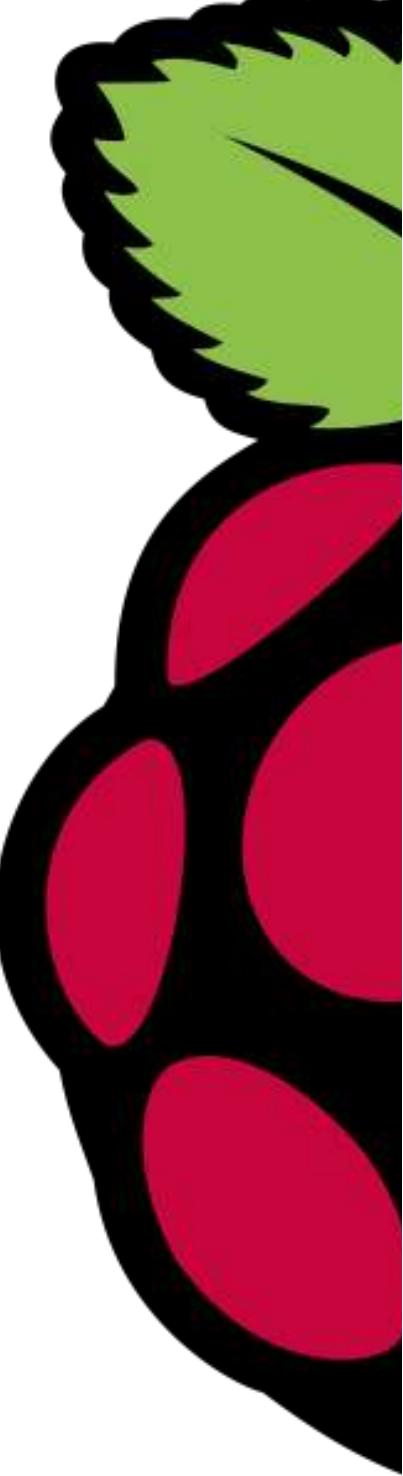
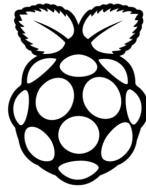


Raspberry Pi

Hackea tu casa con Raspberry Pi

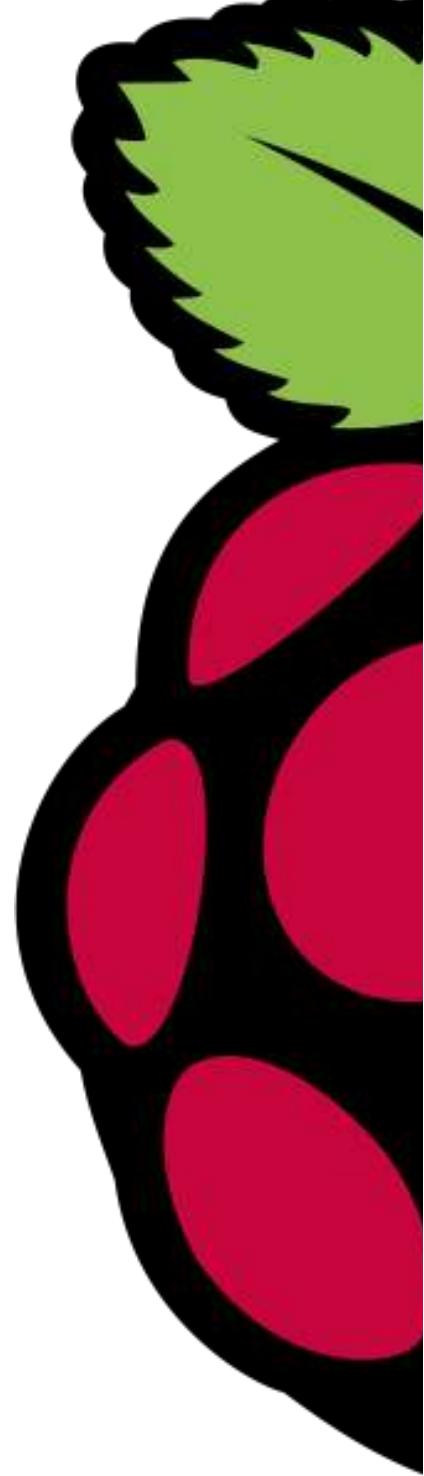
Por Fran Acién

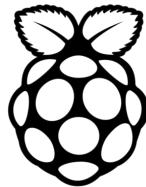




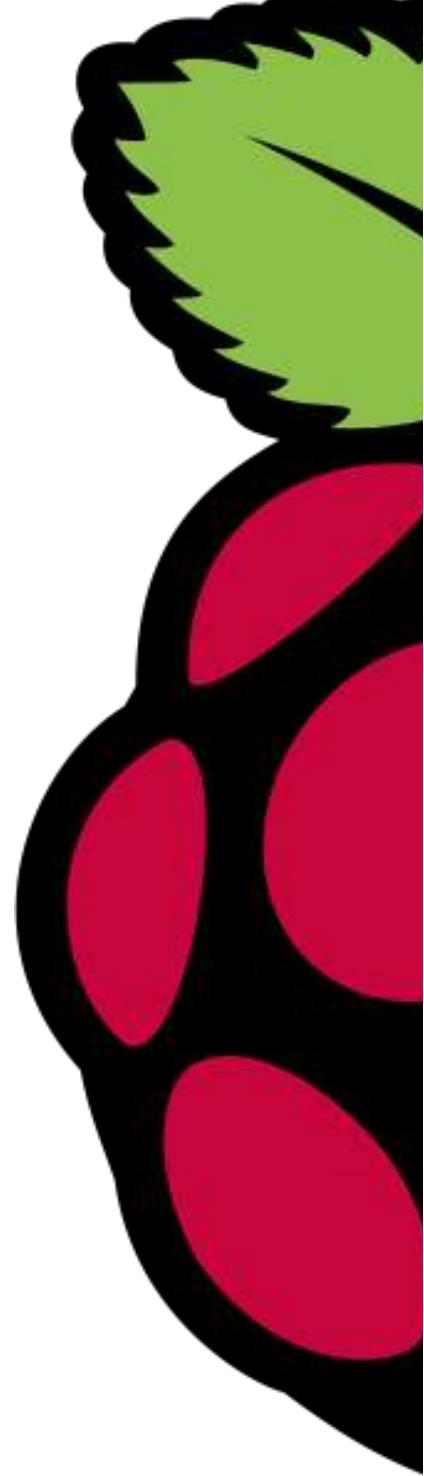
Raspberry Pi

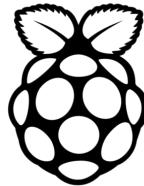
Presentación



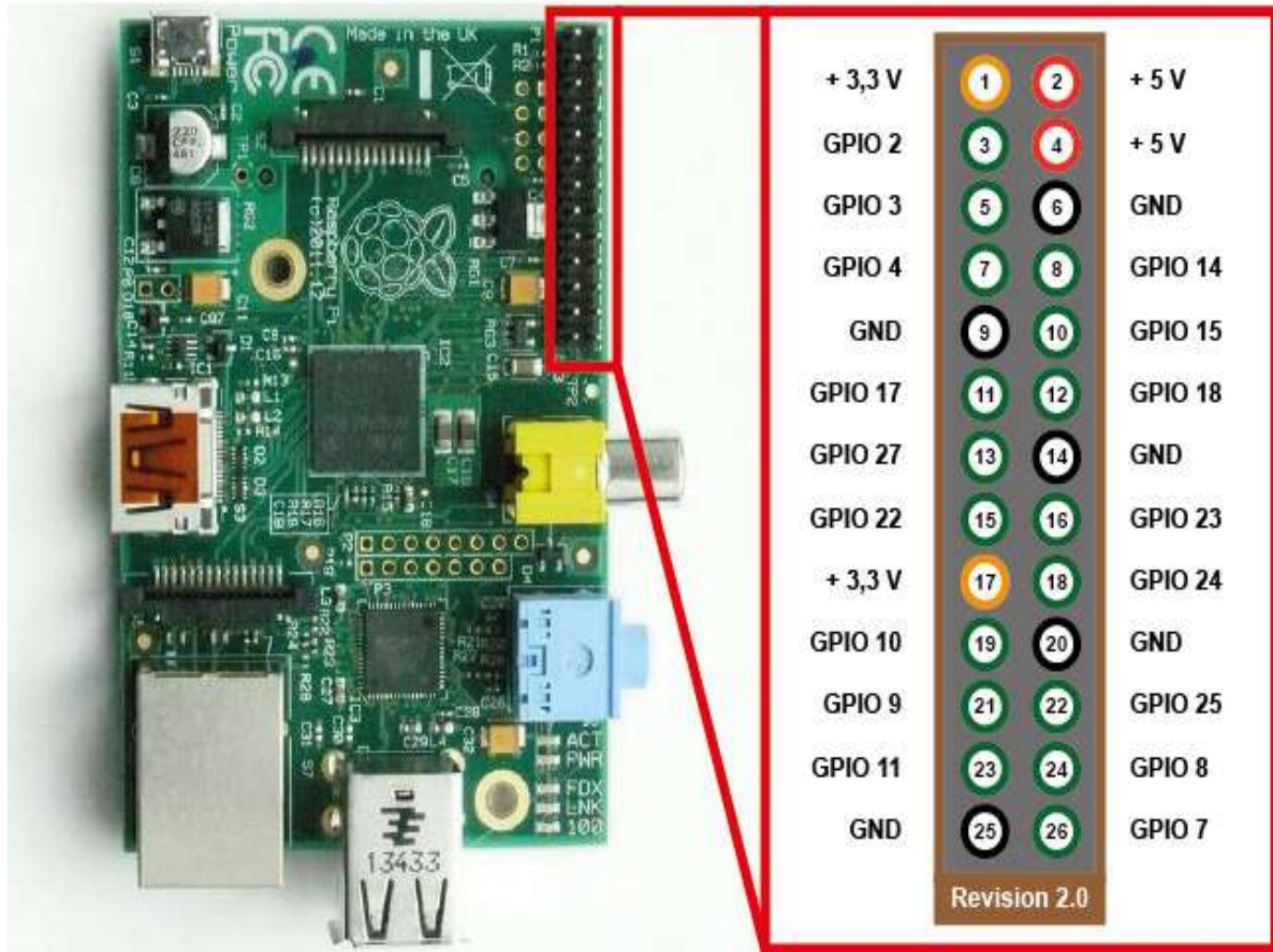


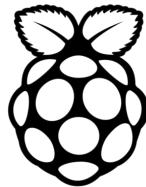
Raspberry Pi





Raspberry Pi





Raspberry Pi

B Rev 1



B Rev 2 (China)



B Rev 1 links



A



B Rev 2 (256 MB)



B Rev 2.1 (UK)



B Rev 2 (Chinese)



B Rev 2 (Blue Pi)



Compute
Module



B+



B+ (Chinese)



A+



2B



Zero



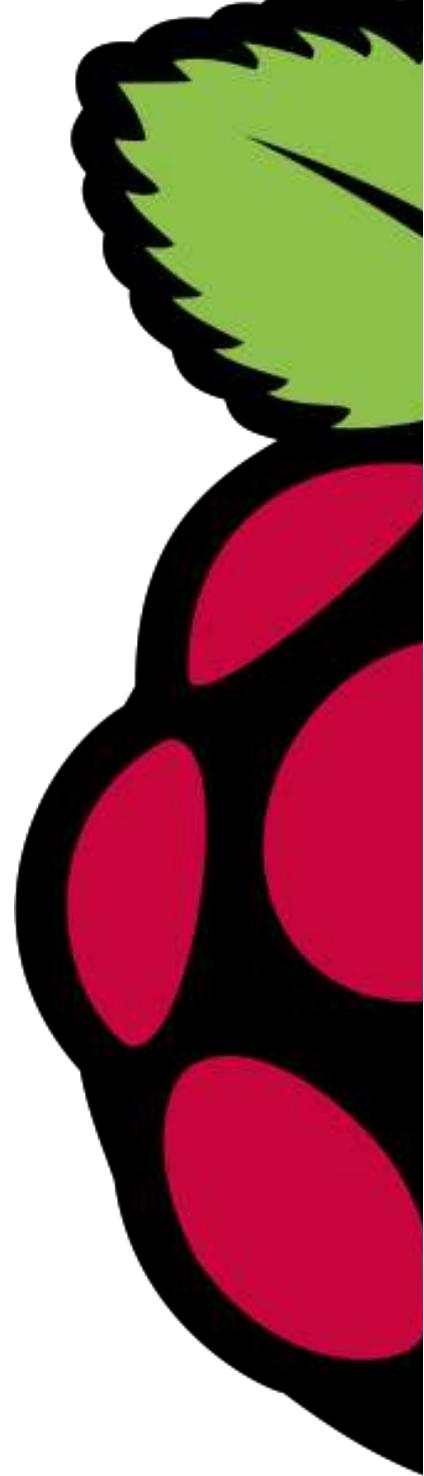
3B

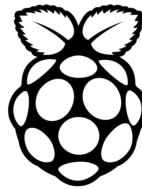


Raspberry Pi®
family

Feb 29th 2016

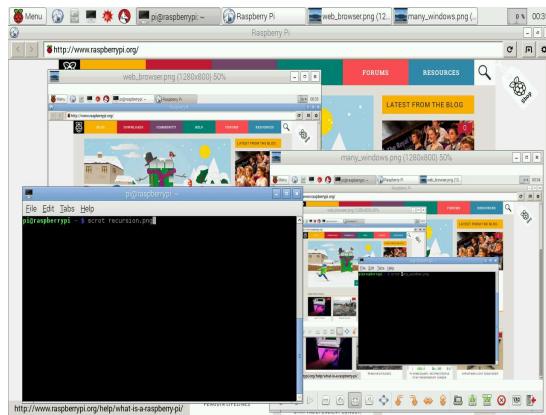
RasPi.TV





Raspberry Pi

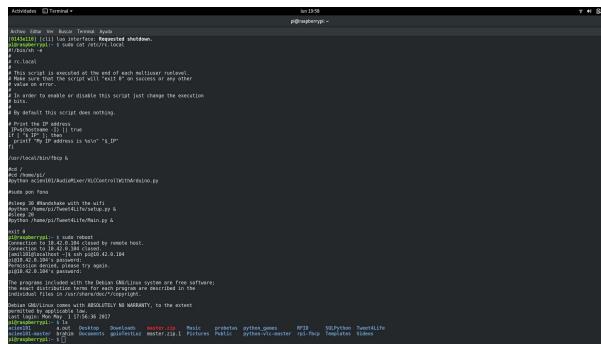
Raspbian



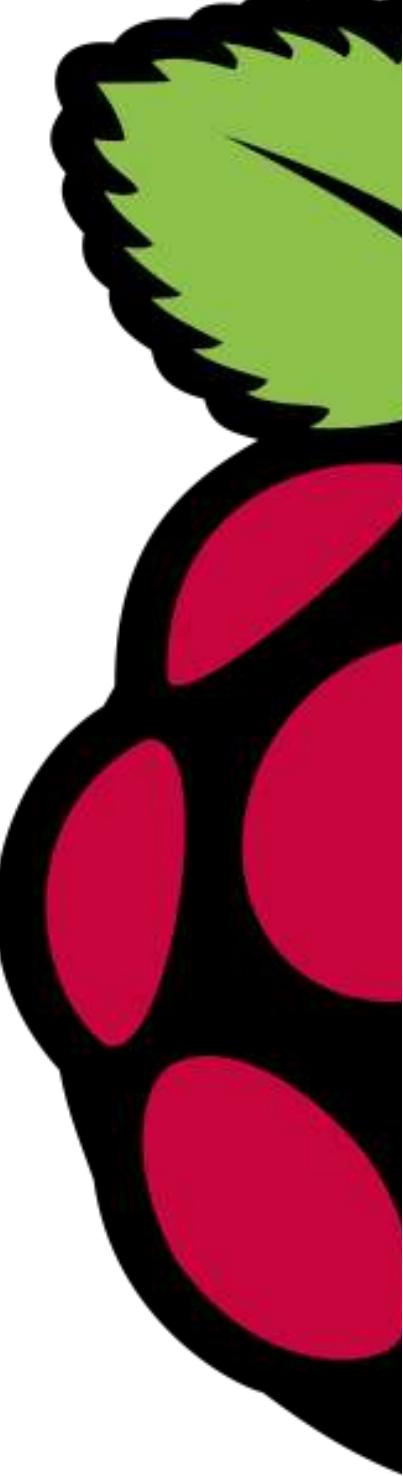
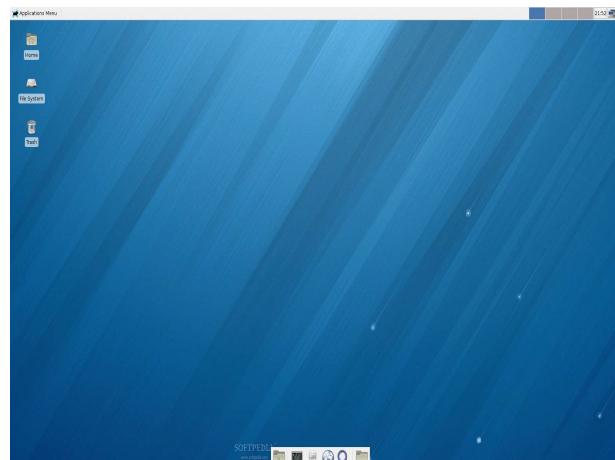
Ubuntu mate

