

JupyterLab Basic Usage Tutorial

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1. Supported browsers
2. Start JupyterLab
3. Interface Introduction
4. Program running
5. Common shortcut keys
- VI. Plugin installation

1. Supported browsers

The latest versions of the following browsers are known to work properly:

- Firefox
- Chrome
- Safari

Older browser versions may also work, but there is no guarantee.

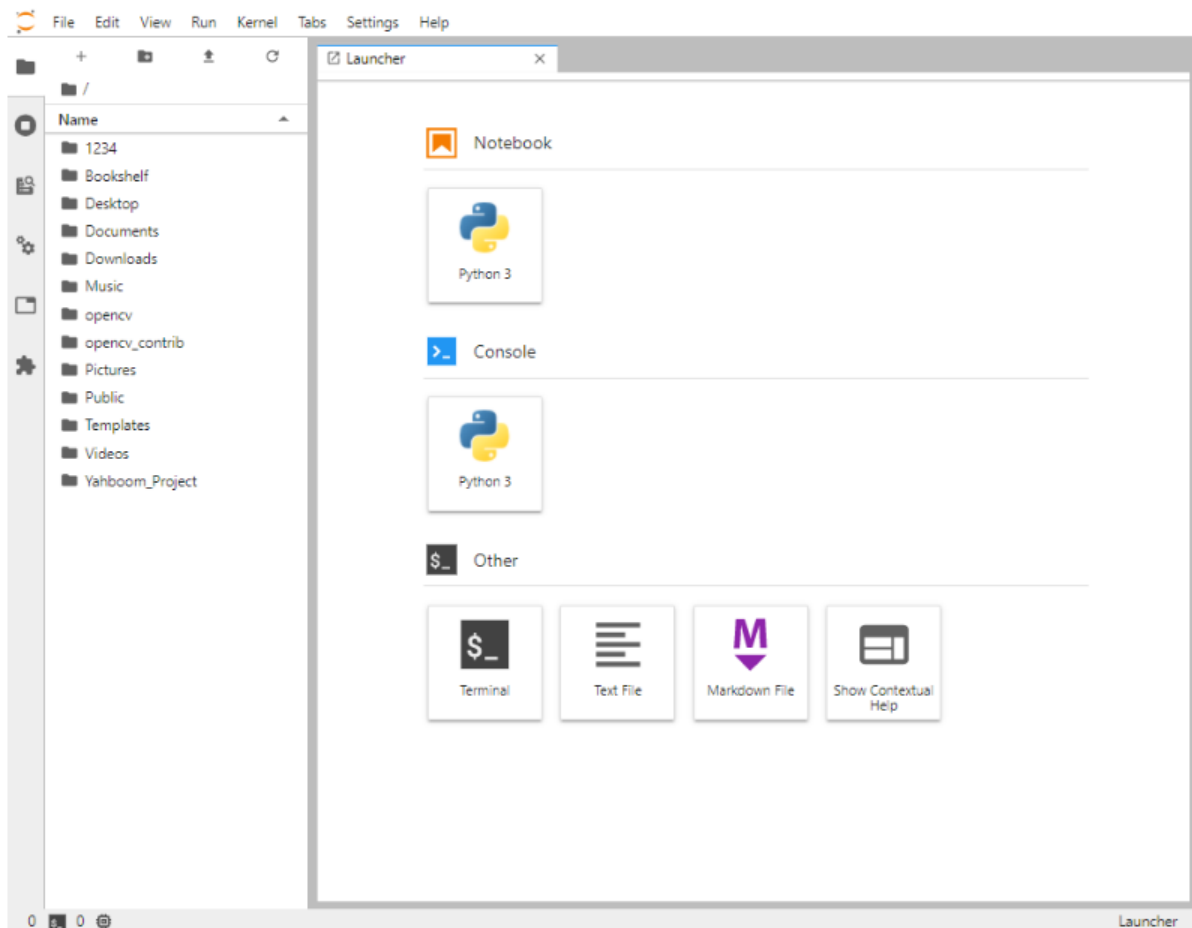
2. Start JupyterLab

Use the following command to start JupyterLab, it will automatically open in your browser.

```
jupyter lab
```

3. Interface Introduction

The JupyterLab interface consists of a [main workspace](#), which contains document and activity tabs, a collapsible [left sidebar](#), and a [menu bar](#). The left sidebar contains the [file browser](#), a [list of running kernels and terminals](#), the [command palette](#), the [notebook cell tool inspector](#), and the [tab list](#).



