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# Project “Oled”

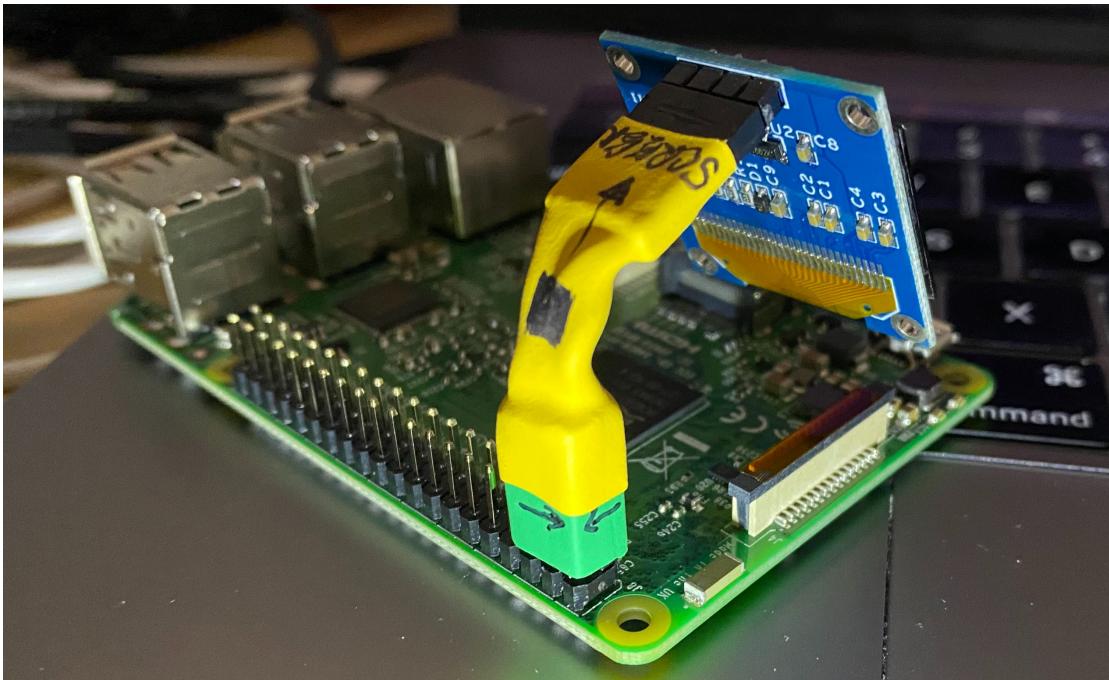
A simple video monitor for your Raspberry Pi

Monitor For Open-Horizon, On Raspberry Pi

Info: <https://github.com/MegaMosquito/oled>

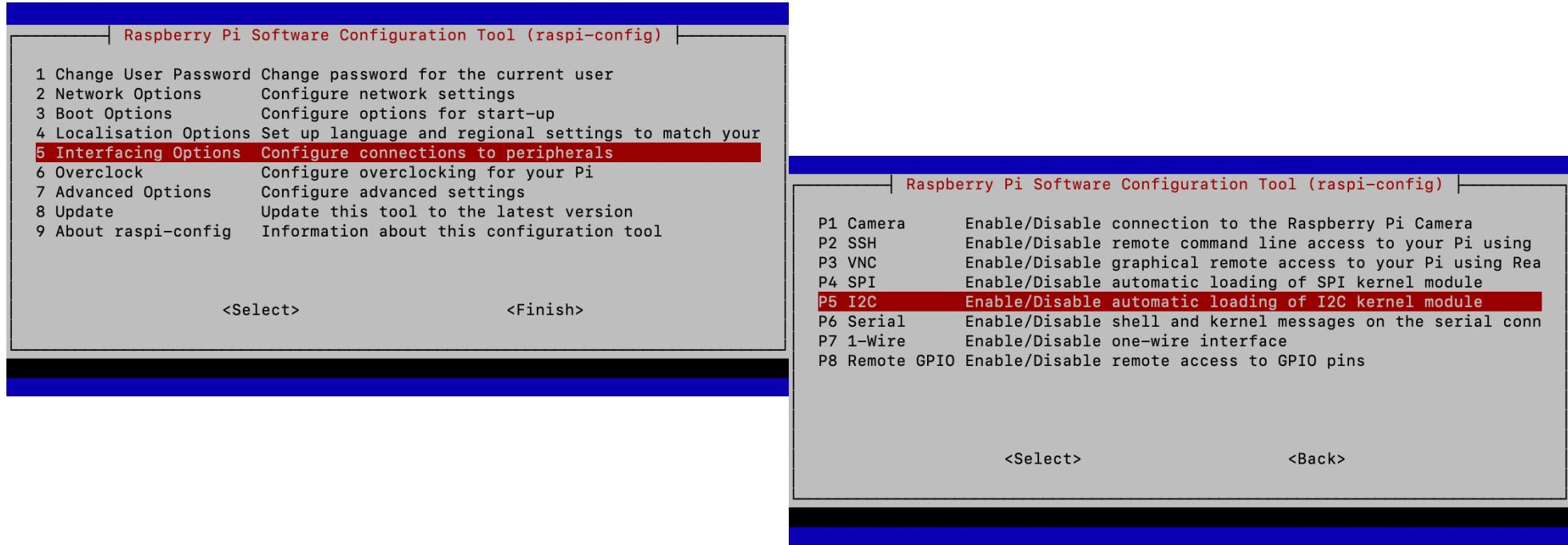
Run: curl -sSL <https://tinyurl.com/oled-sh> | sh