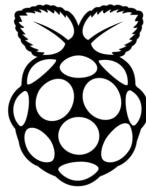


Raspbian lite



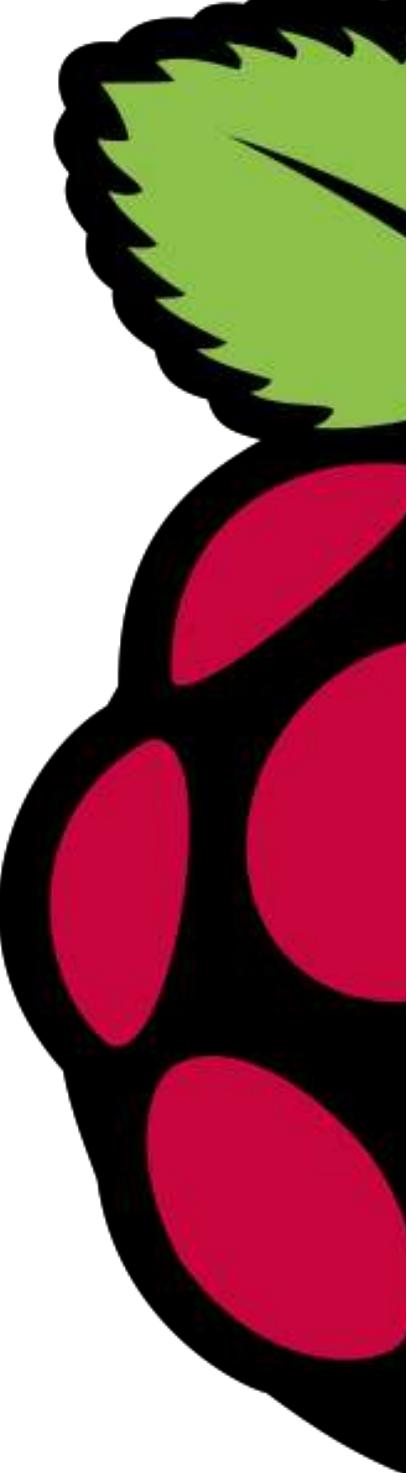
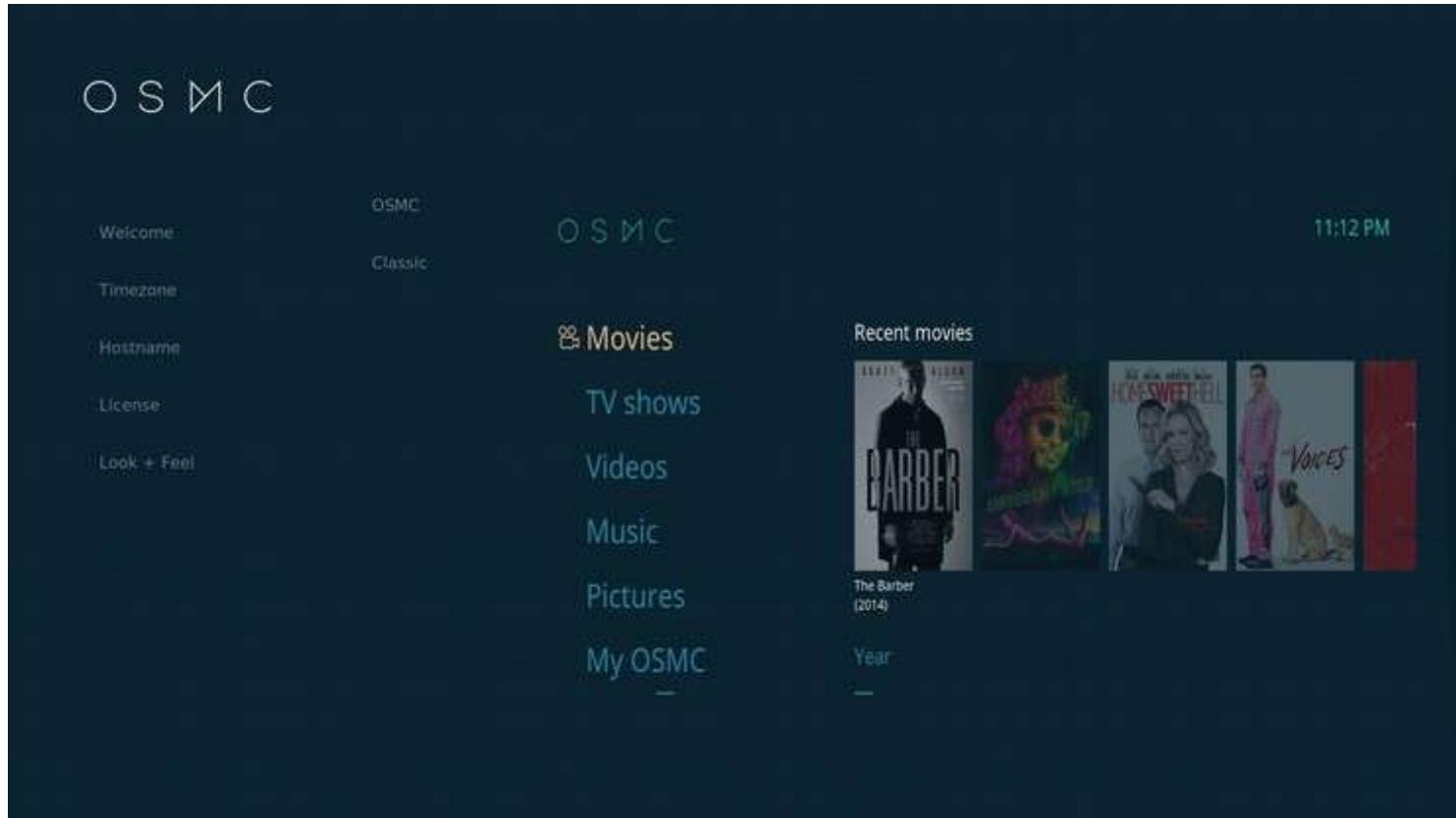
Arch Linux

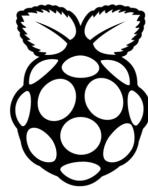




Raspberry Pi

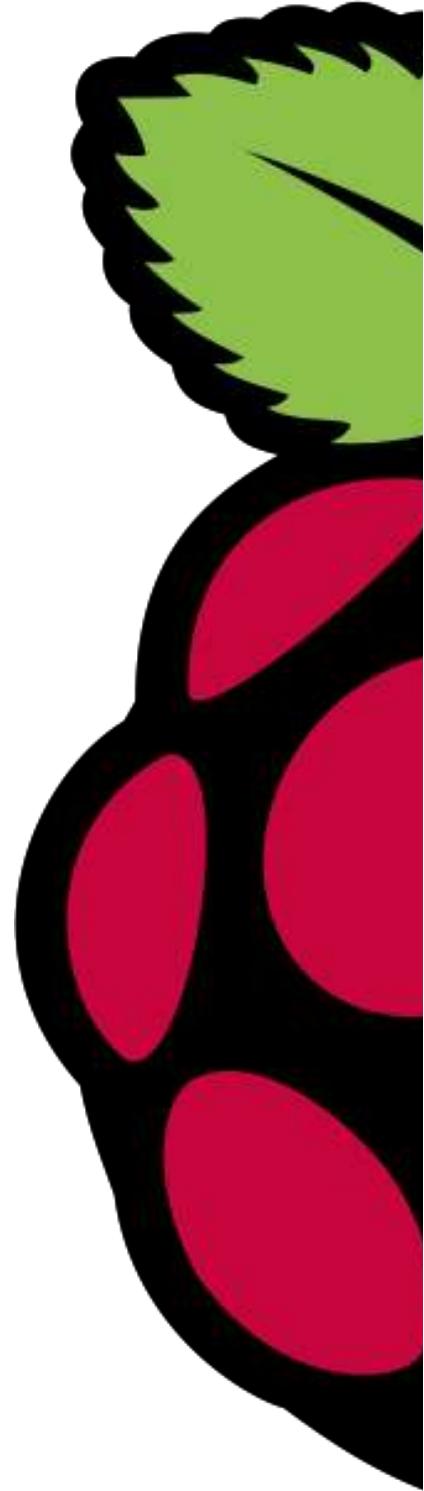
OSMC

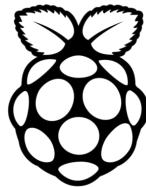




Raspberry Pi

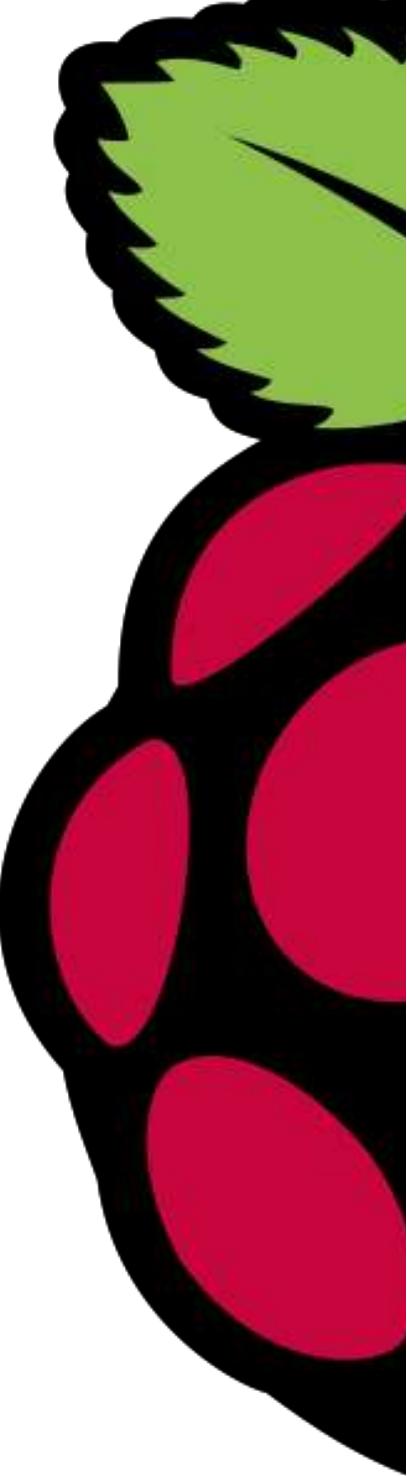
KODI

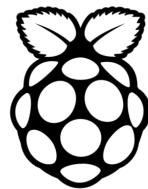




Raspberry Pi

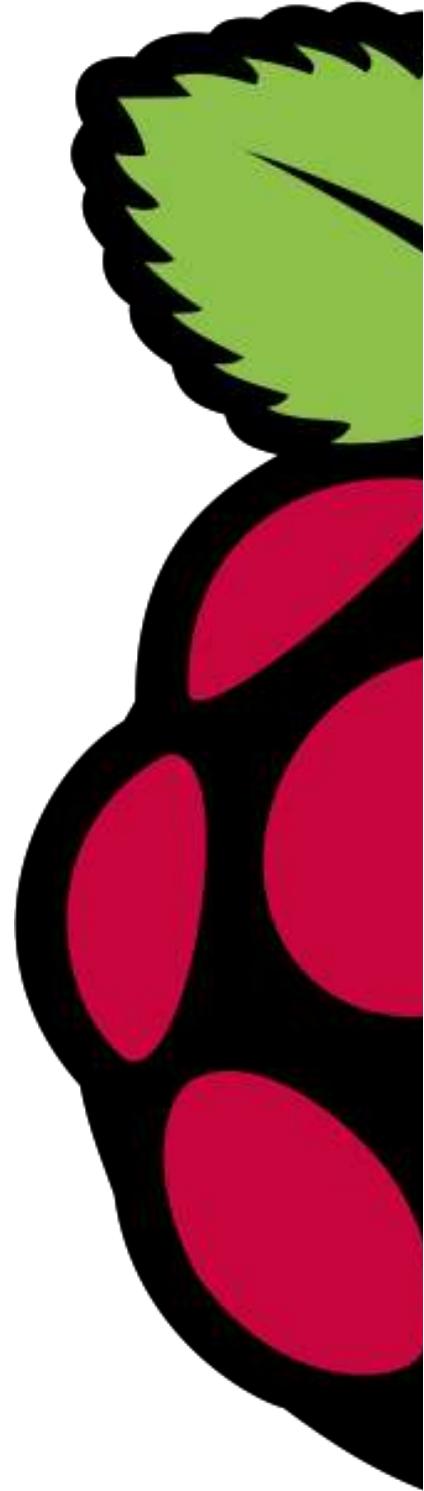
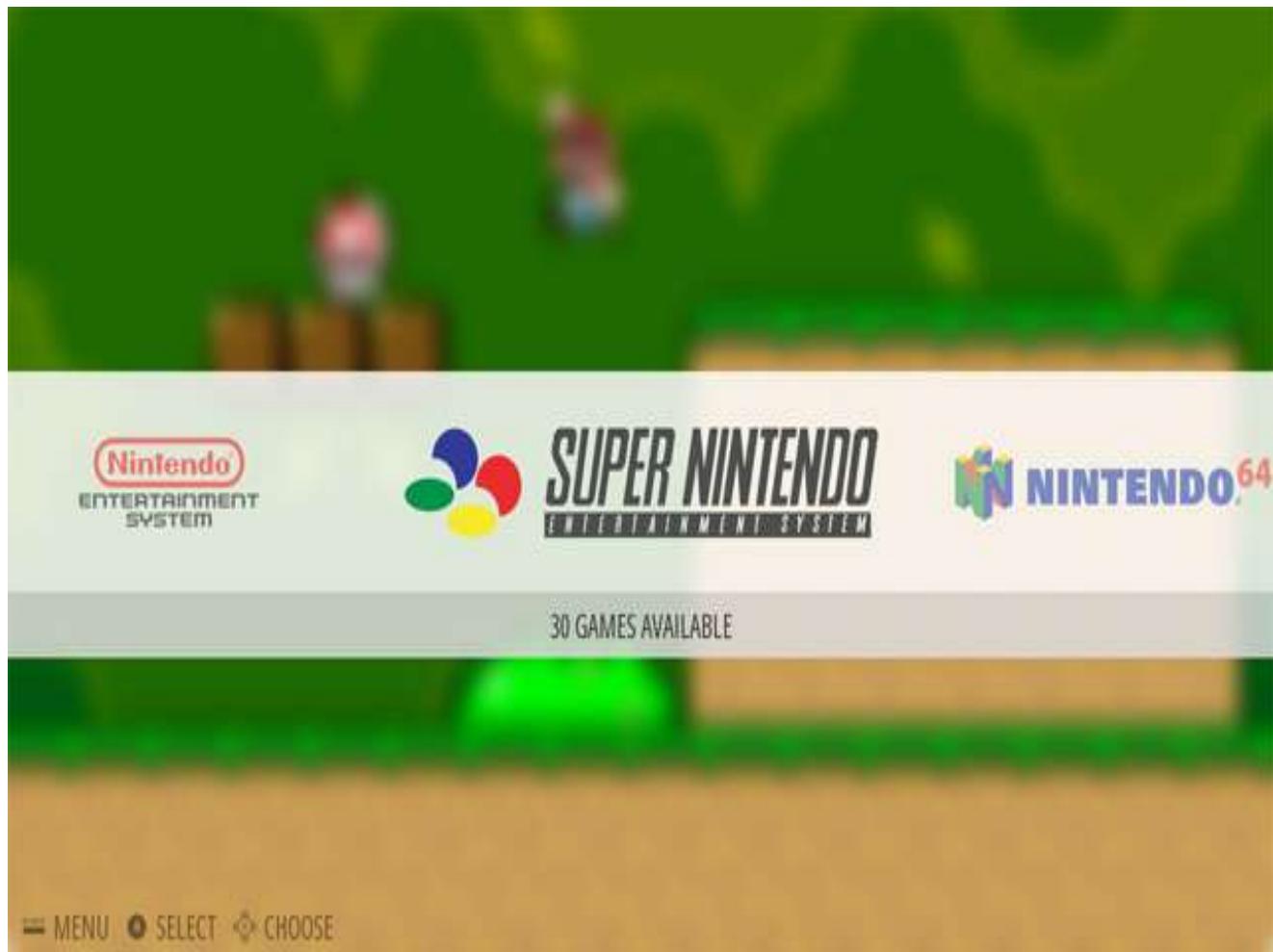
Lakka

