

QR code recognition

QR code recognition

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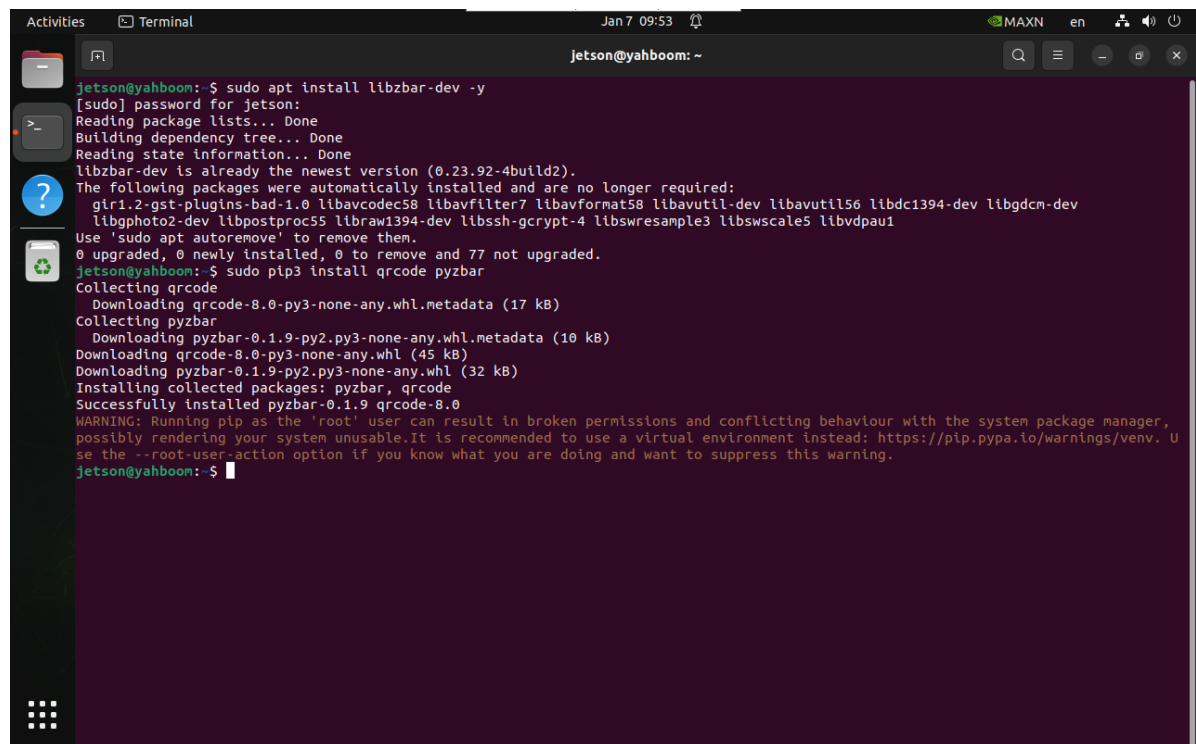
Frequently asked questions

'PIL.Image' has no attribute 'Resampling'

QR code (Quick Response Code) is a matrix barcode composed of squares that can be used to store various information.

