

Objective: Install Raspberry Pi operating system—Raspbian OS with NOOBS.

Parts:

- RPi 3 B
- Any computer with a USB port
- MicroSD card(at least above 8GB in size)
- MicroSD card reader

Part A: There are several ways to install Raspbian OS on RPi. Today, we will be using NOOBS.

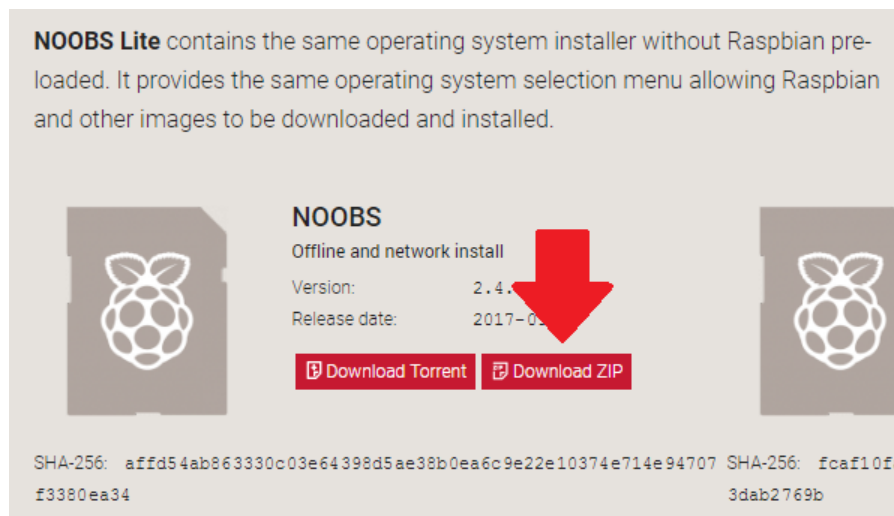
Step 1. Insert MicroSD card into MicroSD card reader and plug the reader into an USB adapter. Then insert it onto the USB port on your computer.



Step 2. Visit <https://www.raspberrypi.org/downloads/>. It will display a box with a link to the NOOBS files. Click on the icon to go to that link.

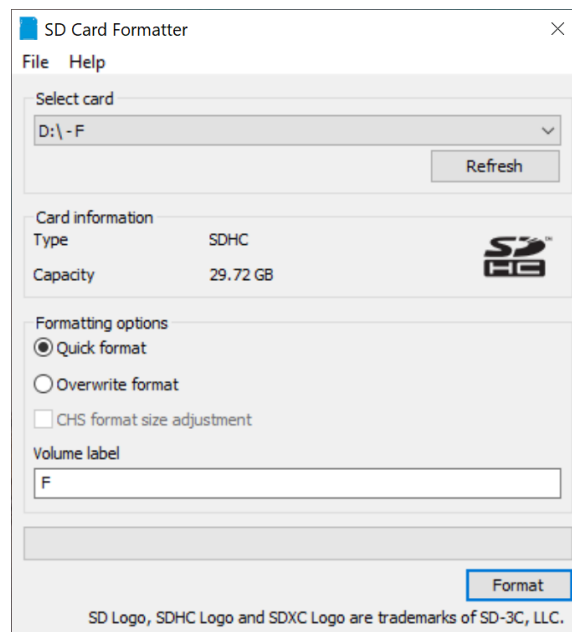


Step 3. The simplest option is to download the zip archive of the files.



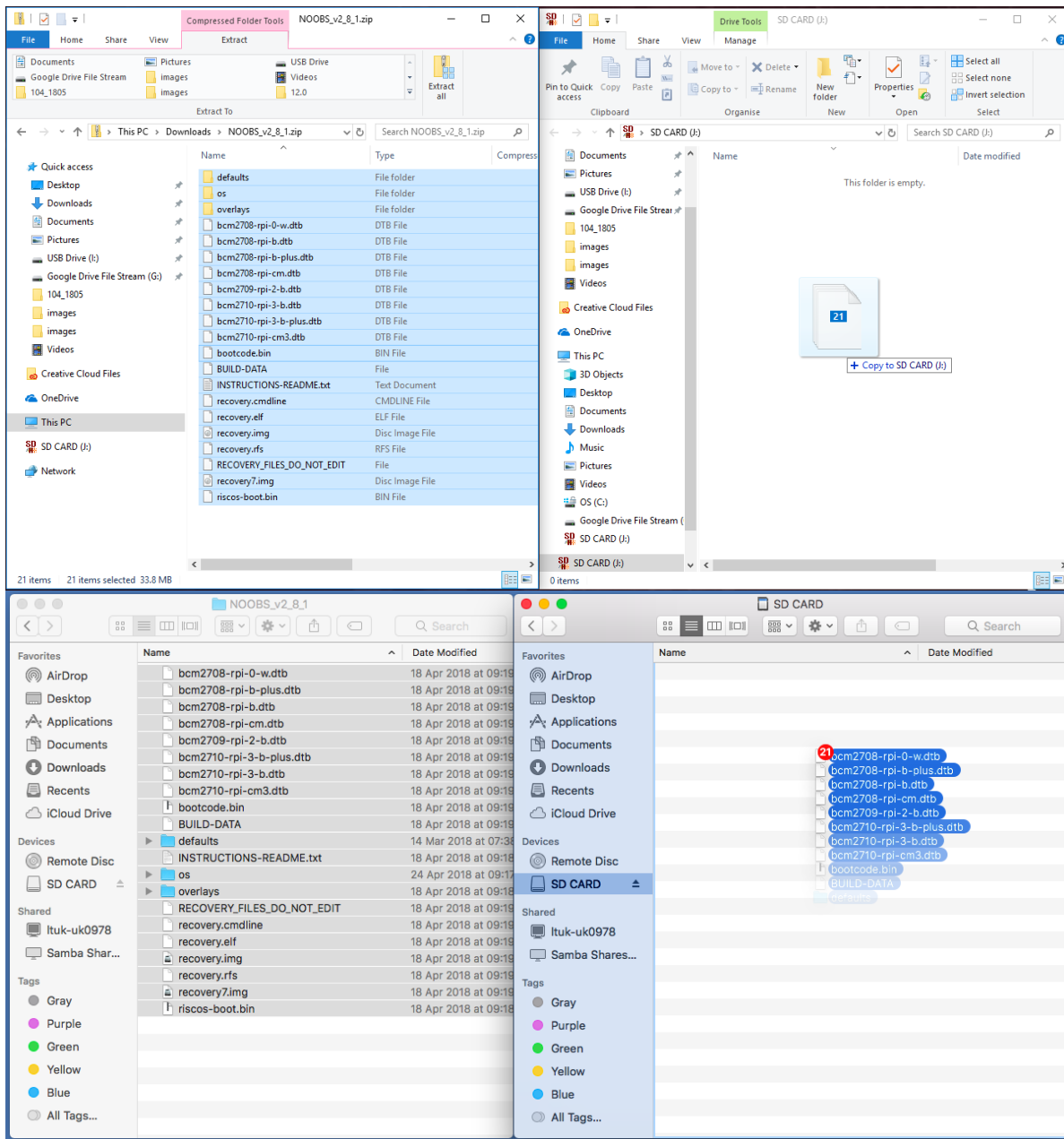
Step 4. Format the MicroSD card. It's a good practice to always format your card before trying to install an OS on it because you will never know whether there will be any leftover files on it. Visit the SD Association's website (https://www.sdcard.org/downloads/formatter_4/index.html) and download the latest version of SD Formatter for Windows or Mac. Follow the instructions to install the software.

