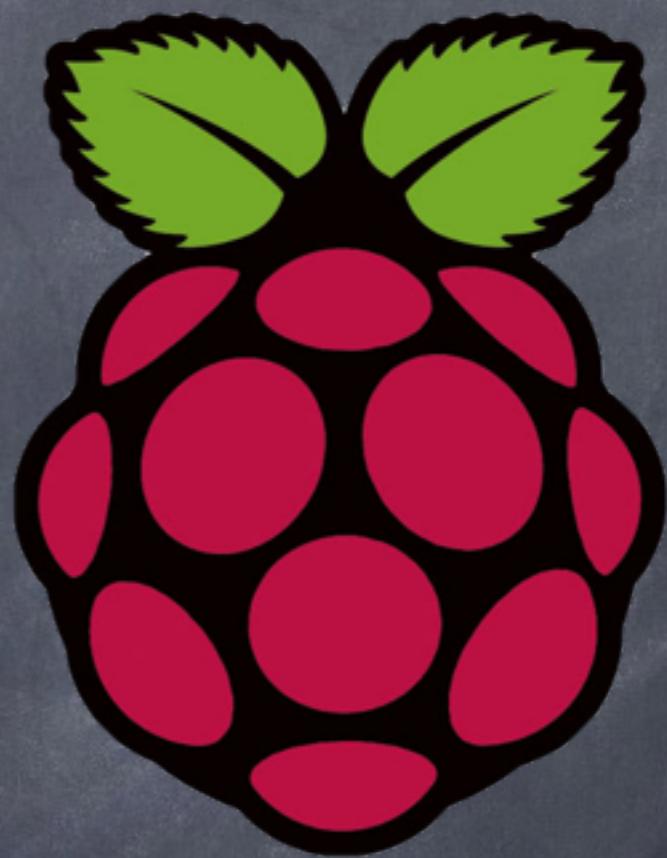
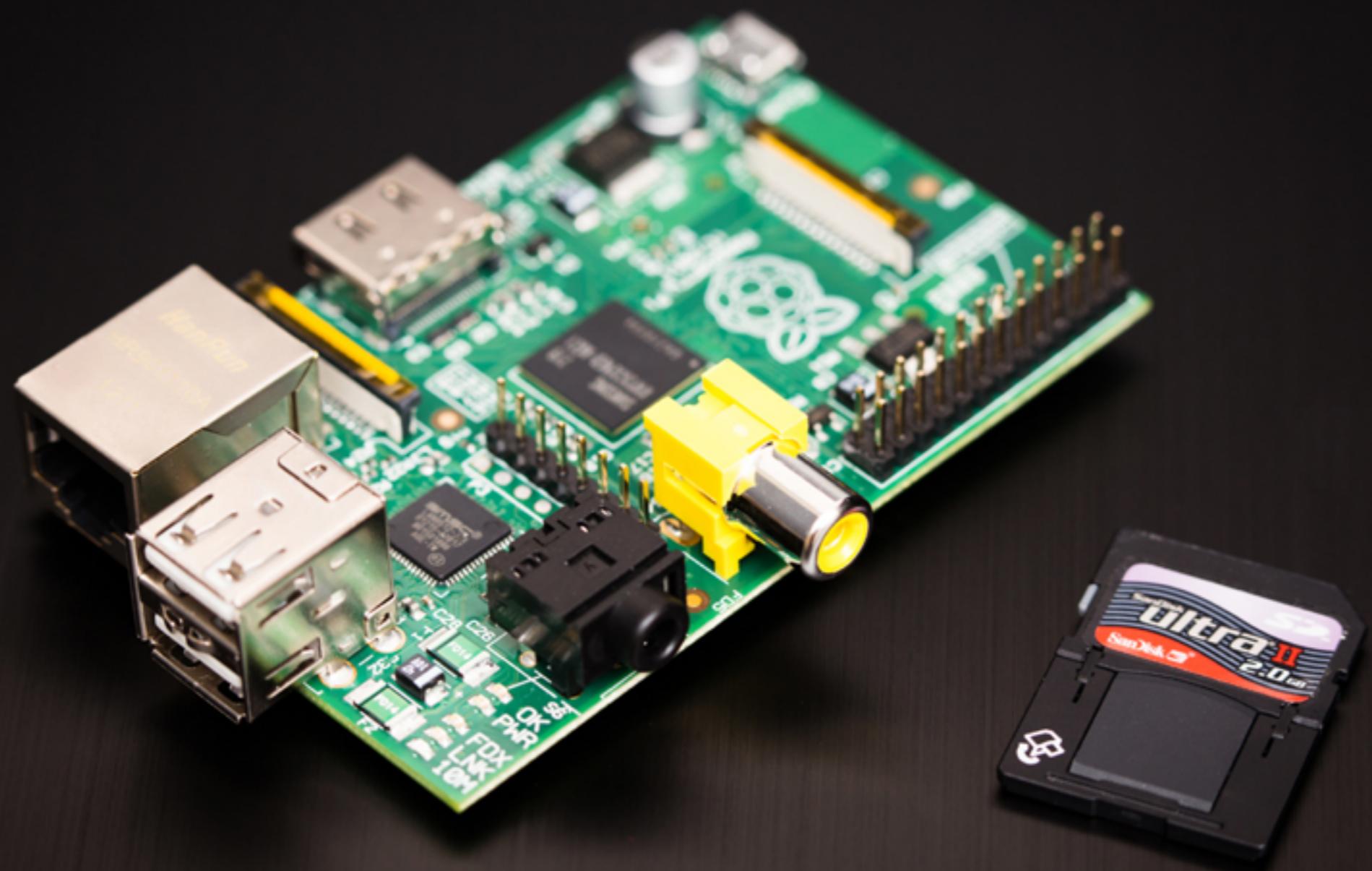