1. Install dependencies

```
sudo apt install libzbar-dev -y
sudo pip3 install qrcode pyzbar
```



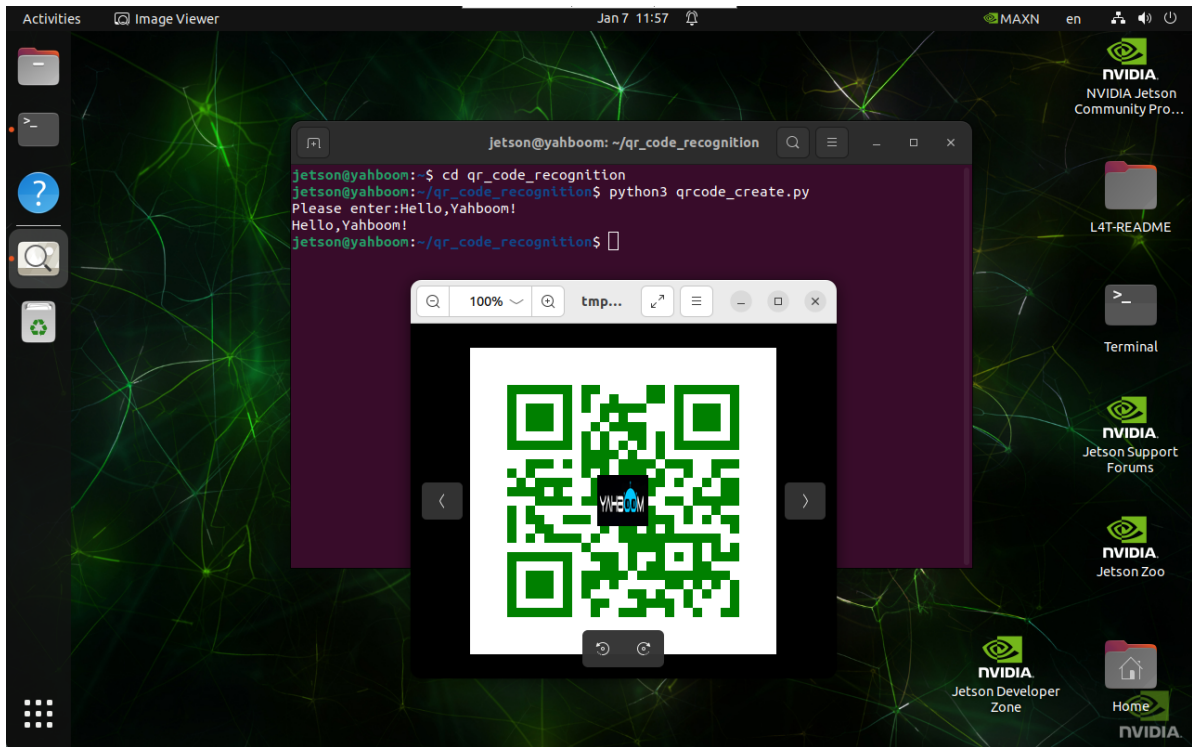
```
Activities Terminal Jan 7 09:53 MAXN en jetson@yahboom: ~
jetson@yahboom:~$ sudo apt install libzbar-dev -y
[sudo] password for jetson:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
libzbar-dev is already the newest version (0.23.92-4build2).
The following packages were automatically installed and are no longer required:
  gir1.2-gst-plugins-bad-1.0 libavcodec58 libavfilter7 libavformat58 libavutil-dev libavutil56 libdc1394-dev libgdkcm-dev
  libgphoto2-dev libpostproc55 libraw1394-dev libssh-gcrypt-4 libswresample3 libswscale5 libvdpau1
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 77 not upgraded.
jetson@yahboom:~$ sudo pip3 install qrcode pyzbar
Collecting qrcode
  Downloading qrcode-8.0-py3-none-any.whl.metadata (17 kB)
Collecting pyzbar
  Downloading pyzbar-0.1.9-py2.py3-none-any.whl.metadata (10 kB)
  Downloading qrcode-8.0-py3-none-any.whl (45 kB)
  Downloading pyzbar-0.1.9-py2.py3-none-any.whl (32 kB)
Installing collected packages: pyzbar, qrcode
Successfully installed pyzbar-0.1.9 qrcode-8.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager,
possibly rendering your system unusable.It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv. U
se the --root-user-action option if you know what you are doing and want to suppress this warning.
jetson@yahboom:~$
```

2. Create a QR code

```
cd ~/qr_code_recognition
```

```
python3 qrcode_create.py
```

After running the command, enter the information hidden in the QR code: The generated image is located in the /home/jetson/qr_code_recognition/figures folder

