

6. OLED display status

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6.1 OLED related files

In the factory image, the OLED driver file path is as follows:

```
/home/pi/DOGZILLA/app_dogzilla/oled_dogzilla.py
```

Please refer to the specific code content by yourself. In order to avoid abnormal display or the OLED cannot be displayed after booting, please do not modify or move the oled_dogzilla.py file.

The OLED service file path is as follows:

```
/etc/systemd/system/yahboom_oled.service
```

6.2 Manage OLED Services

Open the Raspberry Pi terminal and run the command to manage OLED functions:

Check the status of the OLED service:

```
sudo systemctl status yahboom_oled.service
```

```
pi@yahboom:~$ sudo systemctl status yahboom_oled.service
● yahboom_oled.service - yahboom_oled start service
   Loaded: loaded (/etc/systemd/system/yahboom_oled.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2022-08-10 11:49:49 CST; 3min 51s ago
     Main PID: 1789 (sh)
       Tasks: 5 (limit: 2095)
      CGroup: /system.slice/yahboom_oled.service
              └─1789 /bin/sh -c python3 /home/pi/DOGZILLA/app_dogzilla/oled_dogzilla.py
                 └─1961 python3 /home/pi/DOGZILLA/app_dogzilla/oled_dogzilla.py
                    └─9297 /bin/sh -c free | awk 'NR==2{printf "RAM:%2d%% -> %.1fGB ", 100*($2-$7)/$2,
Aug 10 11:49:49 yahboom systemd[1]: Started yahboom_oled start service.
```

Temporarily stop OLED services:

```
sudo systemctl stop yahboom_oled.service
```

Restart OLED services:

```
sudo systemctl restart yahboom_oled.service
```

Permanently close the self-starting OLED service:

```
sudo systemctl disable yahboom_oled.service
```

Self-start OLED service at boot:

```
sudo systemctl enable yahboom_oled.service
```

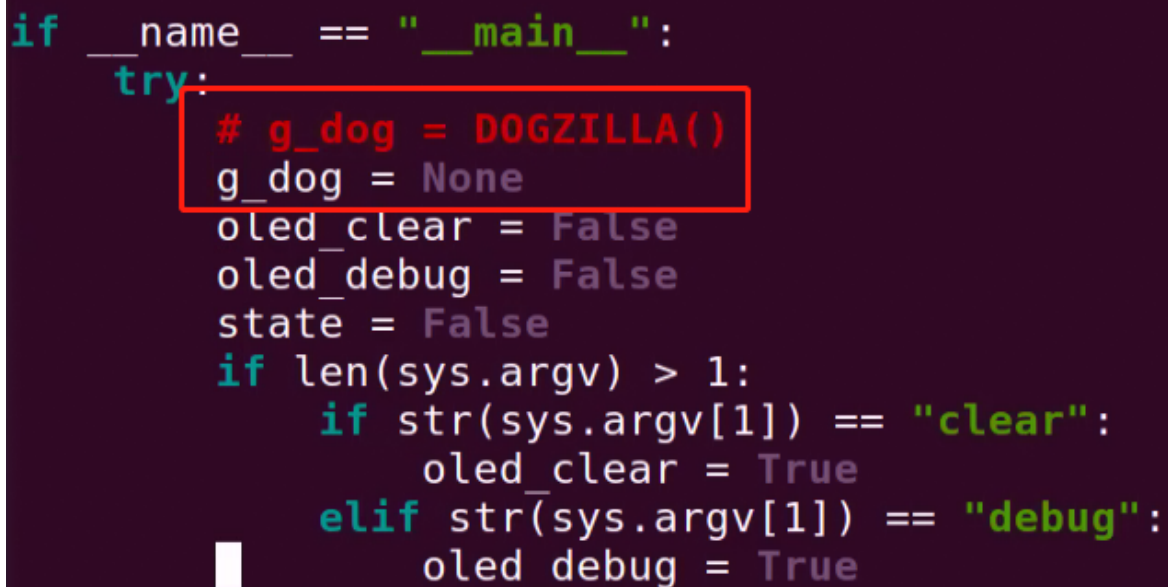
6.3 About voltage display

Since the OLED refreshes the internal battery voltage value of the robot dog every three seconds, it takes a certain time for the serial port to read the battery voltage. It does not affect at present. In the subsequent development process, if you find that the OLED refresh voltage every three seconds affects the function of the robot dog to read other data, please manually modify `oled_dogzilla.py` to not refresh the voltage.

Open the terminal and run the following command:

```
nano /home/pi/DOGZILLA/app_dogzilla/oled_dogzilla.py
```

Pull to the bottom, as shown in the figure below, and change the `g_dog` object to `None`.



```
if __name__ == "__main__":
    try:
        # g_dog = DOGZILLA()
        g_dog = None
        oled_clear = False
        oled_debug = False
        state = False
        if len(sys.argv) > 1:
            if str(sys.argv[1]) == "clear":
                oled_clear = True
            elif str(sys.argv[1]) == "debug":
                oled_debug = True
```

Then restart the OLED service.