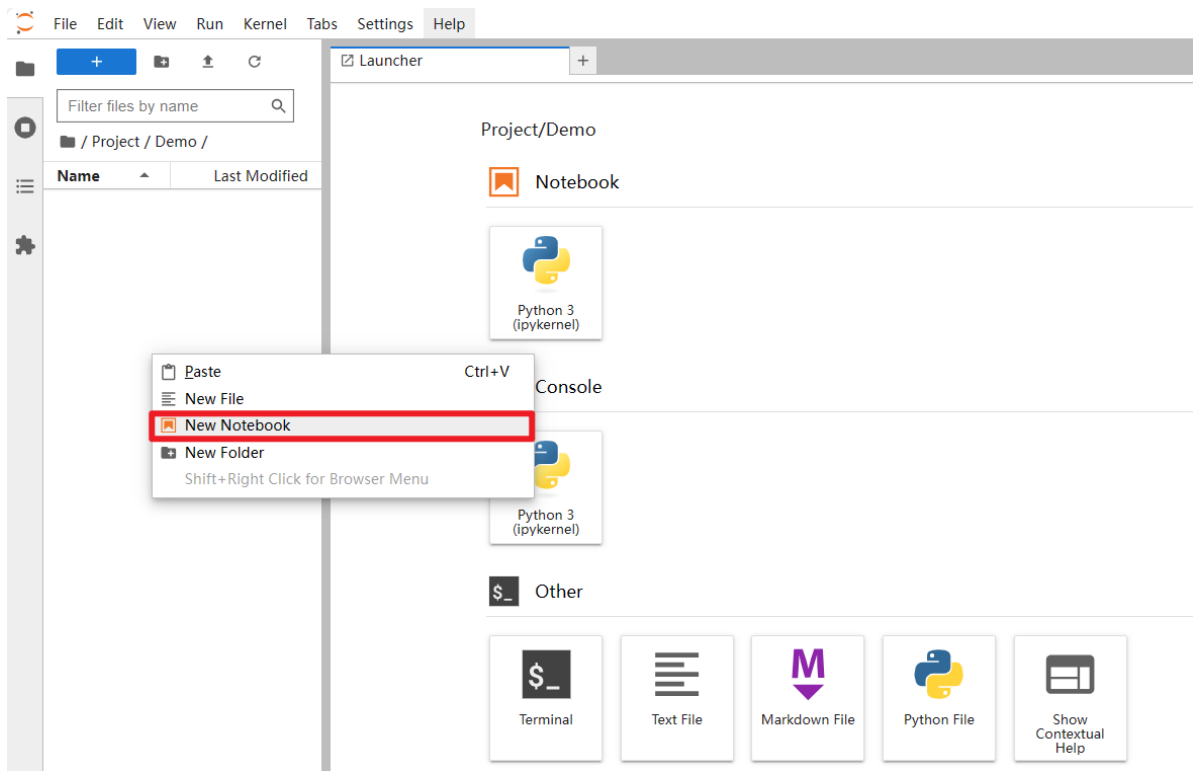
The interface options will not be explained here. You can choose the Chinese or English interface!

### 3. HelloWorld

Write and run the HelloWorld program.

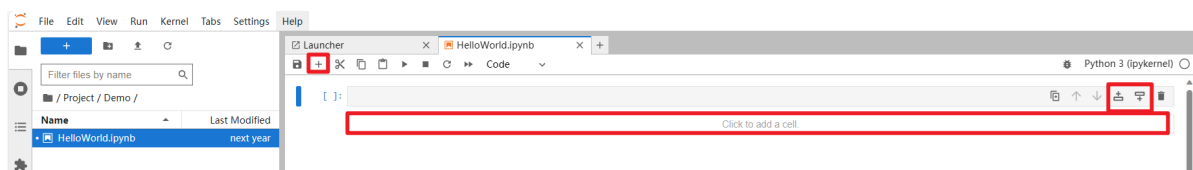
- Create a new file and name it HelloWorld

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

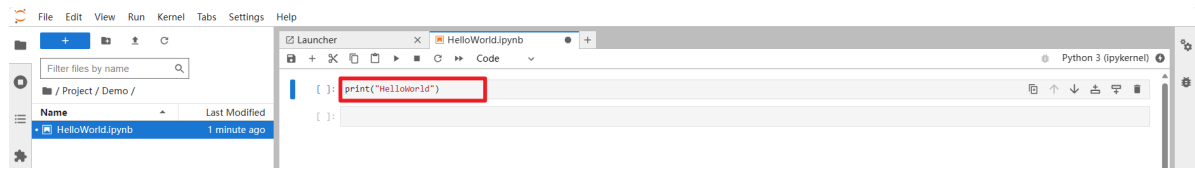


## Code block

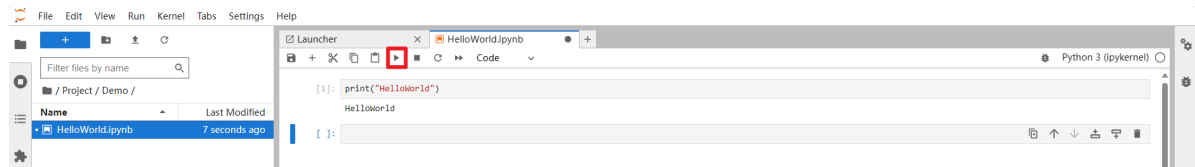
Select the following positions to add code blocks up or down



# Write code



# Run code

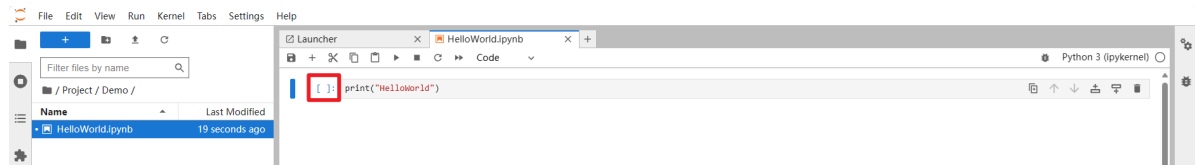


# Code block description

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.

