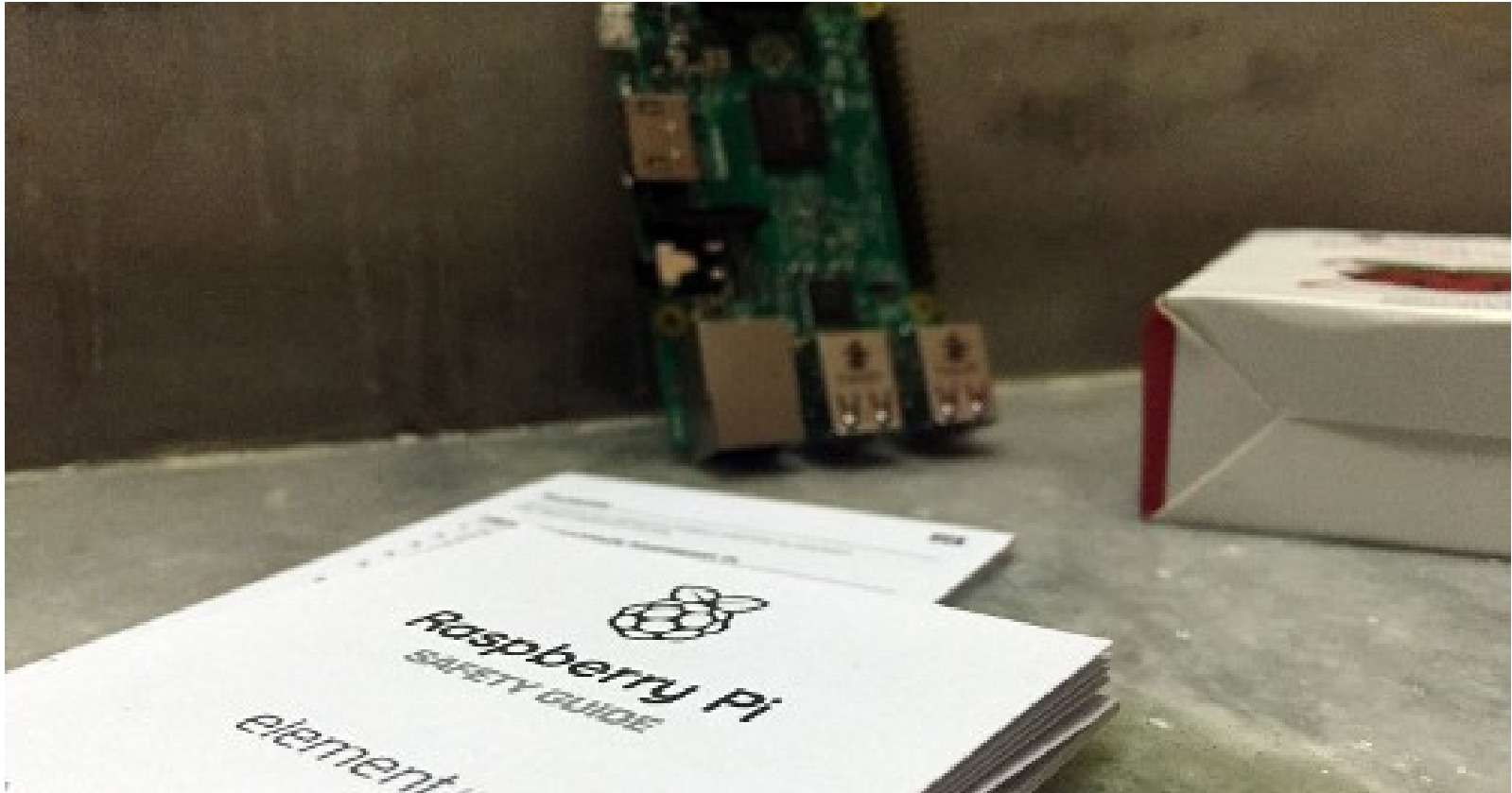


“Raspberry Pi - Instalación”