# How Raspberry Pi can ease your life

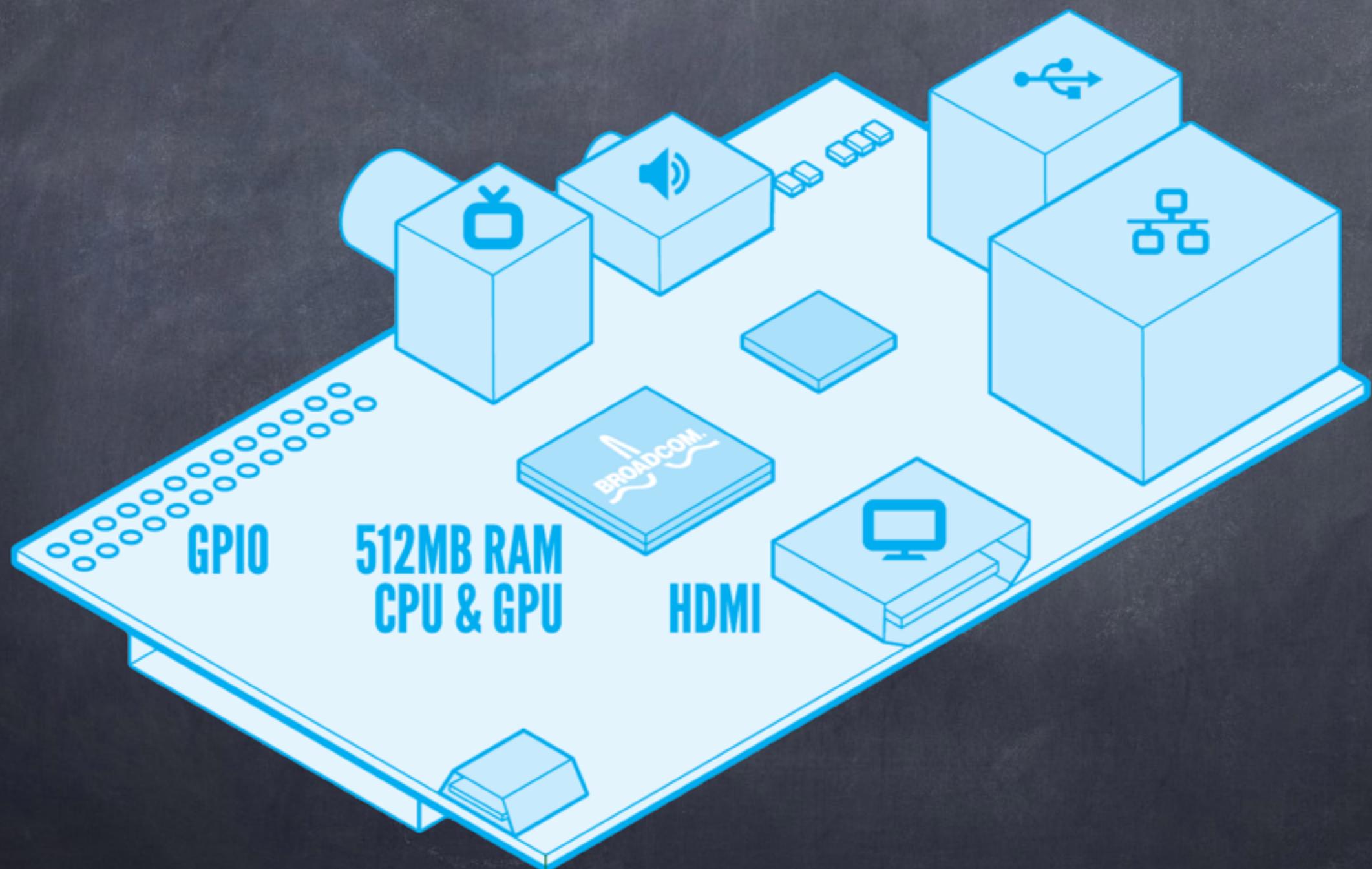


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# What is a Raspberry Pi



# What is a Raspberry Pi



# Other Single Board Computers



# Basic Setup

## What do we need?

- Raspberry Pi