Step 5. In SD Formatter, select the driver letter for your SD card, and format it.



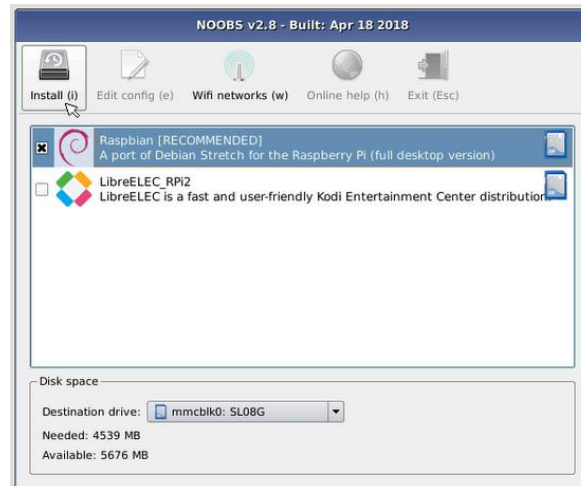
Step 6. Next, find the NOOBS zip archive you just downloaded from the RPi website. Extract the files and keep the resulting Explorer/Finder window open.

Step 7. Now, open another Explorer/Finder window and navigate to the SD card. Select all the files from the NOOBS folder and drag them onto the SD card.

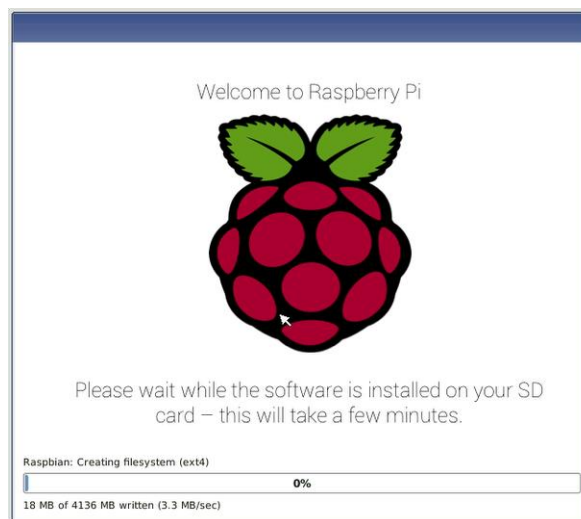


Step 8. Eject the SD card from your computer. Insert the micro-SD card into your RPi and plug the Pi into a power source. Your RPi should be booting up right after you plug into a power source.

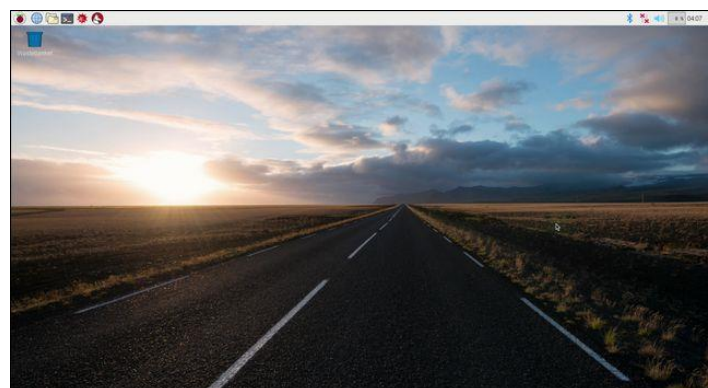
Step 9. A window will prompt when the installer has loaded automatically. Check the box for **Raspbian** and then click **Install** on the top left-hand side of the window.



Step 10. Click **Yes** at the warning dialog, and then sit back and relax. It will take a while depends on what kind of SD card you have.



Step 11. When Raspbian has been installed, click **OK** and your RPi will restart and Raspbian OS will boot up. Congratulation! You just install Raspbian OS on your RPi.



Step 12. Finish the follow-up tutorial in the "Getting Started with the RPi.docx".