**Ralph Sutter’s Raspberry Pi Notes**Linux SIG - 02/11/16

**NOTE**: If this page doesn’t display properly, view the document as an HTML file at [www.fullbean.com/linux/raspberry-pi-notes.html](http://www.fullbean.com/linux/raspberry-pi-notes.html)

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| [Raspberry Pi 2 Basic StarterKit](http://www.amazon.com/gp/product/B00DG9D6IK/ref=s9_al_bw_g147_i2)  $44.99 from Amazon | [Raspberry Pi 2 Complete Starter Kit](http://www.amazon.com/gp/product/B008XVAVAW/ref=s9_al_bw_g147_i3) $69.99 from Amazon | [Raspberry Pi 2 - Ultimate Starter Kit](http://www.amazon.com/gp/product/B00G1PNG54/ref=s9_al_bw_g147_i4) $84.99 from Amazon |
| Raspberry Pi 2 - Basic Starter Kit | Raspberry Pi 2 - Complete Starter Kit | Raspberry Pi 2 - Ultimate Starter Kit |
| Kit Includes:  1 x Raspberry Pi 2 (RPi2) Model B Quad-Core 900 MHz with 1 GB RAM  1 x CanaKit 2.5A USB Power Supply with Micro USB Cable and Noise Filter - Specially designed for the Raspberry Pi 2 (UL Listed)  1 x CanaKit Quick-Start Guide | Kit Includes:  1 x Raspberry Pi 2 (RPi2) Model B Quad-Core 900 MHz with 1 GB RAM  1 x CanaKit 2.5A USB Power Supply with Micro USB Cable and Noise Filter - Specially designed for the Raspberry Pi 2 (UL Listed)  1 x CanaKit Quick-Start Guide  1 x 8 GB SD Card - Raspberry Pi SD Card pre-loaded with NOOBS (Class 10)  1 x CanaKit WiFi Adapter 150 Mbps - Supports Access Point Mode (AP) to allow for WiFi Hotspot hosting  1 x CanaKit 2.5A USB Power Supply with Micro USB Cable and Noise Filter - Specially designed for the Raspberry Pi 2 (UL Listed)  1 x High Quality Raspberry Pi 2 Case,  1 x Premium Quality HDMI Cable,  2 x Heat Sinks  1 x GPIO Quick Reference Card | Kit Includes:  1 x Raspberry Pi 2 (RPi2) Model B Quad-Core 900 MHz with 1 GB RAM  1 x CanaKit 2.5A USB Power Supply with Micro USB Cable and Noise Filter - Specially designed for the Raspberry Pi 2 (UL Listed)  1 x CanaKit Quick-Start Guide  1 x 8 GB SD Card - Raspberry Pi SD Card pre-loaded with NOOBS (Class 10)  1 x CanaKit WiFi Adapter 150 Mbps - Supports Access Point Mode (AP) to allow for WiFi Hotspot hosting  1 x CanaKit 2.5A USB Power Supply with Micro USB Cable and Noise Filter - Specially designed for the Raspberry Pi 2 (UL Listed)  1 x High Quality Raspberry Pi 2 Case,  1 x Premium Quality HDMI Cable,  2 x Heat Sinks  1 x GPIO Quick Reference Card  1 x Breadboard 1 x 40-pin GPIO Ribbon Cable 1 x 40-pin T-Shaped GPIO to Breadboard Interface Board 2 x Push Button Switches 1 x RGB LED 2 x Red LEDs 2 x Green LEDs 2 x Yellow LEDs 2 x Blue LEDs 10 x 180 Ohm Resistors 5 x 10K Ohm Resistors |
| **Common specs for all of the listed Raspberry P1 2 Model B kits**  900MHz quad-core ARM Cortex-A7 CPU 1GB RAM 4 USB ports 40 GPIO pins Full HDMI port Ethernet port Combined 3.5mm audio jack and composite video Camera interface (CSI) Display interface (DSI) Micro SD card slot VideoCore IV 3D graphics core  ---  I purchased the [Raspberry Pi 2 Complete Starter Kit](http://www.amazon.com/gp/product/B008XVAVAW/ref=s9_al_bw_g147_i3)  I also bought the following items    **Raspberry Pi 8GB Preloaded (NOOBS) SD Card** $11.78 <http://www.amazon.com/gp/product/B00ENPQ1GK>   **Inateck Bluetooth 4.0 USB Wireless Bluetooth Dongle** $9.99  <http://www.amazon.com/gp/product/B00N2E3ZHG> 1byone WireWireless Bluetooth Keyboard with built-in multi-touch touchpad $22.99 <http://www.amazon.com/gp/product/B00VRC6D3S> | Because it has an **ARMv7 processor**, it can run the full range of **ARM GNU/Linux** distributions, including **Snappy Ubuntu Core**, as well as **Microsoft Windows 10**  **Useful links**  **Respberry Pi on Wikipedia:** <https://en.wikipedia.org/wiki/Raspberry_Pi>  **Raspberry Pi Opening Page**: <https://www.raspberrypi.org/>  **Canakit**: <http://www.canakit.com/> - This is a retail site for purchasing Raspberry Pi related products  **NOOBS Operating System Download Page**: <https://www.raspberrypi.org/help/noobs-setup/>  **Additional Operating Systems Download Site**: <https://www.raspberrypi.org/downloads/>  **OpenELEC Documentation**: - Covers installation of Openelec on multiple operating systems  <http://wiki.openelec.tv/index.php?title=Installation>  **Installing OpenELEC on Raspberry** Pi: <http://wiki.openelec.tv/index.php/Raspberry_Pi> The above URL contains a link to the site listed below  HOW-TO:Installing OpenELEC/Writing The Disk Image:  <http://wiki.openelec.tv/index.php/HOW-TO:Installing_OpenELEC/Writing_The_Disk_Image#tab=Windows> | |

