Operating Systems

The vast majority of modern computer has an operating system, or OS. For most home PC users this is some flavour of Microsoft Windows. At the time of writing Windows 7 and 8 are currently the most popular and but a sizable majority are sticking with the now-unsupported Windows XP and plans are afoot for the successor to Windows 8, the oddly (well, evenly) numbered Windows 10. Rumour has it that some version of Windows 10 will run on the Raspberry Pi 2, so no doubt this chapter will see frequent revision in the months and years to come.

Raspbian (WHO)

Raspbian is an open source distribution (distro) and like any large piece of software it was developed through collaborative endeavour. Raspbian is a fork of Debian, which is one of the most popular Linux distros for home users. The maintainers of Raspbian...

Raspbian (WHAT)

Raspbian includes all the command you need to communicate directly with the hardware of your Pi. With this level of power comes a degree of responsibility you can, with very little effot, delete every file from your computer. To mitigate against this the default user account does not have unlimited privileges. The operating system is what allows you to use peripherals connected to the USB ports, output information to a monitor or sounds through the audio jack. It is also the OS that allows applications, such as text or image editors, to communicate with and store files on the SD card or external media.

Raspbian (WHEN)

When you boot tou Pi for the first time with a new SD card in it you will be prompted to choose an OS to install. This is a semi permanent operation, as whatever OS you choose will now be installed on the SD card and can only be replaced by fully formatting the card and going through the set-up prtocedure again.

Raspbian (WHERE)

Runs from the SD card, much like portable Linux which can run from a USB stick.

Raspbian (WHY)

Why not? Raspbian has been specifically developed for the Raspberry Pi. It is easy to use and has everything you need to get started right out of the box. In addition, it is trivial to customise the look and feel of Raspbian and to install more applications.

Raspbian (HOW)

Walk through.

Using the raspi-config tool