

# Raspberry Pi My Setup

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## Set Up – Preparation

### A) Prepare SD Card

Used “SDFormatter” on San Disk memory card. Mine was 64 Gig.

[https://www.sdcard.org/downloads/formatter\\_4/](https://www.sdcard.org/downloads/formatter_4/)

**NOTE:**

Windows

The standard formatting tools built into Windows are limited, as they only allow partitions up to 32GB to be formatted as FAT32, so to format a 64GB partition as FAT32 you need to use a third-party formatting tool. A simple tool to do this is [FAT32 Format](#) which downloads as a single file named `guiformat.exe` - no installation is necessary.

Run the [SD Formatter](#) tool first to ensure that any other partitions on the SD card are deleted. Then run the FAT32 Format (`guiformat.exe`) tool, ensure you choose the correct drive letter, leave the other options at their default settings, and click "Start". After it has finished, you can proceed with the rest of the [NOOBS instructions](#).

If the FAT32 Format tool doesn't work for you, alternative options are [MiniTool Partition Wizard Free Edition](#) and [EaseUS Partition Master Free](#) which are "home user" versions of fully featured partition editor tools, and so not as straightforward to use.

I discovered that using NOOBS was easier than using Image Writer or ETCHER.

## B) NOOBS Method: NOOBS:

<https://www.youtube.com/watch?v=iJbjAJpJA84>

- a. Prepare the SD Memory card as above.
- b. Download the operating system:  
<https://www.raspberrypi.org/downloads/noobs/>
- c. Extract the files from the zip directly to the new SD Card.
- d. Insert the SD Card in the Raspberry Pi and follow the instructions.
  - i. It will install the software and boot up
  - ii. Choose the country and language.
  - iii. Choose the time zone, etc.
  - iv. It will need a Wi-Fi network connection.
  - v. It will automatically update the software and ask to reboot.

## C) Image Writer/ETCHER Method:

- a. Obtain Raspberry Pi operating system  
<https://www.raspberrypi.org/downloads/raspbian/>
- b. Transferred 2017-01-11-raspbian-jessie.img to SD Card using “Image Writer”.  
<https://sourceforge.net/projects/win32diskimager/>
- c. Or Use [ETCHER](#) instead of “Image Writer”.

DONE with DISK basic setup

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## Favorite Commands:

- 1) Sudo apt-get update
- 2) Sudo apt-get upgrade
- 3) Sudo apt-get autoremove
- 4) Sudo nano ----file name and path such as /dev/myfile

## Other Useful commands

sudo i2cdetect -y 1        --- shows what is attached to the I2C bus  
sudo nano xxxxx        --- edit file xxxxx  
sudo reboot  
sudo date -s “6 Oct 2017 18:00:00”  
sudo hwclock -r        --- read real time clock

sudo hwclock -w --- write date/time to real time clock  
 cd --- change directory  
 ls --- list directory  
 sudo apt-get --- get/download app.

	Raspberry Pi	Raspberry Pi 2	Raspberry Pi 3
Released	February 2012	February 2015	February 2016
CPU	ARM1176JZF-S	ARM Cortex-A7	ARM Cortex-A53
CPU speed	700MHz single core	900MHz quad core	1,200MHz quad core
RAM	512MB 256MB Rev 1	1GB	1GB
GPU	Broadcom Videocore IV	Broadcom Videocore IV	Broadcom Videocore IV
Storage	SDHC slot MicroSDHC Model A+ and B+	MicroSDHC slot	MicroSDHC slot
USB Ports	2 on Model B	4	4
WiFi	No built-in wifi	No built-in wifi	802.11n and Bluetooth 4.1