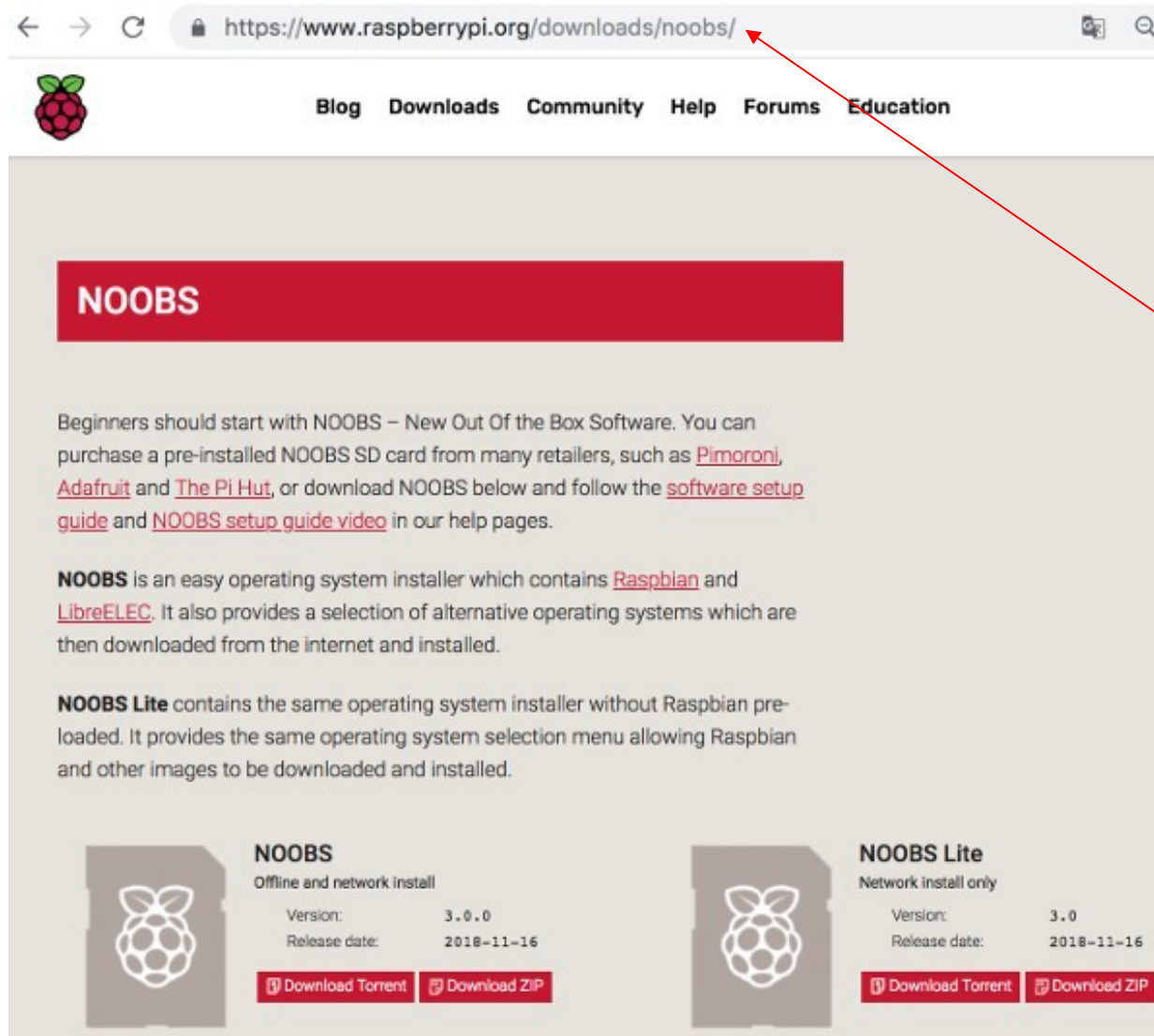


Rogelio Ferreira Escutia

Instalación

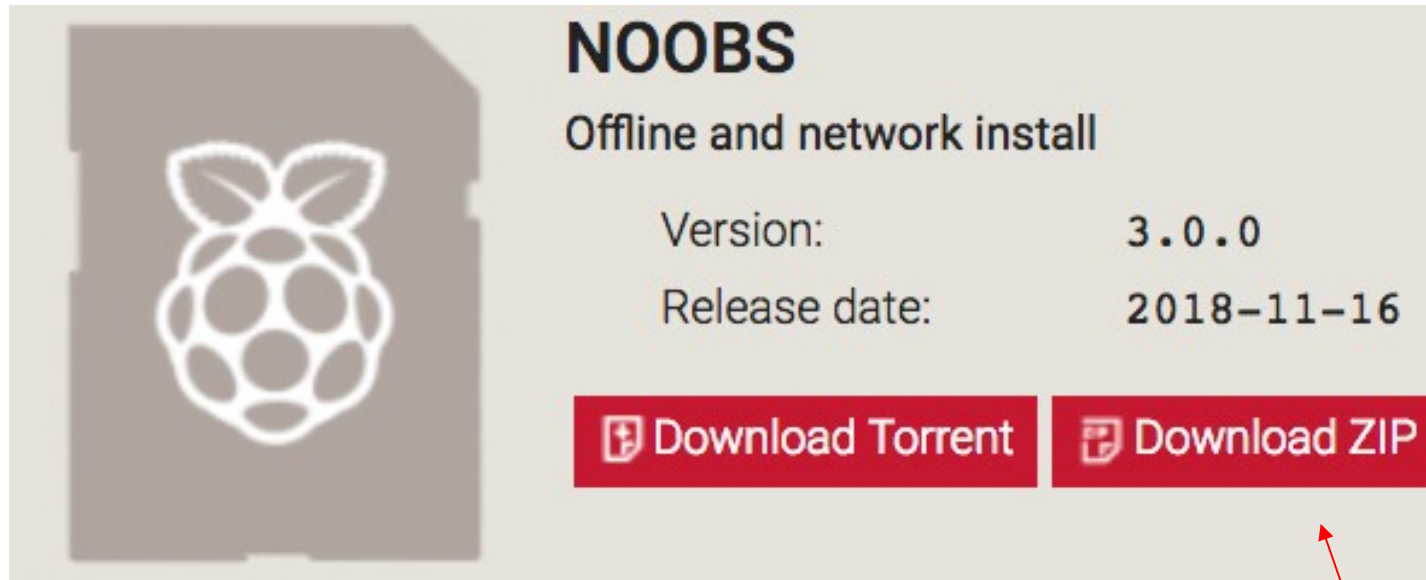
Página Oficial de Raspberry Pi

- Ir a la página oficial:



NOOBS

- **Descargar NOOBS:**

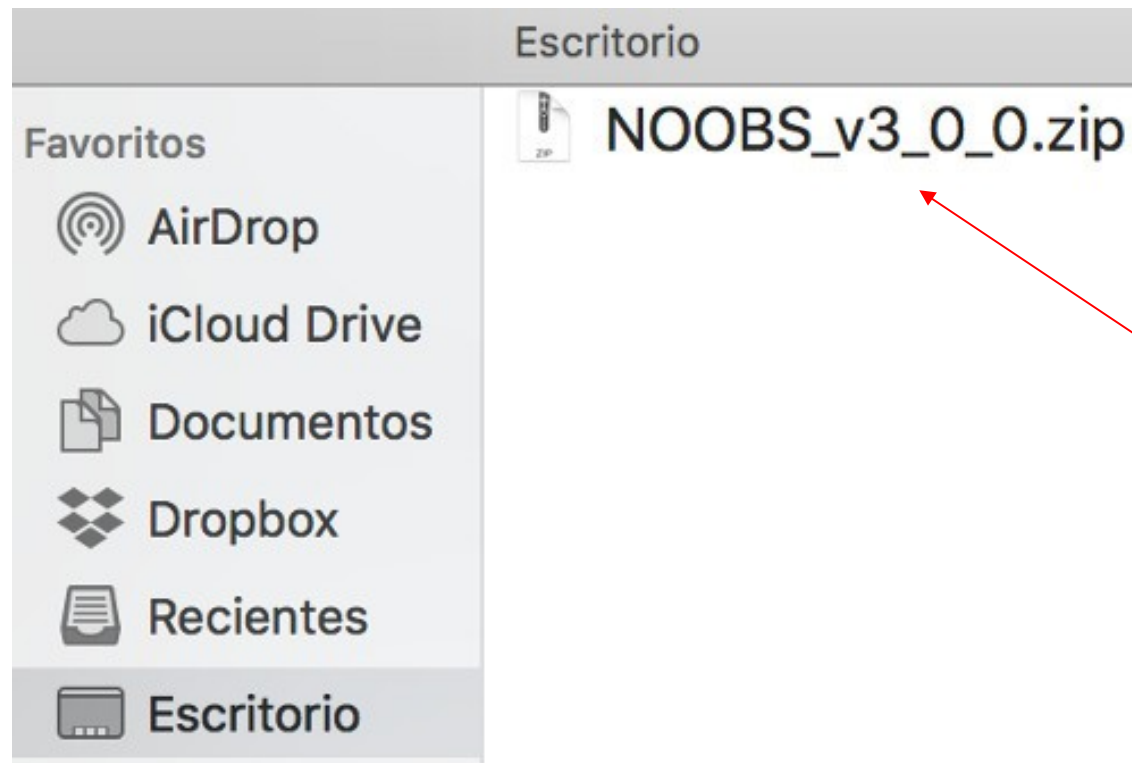


The screenshot shows the NOOBS download page. On the left is a large icon of a Raspberry Pi SD card with the Raspberry Pi logo. To the right, the text 'NOOBS' is displayed in a large, bold font, followed by 'Offline and network install'. Below this, the version '3.0.0' and release date '2018-11-16' are listed. At the bottom, there are two red buttons: 'Download Torrent' and 'Download ZIP'. A red arrow points from the bottom right of the screenshot towards the bottom right corner of the slide.

NOOBS	
Offline and network install	
Version:	3.0.0
Release date:	2018-11-16
 Download Torrent	 Download ZIP

