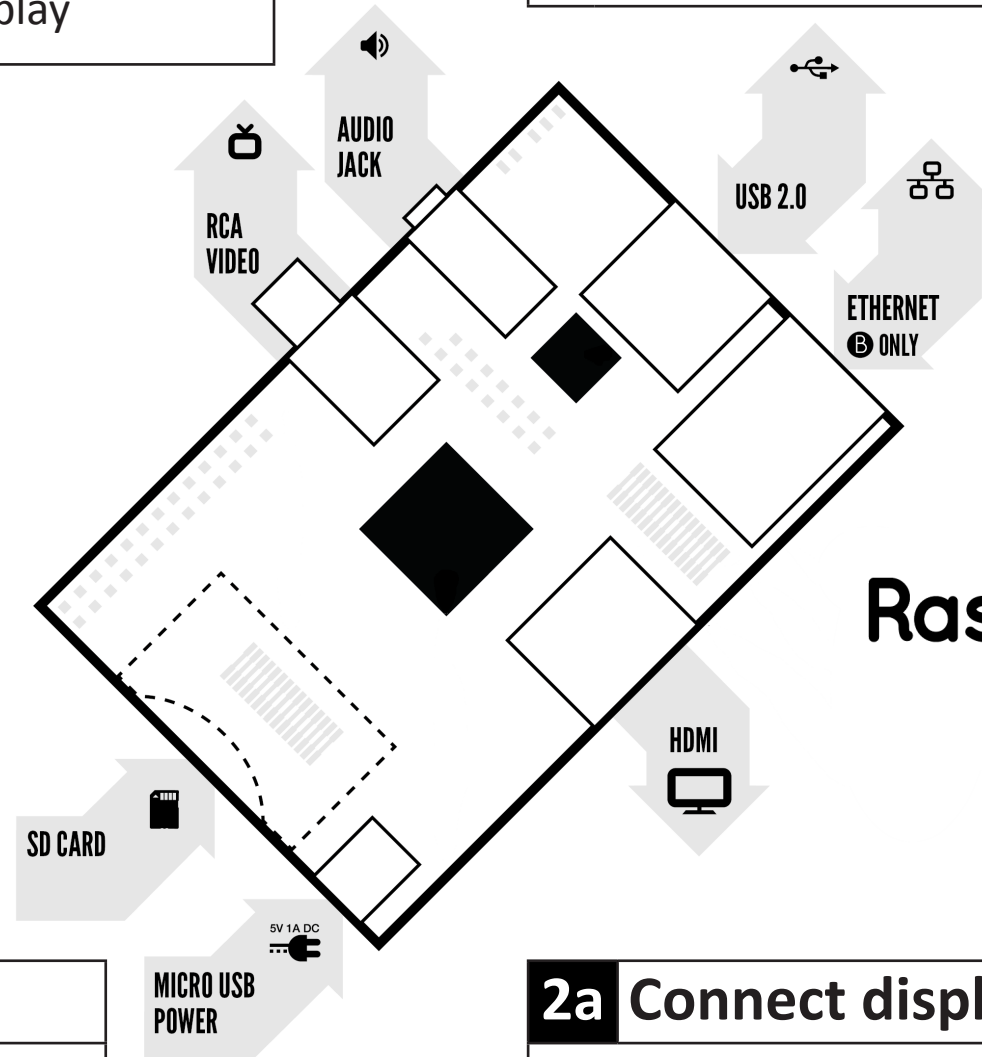**2b** **Connect display**

If *not* using HDMI, plug in your analogue TV or display

3 **Connect input**

Plug in a USB keyboard and mouse

4 **Connect network**

Connect to your wired network [optional]
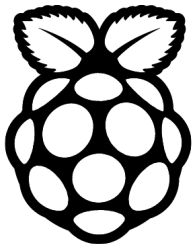
1 **Insert SD card**

See page 3 for how to prepare the SD card

5 **Power up**

Plug in the micro USB power supply

2a **Connect display**

Plug in your digital TV or monitor

AUDIO JACK

RCA VIDEO

USB 2.0

ETHERNET Ⓑ ONLY

HDMI

SD CARD

5V 1A DC

MICRO USB POWER

Raspberry Pi
Quick start

2b	RCA video lead	• A standard RCA composite video lead to connect to your analogue display if you are not using the HDMI output.
3	Keyboard and mouse	• Any standard USB keyboard and mouse should work. • Keyboards or mice that take a lot of power from the USB ports, however, may need a powered USB hub. This may include some wireless devices.
4	Ethernet (network) cable [optional]	• Networking is optional, although it makes updating and getting new software for your Raspberry Pi much easier.
5	Power adapter	• A good quality, micro USB power supply that can provide at least **700mA at 5V** is essential. • Many mobile phone chargers are suitable—check the label on the plug. • If your supply provides less than 5V then your Raspberry Pi may not work at all, or it may behave erratically. Be wary of very cheap chargers: some are not what they claim to be. • It does not matter if your supply is rated at *more* than 700mA.
6	Audio lead [optional]	• If you are using HDMI then you will get digital audio via this. • If you are using the analogue RCA connection, stereo audio is available from the 3.5mm jack next to the RCA connector.

Know your leads:

HDMI connector

HDMI to DVI lead

RCA composite video connector

    ii. Install and run the Formatting Tool on your machine

    iii. Set "FORMAT SIZE ADJUSTMENT" option to "ON" in the "Options" menu

    iv. Check that the SD card you inserted matches the one selected by the Tool

    v. Click the "Format" button

  b. **Mac**

    i. Download the SD Association's Formatting Tool from
https://www.sdcard.org/downloads/formatter_4/eula_mac/

    ii. Install and run the Formatting Tool on your machine

    iii. Select "Overwrite Format"

    iv. Check that the SD card you inserted matches the one selected by the Tool

    v. Click the "Format" button

  c. **Linux**

    i. We recommend using `gparted` (or the command line version `parted`)

    ii. Format the entire disk as FAT

3. Download the New Out Of Box Software (NOOBS) from:

downloads.raspberrypi.org/noobs

4. Unzip the downloaded file
   a. **Windows** - Right click on the file and choose "Extract all"
   b. **Mac** - Double tap on the file
   c. **Linux** - Run `unzip` [downloaded filename]
5. Copy the extracted files onto the SD card that you just formatted
6. Insert the SD card into your Pi and connect the power supply

Your Pi will now boot into NOOBS and should display a list of operating systems that you can choose to install. If your display remains blank, you should select the correct output mode for your display by pressing one of the following number keys on your keyboard;

1. **HDMI** mode - this is the **default** display mode.
2. **HDMI safe** mode - select this mode if you are using the HDMI connector and cannot see anything on screen when the Pi has booted.
3. **Composite PAL** mode - select either this mode or **composite NTSC mode** if you are using the composite RCA video connector
4. **Composite NTSC** mode

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