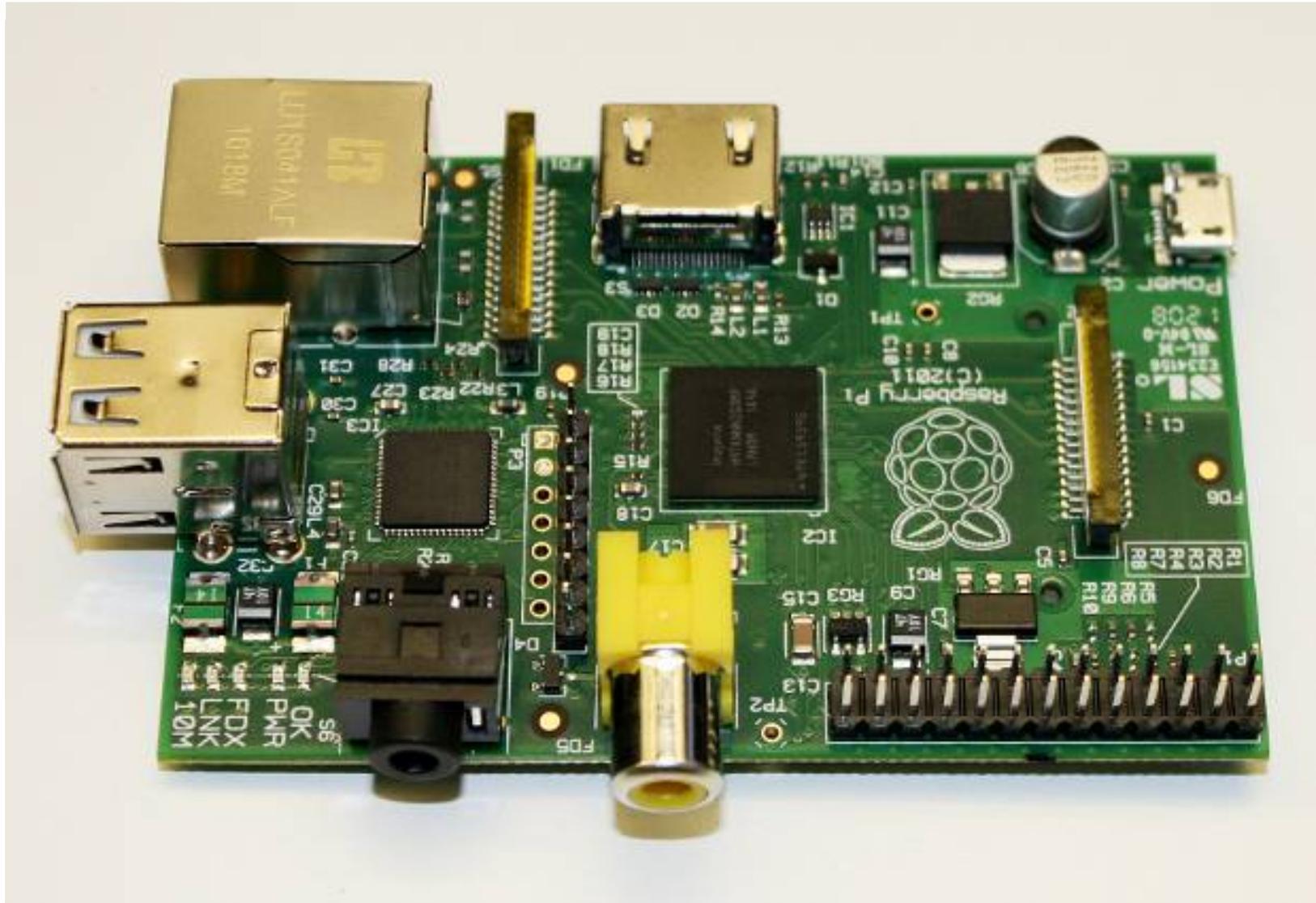
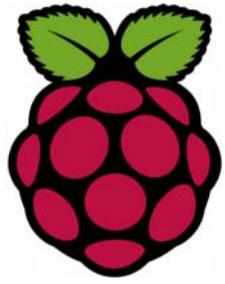