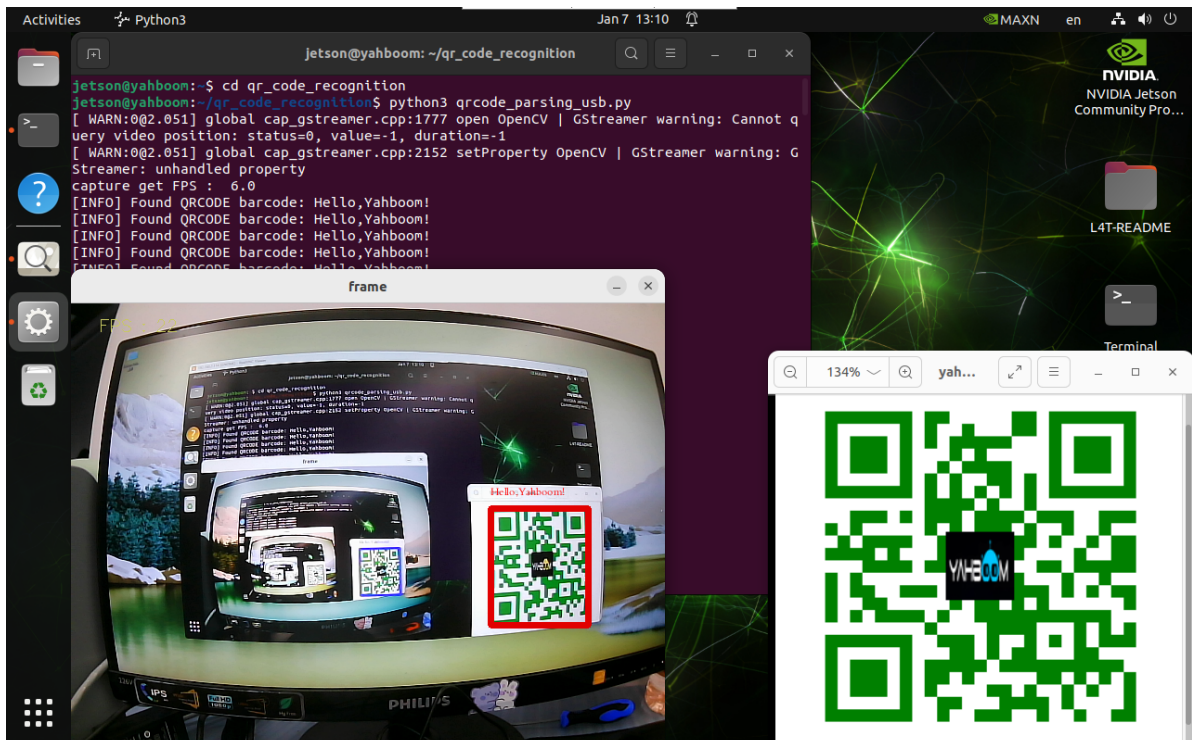


3. Parsing QR code

3.1. USB camera

```
cd ~/qr_code_recognition
```

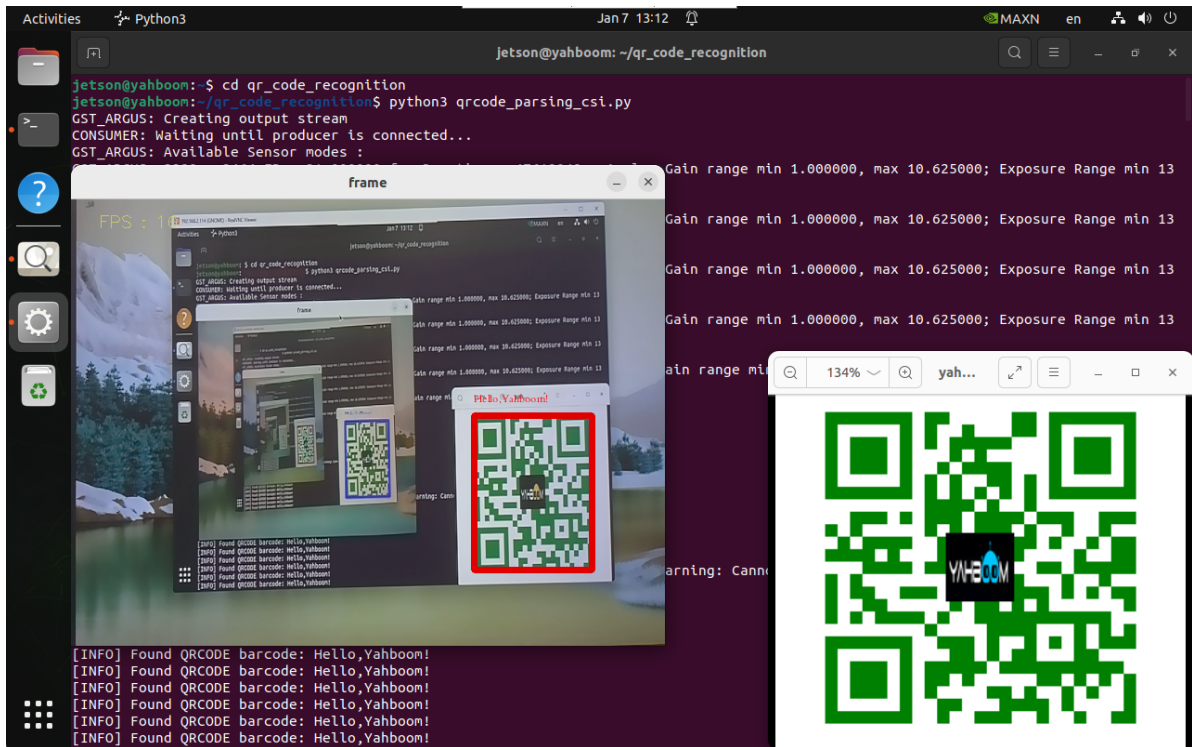
```
python3 qrcode_parsing_usb.py
```



3.2 CSI Camera

```
cd ~/qr_code_recognition
```

```
python3 qrcode_parsing_csi.py
```



Frequently asked questions

'PIL.Image' has no attribute 'Resampling'

```
sudo pip3 install --upgrade pillow
```