Use JetCam

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Use JetCam

1. JetCam installation

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2.1, CSI camera

Main code explanation

Call the camera

Get the camera image

2.1.1, single-channel camera

2.2, USB camera

References
```

JetCam is an easy-to-use Python library developed by NVIDIA for the Jetson platform, which is used to integrate and operate USB cameras or CSI cameras

1. JetCam installation

```
git clone https://github.com/NVIDIA-AI-IOT/jetcam

cd jetcam

sudo python3 setup.py install

sudo pip3 install ipywidgets
```

```
| Petron@yahboon: -/jetcam | Petron@yahboon: -/j
```

2. JetCam use

JetCam provides typical sample programs to demonstrate the calling of CSI and USB cameras to users.

The example needs to be run using Jupyter Lab. Using our factory image system, you can directly access it through the motherboard IP: 8888!

2.1, CSI camera

Enter the folder where the CSI camera is located on the Jupyter Lab web page and open the corresponding folder:

/home/jetson/jetcam/notebooks/csi_camera

Note: If you are not familiar with Jupyter Lab, you can read the Jupyter Lab tutorial to learn basic operations!

Main code explanation

Call the camera

width: image output width

height: image output height

from jetcam.csi_camera import CSICamera
camera = CSICamera(width=224, height=224)

Get the camera image

image = camera.read()

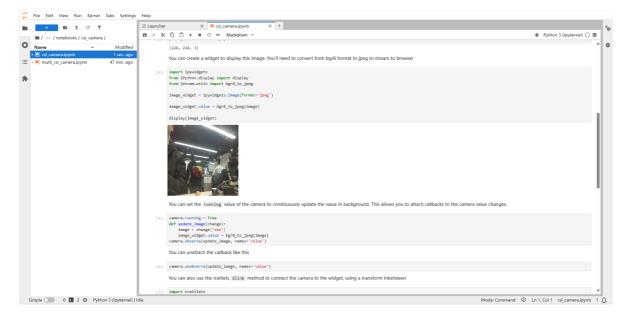
2.1.1, single-channel camera

Source code path

/home/jetson/jetcam/notebooks/csi_camera/csi_camera.ipynb

Running phenomenon

After opening the program file, a single unit block runs from top to bottom:



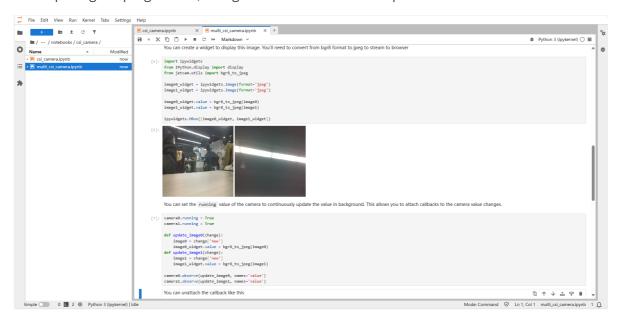
2.1.2, multi-channel camera

Source code path

/home/jetson/jetcam/notebooks/csi_camera/multi_csi_camera.ipynb

Running phenomenon

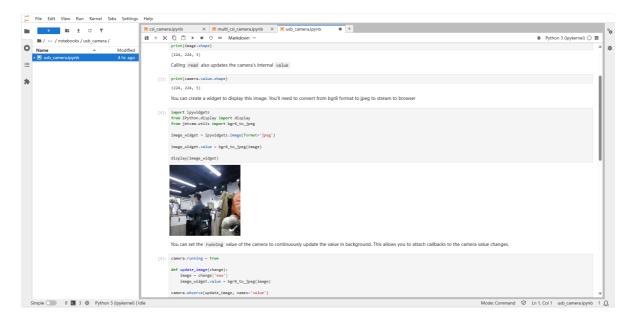
After opening the program file, a single unit block runs from top to bottom:



2.2, USB camera

Jupyter Lab enters the folder where the USB camera is located and opens the file. The factory image system folder path is:

/home/jetson/jetcam/notebooks/usb_camera



References

https://github.com/NVIDIA-AI-IOT/jetcam