Le Raspberry Pi

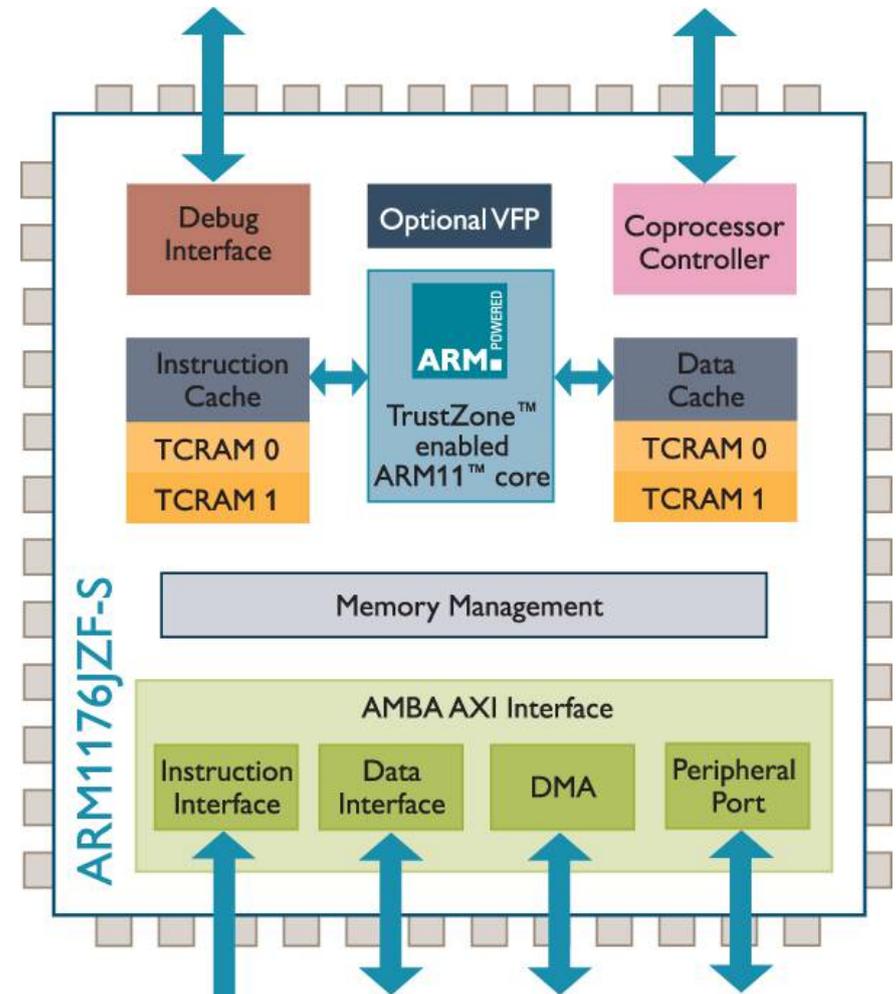


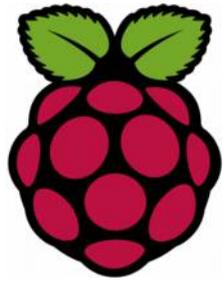
- <http://www.raspberrypi.org/>



Les spécifications

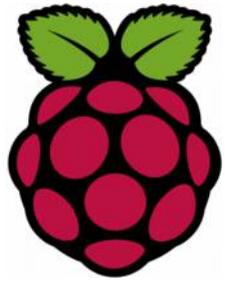
- Processeur ARM1176JZF (ARMv6) 700 MHz
Broadcom 2835
- 256 Mo RAM
- Décodeur vidéo H264





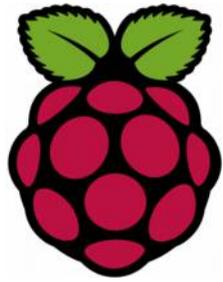
ARM ????

- Les architectures ARM (Advanced Risc Machine), développées par ARM Ltd, sont des architectures RISC 32 bits (ARMv3 à ARMv7) et d'ici 2014, 64 bits (ARMv8)¹ introduite à partir de 1983.
- Une particularité des processeurs ARM est leur mode de vente. En effet, ARM Ltd. ne fabrique ni ne vend ses processeurs sous forme de circuits intégrés. La société vend les licences de ses processeurs de manière à ce qu'ils soient intégrés dans le silicium par d'autres fabricants. Aujourd'hui, la plupart des grands fondeurs de puces proposent de l'architecture ARM.



ARM ????

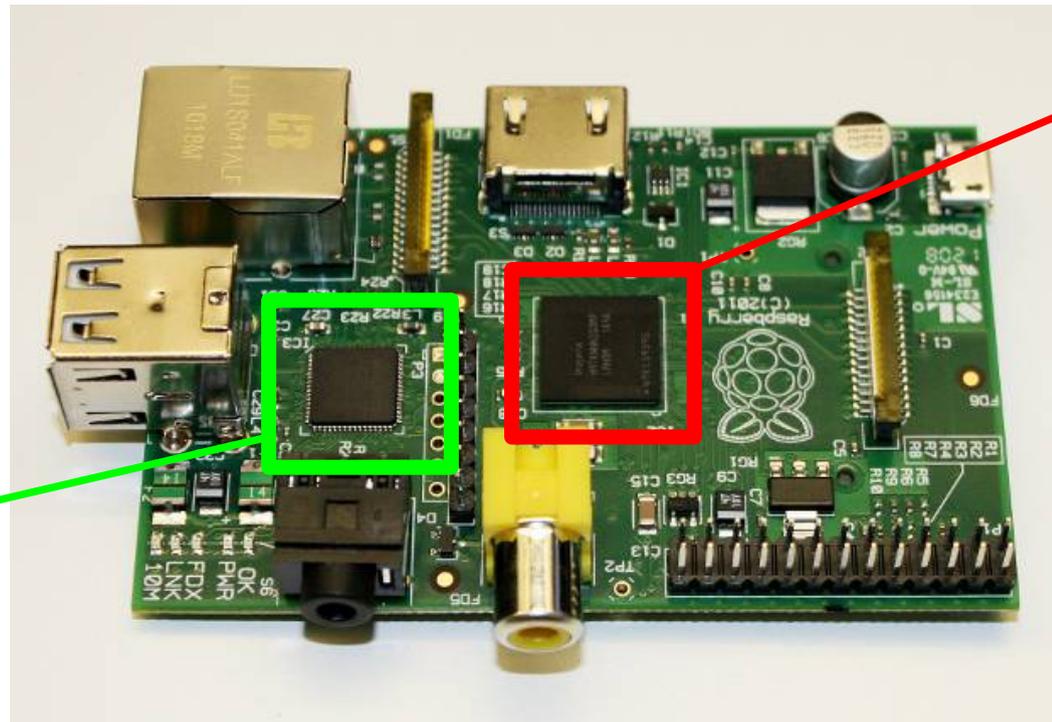
RISC (ARM)	CISC (x86)
Peu d'instructions	Beaucoup d'instructions
Instructions Rapides	Instructions parfois lentes
Plus de code	Moins de code
Compiler simple	Compiler plus complexe
Plus de contrainte de développement	Plus souple pour le développement