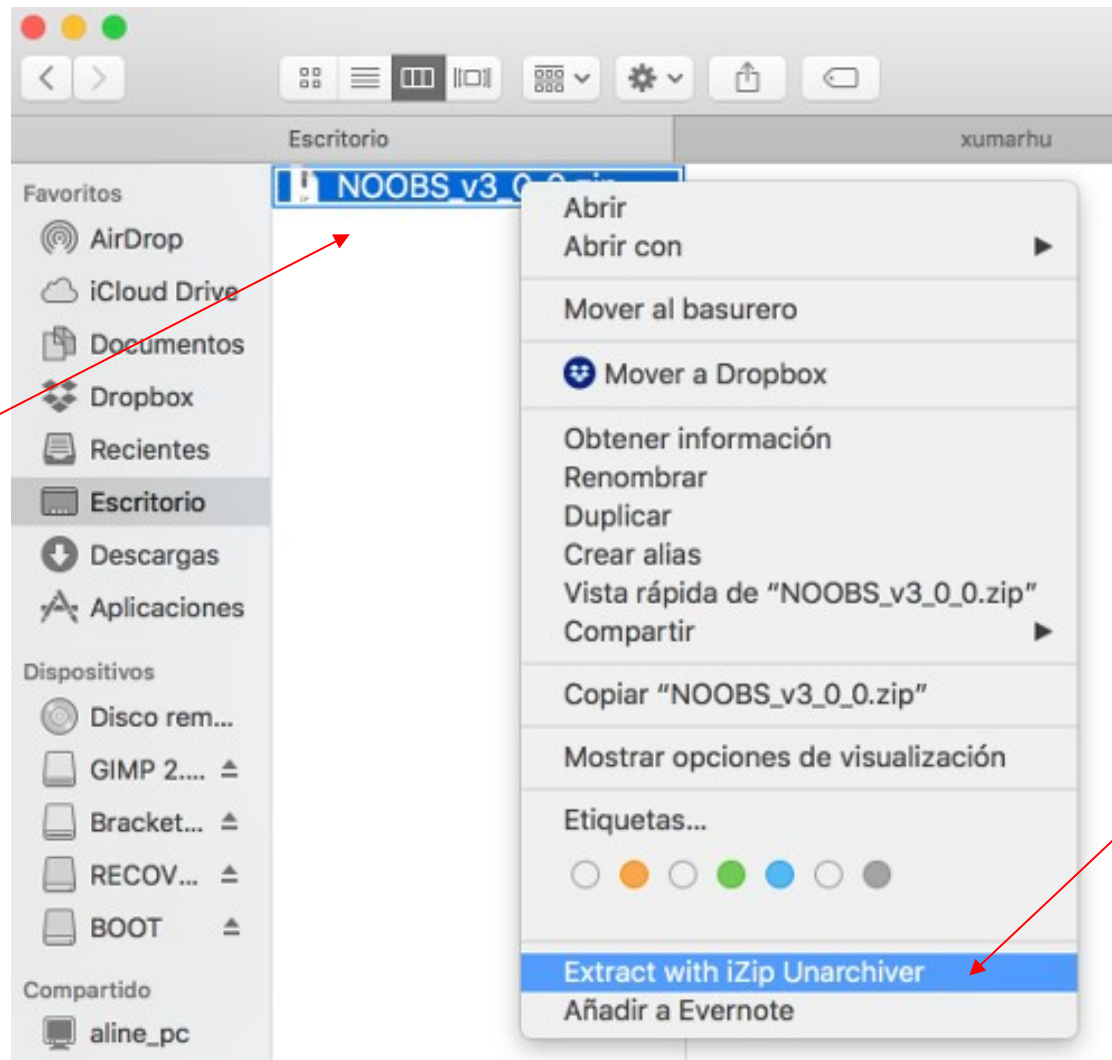
Archivo descargado

- El archivo descargado está en formato ZIP



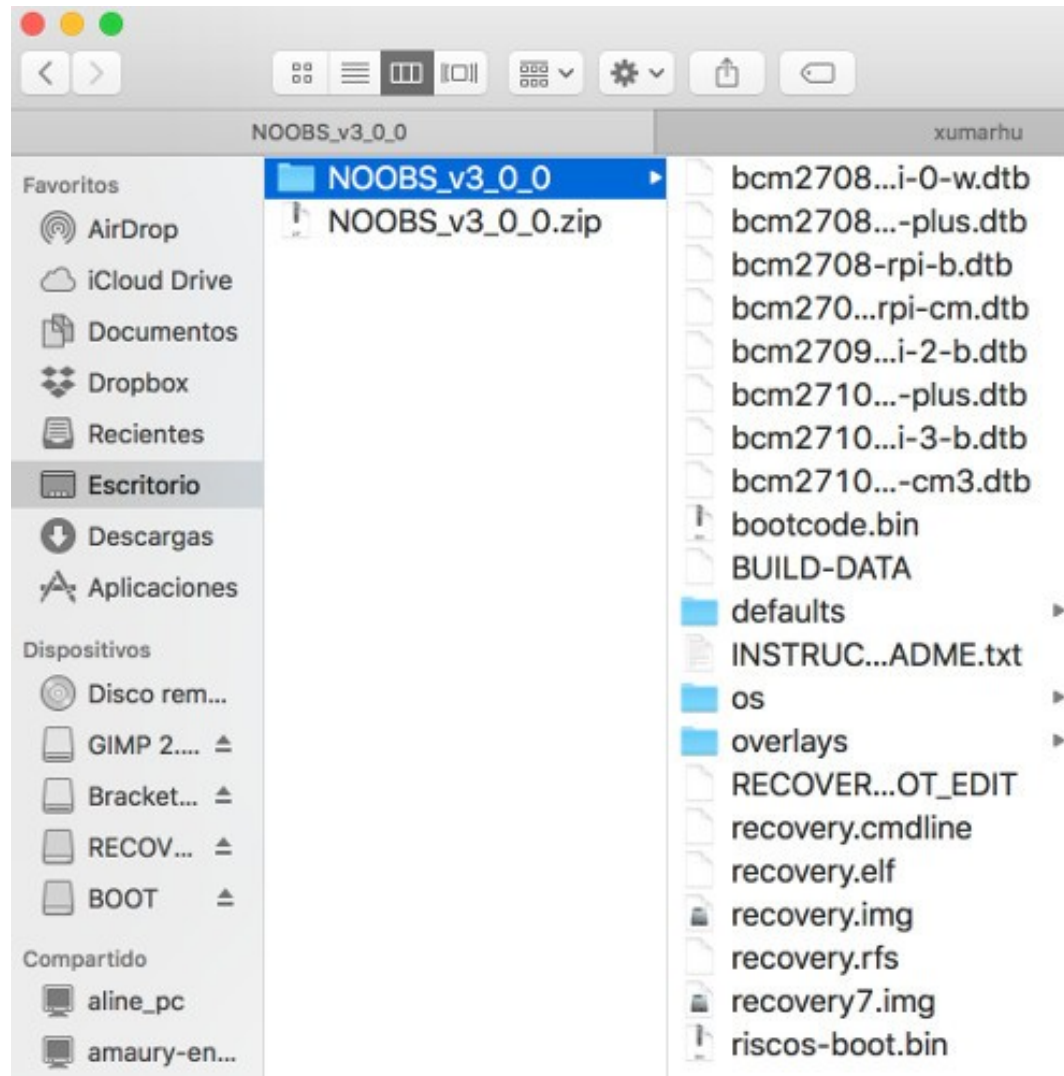
Descomprimir

- Descomprimimos el archivo ZIP



Archivos finales

- Los archivos ya descomprimidos serán los que se van a copiar en el directorio raíz de la tarjeta Micro SD:



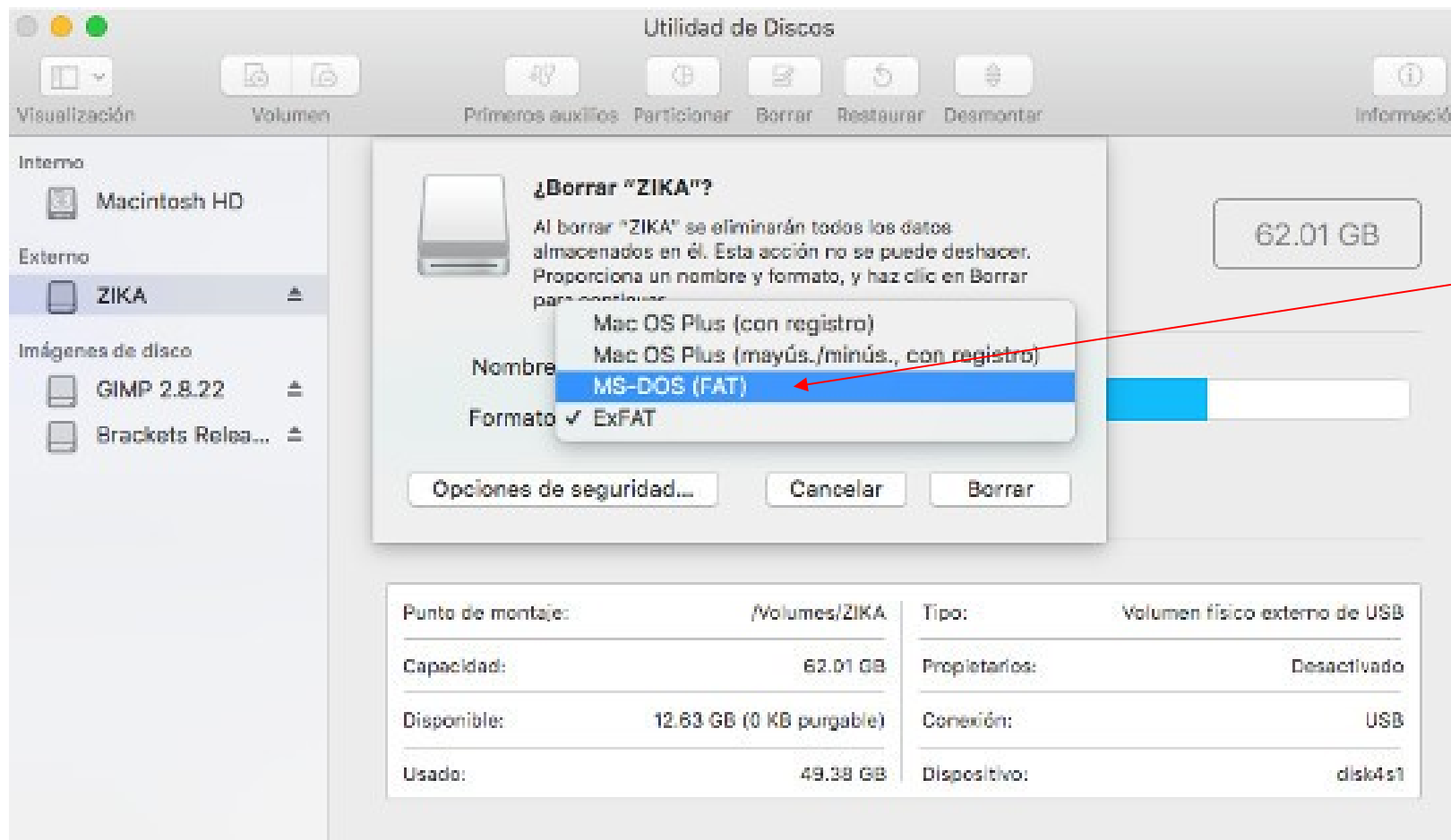
Tarjeta Micro SD

- Se requiere una tarjeta micro SD (se recomienda de 64 GB y clase 10).