Raspberry Pi Links

FORMATTING AN SDXC CARD FOR USE WITH NOOBS – Instructions here  
<https://www.raspberrypi.org/documentation/installation/sdxc_formatting.md>

**NOTE**: If your SD card is 32Gb or larger, Windows formats it as exFAT. Raspberry Pi doesn’t understand that configuration and must be formatted as FAT32

**SOLUTION**   
Insert SD card and download **SD Formatter**  
<https://www.sdcard.org/downloads/formatter_4/>

Format the SD card with **FORMAT** **SIZE** **ADJUSTMENT** set to **ON**

Download **FAT32 Format** (which downloads as a single file named **guiformat.exe**)  
<http://www.ridgecrop.demon.co.uk/index.htm?guiformat.htm>

Using **guiformat.exe**, format the SD card to FAT32

Download **NOOBS** from <https://www.raspberrypi.org/downloads>, choosing [NOOBS](https://www.raspberrypi.org/downloads/noobs/) from the operating systems offered

Extract **NOOBS** to a folder and paste the contents of the folder to the SD card

Run **NOOBS**, following the instructions at  
<https://www.raspberrypi.org/documentation/installation/noobs.md>

You will be offered a one-time menu that offers to install any one of the following operating systems on your Raspberry Pi

[Raspbian](http://raspbian.org/)  
[Pidora](http://pidora.ca/)  
[OpenELEC](http://wiki.openelec.tv/index.php?title=Raspberry_Pi_FAQ)  
[OSMC](http://osmc.tv/)  
[RISC OS](https://www.riscosopen.org/wiki/documentation/show/Welcome%20to%20RISC%20OS%20Pi)  
[Arch Linux](http://archlinuxarm.org/platforms/armv6/raspberry-pi)

I chose **OpenELEC**. Setup instructions for that OS are found at <http://wiki.openelec.tv/index.php?title=Raspberry_Pi_FAQ> and  
<http://wiki.openelec.tv/index.php/HOW-TO:Installing_OpenELEC/Writing_The_Disk_Image>

Offer to do a live install of OpenELEC  
DEMO OpenELEC on my Raspberry Pi showing  
Network setup/WiFi Setup  
Bluetooth keyboard setup  
Content creation  
Demo Music/Video/Pictures from attached Flash Drive (Mushkin)  
Slideshow options and Playlists

**Unsolved items**  
How do I create a single slideshow with files in more than one folder?  
Is it possible to display .doc or .html files inside Kodi?