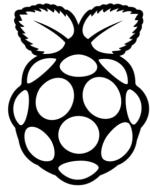




Raspberry Pi

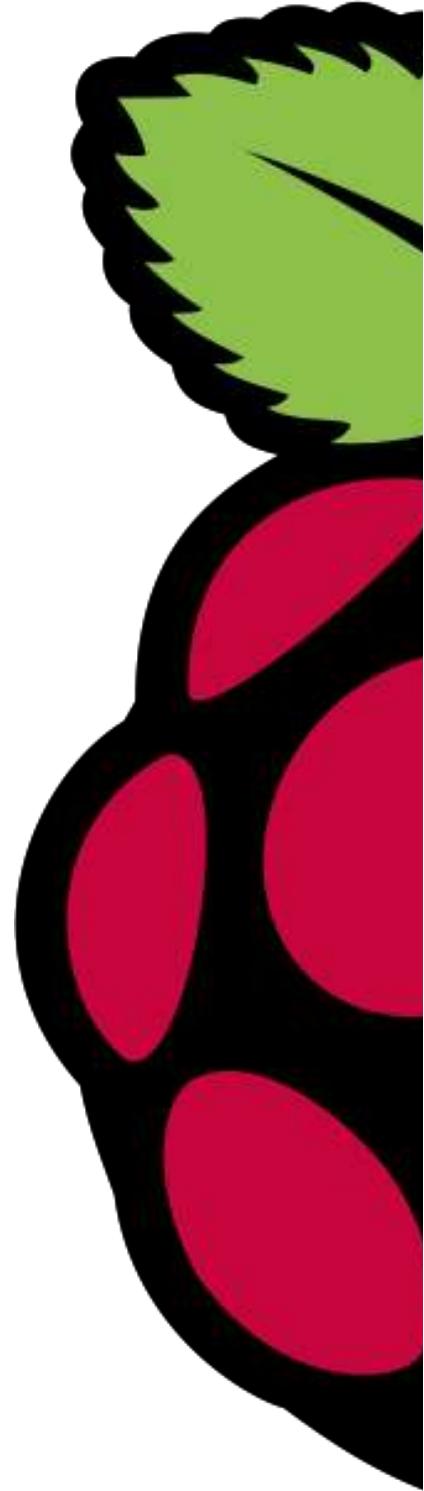
Recalbox/Retropie

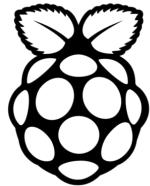




Raspberry Pi

Y... ¿Qué se puede hacer?

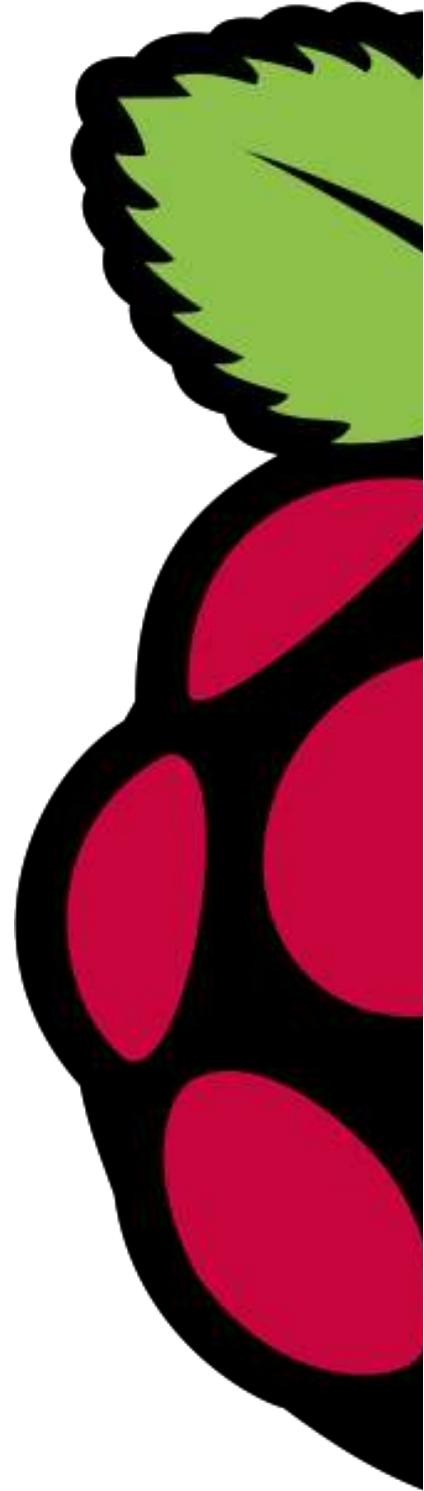


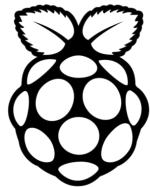


Raspberry Pi

Eso depende de tí...

pero estos son algunos ejemplos

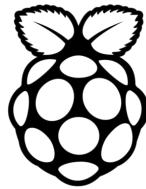




Raspberry Pi

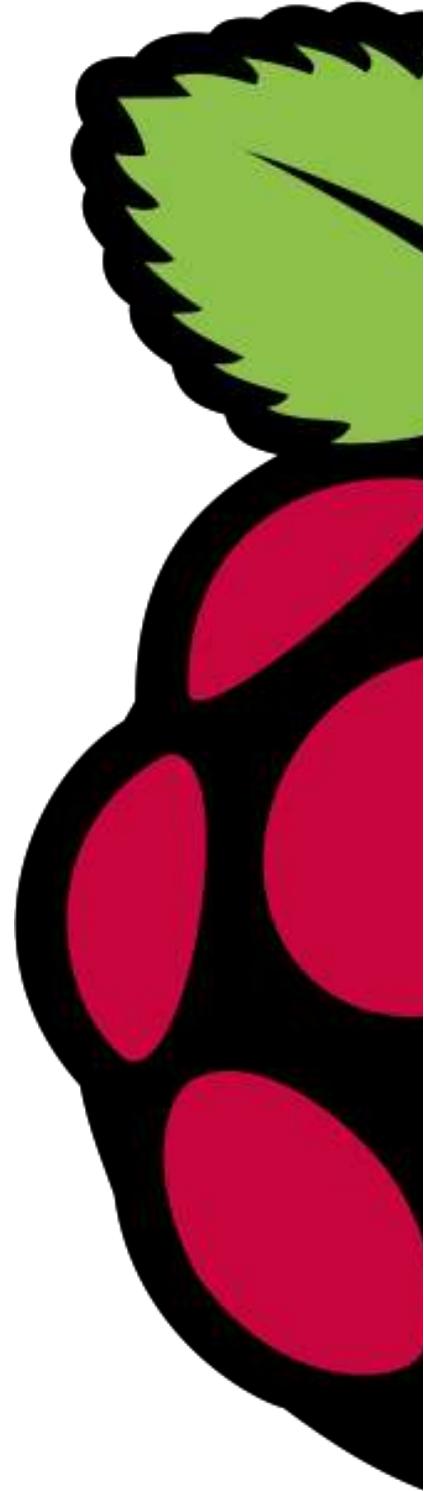
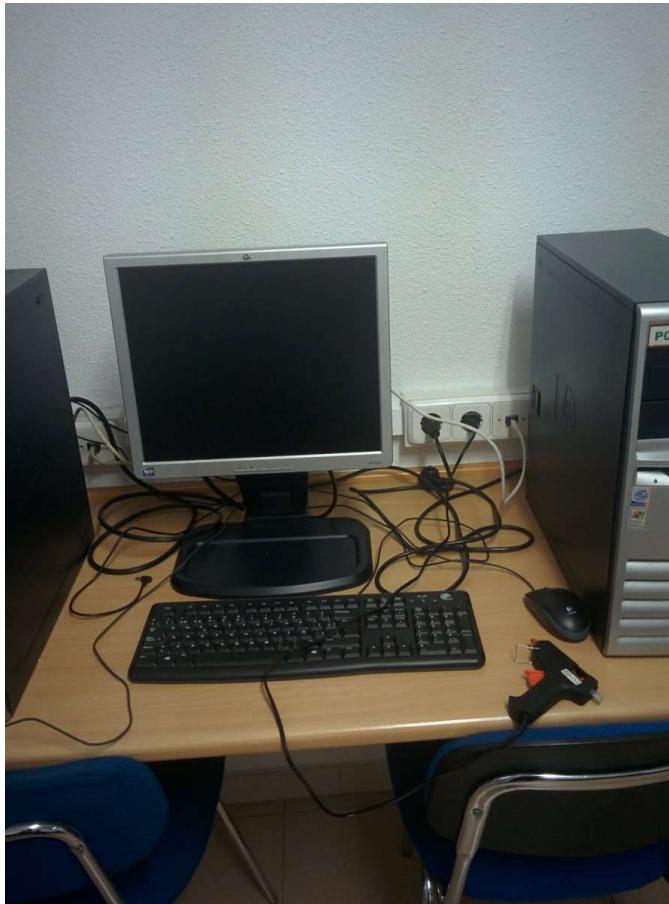
NFC's + Arduino + Raspberry Pi

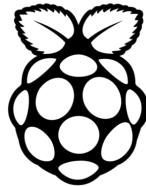
//video



Raspberry Pi

En mi colegio mayor





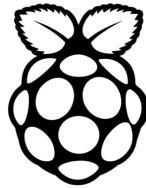
Raspberry Pi

Sitio: Sala de informática de mi colegio mayor

Servicios que tiene:

- * Samba
- * FTP
- * DLNA
- * Bot de twitter
- * Transmission
- * Flexget
- * VNC
- * SSH, para cuando estoy aburrido y quiero hacer Nmap o cosas así
- * IDE en la nube (cloud9)

Basicamente, intento utilizar todos los protocolos que me deja mi red



Raspberry Pi

Samba

¿Qué es?

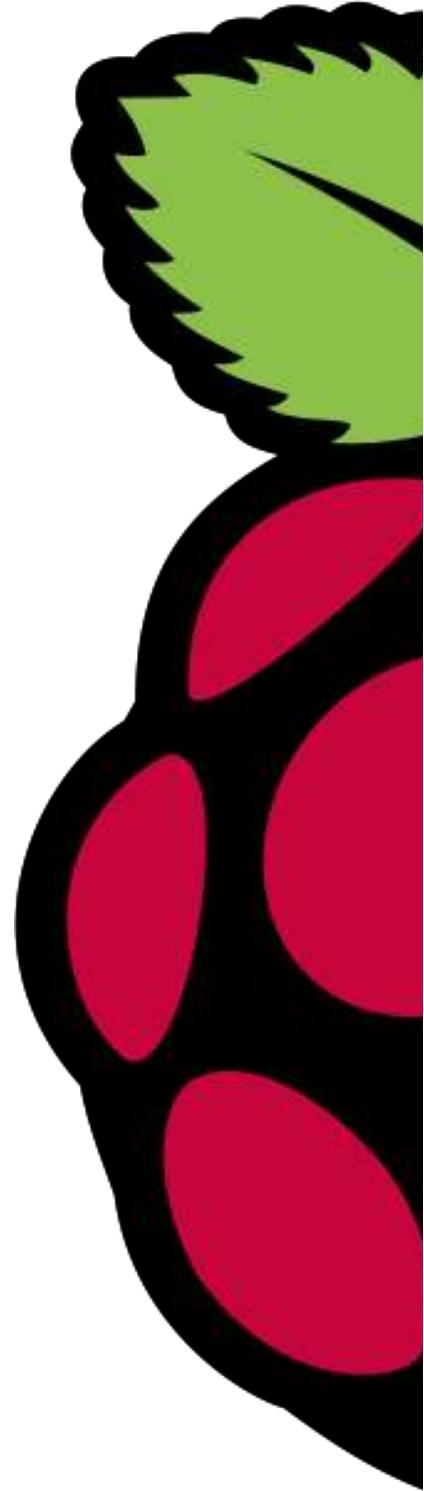
Es un protocolo para compartir archivos entre ordenadores de la misma red. Hay gran cantidad de exploradores de ficheros compatibles con Samba, en Android, IOS, Windows, Linux, etc.

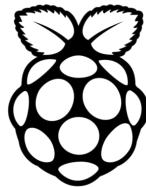
¿Cómo se instala?

```
sudo apt-get install samba samba-common-bin  
sudo nano -w /etc/samba/smb.conf
```

[Torrent]

```
path = /root/torrent  
comment = Directory for torrents  
writable = yes  
browseable = yes  
guest ok = yes  
create mask = 0777  
directory mask = 0777
```

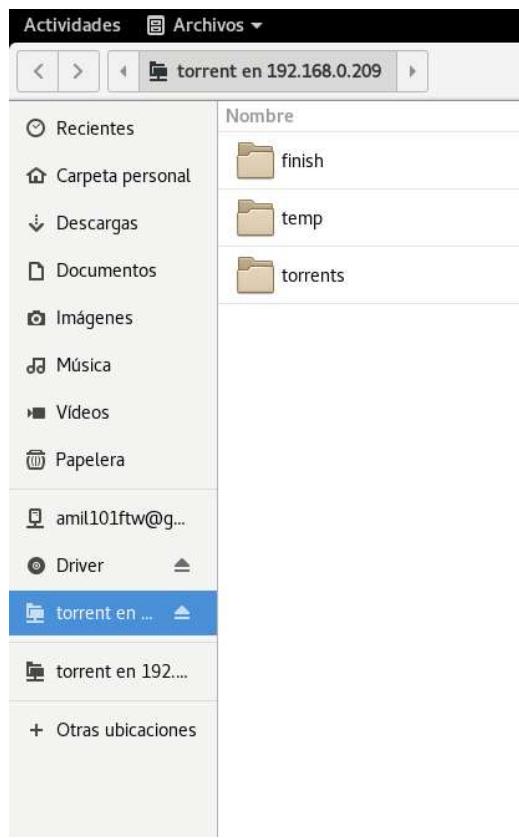
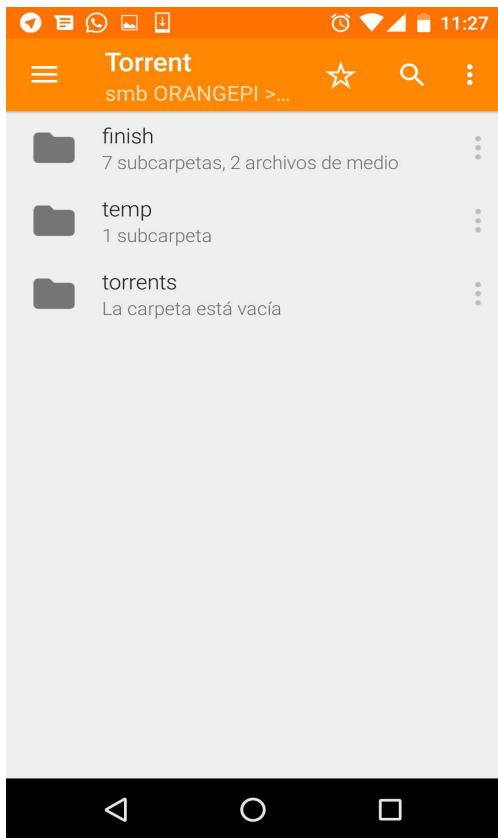


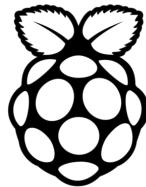


Raspberry Pi

Samba

Resultado:

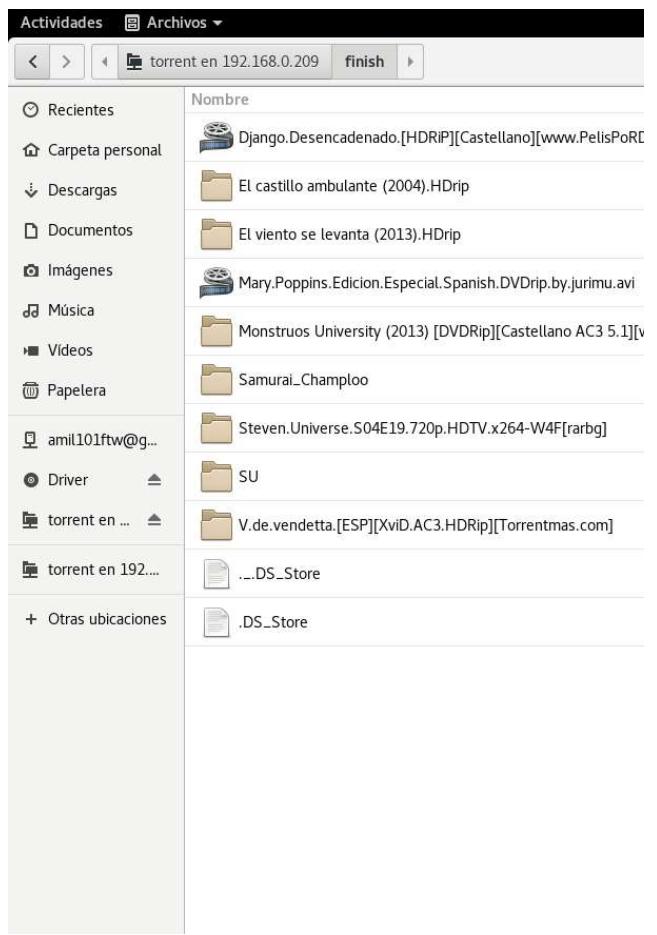
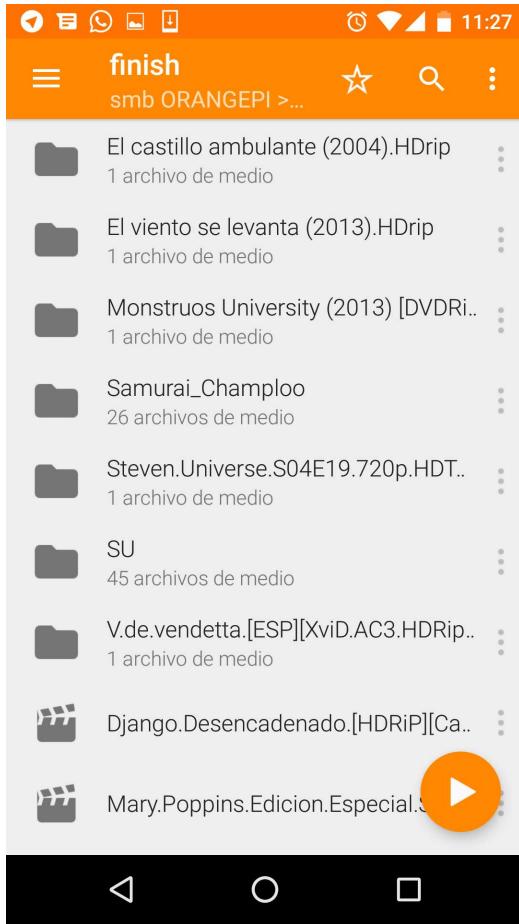


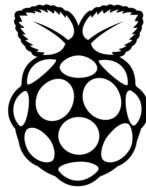


Raspberry Pi

Samba

Resultado:

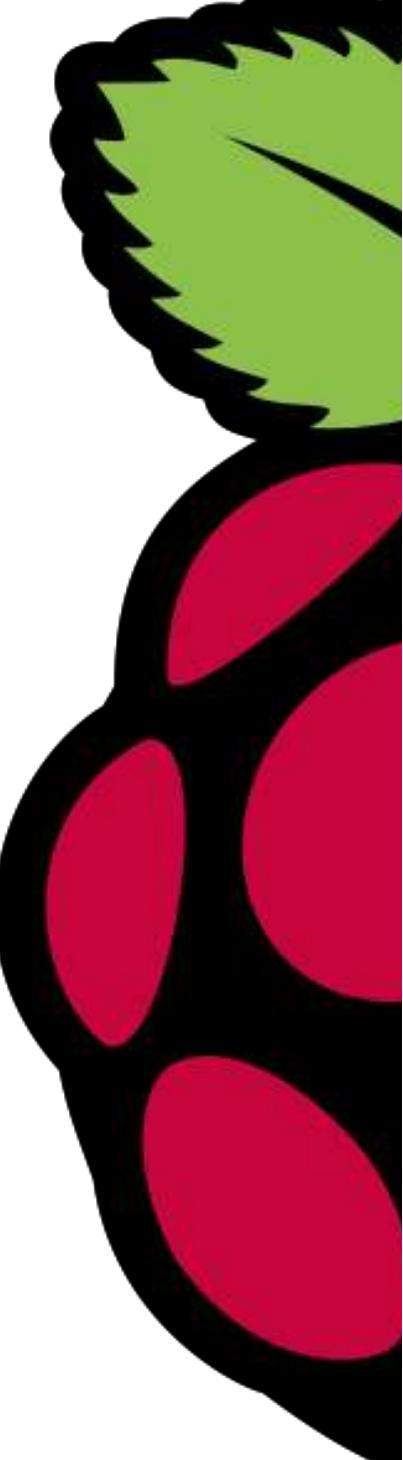
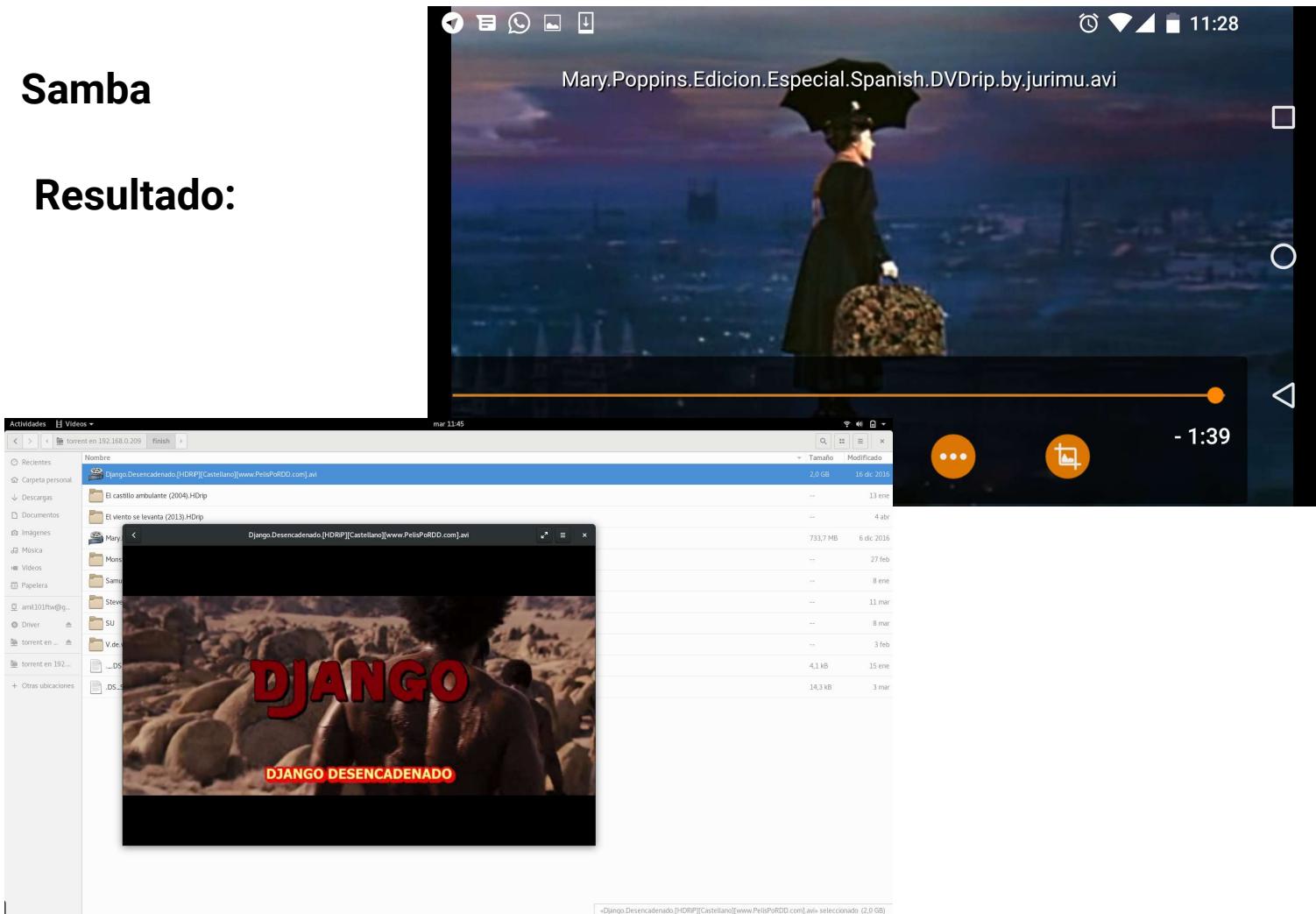


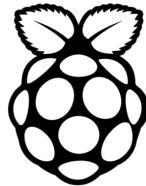


Raspberry Pi

Samba

Resultado:





Raspberry Pi

DLNA/UPnP

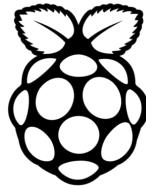
¿Qué es?

DLNA (Digital Living Network Alliance) es una organización fundada por Sony en 2003. Define unos standards para permitir compartir archivos en la misma red. DLNA está basado en UpnP. Lo divertido es que hay más de 9000 dispositivos con este protocolo, y posiblemente tu Smart TV lo tenga!

¿Cómo se instala?

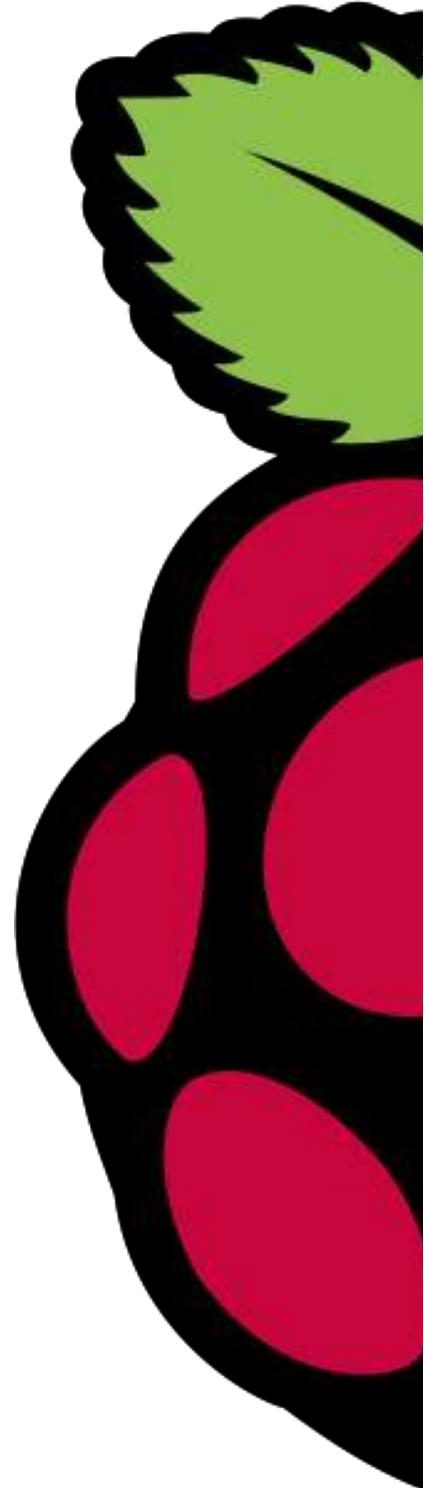
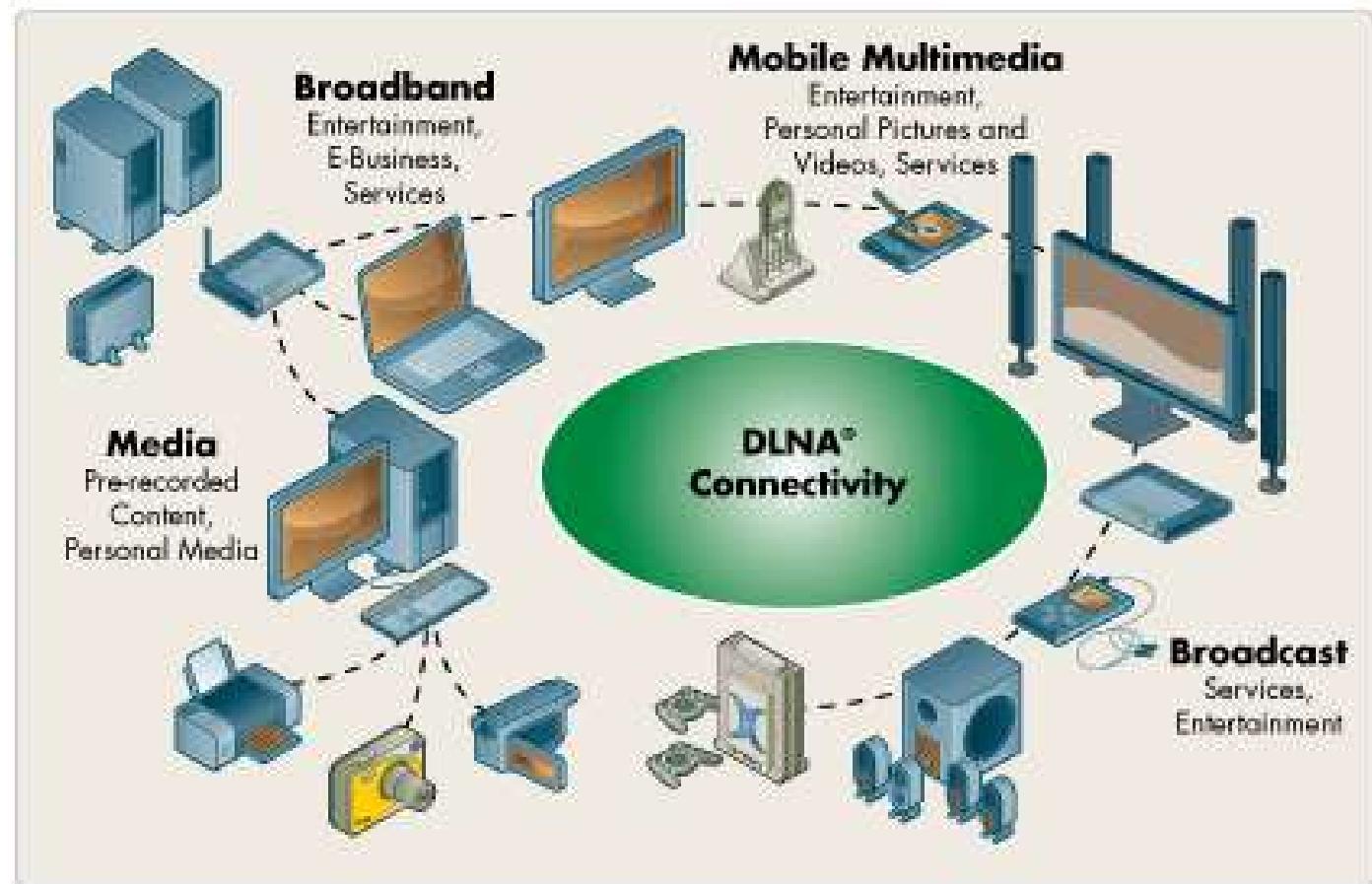
```
apt-get install minidlna  
sudo nano/etc/minidlna.conf
```

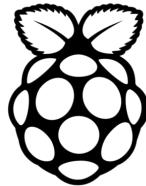
```
media_dir=A,/mnt/ext/Music  
media_dir=P,/mnt/ext/Pictures  
media_dir=V,/mnt/ext/Videos  
friendly_name=Raspberry Pi  
inotify=yes
```



Raspberry Pi

DLNA/UPnP





Raspberry Pi

Transmission y Flexget

¿Qué es?

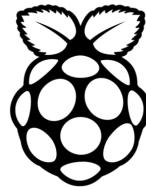
Transmission es un cliente P2P.

Flexget es un sistema de automatización de descarga de torrents escrito en python, que se subscribe a un rss con los links de descarga, y cuando sale una publicación nueva directamente se la descarga.

¿Cómo se instala?