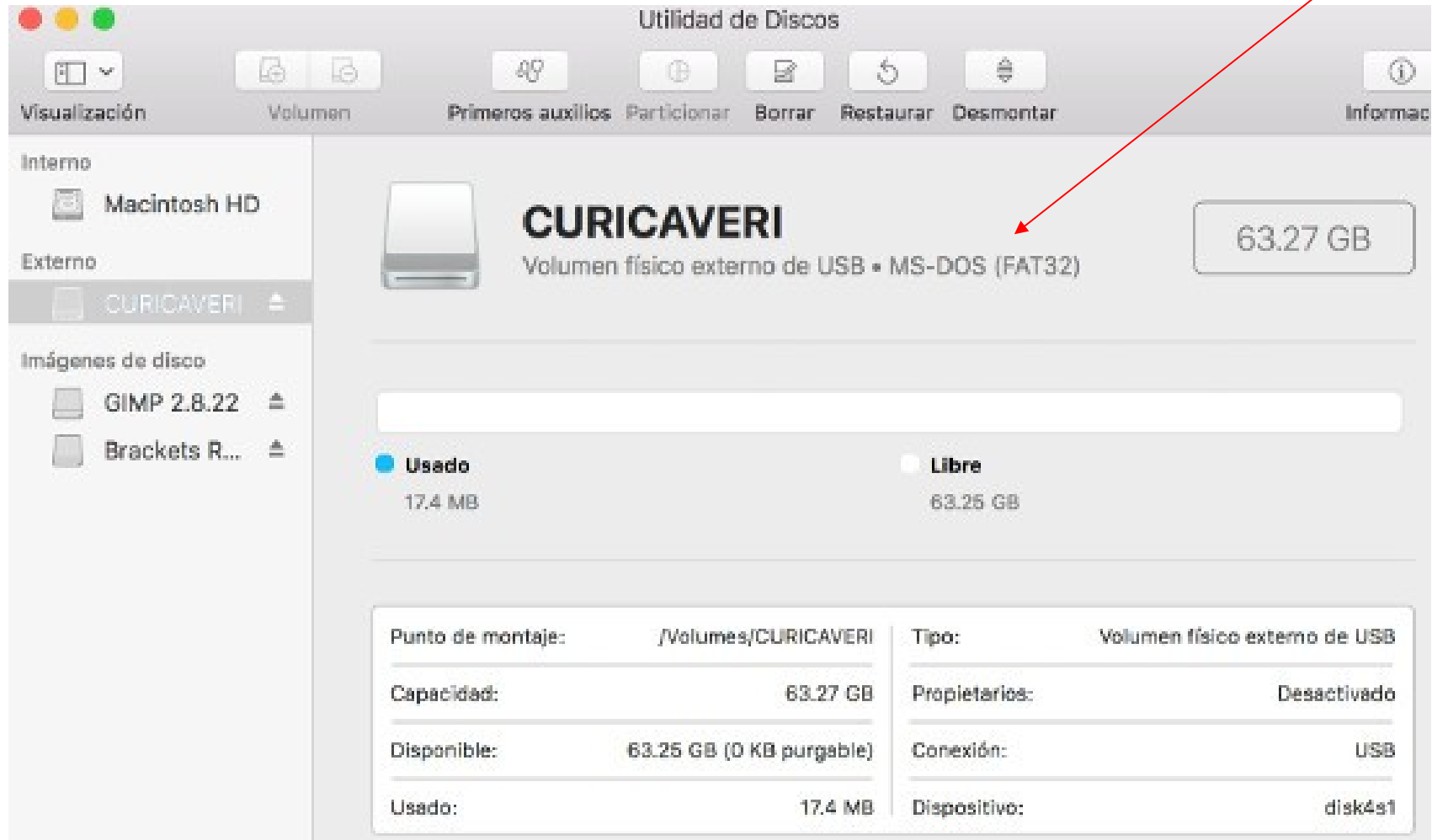
Formato

- Formatear la tarjeta a sistema FAT (FAT 32 bits).
- **NOTA: No utilizar formato ExtFAT (FAT 64 bits) o ningún otro formato!**



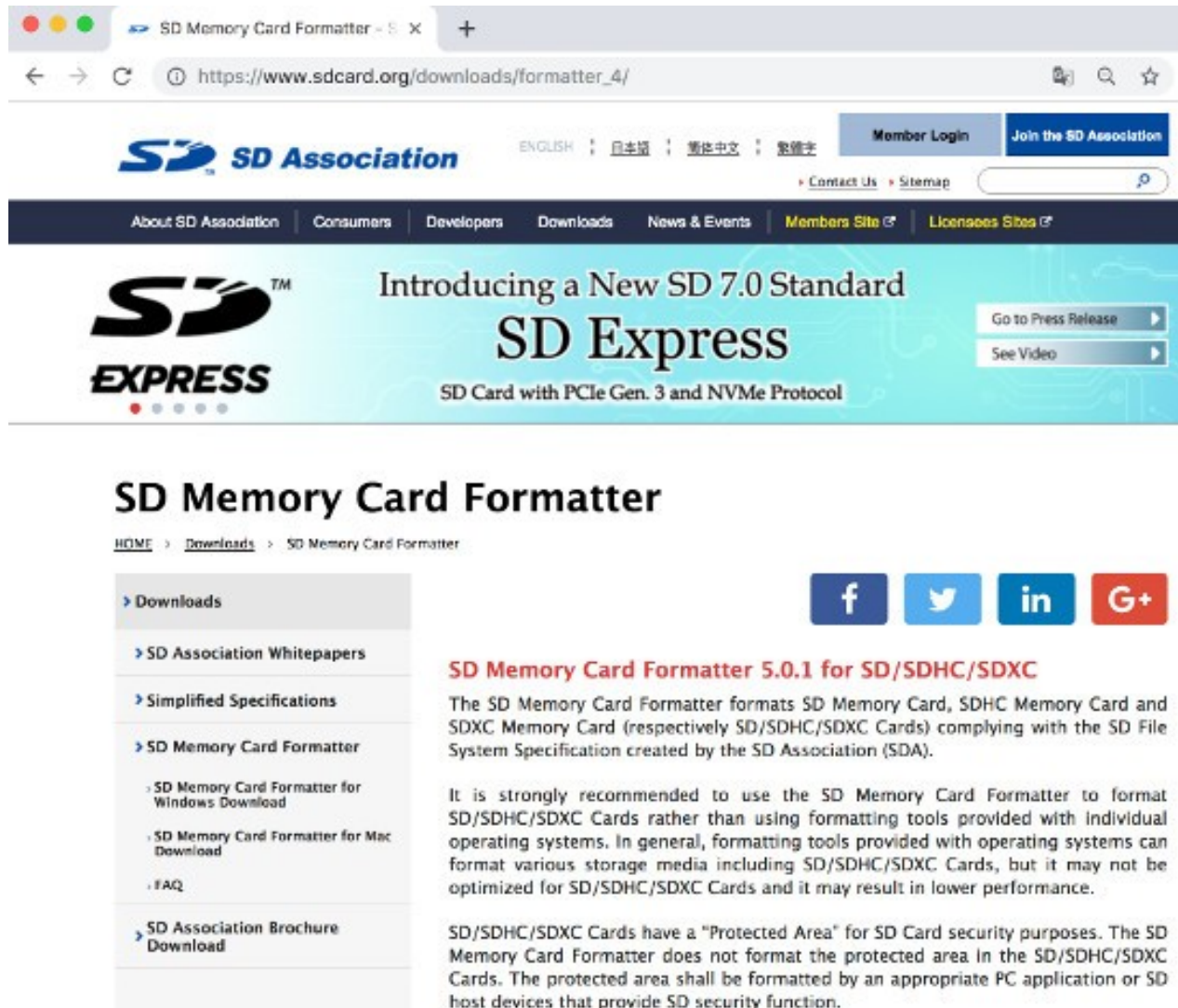
Formato

- Memoria lista formateada con “Utilidad de Discos” (Mac):