# Hardware Installation



1. Position the 2x3 connector (green end above) at the far corner of the Raspberry Pi's terminal block as shown above. Technically it only uses pins 1,3,5 (3V, SDA, SCL) and pin 6 (GND)
2. Position the 1x4 connector (yellow end above) over the 4 pins of the OLED monitor as shown. The label on the cable should be on top, so the monitor hangs down from that as shown.

# Host Configuration – Enabling I2C



1. Launch the configuration tool, with: `sudo raspi-config`
2. Select `Interfacing Options`, then inside there select `I2C`
3. Select `<YES>`, then select `<FINISH>`, and reboot if instructed to do so

# Host Configuration – Software Installation

1. Install some useful tools:

```
sudo apt update  
sudo apt install -y git curl jq  
curl -sS https://get.docker.com/ | sh
```

2. Get my code:

```
git clone https://github.com/MegaMosquito/oled.git
```

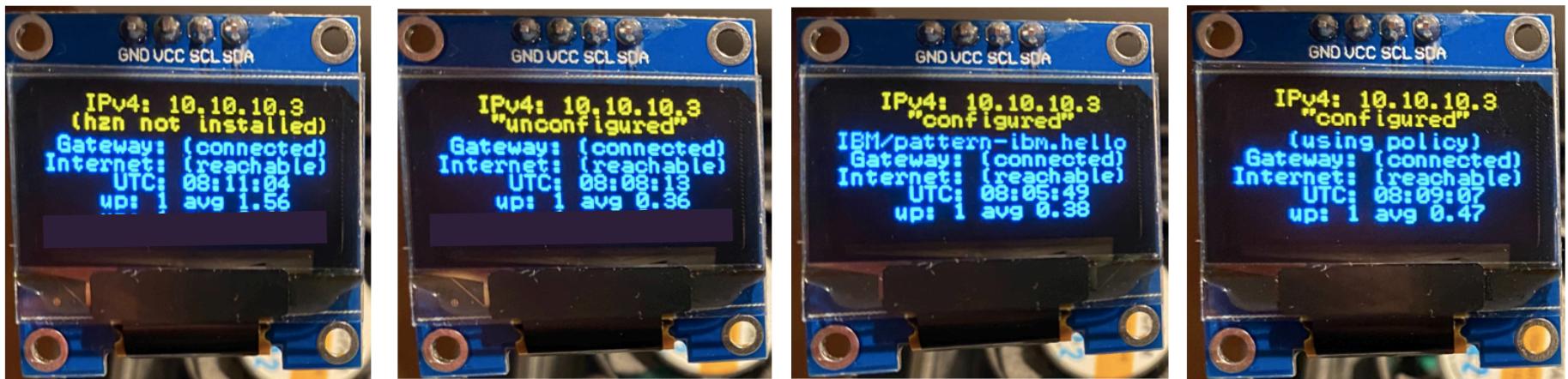
3. Build and run the latest container:

```
cd oled/cv2  
make
```

4. Note:

- The container will automatically restart after reboots/powercycles
- To stop that, run this command: `docker rm -f oled`

# Enjoy



- Output shows default host interface IPv4 address, connectivity to local gateway and the internet (Google), UTC, uptime and current CPU load average.
- Also shown are a few bits of Open-Horizon status on the node, including whether "hzn" is installed, and whether the node is configured or not. When configured, it shows additional details for pattern or policy.