NOTES BOX *for* Raspberry Pi
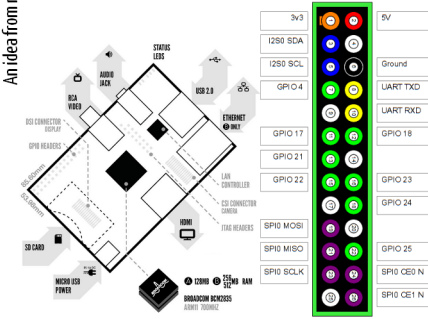
An idea from misapuntesde.com

Raspberry Pi and their logo are trademark from Raspberry Pi Foundation

3v3				5V
I2S0 SDA				
I2S0 SCL				Ground
GPIO 4				UART TXD
				UART RXD
GPIO 17				GPIO 18
GPIO 21				
GPIO 22				GPIO 23
				GPIO 24
SPIO MOSI				
SPIO MISO				GPIO 25
SPIO SCLK				SPIO CE0 N
				SPIO CE1 N

Copy OS to SD-card (goo.gl/7V8nw)

Easy way:
Windows - Win32DiskImager
Linux - Fedora ARM Installer
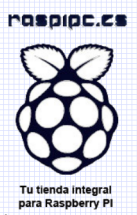Mac - RPi-sd card builder, RasPiWrite, PiFiller

From command line:
Windows (need flashnul):
c:\flashnul.exe -p // Show units
c:\flashnul.exe 1 -L C:/rasp.img // 1 is the destiny unit
Linux:
$ df -h // Show units
# unmount /dev/sdd1 // unmount sdd1
# dd bs=4M if=rasp.img of=/dev/sdd // You can change dd with dcfldd
Mac (N=destiny unit):
$ diskutil list
# diskutil unmountDisk /dev/diskN
# dd if=myImage.img bs=1m of=/dev/rdiskN
# diskutil eject /dev/diskN

Files you must to know and their location

~/.bashrc o /etc/profile // Run commands on login
/boot/config.txt // Config hardware. (goo.gl/gEJc7)

/etc/network/interfaces // Config network devices
/etc/wpa_supplicant/wpa_supplicant // SSID and WPA passwd
/etc/resolv.conf // Config DNS and gateway
/etc/fstab // Units mounted on boot
/etc/vsftpd.conf // FTP Server
/etc/apache2/httpd.conf // Apache2
/etc/nginx/nginx.conf // nginx
/etc/lighttpd/lighttpd.conf // Lighttpd
/etc/php5/php.ini // PHP5
/etc/ssh/sshd_config // SSH
/etc/samba/smb.conf // Samba
/etc/cups/cupsd.conf // Cups
/etc/transmission-daemon/settings.json // Transmission

raspipc.es

Tu tienda integral
para Raspberry Pi

Useful commands

raspi-config // Config OS environment
amixer cset numid=3 N // Change audio output.
// N => 0=auto, 1=headphones, 2=hdmi
// To SSH connections we use console or Putty (Windows)
$ ssh -p 22 pi@192.168.2.107 // Connect remotely with SSH
// like pi user and IP to port 22
$ mv (move), rm (remove), cd (change dir),ls (list dir),
      mkdir/rmdir (make/delete dir), nano (editor).
reboot // Reboot
shutdown -h now // Shutdown. You can change now with
        // +5m ó 13:23. With -rF now reboot and check the unit
$ /opt/vc/bin/tvservice -s // Screen mode active. You can
        // use -m CEA or -m DMT to see supported modes
vncserver :0 -geometry 1920x1080 -depth 24 // Need
                        // pkg tightvncserver
$ xtightvncviewer 192.168.1.2:1 // Need pkg xtightvncviewer
$ startx // Start Desktop Environment (LXDE by default)

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apt-get update && apt-get upgrade // Update package list & packages
apt-get install program // Install program. You can use clean,
autoremove, purge too
$ apt-cache search package // Search package
$ top // Active process in memory
$ ps -aux (list process),   # kill -9 PID (kill process)
$ lsusb // Show USB devices plugged
$ lsmod // Show installed & active modules
$ ifconfig // Show network devices config
$ free -m // RAM Memory (MB)
$ vcgencmd get_config arm_freq // show CPUfrequency
$ wget -O - -q icanhazip.com // Show your public IP
# chmod +x fichero // Change file to execute. -x delete the exec. flag
# mount /dev/sda1 /mnt // mount unit sda1 on /mnt. umount /dev/sda1
$ cat /proc/cpuinfo // Show extended info about CPU
$ whereis package // Where a package is
$ find /usr/lib -name '*libpn*' // Search in /usr/lib a file with 'libpn'
# service /etc/init.d/service_name [stop, start, restart] // stop, start, restart
                            //the service
$ netstat -na|grep 80 // Check port 80
# fdisk -l // Show connected units

Terminal

Arrows up and down // Move through the historial
Ctrl-a,Ctrl-e // Go to start/end of the line
Alt-b, Alt-f // Backward, Forward a word
Ctrl-u, Ctrl-k // Delete from the cursor to the beginning or end of the line
Ctrl-l // clean the screen
Ctrl-r Text // Search 'text' in the historial

Favorites packages

mc // midnight commander
ntfs-3g // NTFS read and write permission
localepurge // Delete languages you don't need
mysql-server mysql-client phpmyadmin // Database and management (MySQL)
git-core // Clone GitHub projects
apache2 php5 libapache2-mod-php5 php5-mysql libapache2-mod-auth-mysql
// web Apache server. Alternatives: cherokee, nginx, lighttpd
vsftpd // FTP Server
samba samba-common-bin // Share files on the network with Samba protocol
bluetooth bluez-utils blueman // Bluetooth
cups // Print. Config on http://127.0.0.1:631
libx11-dev libsdl1.2-dev build-essential g++-4.7 gcc-4.7 // Developers
transmission transmission-daemon transmission-cli // torrent transmission

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