

# Jupyter Lab launch

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## Environment description

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### Raspberry Pi 5

```
Image name:
Original system version: 2023-12-05-raspbios-bookworm-arm64
Raspberry Pi system information:
Account: pi
Password:yahboom
WiFi hotspot:
Name: Dofbot
Password: 12345678
Host access jupyterlab:
IP:8888
Docker (Dofbot) corresponds to jupyterlab:
IP:9999
jupyterlab password: yahboom
Environment: Python 3.11.2, Opencv 4.8.1, Docker, Jupyter lab
Function: Enable SSH, VNC, Docker (ROS1-Dofbot, ROS2-Foxy), auto-start hotspot at boot, etc.
```

### Jupyter Lab

Both the Raspberry Pi host and Docker (yahboomtechnology/ros-melodic:dofbot) have Jupyter Lab installed and set to start automatically. The motherboard or devices on the same LAN can access the host Jupyter Lab and the Jupyter Lab in Docker according to different ports.

```
Host Jupyter Lab access:
IP:8888
Docker (yahboomtechnology/ros-melodic:dofbot) jupyterlab access:
IP:9999
jupyterlab password: yahboom
```

For more detailed information, please refer to the tutorial in the [Jupyter lab programming] chapter.

### Jetson motherboard

```
Jetson system information:
Account: jetson
Password:yahboom
WiFi hotspot:
Name: Dofbot
Password: 12345678
Visit jupyterlab:
IP:8888
jupyterlab password: yahboom
Environment: Python, Opencv, Docker, Jupyter lab
Function: Enable SSH, VNC, Docker, auto-start hotspot at boot, etc.
```

## Jupyter Lab

Install Jupyter Lab on the motherboard and set it to start automatically. The motherboard or devices on the same LAN can be accessed through port 8888.

```
visit jupyterlab:  
IP:8888  
jupyterlab password: yahboom
```

For more detailed information, please refer to the tutorial in the [\[Jupyter lab programming\]](#) chapter.