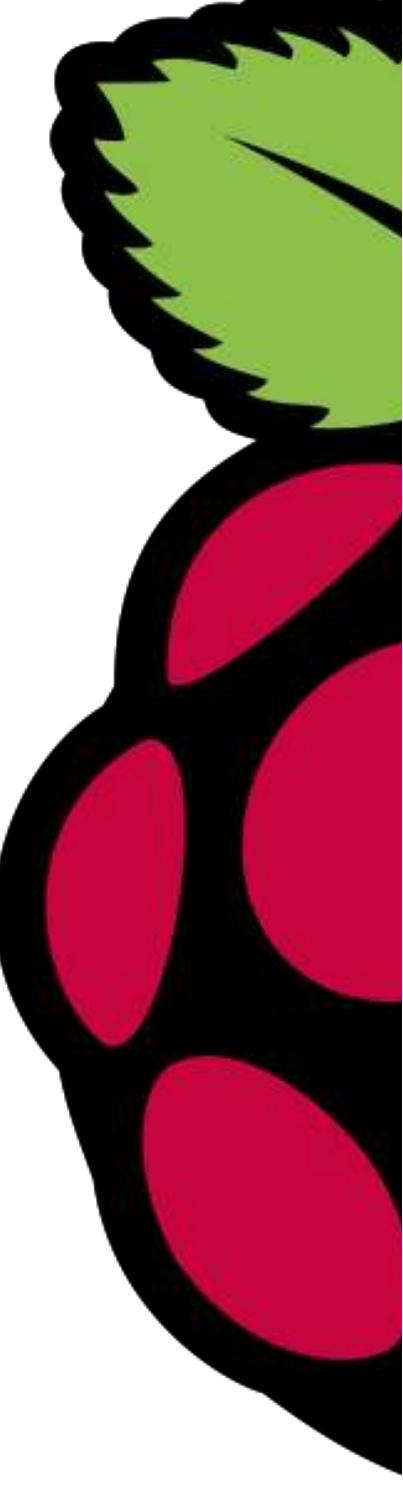
```
sudo apt-get install transmission-daemon  
sudo nano /etc/transmission-daemon/settings.json
```

```
sudo pip install flexget  
sudo mkdir /home/pi/.flexget  
sudo chown -R pi /home/pi/.flexget  
sudo chgrp -R pi /home/pi/.flexget  
nano /home/pi/.flexget/config.yml
```



Raspberry Pi

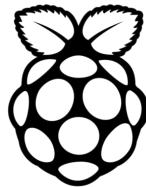
Transmission y Flexget



A screenshot of a web browser window showing the Transmission torrent client interface. The browser title bar reads "Actividades Navegador web Chromium". The address bar shows the URL "192.168.0.209:9091/transmission/web/". The main content area displays several torrent download tasks:

- Django.Desencadenado.[HDRip][Castellano][www.PelisPoRDD.com].avi
2.03 GB, uploaded 7.80 GB (Ratio 3.83)
- El castillo ambulante (2004).HDrip
1.65 GB, uploaded 16.7 GB (Ratio 10.0)
- El viento se levanta (2013).HDrip
1.32 GB, uploaded 4.25 GB (Ratio 3.2)
- Mary.Poppins.Edicion.Especial.Spanish.DVDrip.by.jurimu.avi
733.6 MB, uploaded 4.62 GB (Ratio 6.55)
- Monstruos University (2013) [DVDRip][Castellano AC3 5.1][www.lokotorrents.com]
1.28 GB, uploaded 2.00 GB (Ratio 1.55)
- Steven.Universe.S04E19.720p.HDTV.x264-W4F[rarbg]
176.9 MB, uploaded 961.9 MB (Ratio 4.95)
- V.de.vengetta.[ESP][XviD.AC3.HDRip][Torrentmas.com]
1.52 GB, uploaded 8.10 GB (Ratio 5.33)

The browser toolbar at the bottom includes icons for back, forward, search, and other navigation functions.

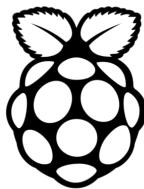


Raspberry Pi

Transmission y Flexget

Flexget:

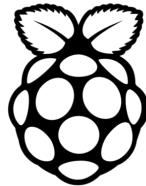
```
tasks:  
  test task:  
    rss: http://showrss.info/show/589.rss  
    all_series: yes  
    transmission:  
      host: localhost  
      port: 9091  
      username: "  
      password: "  
      ratio: -1  
      main_file_only: yes  
      path: /root/torrent/finish  
      addpaused: no  
      skip_files:  
        - '*.nfo'  
        - '*.sfv'  
        - '*[sS]ample*'  
        - '*.txt'
```



Raspberry Pi

Transmission y Flexget

Flexget:



Raspberry Pi

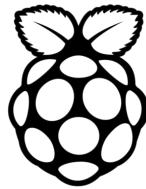
VNC

¿Qué es?

VNC es un software que nos permite tomar el control del ordenador servidor remotamente a través de un ordenador cliente, es decir, un escritorio remoto.

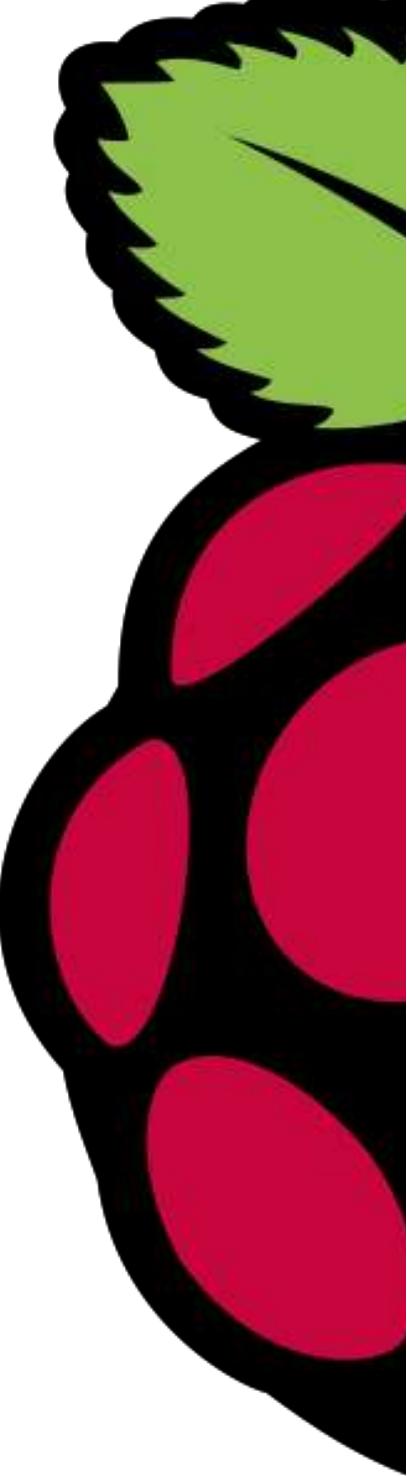
¿Cómo se instala?

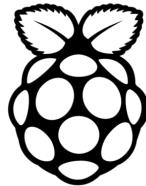
```
sudo apt-get install tightvncserver  
tightvncserver  
sudo reboot  
vncserver :0
```



Raspberry Pi

VNC





Raspberry Pi

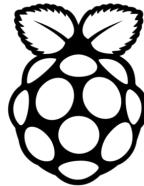
IDE en la nube, Cloud9

¿Qué es?

Un IDE en la nube es cómo el típico IDE que utilizamos para programar pero que accedemos a él desde el navegador. Cloud9 es una empresa de software libre que nos da el servicio de IDE en la nube, pero además, de poder descargarlo y hacerlo funcionar desde nuestra raspberry.

¿Cómo se instala?

```
wget http://nodejs.org/dist/v0.10.28/node-v0.10.28-linux-arm-pi.tar.gz  
cd /usr/local  
tar -xzf ~/node-v0.10.28-linux-arm-pi.tar.gz --strip=1  
export NODE_PATH="/usr/local/lib/node_modules"  
git clone git://github.com/c9/core.git c9sdk  
cd c9sdk  
scripts/install-sdk.sh
```



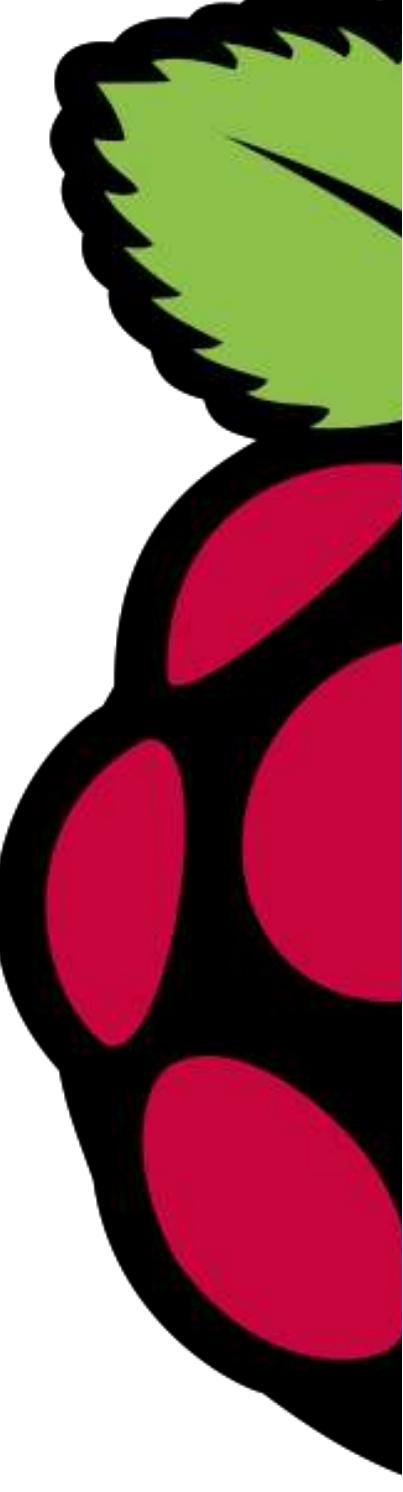
Raspberry Pi

IDE en la nube, Cloud9

Hacemos ...

```
./server.js -l 0.0.0.0
```

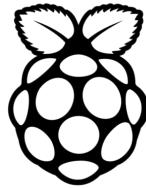
y boalá



A screenshot of the Cloud9 IDE interface. The workspace shows three tabs: 'edit_session.js' (containing code for a BackgroundTokenizer), 'hello.js' (containing a simple HTTP server script), and 'package.json' (containing the project's package information). The 'hello.js' tab is active, showing the following code:

```
// Load the http module to create an http server.  
var http = require('http');  
  
// Configure our HTTP server to respond with Hello World to clients.  
var server = http.createServer(function (request, response) {  
    // Send the HTTP header  
    // We specify text/plain as the content type.  
    // The content itself is just the string "Hello World"  
    response.writeHead(200, {"Content-Type": "text/plain"});  
    response.end("Hello World222\n");  
});  
  
// Listen on port 8000, IP defaults to 127.0.0.1  
server.listen(process.env.PORT);  
  
// Put a friendly message on the terminal  
console.log("Server running at http://127.0.0.1:8000/");
```

The bottom status bar indicates the file is a JavaScript file (9:1), has 2 spaces, and is currently being edited.



Raspberry Pi

Bot de Twitter

¿Qué hace?

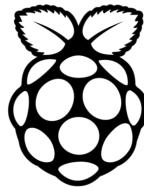
Me escribe un mensaje con la dirección IP de la placa para que sea mucho más sencillo saber donde está conectada.

```
import DATA
import tweepy
import sys

auth = tweepy.OAuthHandler(consumer_key,
consumer_secret)
auth.set_access_token(access_token,
access_token_secret)

api = tweepy.API(auth)

api.send_direct_message(user = "amil101", text =
sys.argv[1])
```

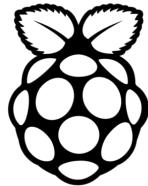


Raspberry Pi

Bot de Twitter

```
python /root/sendIP.py `sudo ifconfig | grep "inet " | grep -Fv 127.0.0.1 | awk '{print $2}'`
```

The screenshot shows a Twitter application interface. In the center, a tweet from the account '@Amil101BOT' is displayed, containing a series of IP addresses: 'addr:192.168.0.82', 'addr:192.168.0.209', 'addr:192.168.0.209', 'addr:192.168.0.209', 'addr:192.168.0.209', 'addr:192.168.0.209', 'addr:192.168.0.209', 'addr:192.168.0.209', and 'addr:192.168.0.209'. The tweet was posted on February 25th at 12:00 h. The background of the application shows various trending topics and user profiles.



Raspberry Pi

A2DP

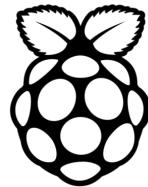
¿Qué es?

A2DP, Advanced Audio Distribution Profile, es un perfil de Bluetooth que nos permite compartir audio remotamente a través de bluetooth desde un emisor A2DP (un smartphone, linux, etc.) a un receptor A2DP (nuestra Raspberry Pi).

¿Cómo instalarlo?

Para instalarlo primero necesitamos nuestro módulo bluetooth y configurar los drivers.

<https://gist.github.com/oleq/24e09112b07464acbda1>

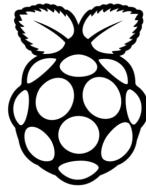


Raspberry Pi

Pi Music Box / Mopidy

The smartphone screen displays the "Now Playing" interface of the Pi Music Box app. At the top, it shows signal strength, time (00:28), battery level (32%), and a search icon. Below the header, there's a large album art image of Jack White sitting on a chair surrounded by three women with wings, with the title "Three Women" and the artist "Jack White - Lazaretto". A progress bar at the bottom indicates the song is 1:15 minutes long and has 3:57 total duration. Below the progress bar are standard media control icons: back, forward, play/pause, repeat, shuffle, and volume.

The desktop application window shows the Mopidy interface. On the left, a sidebar with icons for Playlists, Browse, Queue, Search, Radio, Fullscreen, Settings, and System. The main area is divided into two sections: "Now Playing" on the left and "Playlists" on the right. The "Now Playing" section lists tracks from various playlists like "Spotify Starred Tracks", "mattheus", "muse", and "daft punk live". The "Playlists" section lists numerous playlists such as "Alive: 2007 (Live)", "Daft Punk", "Robot Rock / Oh Yeah", "Touch It / Technologic", etc. At the bottom, there's a track preview for "Don't Panic" by Coldplay and a play/pause button.



Raspberry Pi

Pi Music Box / Mopidy

¿Cómo se instala?

```
wget -q -O - https://apt.mopidy.com/mopidy.gpg | sudo apt-key add -
sudo wget -q -O /etc/apt/sources.list.d/mopidy.list https://apt.mopidy.com/jessie.list
sudo apt-get update
sudo apt-get install mopidy
```

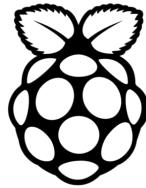
¿Cómo se configura?

Para instalar una extensión, como por ejemplo la de spotify:

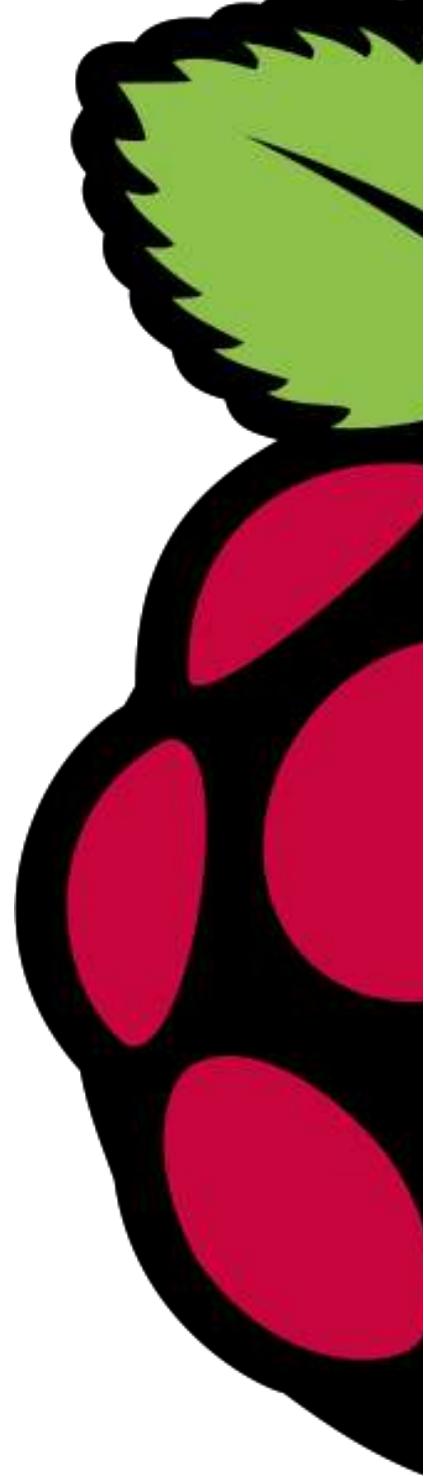
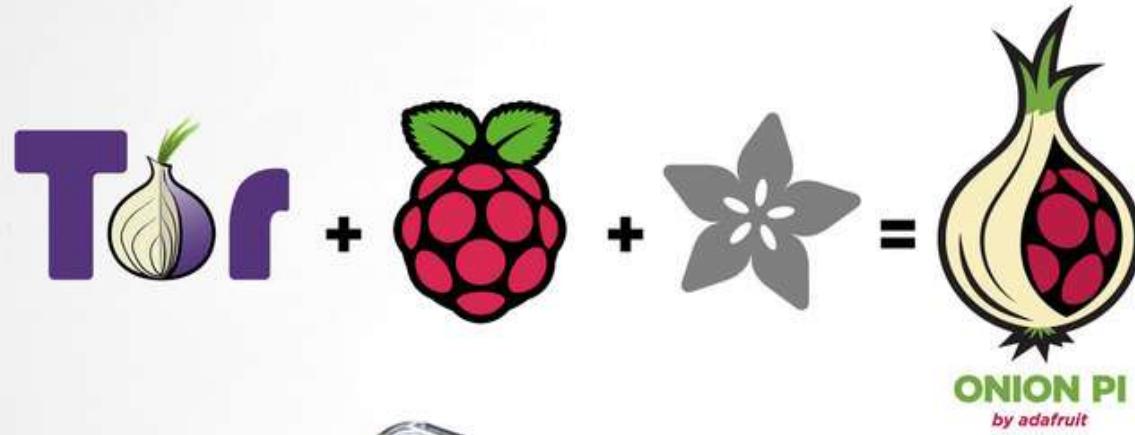
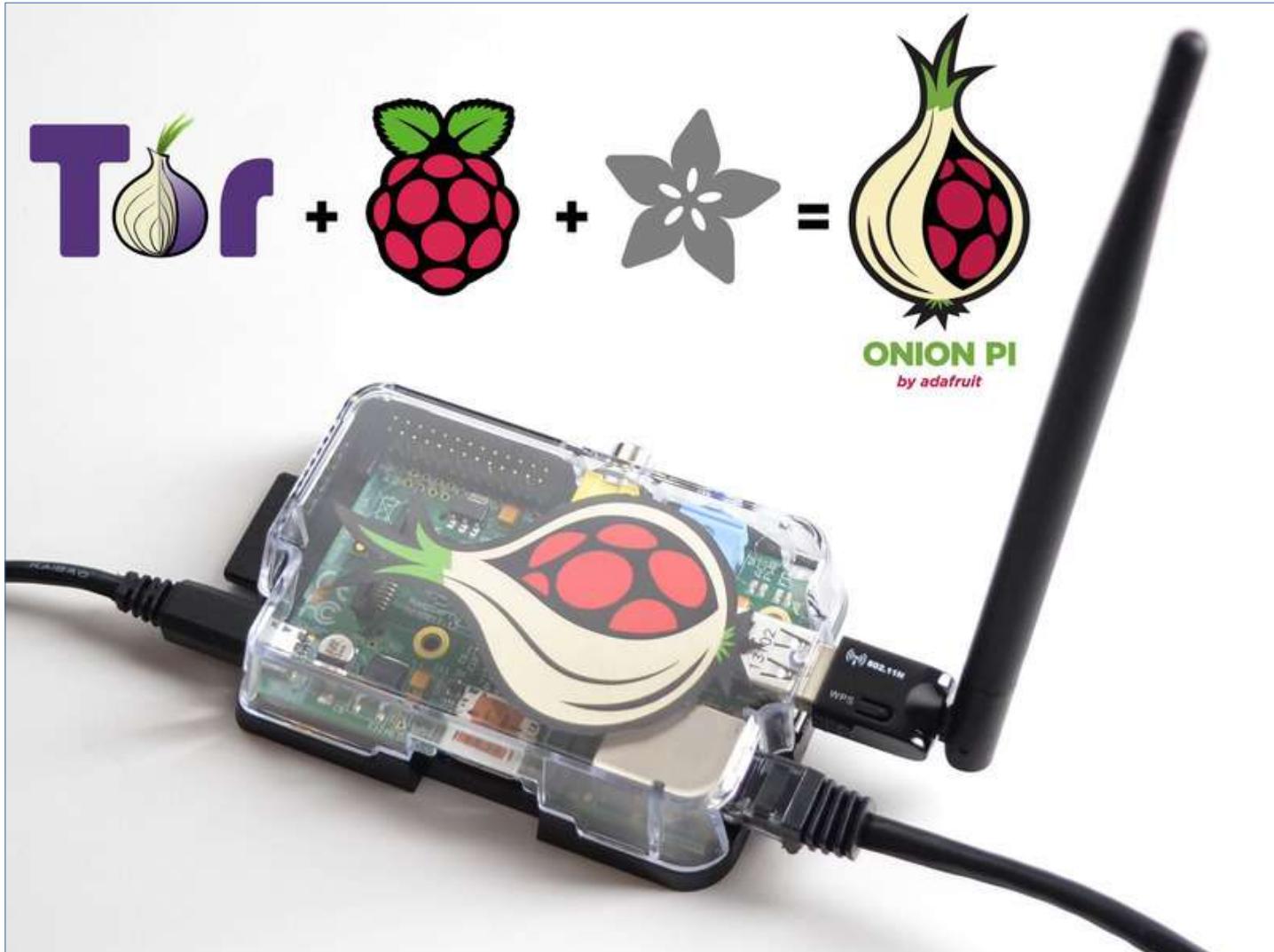
```
sudo apt-get install mopidy-spotify
```

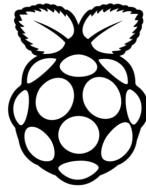
Nos vamos a `~/.config/mopidy/mopidy.conf` y añadimos

```
[spotify]
username = alice
password = secret
```

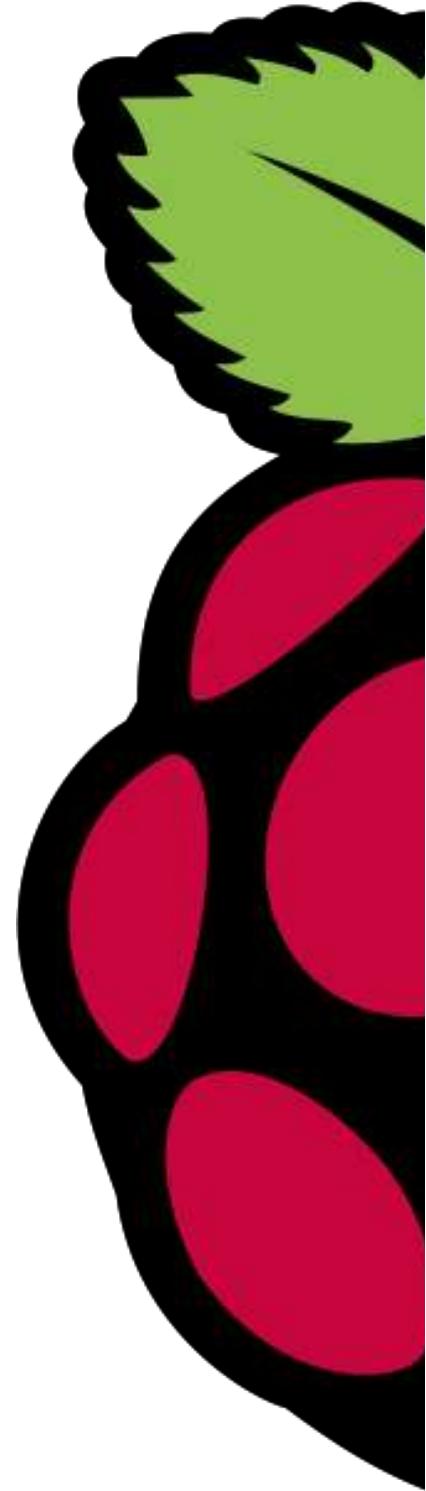


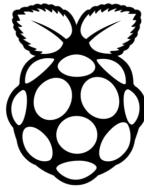
Raspberry Pi





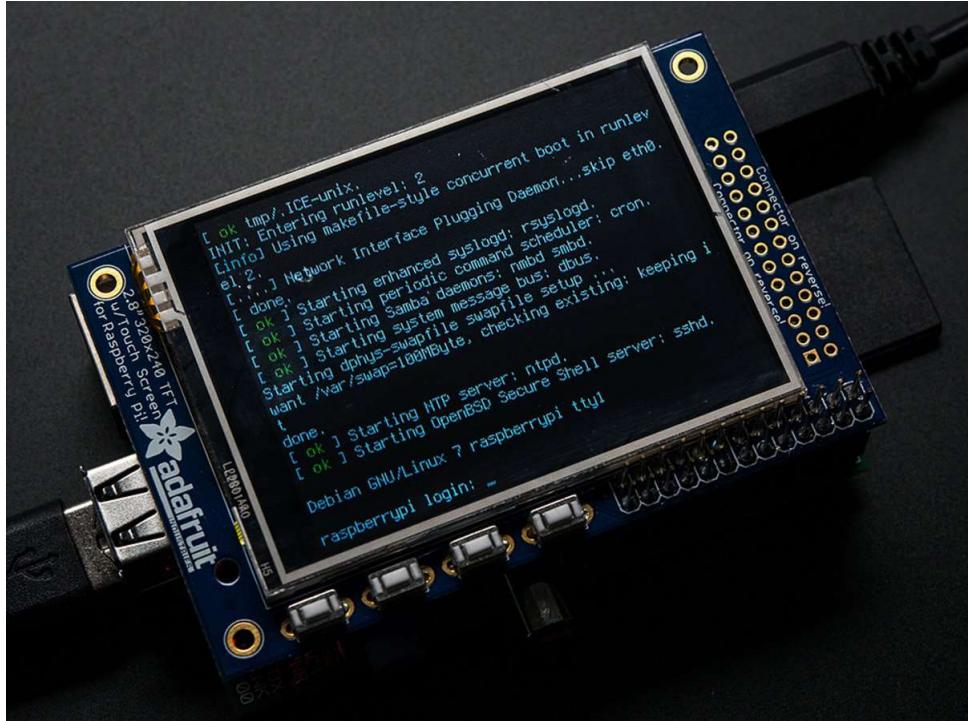
Raspberry Pi

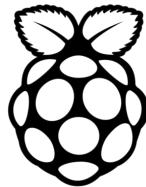




Raspberry Pi

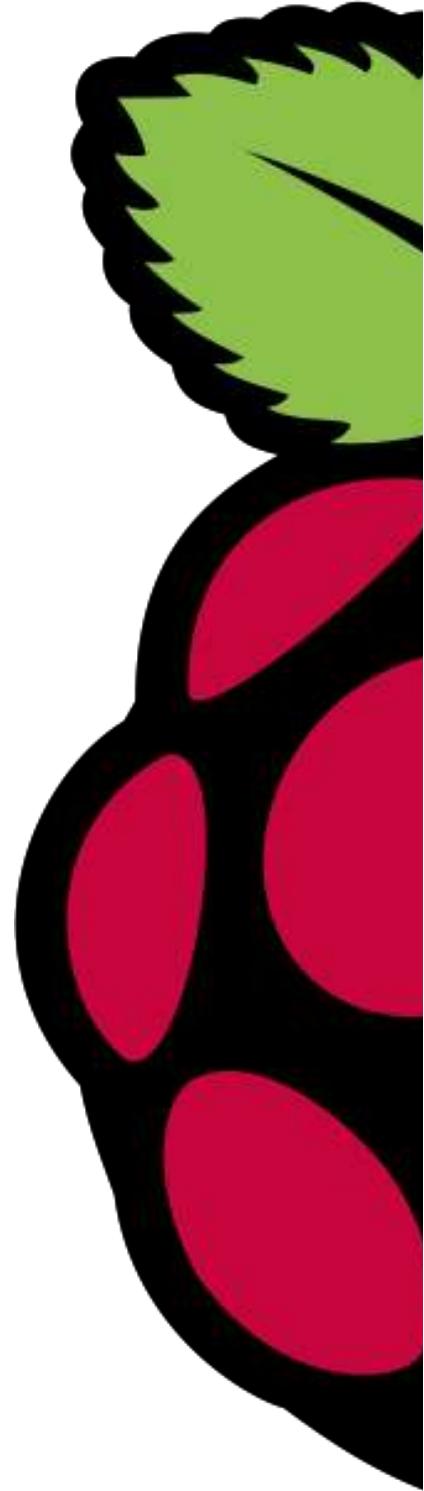
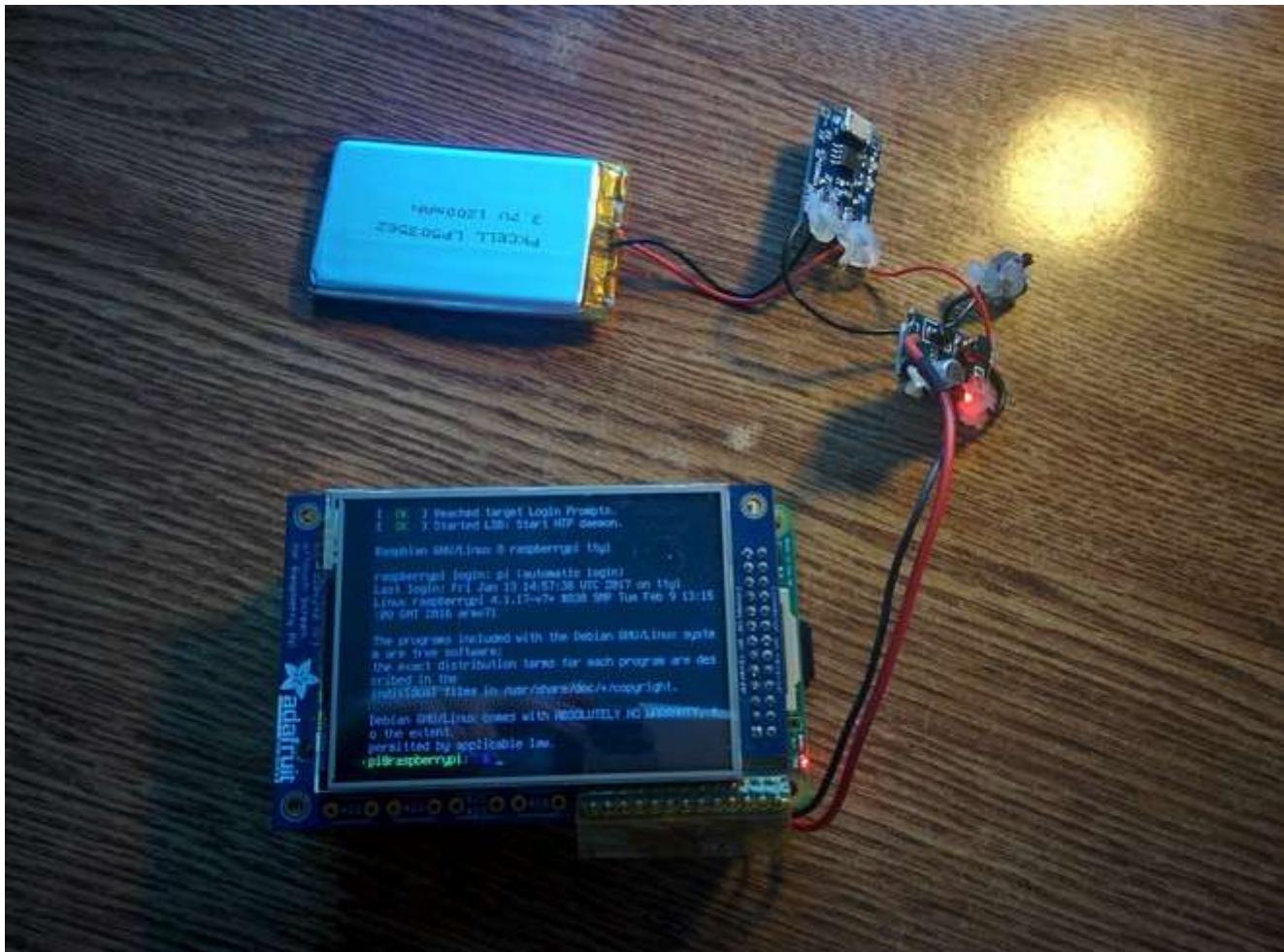
Raspberry + TFT

