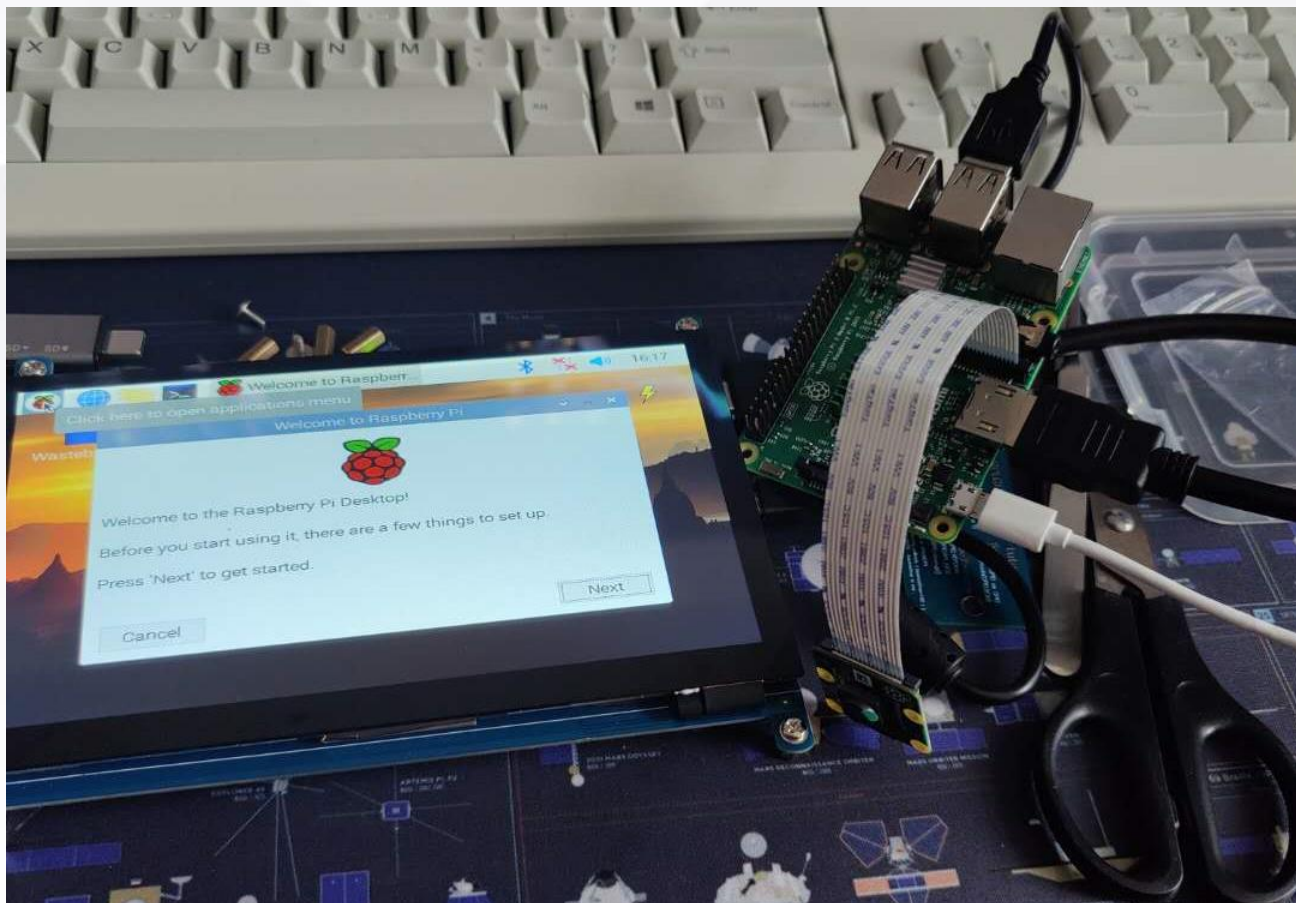


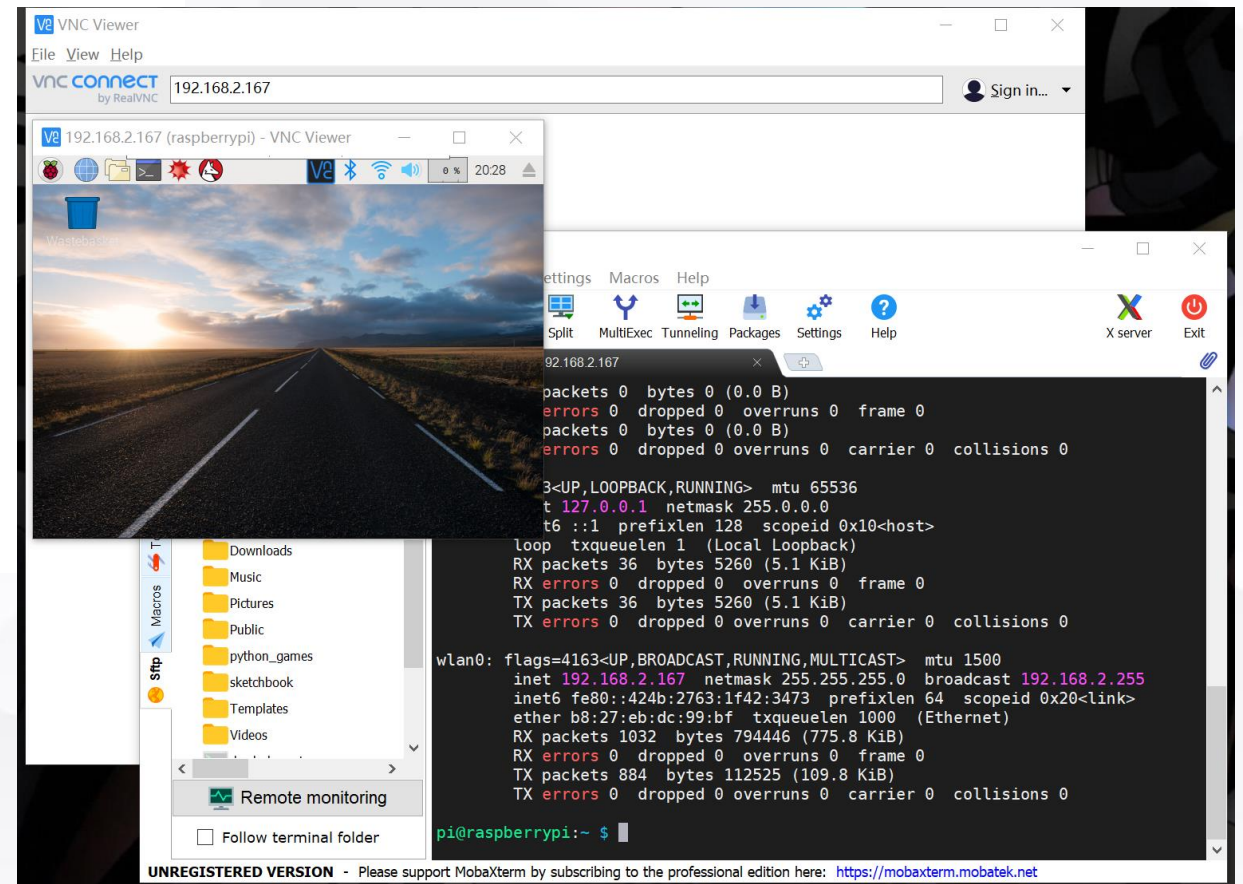
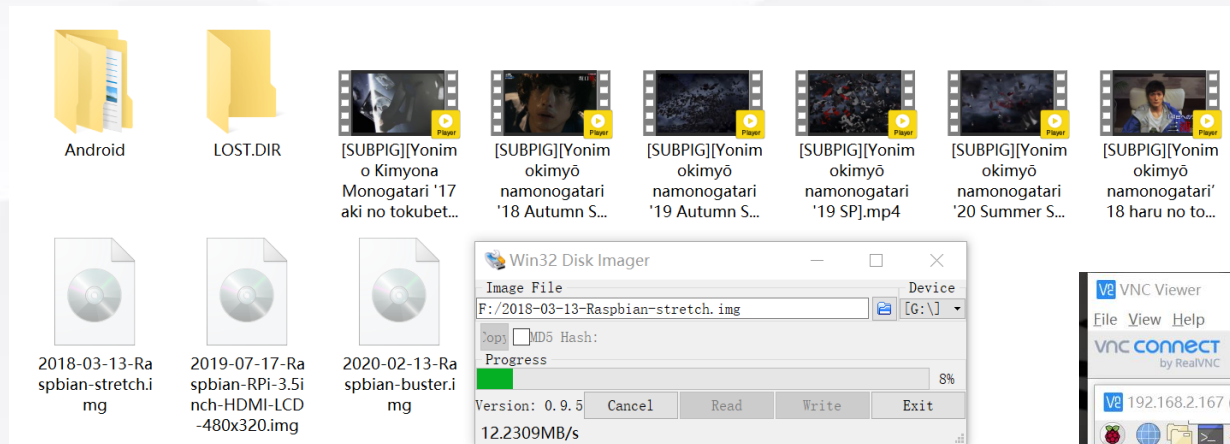
Assessment 3