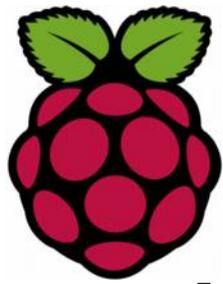
Et le Soc ???

- Un System on Chip, abrégé en SoC (« système sur puce ») ou « système mono-puce » en français), est un système complet embarqué sur une puce, pouvant comprendre de la mémoire, un ou plusieurs microprocesseurs, des périphériques d'interface, ou tout autre composant nécessaire à la réalisation de la fonction attendue.

Lan
Controller

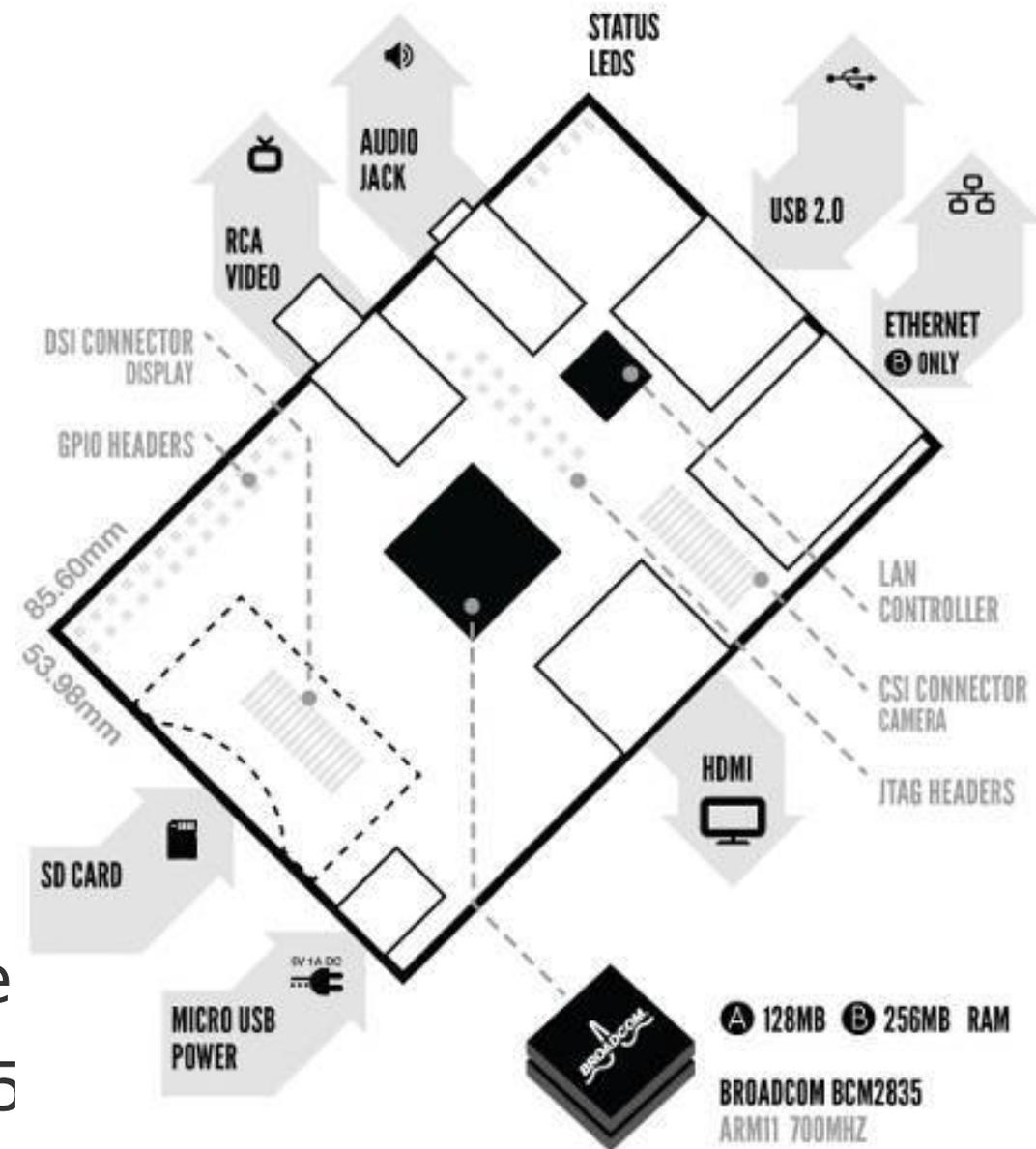


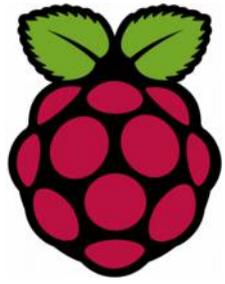
SoC



Les spécifications Entrées / Sorties

- Modèle B 2G
 - 2 ports USB 2.0
 - 1 port réseau
 - 1 HDMI / 1 Composite
 - 1 sortie audio jack 3,5
 - Connecteur SDHC
 - Entrées / Sorties GPIO