The menu bar at the top of JupyterLab has top-level menus that expose the actions available in JupyterLab through their keyboard shortcuts. The default menus are:

- **File:** Actions related to files and directories
- **Edit:** Actions related to editing documents and other activities
- **View:** Actions that change the appearance of JupyterLab
- **Run:** Actions for running code in different activities, such as notebooks and code consoles
- **Kernel:** Actions for managing kernels, which are independent processes that run code
- **Tabs:** List of open documents and activities in the dock
- **Settings:** General settings and advanced settings editor
- **Help:** List of JupyterLab and kernel help links

[JupyterLab extensions](#) can also create new top-level menus in the menu bar.

4. Program running

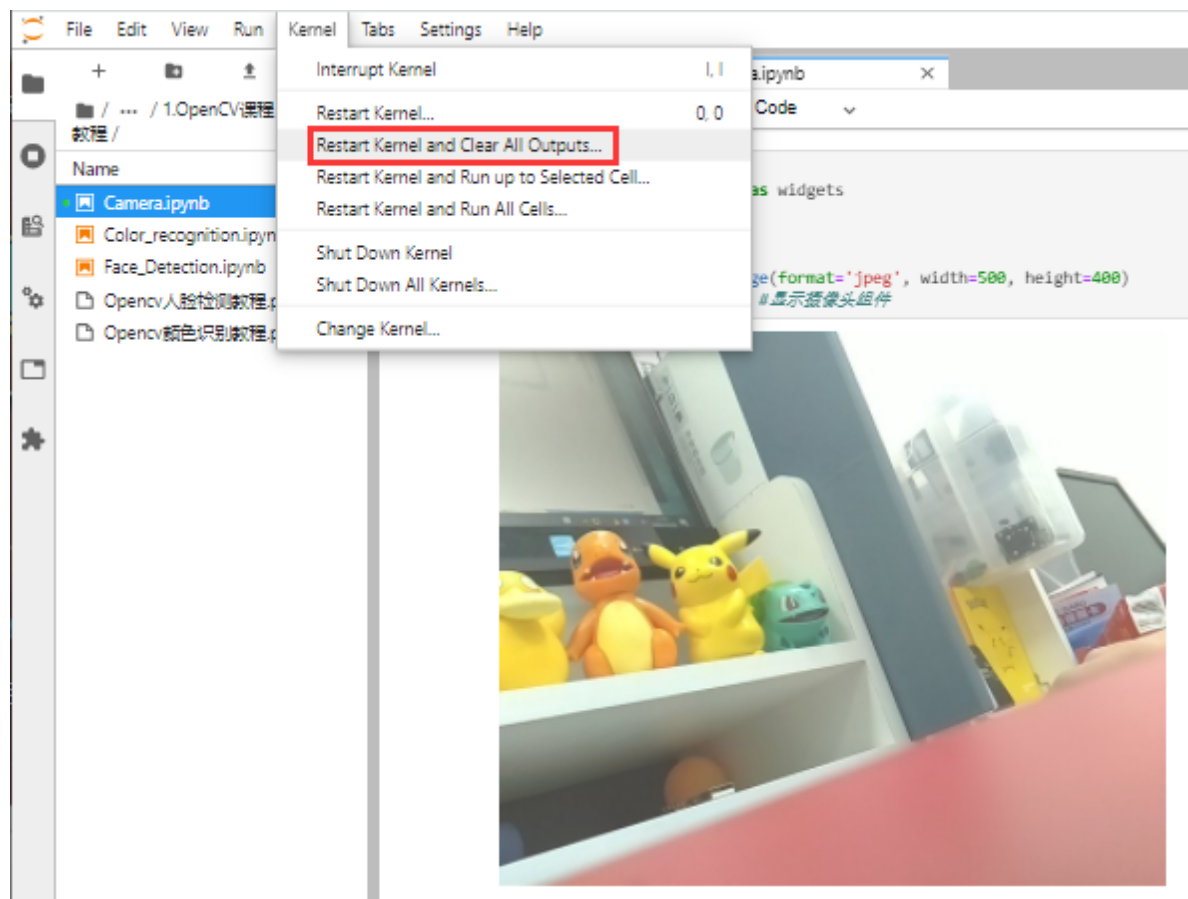
- First select the code block to be run, then click ► in the figure to run the code block directly, ■ means stop the currently executing code block
- There is a [] on the left side of the code block. When it is blank, it means no operation; when it is a number, it means it has been run; when it is '*', it means it is running.

选中需要运行的代码块，再点击此按钮，可以直接运行。
Select the code block you want to run, and then click this button to run it directly.

运行提示：
1. 运行完毕会生成一个数字，代表运行的顺序。
2. 正在运行的程序会有一个[*]表示正在运行该条代码块。

Running tips:
1. After running, a number will be generated to represent the running order.
2. The running program will have a [*] to indicate that the code block is running.

- **Note:** After running the program, you need to clean up the running results, otherwise other programs may not display normal effects or cannot be executed. You can restart the kernel and clear all outputs through this step.



