



RC bootcamp RC bootcamp (Reservoir computing; RC) RC RC

## Jupyter Notebook

Python Jupyter Notebook Python Jupyter Notebook

### 1. Google Colaboratory + Google Drive (Google: Colab)

Google Colaboratory (Colab) Jupyter Notebook Jupyter Notebook

numpy matplotlib ( numpy matplotlib )

https://rc-bootcamp.github.io/ Colab

**Google Drive** Google Drive Google Drive

0. Google
1. RC bootcamp (zip)
2. Google drive
3. .ipynb notebook
4. Shift+Enter (Shift+Enter)
5. drive.mount("/content/gdrive") if False: if True: Google Drive (%cd /content/gdrive/My Drive/... )
6. Google Drive Google Drive

5. Google Drive

### 2. uv + VSCode (Google: Colab)

uv VSCode VSCode

Step 1. uv

```
uv python安装完成后，会自动安装uv相关的依赖包（conda安装uv时会自动安装）
```

Linux\MacOS上

安装命令如下：

```
curl -LsSf https://astral.sh/uv/install.sh | sh
```

uv help

显示帮助信息

Windows上

PowerShell上（Windows PowerShell\Windows PowerShell\Windows PowerShell  
命令行界面）安装命令如下：

```
powershell -ExecutionPolicy ByPass -c "irm https://astral.sh/uv/install.ps1 | iex"
```

uv help

显示帮助信息

## Step 2. VSCode上

Visual Studio Code (VSCode) Microsoft公司开发的IDE，可以在Windows\macOS\Linux上运行。要在VSCode上使用uv，需要在VSCode的设置中添加uv的路径。

```
code PATH_TO_DIR
VSCode会自动检测到安装的uv，进入 Extensions 页面，找到 uv，点击 .vscode/extensions.json，VSCode会自动添加uv的路径。
```

## Step 3. 配置VSCode

配置VSCode的Python环境，按 **Ctrl+Shift+@** 打开 Python 环境选择器，选择刚刚安装的uv环境。

```
uv sync
uv.lock 安装完成后，会在当前目录下生成一个 .venv 目录，里面包含Python解释器。Python解释器会自动识别这个目录，按 Ctrl+Shift+p 打开 Python: Select Interpreter，选择刚刚安装的uv环境。
```

□ .venv )□□□□□□□ .ipynb □□□□□□□□□□□□□□□□□□□ Select Kernel □□□□Python Kernel□□□□□□□□□□□□

VSCode Linux MacOS

```
source .venv/bin/activate
```

.venv\Scripts\activate

#### Step 4. 安装VSCode (Windows)

Ruff Python Linting VSCode  
.vscode/settings.json

```
    "notebook.output.wordWrap": true,
    "[python)": {
        "editor.formatOnSave": true,
        "editor.codeActionsOnSave": {
            "source.fixAll": "explicit",
            "source.organizeImports": "explicit"
        },
        "editor.defaultFormatter": "charliermarsh.ruff"
    },
    "notebook.formatOnSave.enabled": true,
    "notebook.codeActionsOnSave": {
        "notebook.source.fixAll": "explicit",
        "notebook.source.organizeImports": "explicit"
    },
    "jupyter.notebookFileRoot": "${fileDirname}",
}
```