ADAD3402 Interactive Generative Visualisations

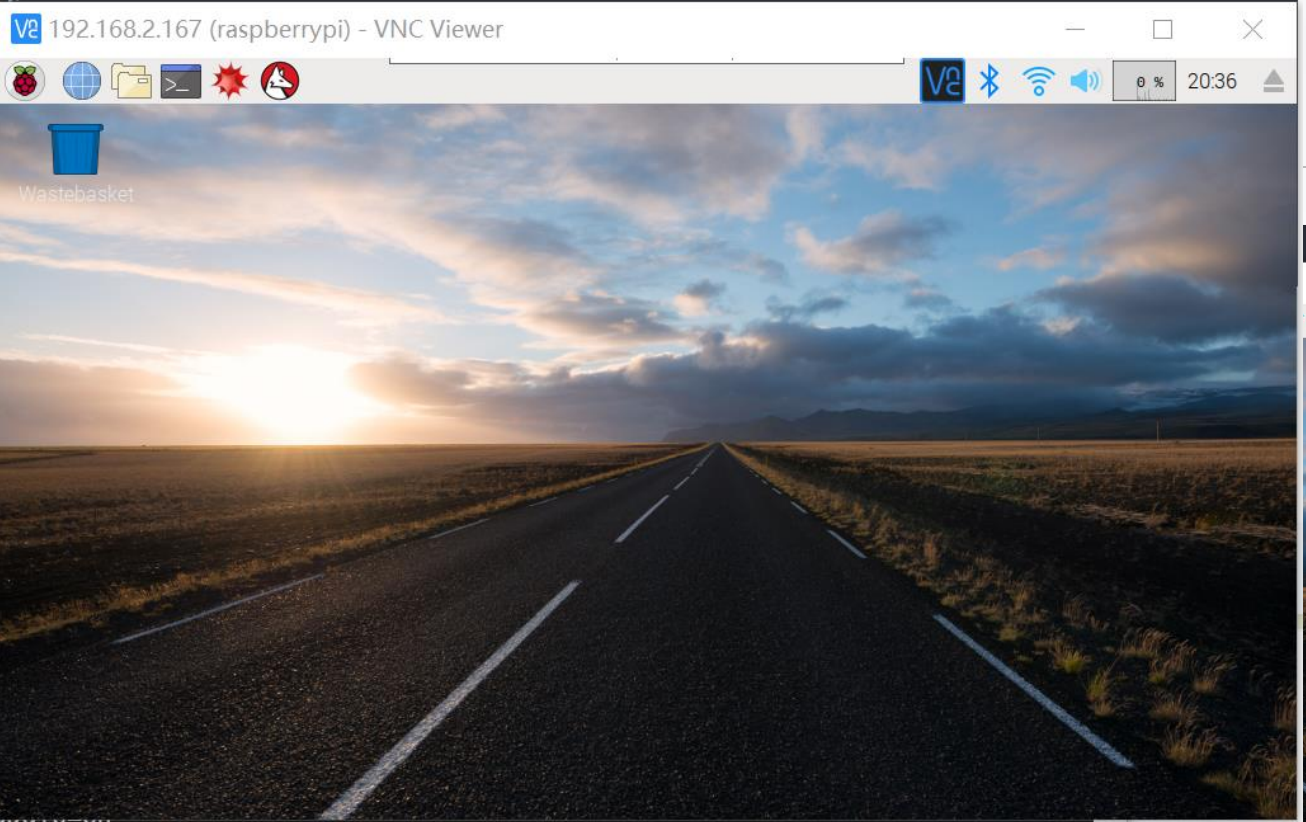
■ z5158177

■ Yicheng PAN






```
1 hdmi_cvt=<width> <height> <framerate> <aspect> <margins> <interlace> <rb>
2 width      width in pixels
3 height     height in pixels
4 framerate   framerate in Hz
5 aspect      aspect ratio
6 margins     0=margins disabled, 1=enabled
7 interlace   0=progressive, 1=interlaced
8 rb          0=normal, 1=reverse
```



192.168.2.167

Terminal Sessions View X server Tools Games

Session Servers Tools Games Sessions View

Quick connect...

/home/pi/

Sessions

- Name
- ..
- .cache
- .config
- .gnupg
- .local
- .processing
- .themes
- .vnc
- Desktop
- Documents
- Downloads

Tools

Macros

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```
GNU nano 2.9.3 /home/pi/.vnc/config

#dtoverlay=vc4-fkms-v3d
# Additional arguments to the X server
# Enable the X server to use the GPU
dtparam=vc4=on