5. Common shortcut keys

1. Edit mode

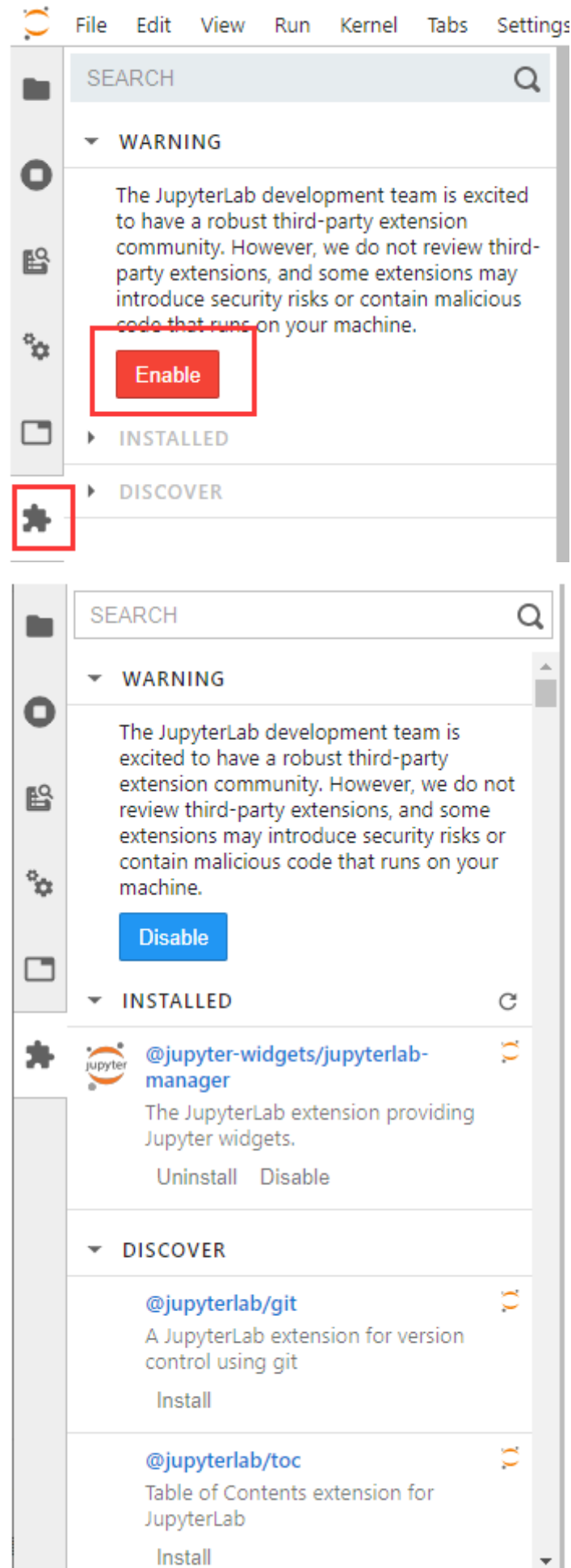
- Esc: Enter command line mode
- Tab: Code completion or indentation
- Shift+Tab: Prompt. View object and function descriptions.
- Ctrl+[, Ctrl+]: Control left and right indents
- Ctrl+D: Delete the entire line
- Ctrl+Enter: Run the selected cell and enter command mode
- Shift+Enter: Run the selected cell and then select the cell below

2. Command mode

- Enter: Enter edit mode
- b: Insert a cell below the current cell
- a: Insert a cell above the current cell
- y: Turn the cell into code
- m: Turn the cell into a label
- d+d: Press d twice to delete the code block
- z: Undo deletion
- s: Save
- Ctrl+Enter: Run the selected cell
- Shift+Enter: Run and select the cell below, if there is no cell below, add a new one

VI. Plugin installation

1. Open the plugin manager in JupyterLab, find Enable and turn it on.



After successful opening, some plug-ins will be displayed and provided for installation.

If you need to install a plug-in, you can search for keywords under Search, and then install the corresponding plug-in. Generally, after the installation is complete, you will be prompted to re-**Build JupyterLab**. This process will be relatively long, and there will be no prompt after success. It is recommended to wait for about 2-3 minutes before re-entering jupyterlab. If there is no prompt **Build JupyterLab**, it means that the build is successful.

After the plug-in is successfully installed, the installed plug-in and plug-in description will be displayed in **INSTALLED**.

The examples on the Jupyter Lab official website are richer, and the usage methods and related explanations are also more accurate. Interested friends can enter and study on their own. Students who are not good at English need to bring their own translation software. The author uses Google Translate, which comes with Google Chrome. Official website: [Jupyter Lab](https://jupyterlab.readthedocs.io/en/latest/user/interface.html)

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