

Raspberry Pi OS Lite to desktop

Raspbian OS the one that has the default PIXEL Desktop has been the Official OS for the Raspberry Pi. If I am understanding it correctly, it is now called Raspberry Pi OS. I am not sure if this means anything, other than a name change. Raspberry Pi OS is still a Debian port. Debian is what I like on my Linux Microcontrollers. I have put several Linux OS on all for versions of the Raspberry Pi. I normally just use the Raspbian OS with the default Desktop. Because I like plain old Debian I wonder if you could put the default OS and add normal debian desktop to it. So, investigated it and the answer was yes.

Here is what I did:

1. Install Raspberry Pi OS Lite on a SD memory card with Raspberry Pi Imager.
2. Insert the SD into the Raspberry Pi.
3. Boot up and login with default.

Normal stuff new installs:

4. `sudo apt update`
5. `sudo apt upgrade`
6. `sudo apt dist-upgrade`
7. `sudo reboot`

Xorg:

8. `sudo apt install xserver-xorg`

XFCE for my Raspberry Pi 3:

9. `sudo apt install xfce4 xfce4-terminal`

MATE for my Raspberry Pi 4:

9. `sudo apt install mate-desktop-environment-core`

LightDM on both Raspberry Pi 3 and 4:

10. `sudo apt install lightdm`
11. `sudo reboot`

Installing More Applications

Synaptic:

12. `sudo apt install synaptic`

Chromium:

13. `sudo apt install chromium-browser`

Mathematica:

14. `sudo apt install wolfram-engine`

Editors

Geany:

1. `sudo apt install geany`
2. check for g++ version
3. `g++ --version`

IDLE3:

4. `sudo apt install idle3`
5. check for python 3 version
6. `python3`

Python 3:

1. `sudo apt install python3-pip`
2. `sudo pip3 install matplotlib` (not working?)
3. `sudo pip3 uninstall matplotlib`