gpu_mem_256=64
gpu_mem_512=128
gpu_mem_1024=256
start_x=1
gpu_mem=128

#
max_usb_current=1
hdmi_group=2
hdmi_mode=1
hdmi_mode=87
hdmi_drive=1
```



12-15

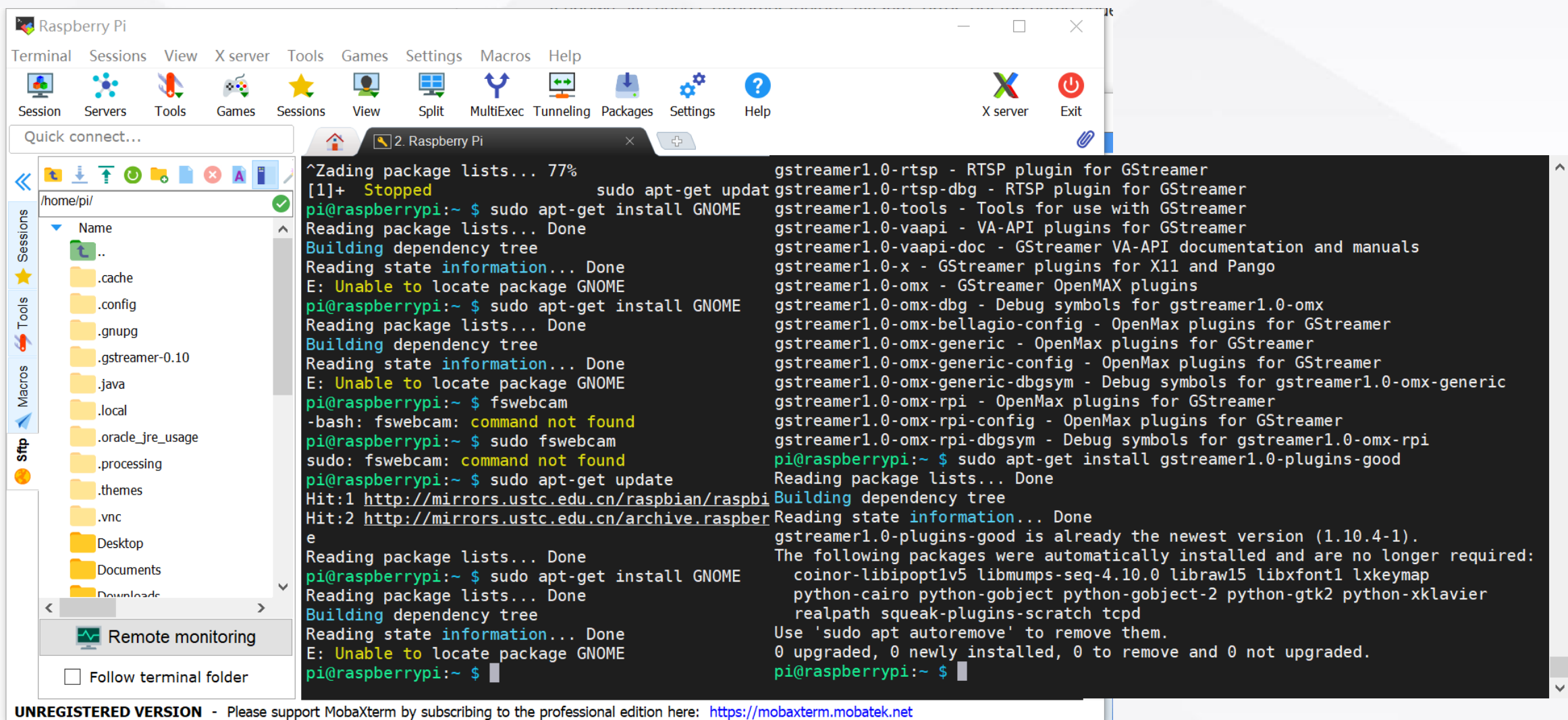
评论

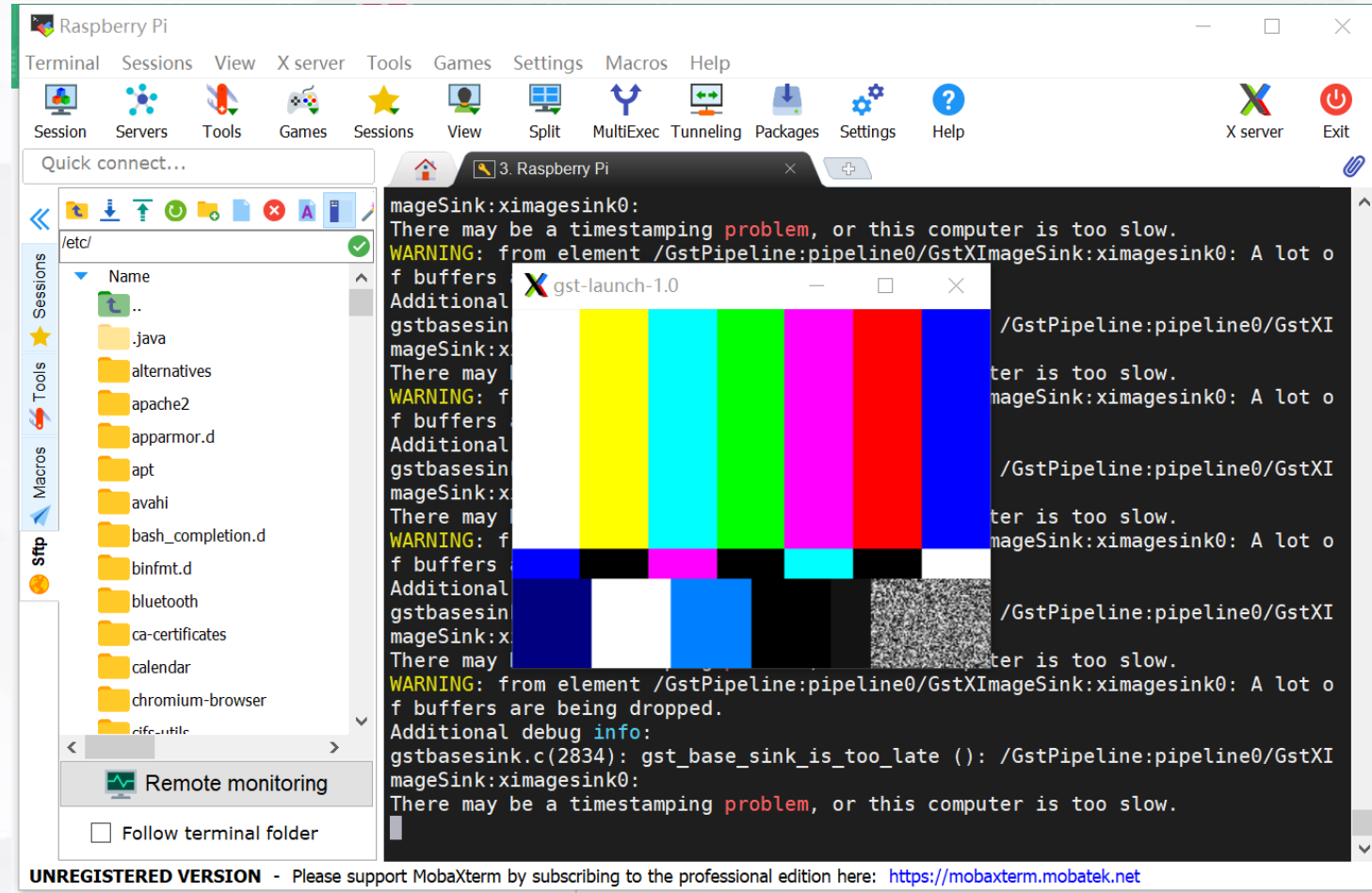
博客 1671

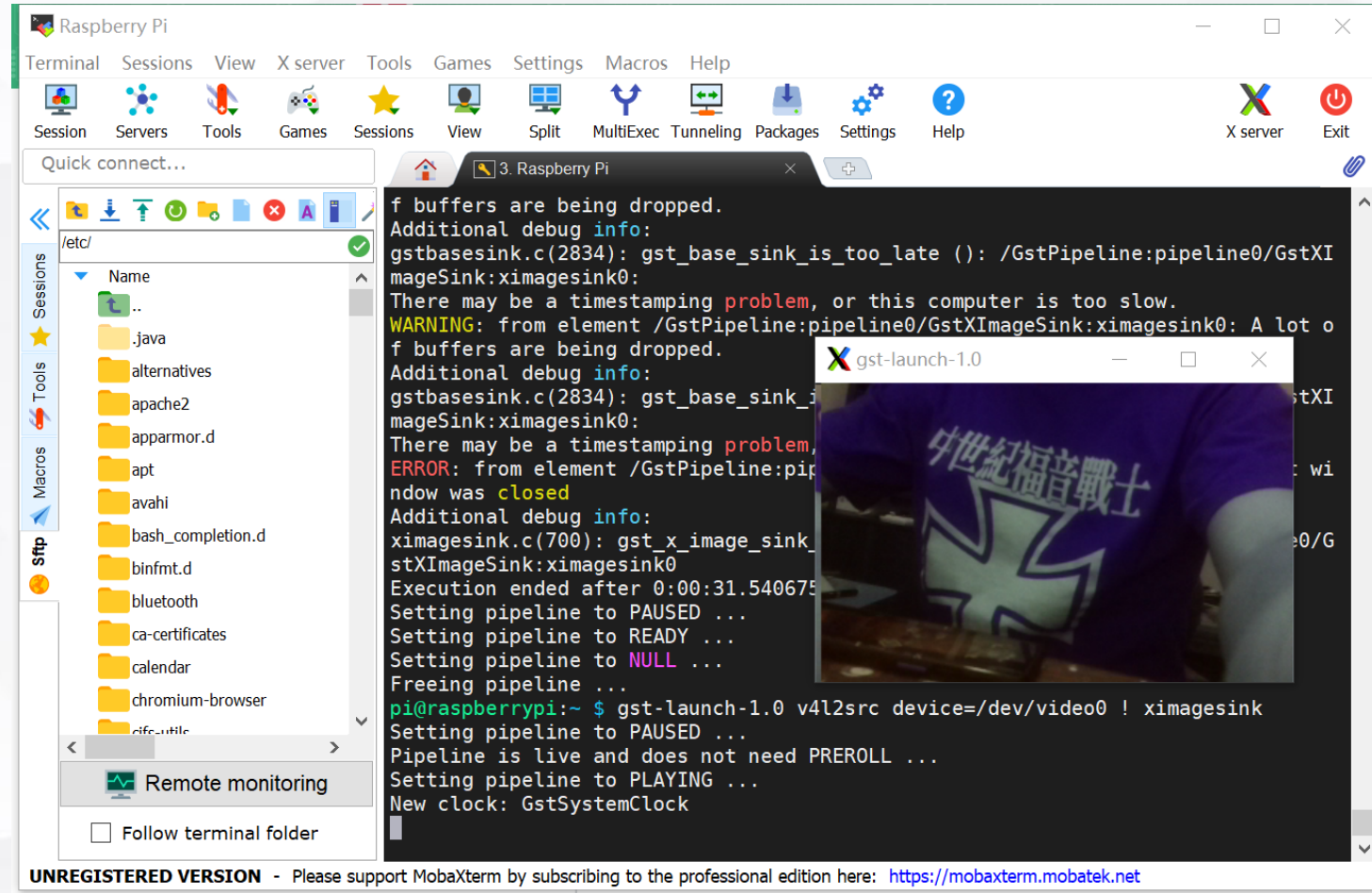
一下自己买...

博客 1009

按Ctrl+O保...







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```
import gohai.glvideo.*;
GLCapture video;

void setup() {
  size(320, 240, P2D);

  // Get the list of cameras
  String[] devices = GLVideo.list();
  println("Devices:");
  printArray(devices);

  // Get the resolution of the first camera
  if (0 < devices.length) {
    String[] configs = GLVideo.getConfigs(devices[0]);
    println("Configs:");
    printArray(configs);
  }

  // this will use the first camera
  video = new GLCapture(devices[0]);

  // you could be more specific
  //video = new GLCapture(devices[0], configs[0]);
  //video = new GLCapture(devices[0], configs[0], configs[1]);
  //video = new GLCapture(this, devices[0], configs[0], configs[1], configs[2]);

  video.start();
}

void draw() {
  background(0);
  // If the camera is sending new data
  if (video.available()) {
    video.read();
  }

  // Copy pixels into a PImage object
  image(video, 0, 0, width, height);
}
```