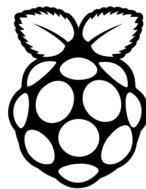




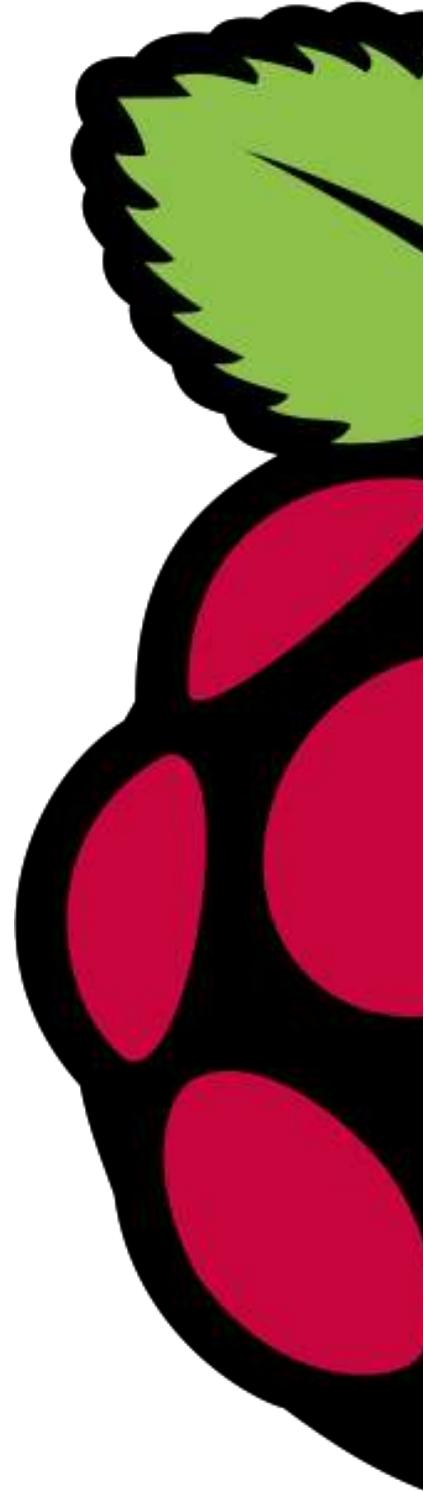
Raspberry Pi

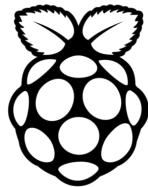
Raspberry + TFT



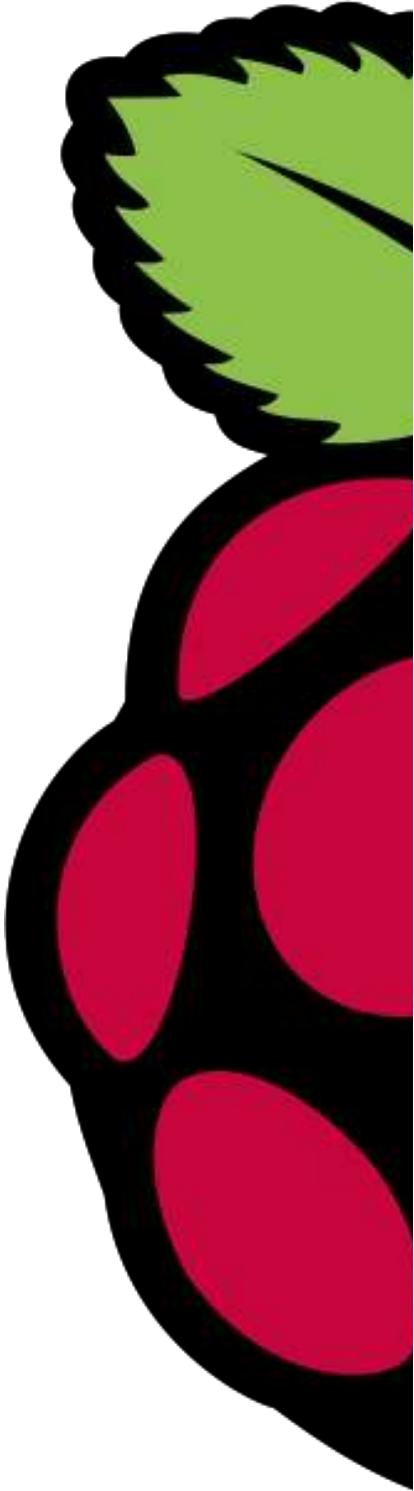


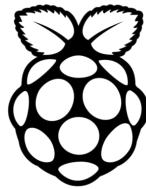
Raspberry Pi



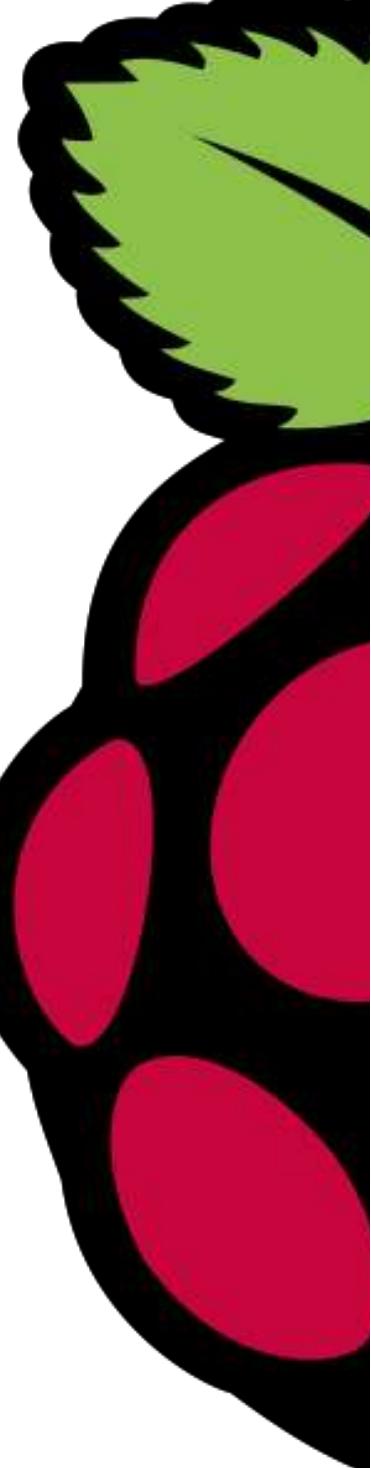


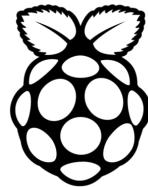
Raspberry Pi



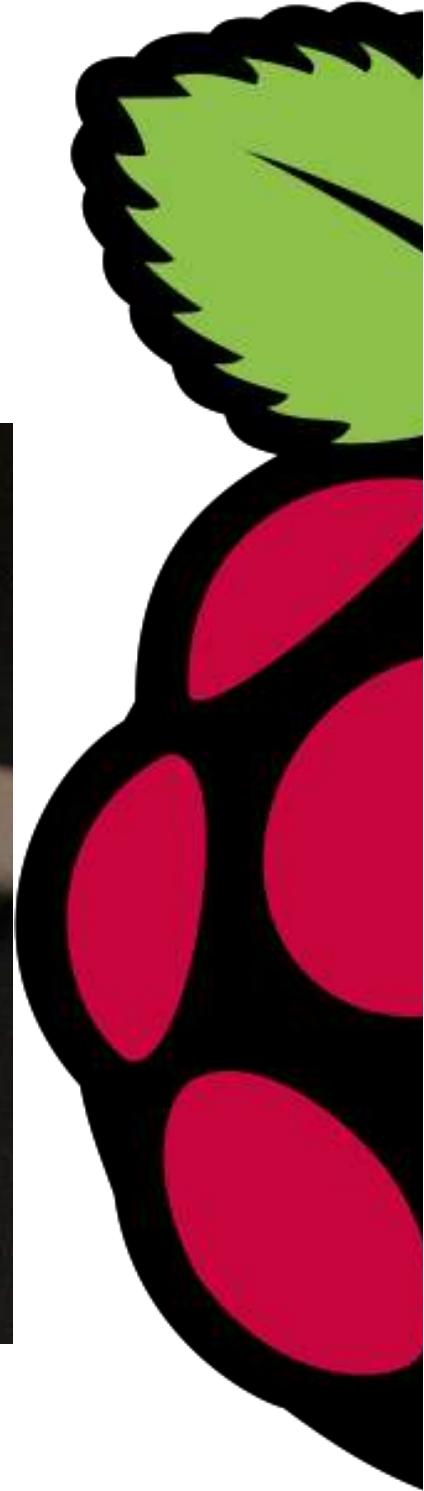


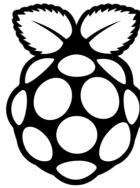
Raspberry Pi





Raspberry Pi



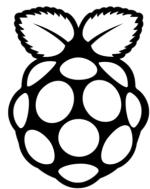




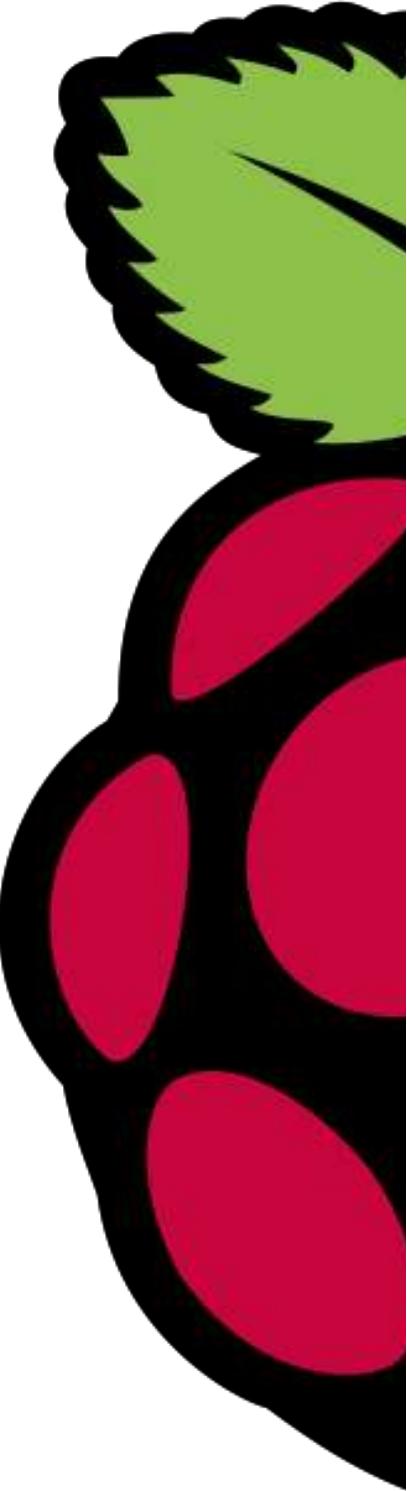
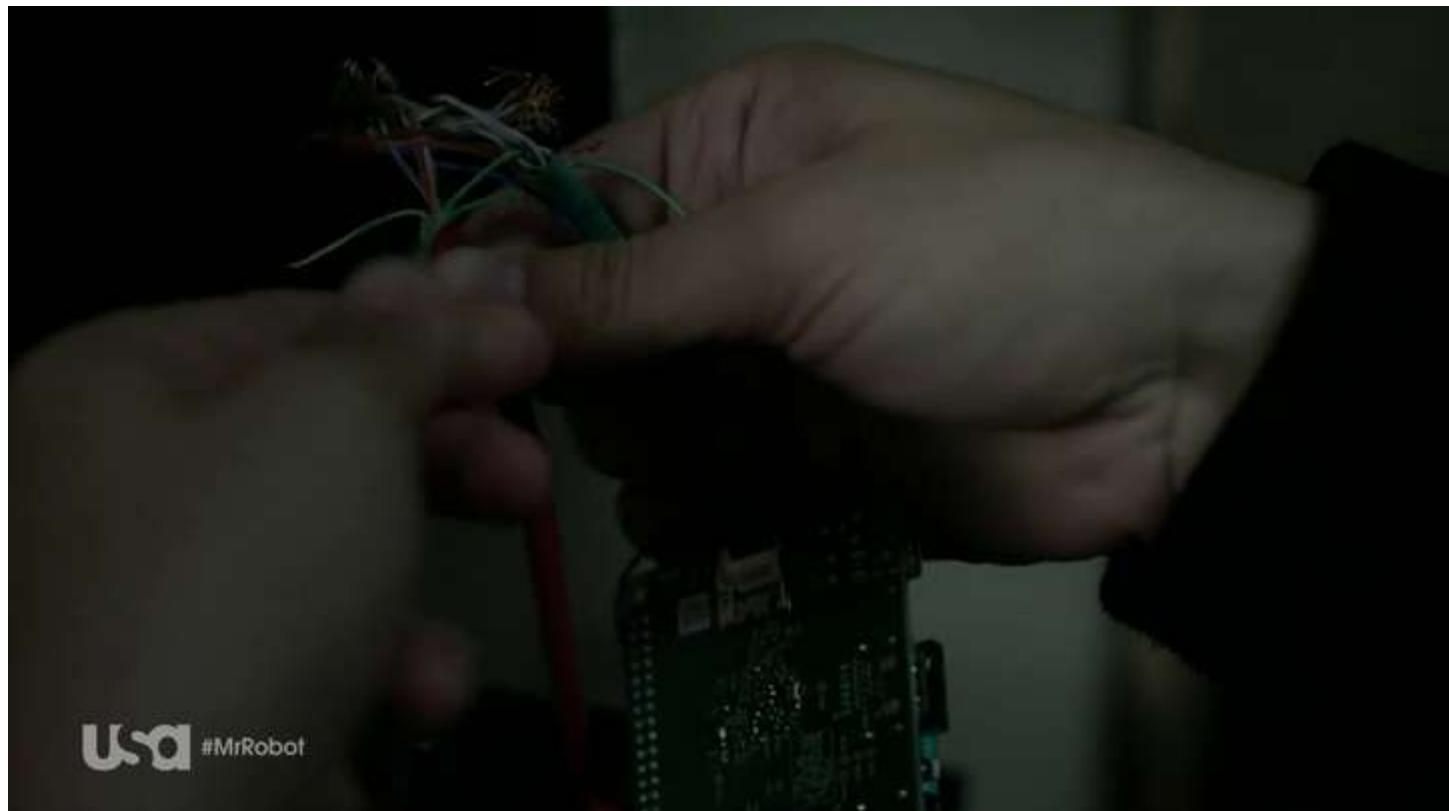
Raspberry Pi

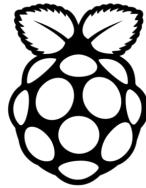


WE ARE MALICIOUS AND HOSTILE. WE ARE RELENTLESS.
WE DO NOT COMPROMISE. WE DO NOT NEGOTIATE.

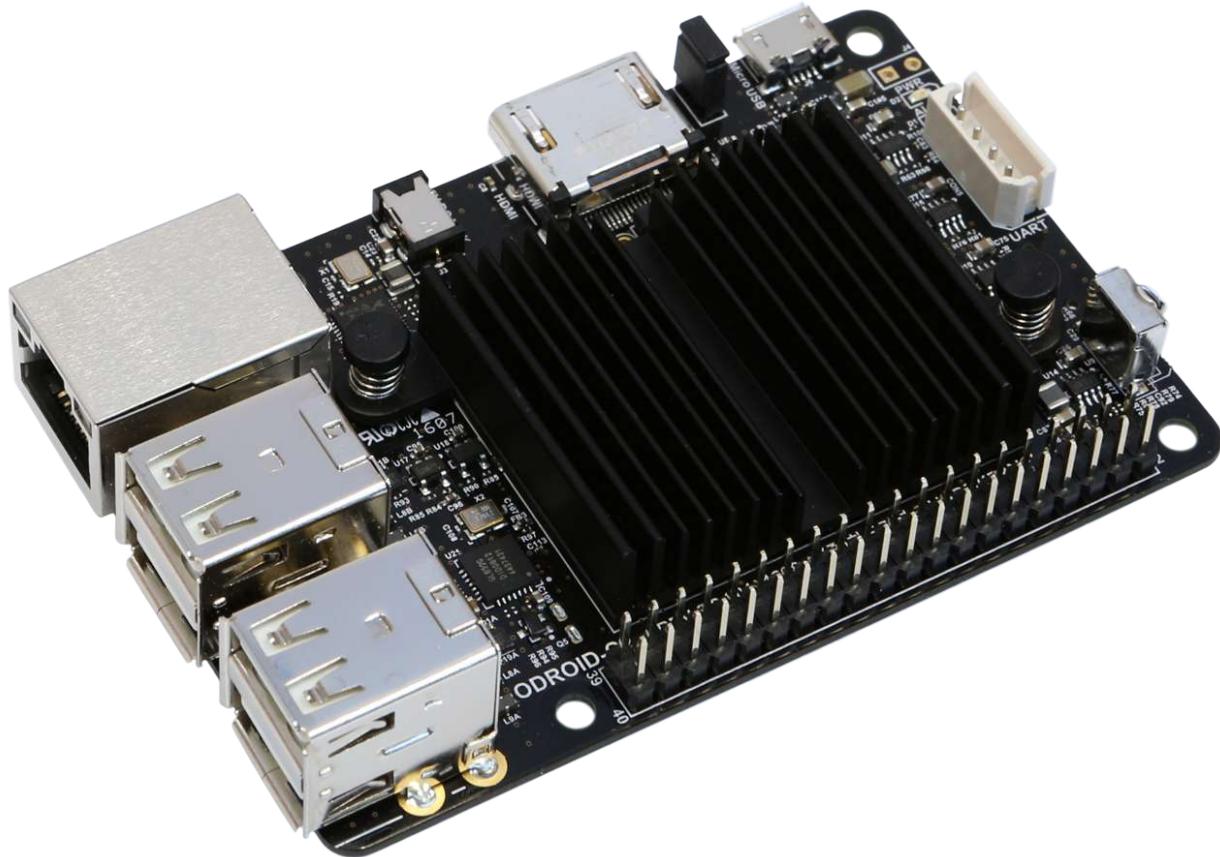


Raspberry Pi





Raspberry Pi

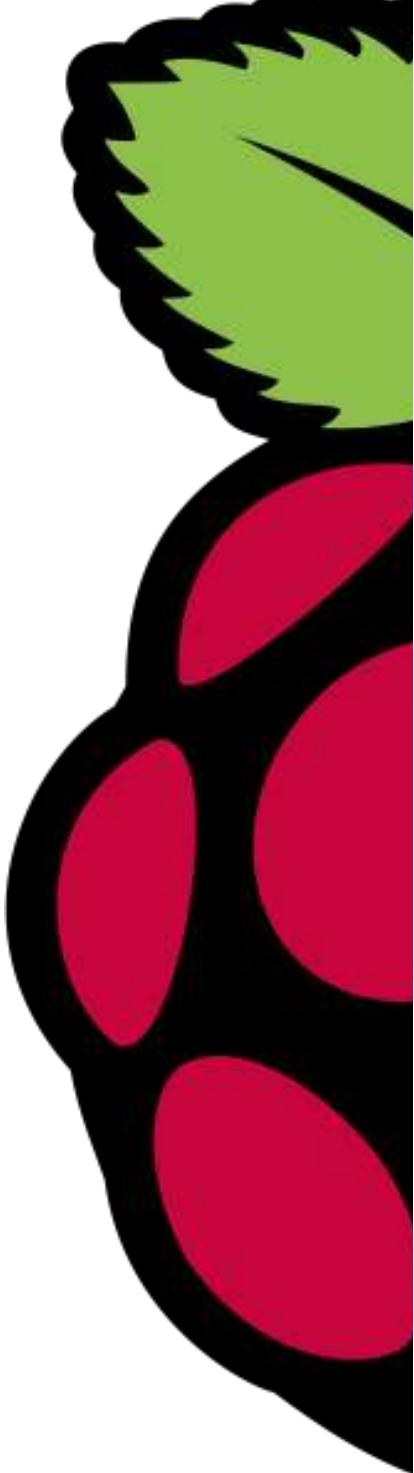


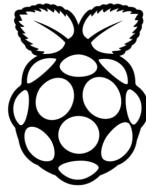
ODROID-C2

ARMv8 - 1.5Ghz quad core CPUs (64 bits)