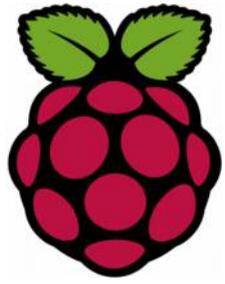




Le nouveau modèle

- Modèle **B 4G**
 - 512 Mo RAM
 - Trou de fixation

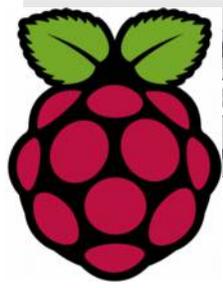




Consommation électrique

- Alimentation type chargeur smartphone
- 700 mA (3.5 W)
 - Estimation coût +/- 4 € pour 1 an
- Pas de bouton ON/OFF





at Farnell element14.

We are pleased to announce that the Raspberry Pi Model B with **512MB RAM** is now available. Order today, delivery **within 3 weeks**.

Board Only

Raspberry Pi Model B 512MB RAM



Raspberry Pi Linux Specs

- ▶ SoC Broadcom BCM2835 (CPU, GPU, DSP, and SDRAM)
- ▶ CPU: 700 MHz ARM1176JZF-S core (ARM11 family)
- ▶ GPU: Broadcom VideoCore IV, OpenGL ES 2.0, 1080p30 h.264/MPEG-4 AVC high-profile decoder
- ▶ Memory (SDRAM): 512 Megabytes (MiB)
- ▶ Video outputs: Composite RCA, HDMI
- ▶ Audio outputs: 3.5 mm jack, HDMI
- ▶ Onboard storage: SD, MMC, SDIO card slot
- ▶ 10/100 Ethernet RJ45 onboard network
- ▶ Storage via SD/ MMC/ SDIO card slot

Order Now!

Accessories



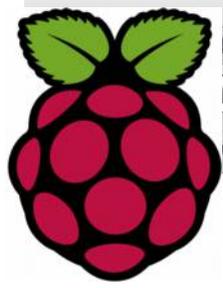
Get all the essential accessories for your Raspberry Pi.

View all accessories

Visit the element14 community for more tools, information and news about Raspberry Pi

Featured Videos





Choose your products

Product	Qty	Price (Inclusive of VAT)
<input checked="" type="checkbox"/>  <p>Raspberry Pi</p> <ul style="list-style-type: none"> ▶ SoC Broadcom BCM2835 (CPU, GPU, DSP, and SDRAM) ▶ CPU: 700 MHz ARM1176JZF-S core (ARM11 family) ▶ GPU: Broadcom VideoCore IV, OpenGL ES 2.0, 1080p30 h.264/MPEG-4 AVC high-profile decoder ▶ Memory (SDRAM): 512 Megabytes (MiB) ▶ Video outputs: Composite RCA, HDMI ▶ Audio outputs: 3.5 mm jack, HDMI ▶ Onboard storage: SD, MMC, SDIO card slot ▶ 10/100 Ethernet RJ45 onboard network ▶ Storage via SD/ MMC/ SDIO card slot 	1	£33.47

CURRENCY CONVERTER WIDGET

Converter Rates News Info

33.47 GBP = 41.1145 EUR

British Pound ↔ Euro
1 GBP = 1.22840 EUR 1 EUR = 0.814068 GBP

Mid-market rates: 2012-10-18 20:28 UTC

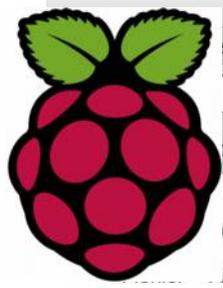
[View Chart](#) [Convert again](#)

TOTAL:* £33.47

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** Inclusive of delivery charges. Payment will not be taken until your goods are dispatched. Prices inclusive of VAT are based on current rates of VAT. These may be subject to change if there are changes made to underlying VAT rates.*

(T-shirts available while stocks last)



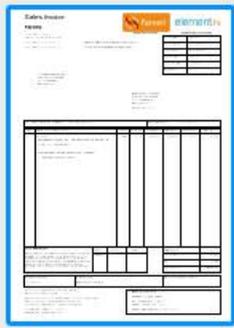
165179973878.pdf

Enregistrer dans Google Documents

Télécharger l'original

Partager

Thierry Bruyere



1

Belgium 7350
Delivery Address

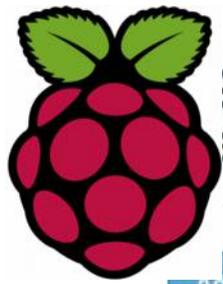
Customer Order No: ORP062063 25-JUL-12 20.32 Our Order Ref: 1939-9578/01