There are a few important parts of

192.168.2.167 (raspberrypi) - VNC Viewer

sketch_200813a | Processing 3.4

File Edit Sketch Debug Tools Help

Java Examples

Libraries

- DXF Export
- Hardware I/O
- Network
- PDF Export
- Serial
- Video
- Capture
 - AsciVideo
 - BackgroundSub
 - BrightnessThresh
 - BrightnessTrack
 - ColorSorting
 - FrameDifference

Final caps: video/x-raw(memory:GLMemory), width=(int)320, height=(int)240, framerate=(fraction)100/1, format=(string)RGBA, pixel-aspect-ratio=(fraction)1/1, interlace-mode=(string)progressive, texture-target=(string)2D

Console Errors

modes

- MouseParticle
- sketch_200813a
- sketch_200813B
- sketch_200814a
- sketch_200814b
- sketch_200814c
- templates
- tools

Remote monitoring

☐ Follow terminal folder

CONTENTS

Introduction

- Materials
- Using camera with the Pi
- Library
- Texture class
- Cameras connected to
- Camera capabilities
- Setting the desired resolution
- Using the camera
- Image filters with threshold, blur, etc)
- Viewer
- Shaders for improved
- Processing
- Using a shader file
- Shader with camera feed
- Parameters to the shader
- button for shutter
- GL Video library installation and set up
- If using the Pi Camera

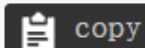
Video library: Capture

If you're receiving the error `IllegalArgumentException: No such Gstreamer factory: v4l2src` with the (regular) Video library, try installing the necessary packages by executing `sudo aptitude install gstreamer0.10-plugins-good` in a terminal.