SD Formatter

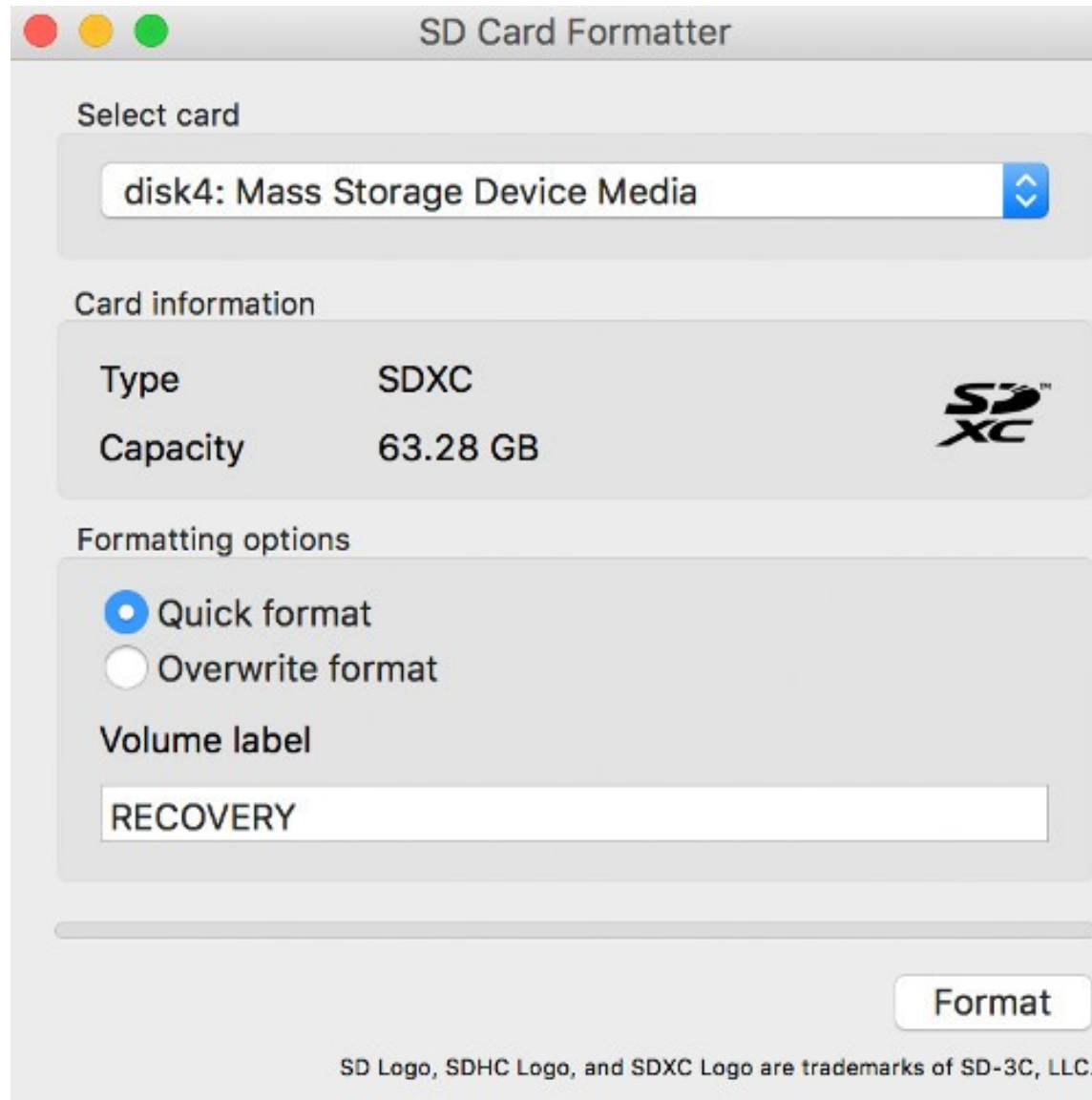
- Si el sistema operativo no tiene la opción para formatear FAT 32 bits, se puede utilizar la herramienta oficial de la SD Association:



The screenshot shows the SD Association website. The top navigation bar includes the SD Association logo, language options (English, 日本語, 简体中文, 繁體中文), and links for Member Login and Join the SD Association. Below this is a secondary navigation bar with links for About SD Association, Consumers, Developers, Downloads, News & Events, Members Site, and Licensees Sites. The main banner features the SD Express logo and text: "Introducing a New SD 7.0 Standard SD Express SD Card with PCIe Gen. 3 and NVMe Protocol". Below the banner, the page title is "SD Memory Card Formatter". A breadcrumb trail shows: HOME > Downloads > SD Memory Card Formatter. On the left is a sidebar menu with links: Downloads, SD Association Whitepapers, Simplified Specifications, SD Memory Card Formatter (selected), SD Memory Card Formatter for Windows Download, SD Memory Card Formatter for Mac Download, FAQ, and SD Association Brochure Download. On the right, there are social media icons for Facebook, Twitter, LinkedIn, and Google+. The main content area is titled "SD Memory Card Formatter 5.0.1 for SD/SDHC/SDXC". It contains two paragraphs: "The SD Memory Card Formatter formats SD Memory Card, SDHC Memory Card and SDXC Memory Card (respectively SD/SDHC/SDXC Cards) complying with the SD File System Specification created by the SD Association (SDA)." and "It is strongly recommended to use the SD Memory Card Formatter to format SD/SDHC/SDXC Cards rather than using formatting tools provided with individual operating systems. In general, formatting tools provided with operating systems can format various storage media including SD/SDHC/SDXC Cards, but it may not be optimized for SD/SDHC/SDXC Cards and it may result in lower performance." A third paragraph states: "SD/SDHC/SDXC Cards have a 'Protected Area' for SD Card security purposes. The SD Memory Card Formatter does not format the protected area in the SD/SDHC/SDXC Cards. The protected area shall be formatted by an appropriate PC application or SD host devices that provide SD security function."



SD Formatter



The image shows a screenshot of the 'SD Card Formatter' application window. The window has a title bar with three colored buttons (red, yellow, green) and the text 'SD Card Formatter'. Below the title bar, there is a section titled 'Select card' with a dropdown menu showing 'disk4: Mass Storage Device Media'. Below this is a section titled 'Card information' which displays 'Type: SDXC' and 'Capacity: 63.28 GB'. To the right of this information is the SDXC logo. Below the card information is a section titled 'Formatting options' with two radio buttons: 'Quick format' (selected) and 'Overwrite format'. Below the formatting options is a section titled 'Volume label' with a text input field containing the word 'RECOVERY'. At the bottom right of the window is a 'Format' button. At the very bottom of the window, there is a small line of text: 'SD Logo, SDHC Logo, and SDXC Logo are trademarks of SD-3C, LLC.'

SD Card Formatter

Select card

disk4: Mass Storage Device Media

Card information

Type	SDXC
Capacity	63.28 GB

SDXC

Formatting options

☒ Quick format

☐ Overwrite format

Volume label

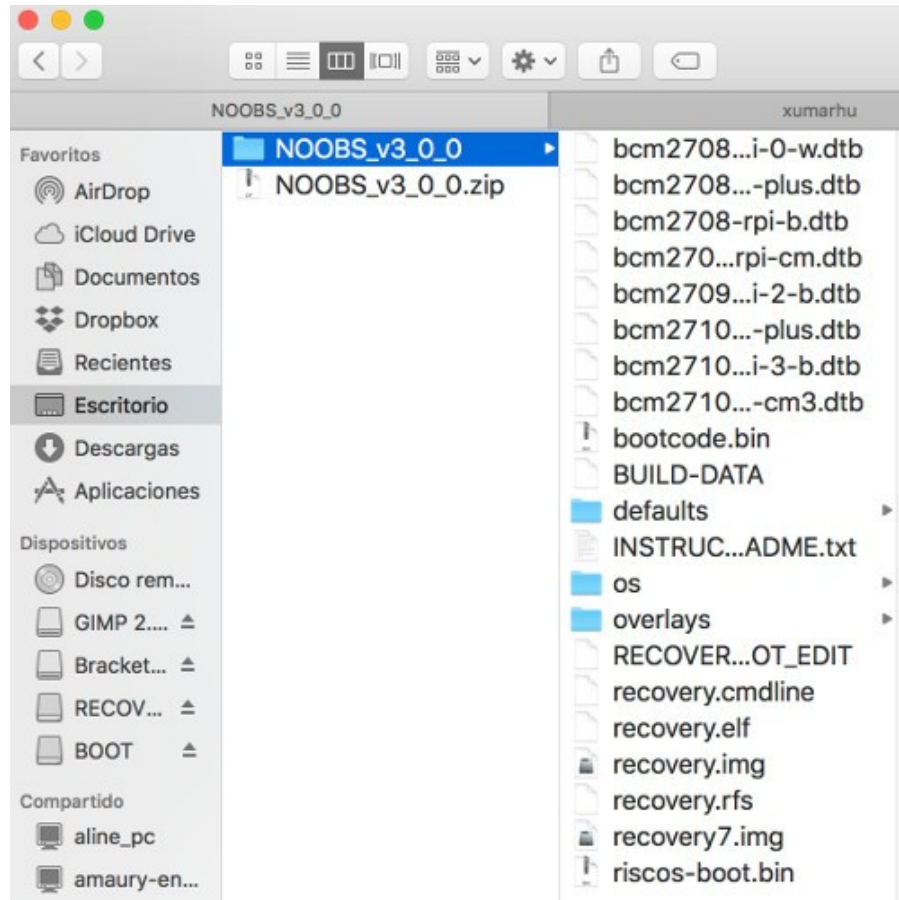
RECOVERY

Format

SD Logo, SDHC Logo, and SDXC Logo are trademarks of SD-3C, LLC.