Line	Order Code / Description	Unit	Quantity	List Price	Net Price	VAT Rate	Amount
1	2081185 RASPBRRY-PCBA SBC, RASPBERRY PI, MODEL B Tariff Code: CN 84714900 ORDER PLACED BY BRUYERE THIERRY *** PAID BY CREDIT CARD ***	EA	1	27.2500	27.2500	20.00	27.25

VERY IMPORTANT Non delivery or any delivery discrepancy must be reported, in writing, to Farnell within 3 days from receipt of goods otherwise no claim can be entertained for loss in transit. Title to this merchandise remains with Premier Farnell UK Limited until such time as full settlement is received. Our Terms and Conditions can be found on our website.	VAT %	Goods	VAT	P&P Charge	
	XPORT			Invoice Subtotal	27.25
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				Invoice Total	GBP 32.70

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4GB Sandisk SD SDHC Card With Raspbian Wheezy Linux Preinstalled

Add to Cart

£5.99

was £6.99



Sandisk 4GB SD SDHC Card preinstalled with the latest Raspbian Wheezy Linux

Tweet 0

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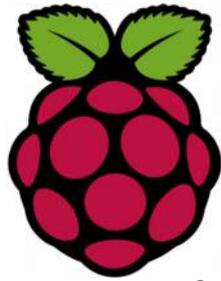
+1 Recommend this

- This is the hard drive and operating system for your Raspberry Pi
- High quality SanDisk SD card
- Auto extending partition to make full use of the 4GB card
- Ready to use – plug it in and you're ready to go
- Only the most current stable release of the operating system will be used
- Fully tested prior to dispatch

NEW - Now includes:

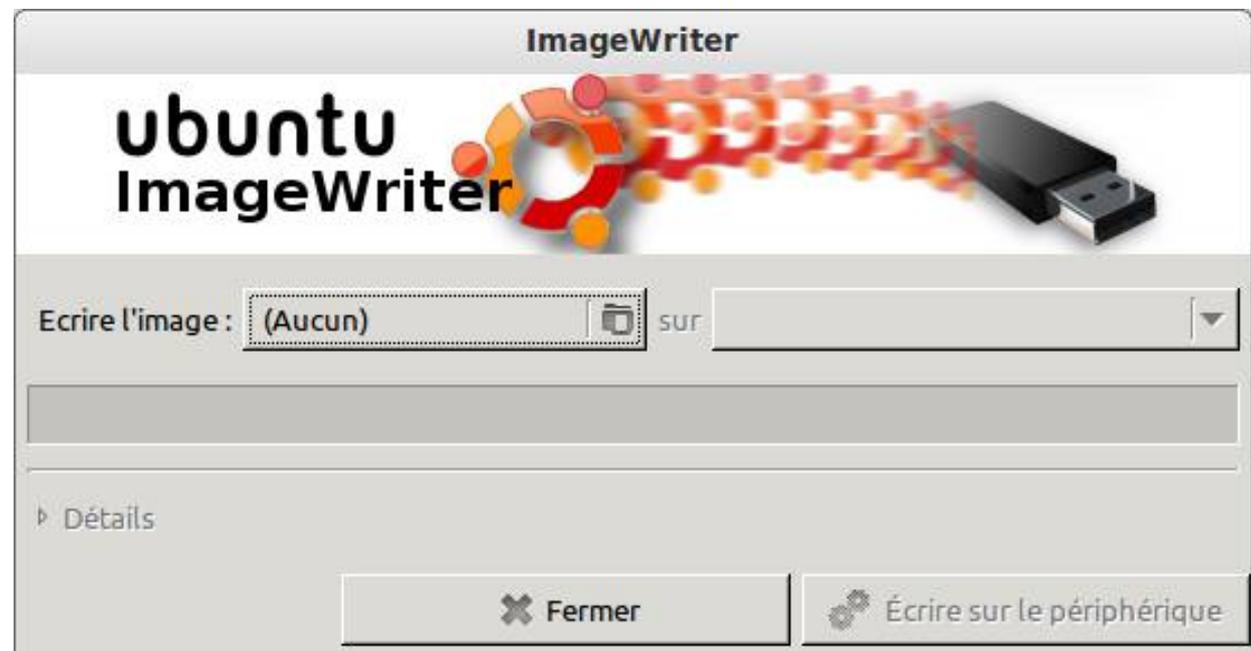
- Latest WIFI drivers for our new [USB WIFI adapter](#)
- Easy to use network interface
- Ability to overclock your Pi

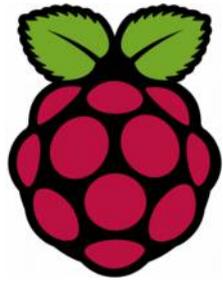




Installation RASPBIAN

- Installer « ImageWriter » via Ubuntu Software Center
- Mettre la carte SD dans un lecteur USB (Min 1 GO)
- Télécharger une image sur le serveur raspberrypi :
 - <http://www.raspberrypi.org/downloads>
- Lancer « ImageWriter »
- Choisir l'image téléchargée et choisir la destination « carte SD »
- Lancer via « Ecrire sur le périphérique »
- Et voilà c'est prêt...