- SD Card (8Gb cat 4)
- Display/Monitor (better with HDMI)
- USB keyboard and mouse
- Power supply

# Basic Setup

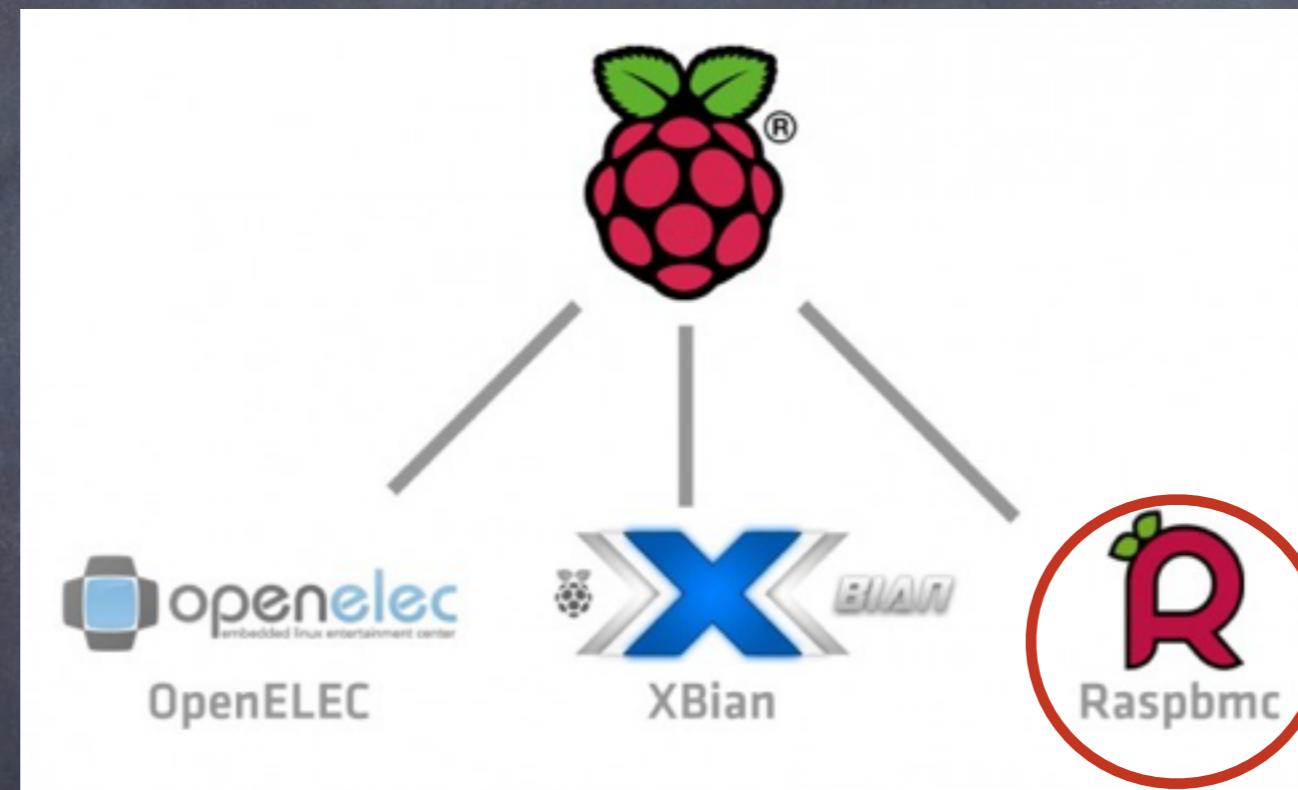
# Quick Start

```
$ sudo dd bs=1m if=wheezy-raspbian.img of=/dev/disk1s1
```