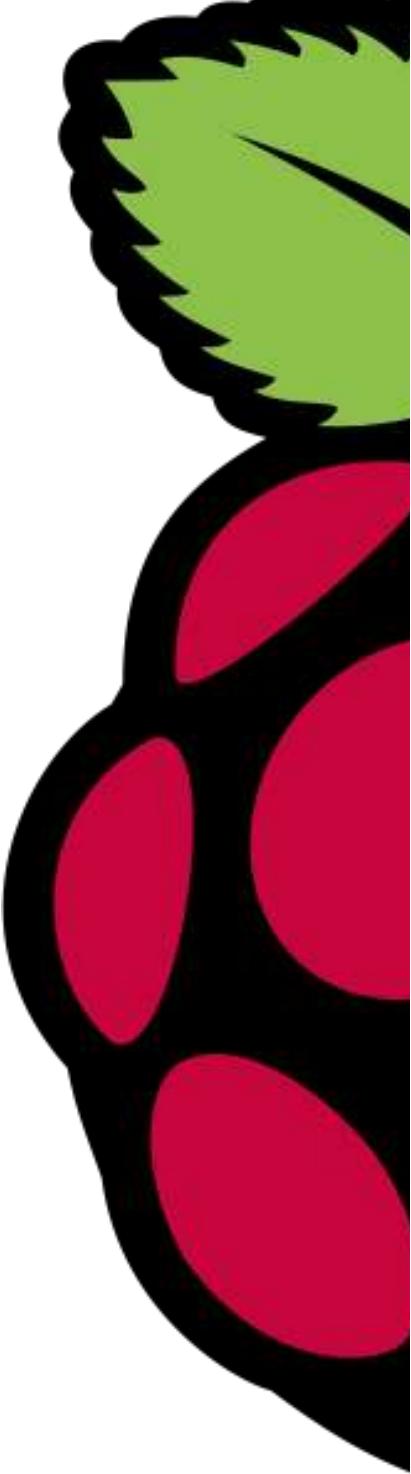
2Gb DDR3 SDRAM

\$46.00



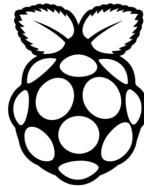


Raspberry Pi



ASUS Tinker Board

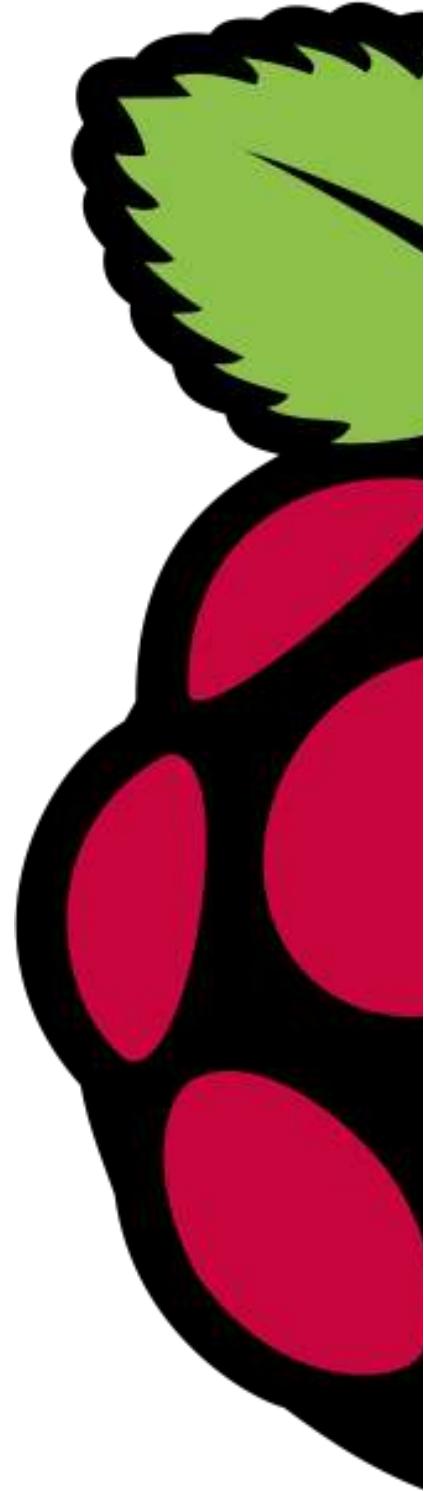
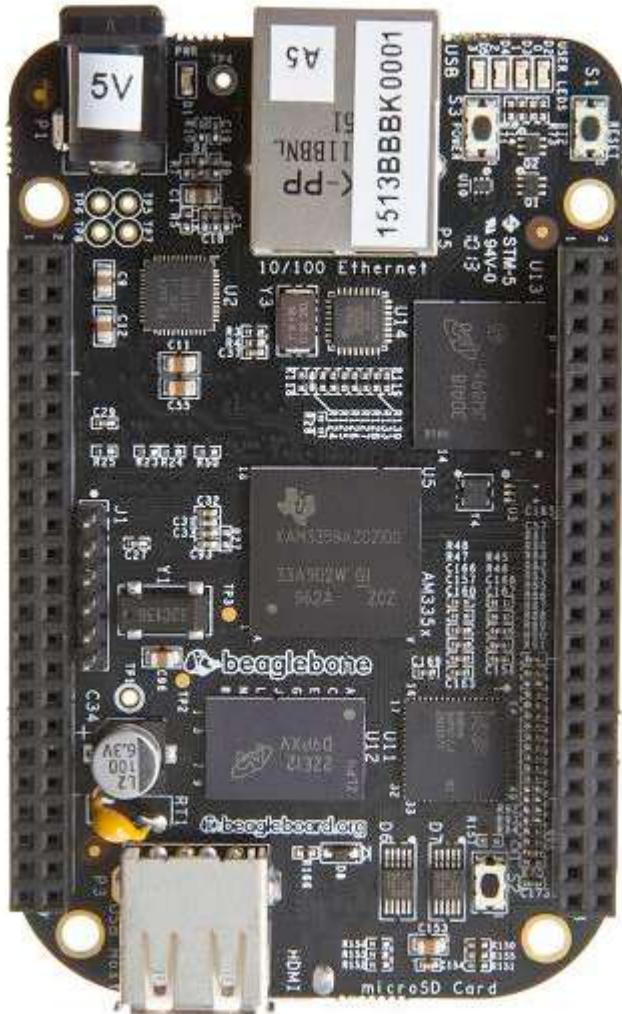
1.8Ghz Cortex A-17 Processor
GPU quad-core ARM 600 Mhz
2 GB LPDDR3 RAM
\$60.0

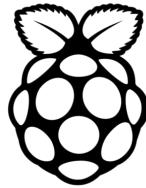


Raspberry Pi

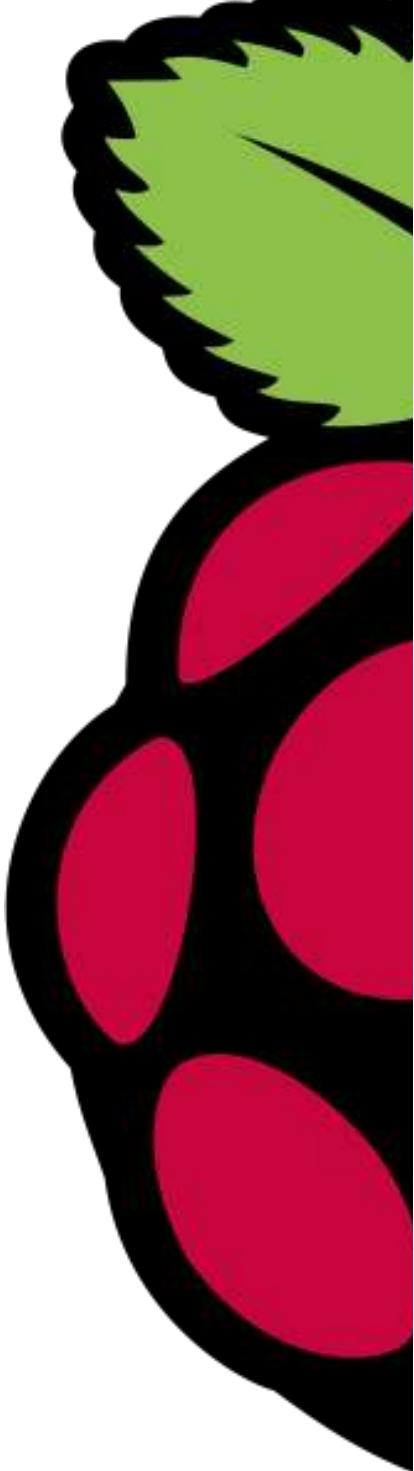
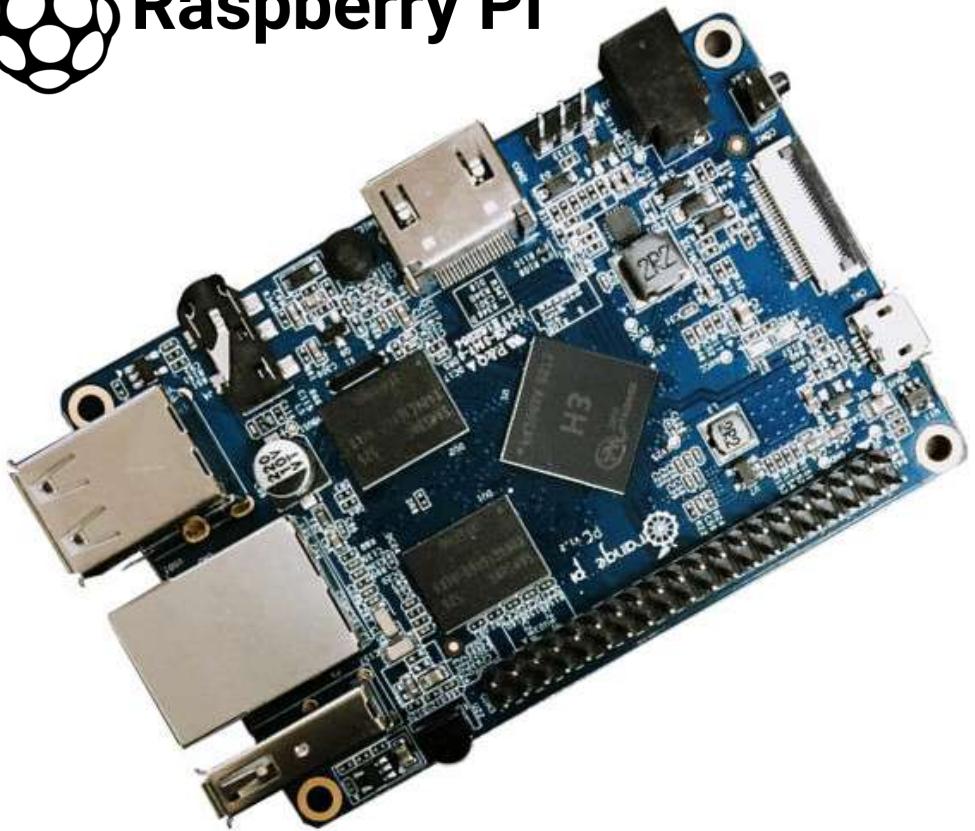
BeagleBone Black
1GHz ARM Cortex-A8
processor
512MB DDR3 RAM
4GB on-board flash
storage

\$40.0-45.0





Raspberry Pi



**Best seller Naranja pi pc h3 apoyo el
lubuntu linux y android mini PC Más Allá
de Frambuesa Pi 2 Comercio Al Por Mayor
es disponible**

Quad-core Cortex-A7 1.6GHz

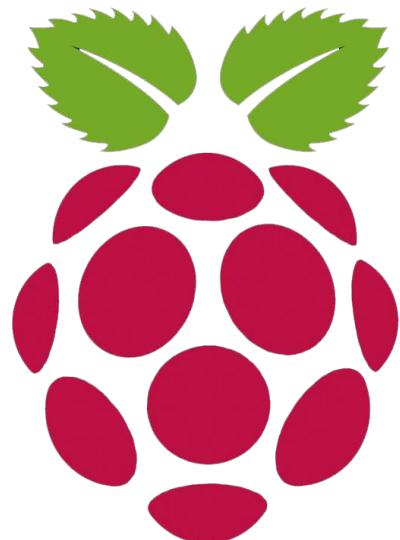
1 GB DDR3 RAM

14.01€

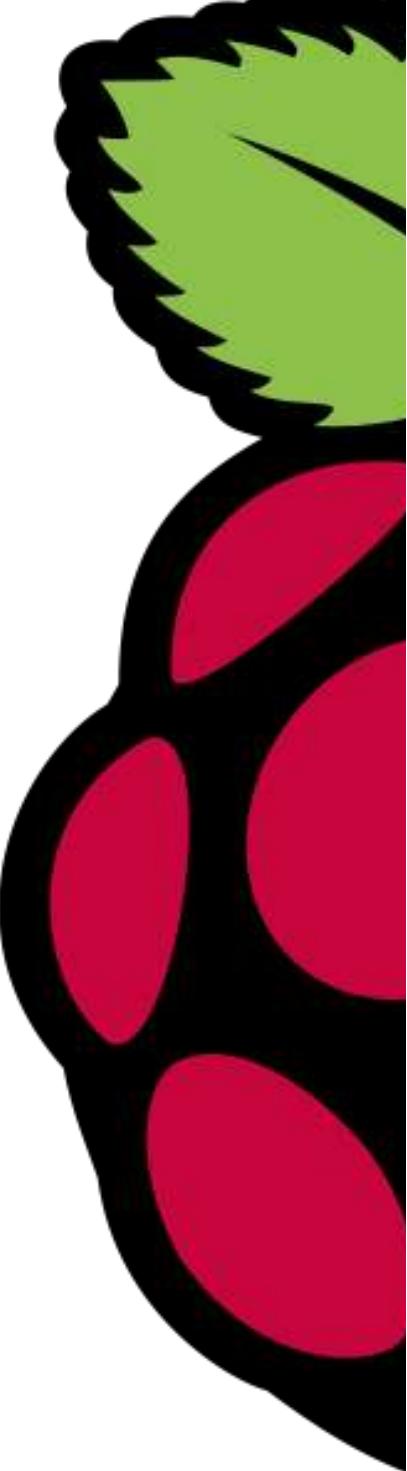


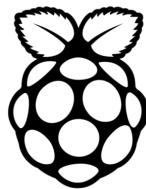
#irc

element14



Raspberry Pi Forum





Raspberry Pi