Installation RASPBMC

- Mkdir raspbmc ; cd raspbmc

- wget

<http://svn.stmlabs.com/svn/raspbmc/testing/installers/python/install.py>

- chmod +x install.py

- Sudo ./install.py

```
tbruyere@pc-maison: ~/raspbmc
Fichier Édition Affichage Rechercher Terminal Aide
tbruyere@pc-maison:~$ mkdir raspbmc
tbruyere@pc-maison:~$ cd raspbmc/
tbruyere@pc-maison:~/raspbmc$ wget http://svn.stmlabs.com/svn/raspbmc/testing/installers/python/install.py
--2012-09-23 10:27:51-- http://svn.stmlabs.com/svn/raspbmc/testing/installers/python/install.py
Résolution de svn.stmlabs.com (svn.stmlabs.com)... 87.106.137.136
Connexion vers svn.stmlabs.com (svn.stmlabs.com)|87.106.137.136|:80... connecté.
requête HTTP transmise, en attente de la réponse... 200 OK
Longueur: 5818 (5,7K) [text/plain]
Sauvegarde en : «install.py»
This is quite simple to install and the process is almost identical on OS X and Linux systems. The
100%[=====] 5 818
2012-09-23 10:27:52 (151 KB/s) - «install.py» sauvegardé [5818/5818]
tbruyere@pc-maison:~/raspbmc$ chmod u+x install.py
tbruyere@pc-maison:~/raspbmc$ sudo ./install.py
```

Following commands:

```
Linux:
chmod +x install.py
```

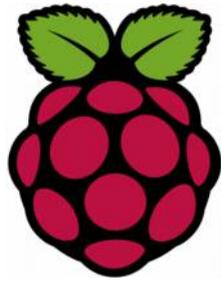
About

Welcome to the home of Raspbmc, the simplistic yet powerful...-K/s y ds 0,04s center distribution, created by Sam Nazarko!

Donate

News

XBlam code dispute



```
tbruyere@pc-maison: ~/raspbmc
Fichier Édition Affichage Rechercher Terminal Aide
Raspbmc installer for Linux and Mac OS X
http://raspbmc.com
-----Download Accessories Contact
Please ensure you've inserted your SD card, and press Enter to continue.
OS X / Linux installation
This is quite simple to install and the process is almost identical on OS X and Linux systems. The
And also at launching a shell prompt, this can be done on Mac OS X by opening Terminal or
About
Welcome to th
Raspbmc, the
powerful Ras
```

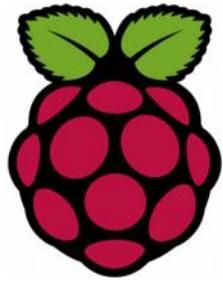
Si vous ne trouvez pas votre clés usb dans la liste, le problème vient peut-être de la langue du système. Le programme install.py cherche les « Disk » via la commande `fdisk -l ...` mais sur une ubuntu ma carte sd était identifiée comme « Disque » ...;) Donc pas visible par le script.

Modification du fichier install.py : ligne 66

```
output = getoutput('fdisk -l | grep -E "Disk /dev/"')
```

Devient

```
output = getoutput('fdisk -l | grep -E "Disque /dev/"')
```



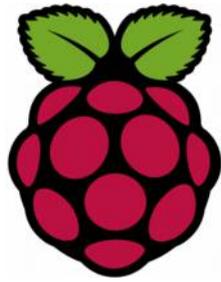
```
tbruyere@pc-maison: ~/raspbmc
Fichier  Édition  Affichage  Rechercher  Terminal  Aide
Raspbmc installer for Linux and Mac OS X
http://raspbmc.com
-----
Please ensure you've inserted your SD card, and press Enter to continue.

Enter the 'Disk' you would like imaged, from the following list:
Disque /dev/sdb : 507 Mo, 507379712 octets

Enter your choice here (e.g. 'mmcblk0' or 'sdd'): sdb
It is your own responsibility to ensure there is no data loss! Please backup your system before imaging
Are you sure you want to install Raspbmc to '/dev/sdb'? [y/N] █

This is quite simple to install and the process is almost identical on OS X and Linux systems. The first step is launching a shell prompt. This can be done on Mac OSX by opening Terminal, or either on the Linux command line or opening an X11 Terminal emulator.

Once you have Terminal up, you should proceed to download the installer by typing in the following commands:
```

