## How to Install Raspberry Pi OS To Your SD Card

A short story by: Marvin J. Maldonado

## What you need:

- •Class 10 microSD card, min 16GB
  - laptop/computer
    internet access
- 1. Download the custom image file prepared for this training:
  - a. <u>https://drive.google.com/drive/folders/11FSoKnUBWq9BKxfAUm2jTEG9iUqF5pXC?usp=sharing</u>
    - b. The image file is called "MESA-Pi.zip"
    - c. It's about a 3.1GB file and will probably take between 15-30 minutes to download depending on your network. You can go to steps 2-3 while you're waiting. *NOTE: You do not need to unzip the image when it's fully downloaded. These instructions assume you leave it in the .zip format.*
- 2. Download the Raspberry Pi Imager software
  - a. https://www.raspberrypi.org/software/
  - Scroll about halfway down and you'll see the options for downloading the correct version for your operating system. Usually, the browser will recognize this automatically for you.
- Download and install Raspberry Pi Imager to a cor

MESA Pi Training

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Download and install Raspberry Pi Imager to a computer with an SD card reader. Put the SD card you'll use with your Raspberry Pi into the reader and run Raspberry Pi Imager.

Download for macOS

• USB SD card reader/writer

My Drive >

MESA-Pi.zip 🚢

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• Instagram account (more on this later)

Download for Ubuntu for x86

- c. When the download is complete, find it in your downloads folder (or wherever you designate downloads to go). Open the file and complete the installation process.
- 3. This step is completely optional: if you're still waiting for the SD image to download and have some time to burn, check out **@the\_mayan\_foodie** on Instagram to see all of his foodie shenanigans during Covid lockdown.
- 4. Ok back to our regular programming...next you will 'flash' the microSD card with the image file you downloaded.
  - a. Connect the microSD card to your computer using a USB card reader/writer. These are samples:





- b. Locate that file in your downloads folder or wherever your downloads usually go.
- c. Open the Raspberry Pi Imager.
- 5. Under Operating System, click 'Choose OS'.
  - a. Scroll all the way down until you see the 'Use custom' option. Click and locate the image file, then click Open.



- 6. Under SD Card, click 'Choose SD Card'.
  - a. You should see your microSD card as a generic storage device. Select the card.

| ••                              | Raspberry Pi Imager v1.3  |       |
|---------------------------------|---------------------------|-------|
| Operating System<br>MESA-PI.ZIP | SD Card<br>CHOOSE SD CARD | WRITE |

| ••• | Raspberry Pi Imager v1.3   |   |
|-----|--|---|
|     | SD Card  | x |
| Ŷ   | Generic STORAGE DEVICE Media - 15.9 GB<br>Mounted as /Volumes/boot |   |
|     | $\overline{\nabla}$  |   |
|     |  |   |
|     |  |   |
|     |  |   |
|     |  |   |
|     |  |   |

7. Now you can click on Write to begin the 'flashing' process. This will take several minutes so feel free to go back to the\_mayan\_foodie's shenanigans.

| Raspberry Pi Imager v1.3 |                    |              | Raspberry Pi Imager v1.3 |             |              |
|--------------------------|--------------------|--------------|--------------------------|-------------|--------------|
| <b>K</b> aspberry Pi     |                    | Raspberry Pi |                          |             |              |
| Operating System         | SD Card            |              | Operating System         | SD Card     |              |
| MESA-PI.ZIP              | GENERIC STORAGE DE | WRITE        | MESA-PI.ZIP              |             |              |
|                          |                    |              |                          | Writing 72% | CANCEL WRITE |

- 8. After the writing process is complete, it will automatically start the 'Verify' process. It's important that you resist every urge to cancel verification so let it also complete.
- 9. Once Write and Verify are complete, you'll get a message telling you that your card is ready to be used with your Raspberry Pi!

| Raspberry Pi Imager v1.3 |  | •••           |               | Raspberry Pi Imager v1.3                                    |                  |  |  |  |
|--------------------------|--|---------------|---------------|---|------------------|--|--|--|
|                          | <b>The second seco</b> |               |               |   | Write Successful | x                                      |  |  |
|                          |  |               |               | MESA-PLZIP has been written to Generic STORAGE DEVICE Media |                  |  |  |  |
|                          | Operating System   | SD Card       |               |   | You car          | now remove the SD card from the reader |  |  |
|                          |  |               |               |   |                  | CONTINUE                               |  |  |
|                          |  | Verifying 99% | CANCEL VERIFY |   |                  |  |  |  |

10. Tune in to the training for next steps on setting up your Pi with the card and other peripherals.

This is the end of our story....for now...