# Raspberry Pi Software Only

## Media Center

# Raspberry Pi Media Center



```
$ wget http://svn.stmlabs.com/svn/raspbmc/release/installers/python/install.py  
$ sudo python install.py
```

# Raspberry Pi Media Center



```
$ sudo apt-get update  
$ sudo apt-get install transmission-daemon  
$ sudo service transmission-daemon stop
```

```
$ sudo vim /etc/transmission-daemon/settings.json  
"download-dir": "/media/data/complete",  
"incomplete-dir": "/media/data/incomplete"  
"rpc-username": "transmission"
```

# Raspberry Pi Media Center



```
$ sudo service transmission-daemon start
```

Transmission Web Interface

http://deneb.lan:9091/transmission/web/#cancel

Open Remove Pause Resume Pause All Resume All Filter Inspector

35 Transfers      ↓ 257.8 KiB/s      ↑ 40.0 KiB/s

Transfer	Status	Speed
ubuntu - 10.04 - dvd - i386.iso	Paused	257.8 KiB/s
ubuntu - 10.04 - server - i386.iso	Paused	40.0 KiB/s
ubuntu - 10.04 - dvd - amd64.iso	Paused	
ubuntu - 10.04 - server - amd64.iso	Paused	
ubuntu - 10.04 - netbook - i386.iso		

# Raspberry Pi Media Center

FLEXGET

```
$ sudo apt-get install python-pip  
$ sudo pip install flexget  
$ sudo pip install transmissionrpc  
  
$ config.yml  
  
$ flexget -c /media/usb0/Downloads/flexget/config.yml --test
```

# Raspberry Pi Media Center

## All together

```
$ vi /etc/transmission/xbmc-upd.sh
```

```
/usr/bin/wget --header='Content-Type:application/json'  
--post-data='{"jsonrpc": "2.0", "method":  
"VideoLibrary.Scan", "id": "xbian", "params":  
{"directory":"'\"$TR_TORRENT_DIR\"'} }' "http://  
localhost:8080/jsonrpc"
```

```
$ cron -e
```

```
0 3,6,9,12,15 * * * nice -n 4 /usr/local/bin/flexget -  
c /media/usb0/Downloads/flexget/config.yml --cron
```

# Raspberry Pi Software + Hardware

## Hands On!