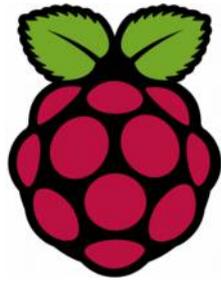


```
tbruyere@pc-maison: ~/raspbmc
Fichier  Édition  Affichage  Rechercher  Terminal  Aide

Raspbmc installer for Linux and Mac OS X
http://raspbmc.com
-----
Please ensure you've inserted your SD card, and press Enter to continue.

Enter the 'Disk' you would like imaged, from the following list:
Disque /dev/sdb : 507 Mo, 507379712 octets

Enter your choice here (e.g. 'mmcblk0' or 'sdd'): sdb
It is your own responsibility to ensure there is no data loss! Please backup your system before imaging
Are you sure you want to install Raspbmc to '/dev/sdb'? [y/N] y
Downloading, please be patient...
Downloaded 6.02 of 6.02 MiB (100.00%)
Please wait while Raspbmc is installed to your SD card...
(This may take some time and no progress will be reported until it has finished.)
0+2208 enregistrements lus
0+2208 enregistrements écrits
76800000 octets (77 MB) copiés, 2,37785 s, 32,3 MB/s
Installation complete.
Finalising SD card, please wait...
```



```
tbruyere@pc-maison: ~/raspbmc
Fichier  Édition  Affichage  Rechercher  Terminal  Aide

Enter the 'Disk' you would like imaged, from the following list:
Disque /dev/sdb : 507 Mo, 507379712 octets

Enter your choice here (e.g. 'mmcblk0' or 'sdd'): sdb
It is your own responsibility to ensure there is no data loss! Please backup your system before imaging
Are you sure you want to install Raspbmc to '/dev/sdb'? [y/N] y
Downloading, please be patient...
Downloaded 6.02 of 6.02 MiB (100.00%)

Please wait while Raspbmc is installed to your SD card...
(This may take some time and no progress will be reported until it has finished.)
0+2208 enregistrements lus
0+2208 enregistrements écrits
76800000 octets (77 MB) copiés, 2,37785 s, 32,3 MB/s
Installation complete.
Finalising SD card, please wait...

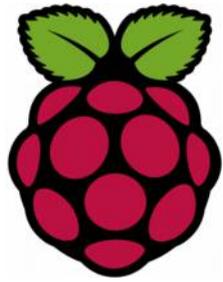
Raspbmc is now ready to finish setup on your Pi, please insert the
SD card with an active internet connection
If you get an error similar to the one below, then you did not run the script with root
tbruyere@pc-maison:~/raspbmc$
```

SVN - Raw

Sponsors

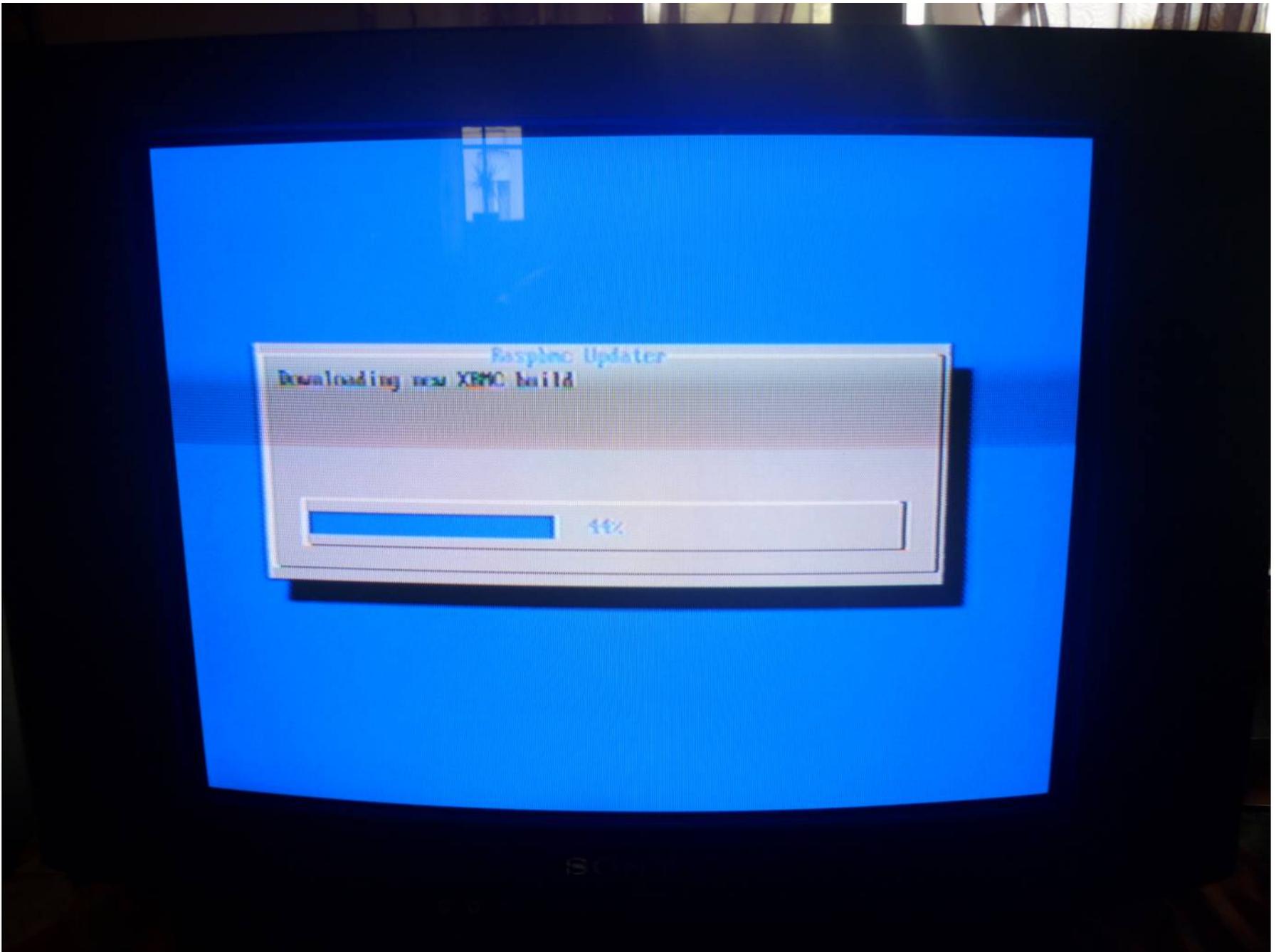
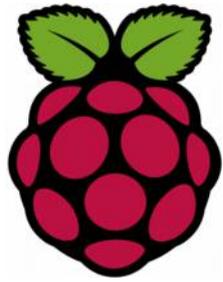
Raspbmc is supported by
National Waste Solutions
your waste management