Alternatively, the [GL Video](#) library also contains some (very limited) functionality for using capture hardware. See [this example](#) for details.

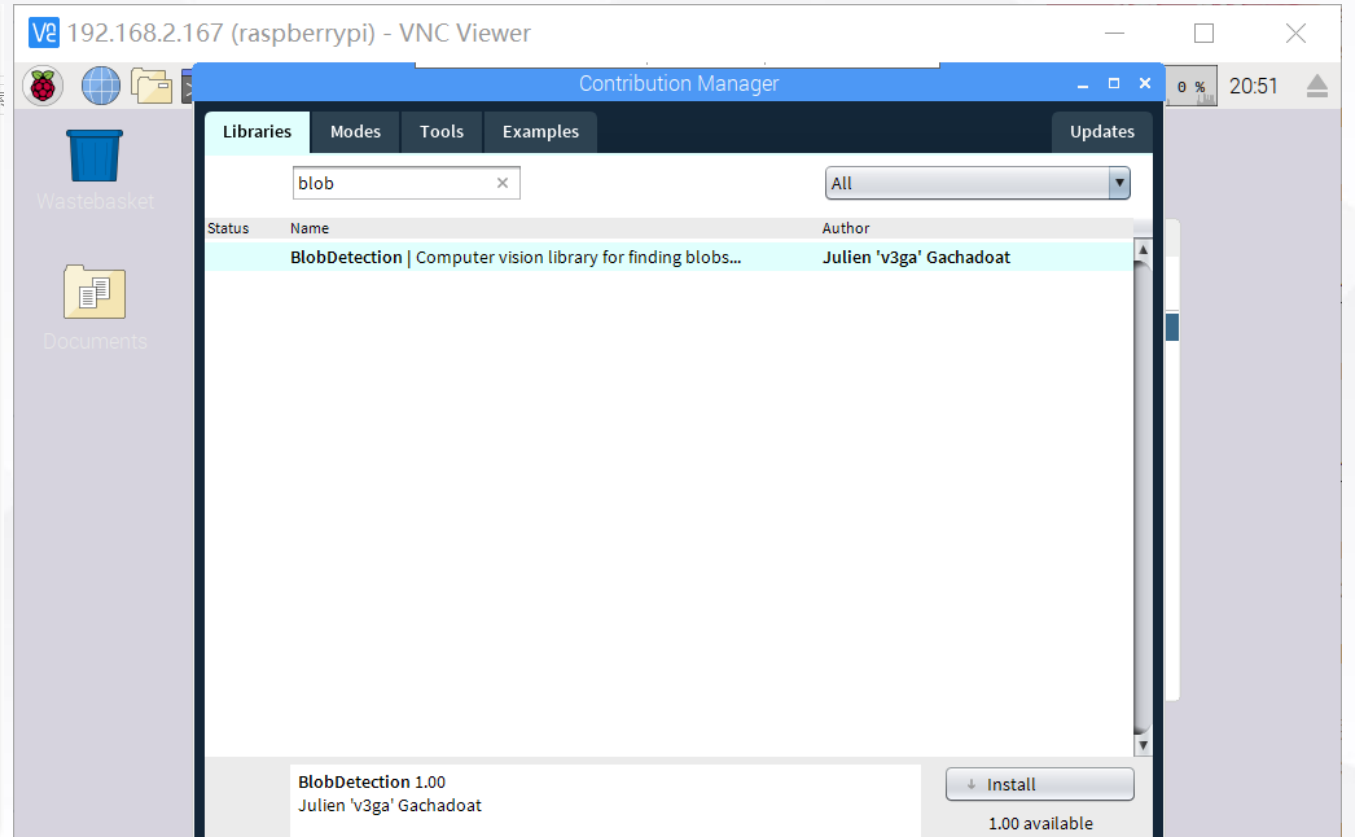
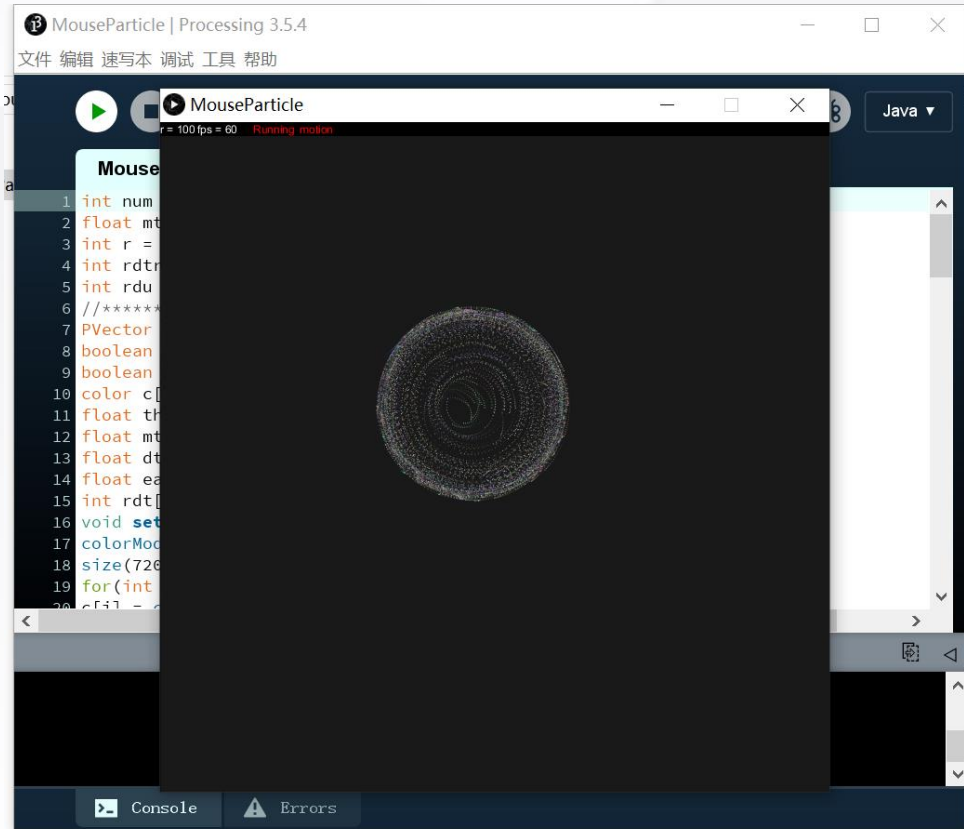
If you want to use the Raspberry Pi camera with the [GL Video](#) library, add the following line to your `/etc/modules` file and reboot:

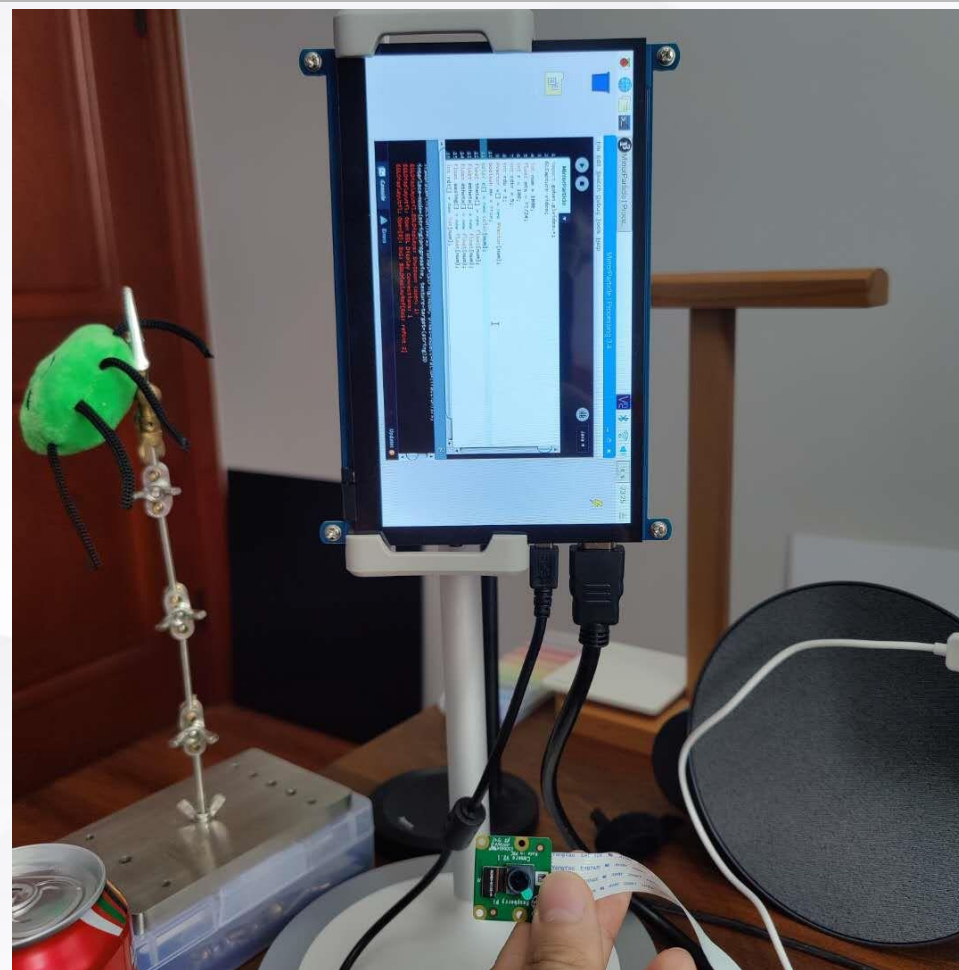
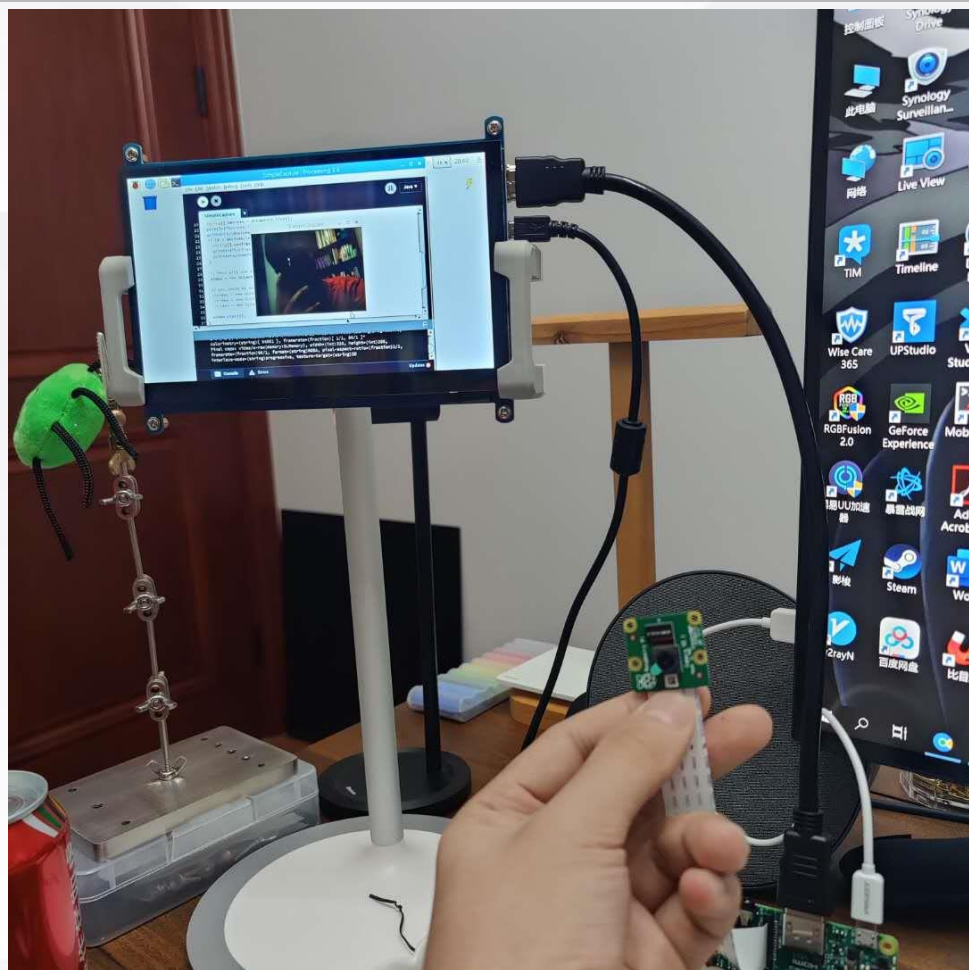
```
bcm2835_v4l2
```