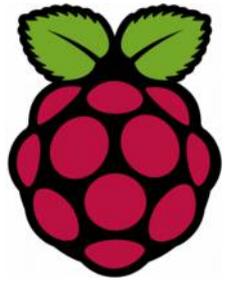
if you would like to advertise here, please contact me

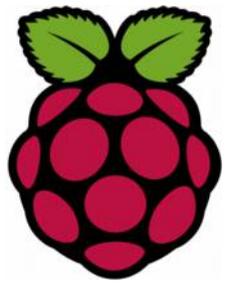


<http://www.raspbmc.com>







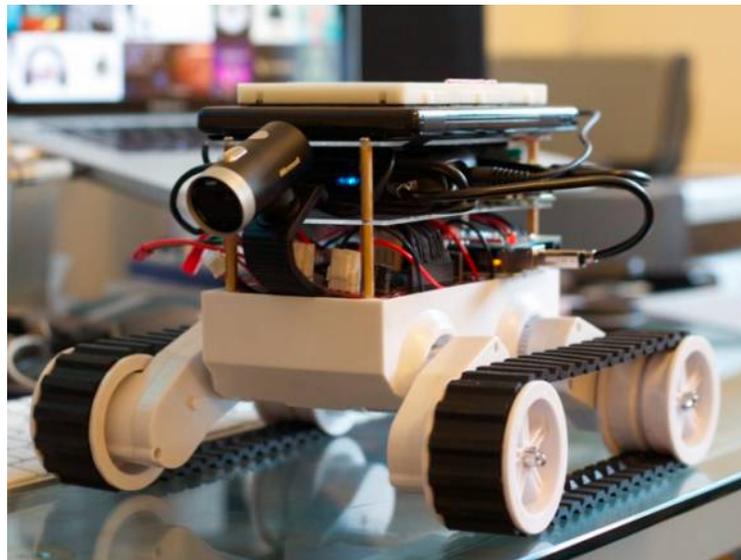
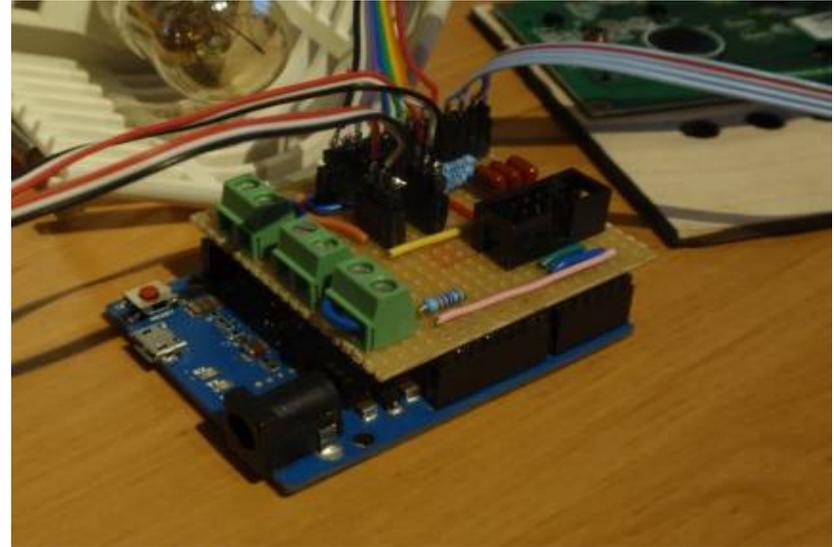


Des idées ...

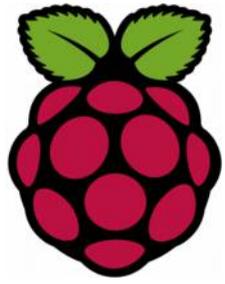
Supercomputer..



Il brasse de la bière en hackant un Raspberry Pi



Des robots d'exploration



Des idées ...

Ecran distant via Wifi

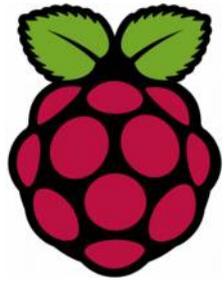


Le fishPi... un bateau solaire d'exploration

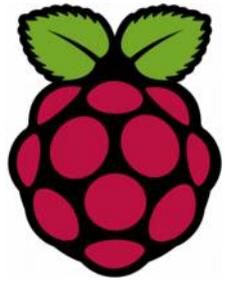


Et pourquoi pas dans le ciel ...





- http://uk.rs-online.com/web/generalDisplay.html?id=raspberrypi&cm_mmc=UK-Short_url-_-Internal-Flyer-_-%20RaspberryPie-062012-_-Multimedia
- Prix : 32.70 GBP = 40.5995 EUR
- <http://www.themagpi.com/>
- <http://adafruit.com/products/955>
- <http://adafruit.com/category/105>
- <http://www.element14.com/community/groups/raspberrypi>



Développement

- <http://learn.adafruit.com/webide/installation>