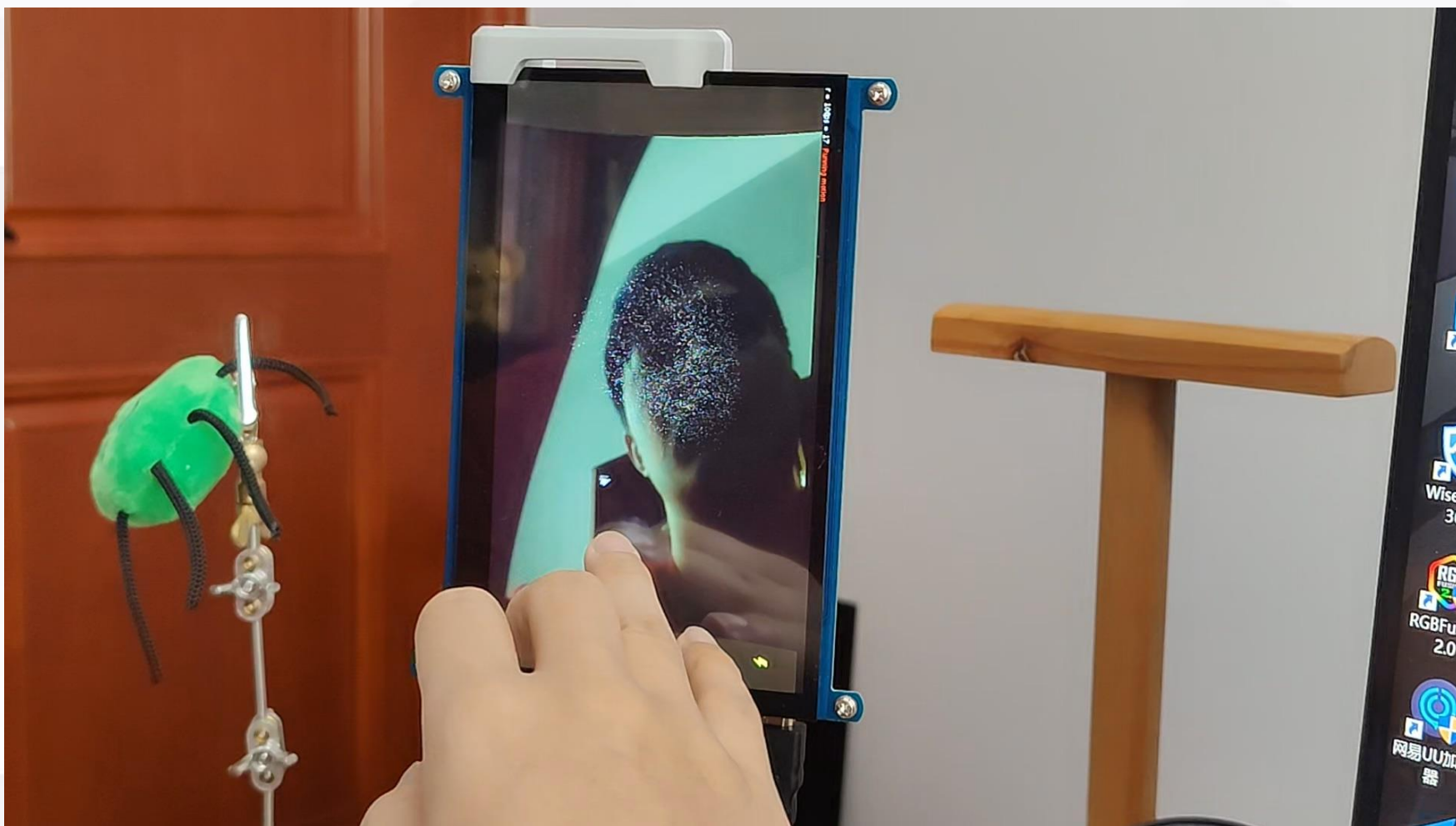


copy

(Note this is a lowercase `L` not a number one.) After the reboot your camera should show up as `/dev/video0`.







THANKS

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