Copiar

- Copiar los archivos que se descomprimieron anteriormente a la memoria Micro SD (sólo los archivos, no la carpeta):



Raspberry Pi

- Se requiere un Raspberry Pi 3B+



Insertar Memoria

- Colocar la memoria Micro SD dentro del Raspberry Pi



Raspberry Pi Compatibles



■ **Fabricado en China**

■ **Fabricado en Inglaterra**

Carcasa

- Se recomienda una carcasa (cajita) para proteger a la Raspberry Pi:



Ensamble

- Colocar el Raspberry Pi dentro de su carcasa.



Raspberry Pi 3 Model B

element14

Dimensions
85.6mm x 56mm x 21mm

4 x USB 2
Ports

40 Pin
Extended GPIO

10/100
LAN Port

Broadcom
BCM2837 64bit
Quad Core CPU
at 1.2GHz,
1GB RAM

On Board
Bluetooth 4.1
Wi-Fi

3.5mm 4-pole
Composite Video
and Audio
Output Jack

MicroSD
Card Slot

CSI Camera Port

DSI Display Port

Micro USB Power Input.
Upgraded switched
power source that can
handle up to 2.5 Amps

Full Size HDMI
Video Output



Monitor

- Se requiere un monitor con conexión HDMI



Monitor

- **Monitor Samsung HDMI de 24 pulgadas**



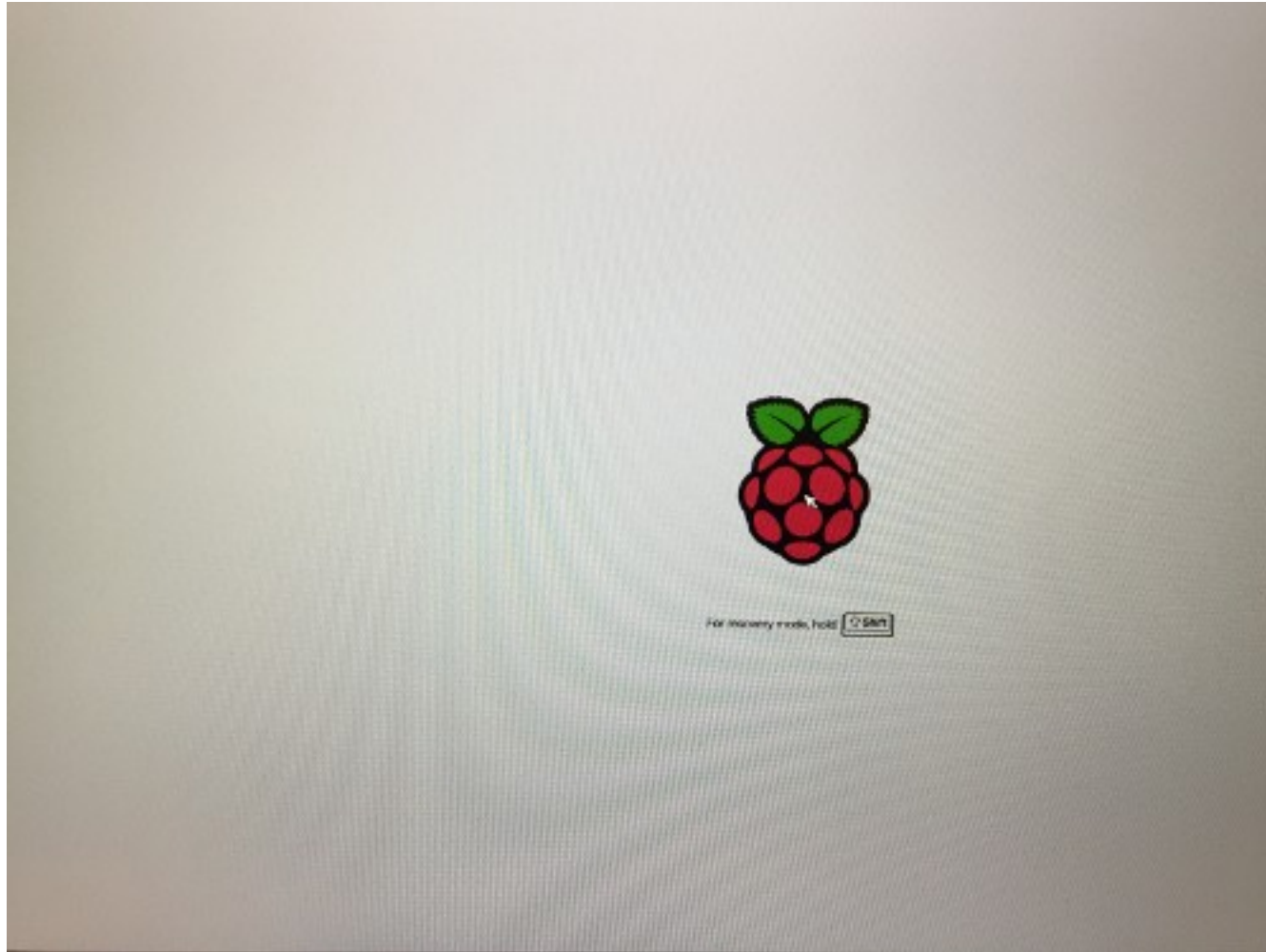
Inicio

- Pantalla de inicio:



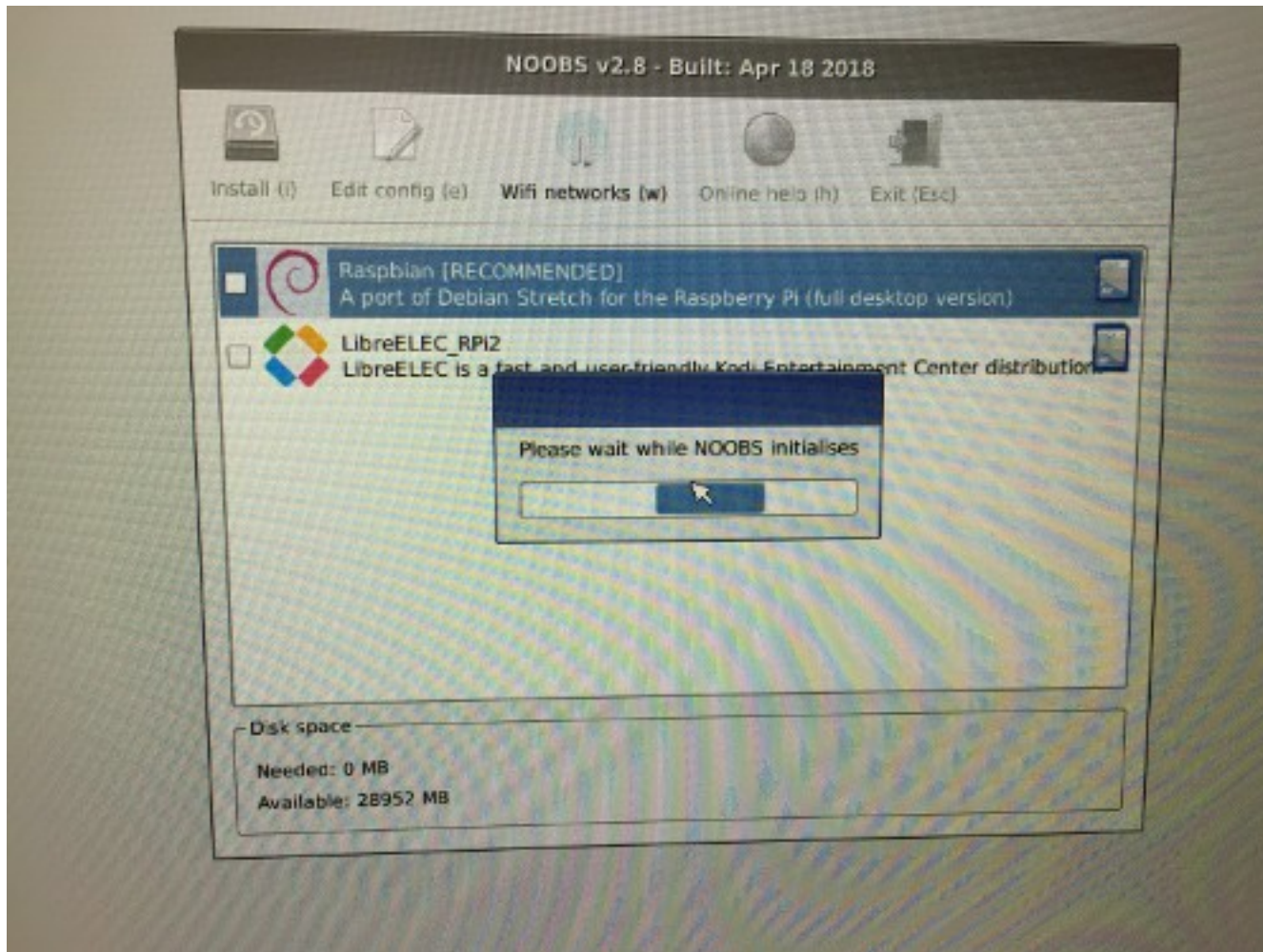
Arranque

- Conectar el Raspberry y arranca con la siguiente pantalla:



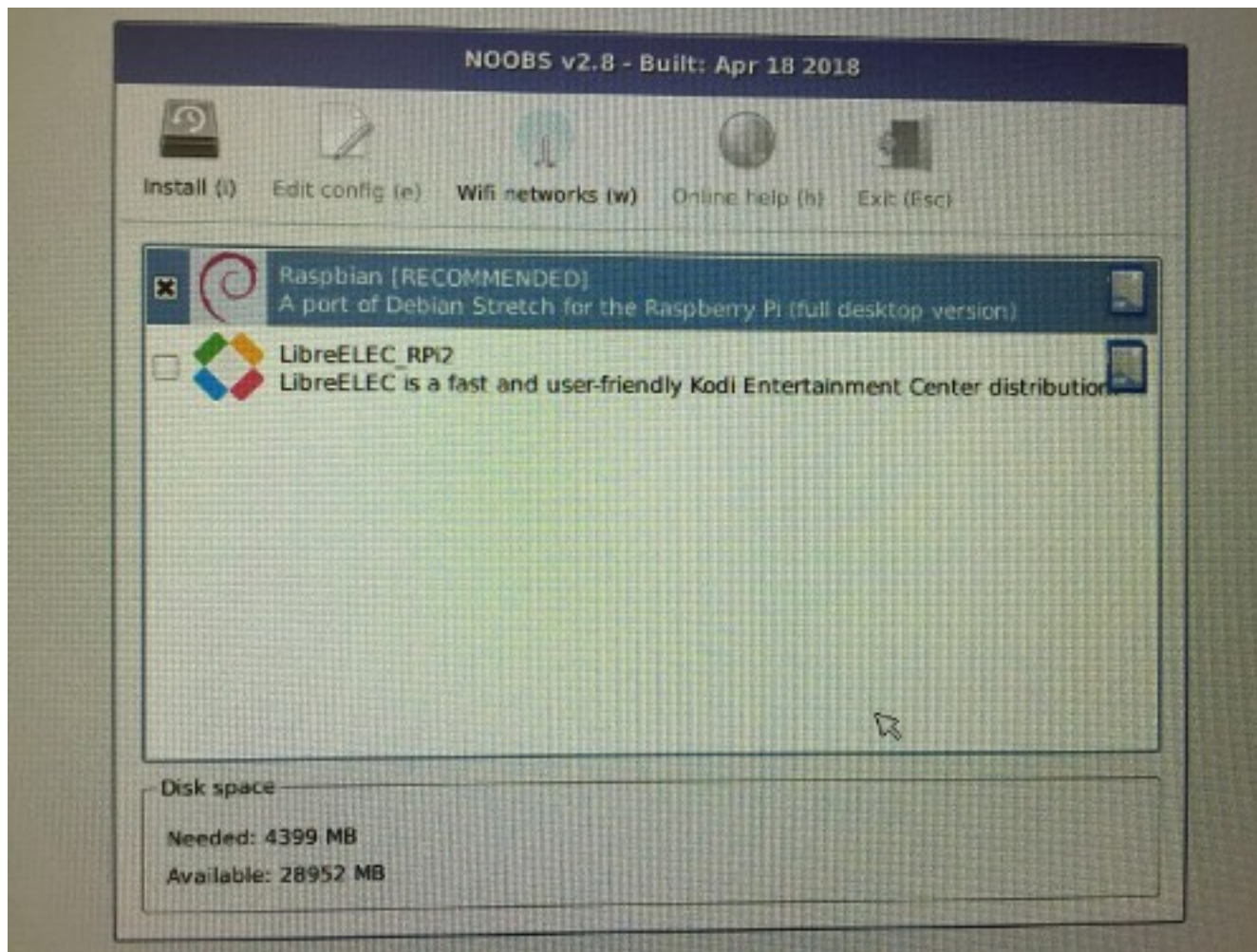
Opciones

- Aparecen las opciones a instalar:



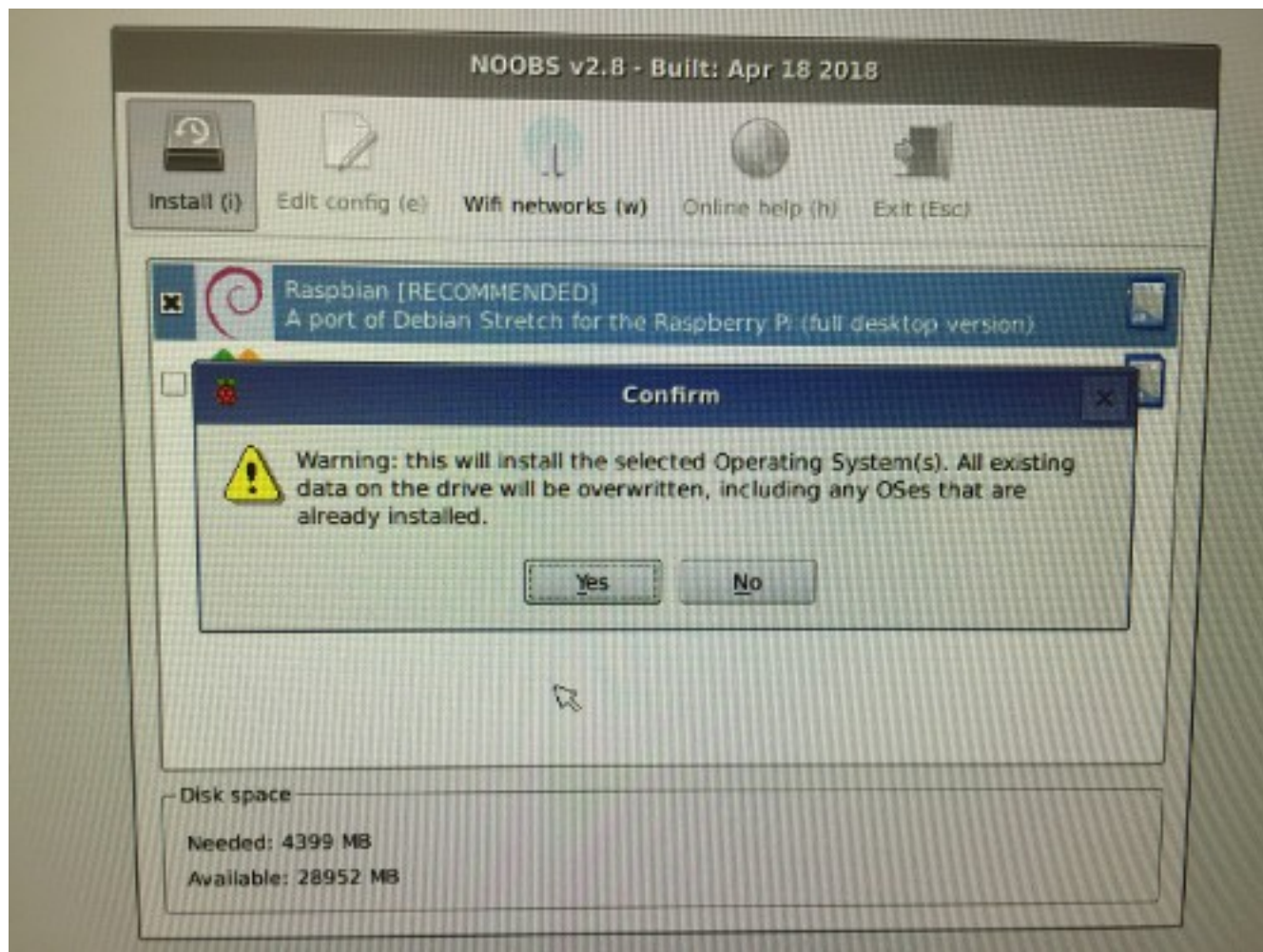
Raspbian

- Se selecciona Raspbian como el sistema a instalar:



Raspbian

- Se indica que se borrará todo el contenido de la memoria:



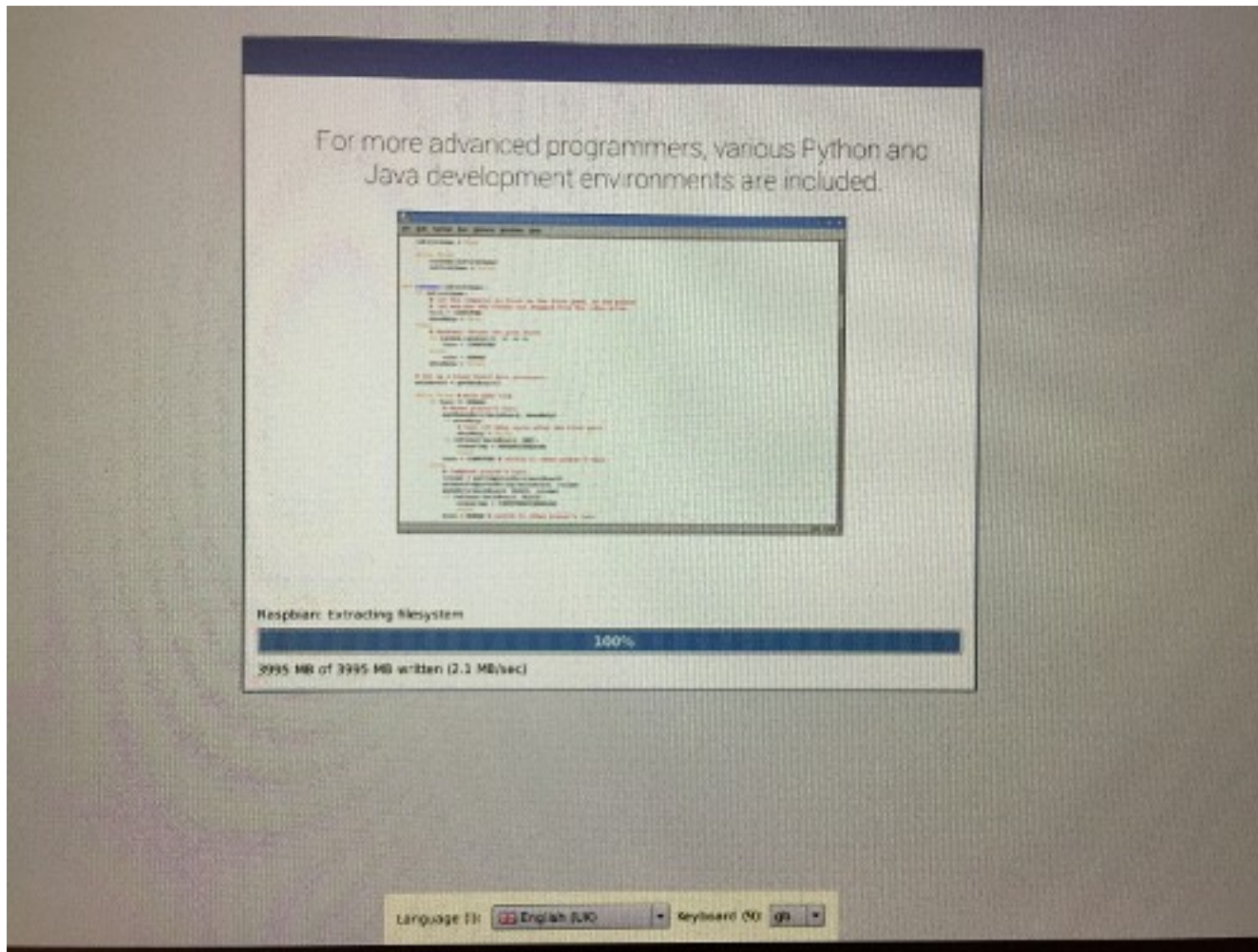
Instalación

- Inicia el proceso de instalación (aproximadamente 20 minutos en total):



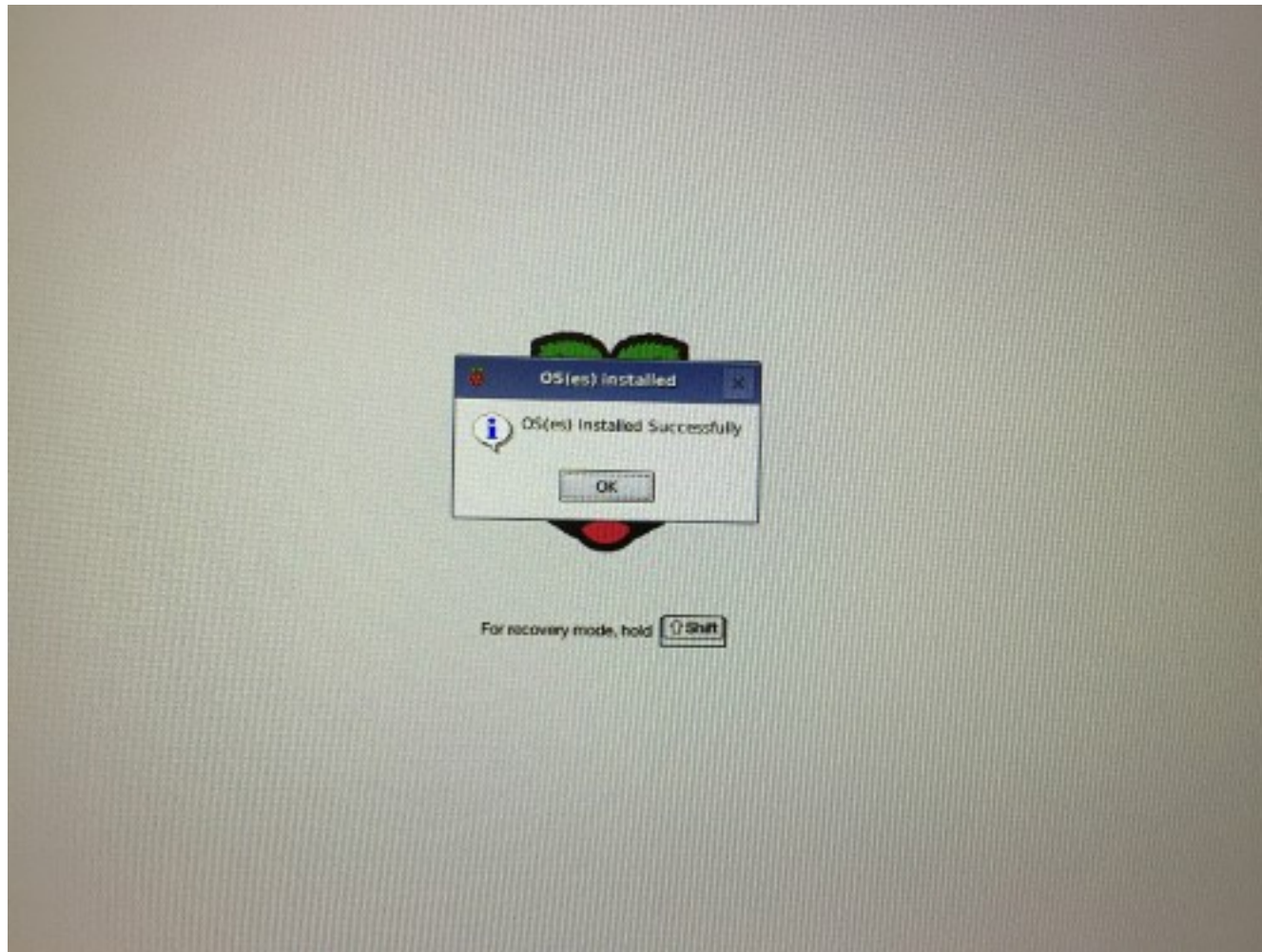
Instalación

- Pantalla indicando el 100% de la instalación:



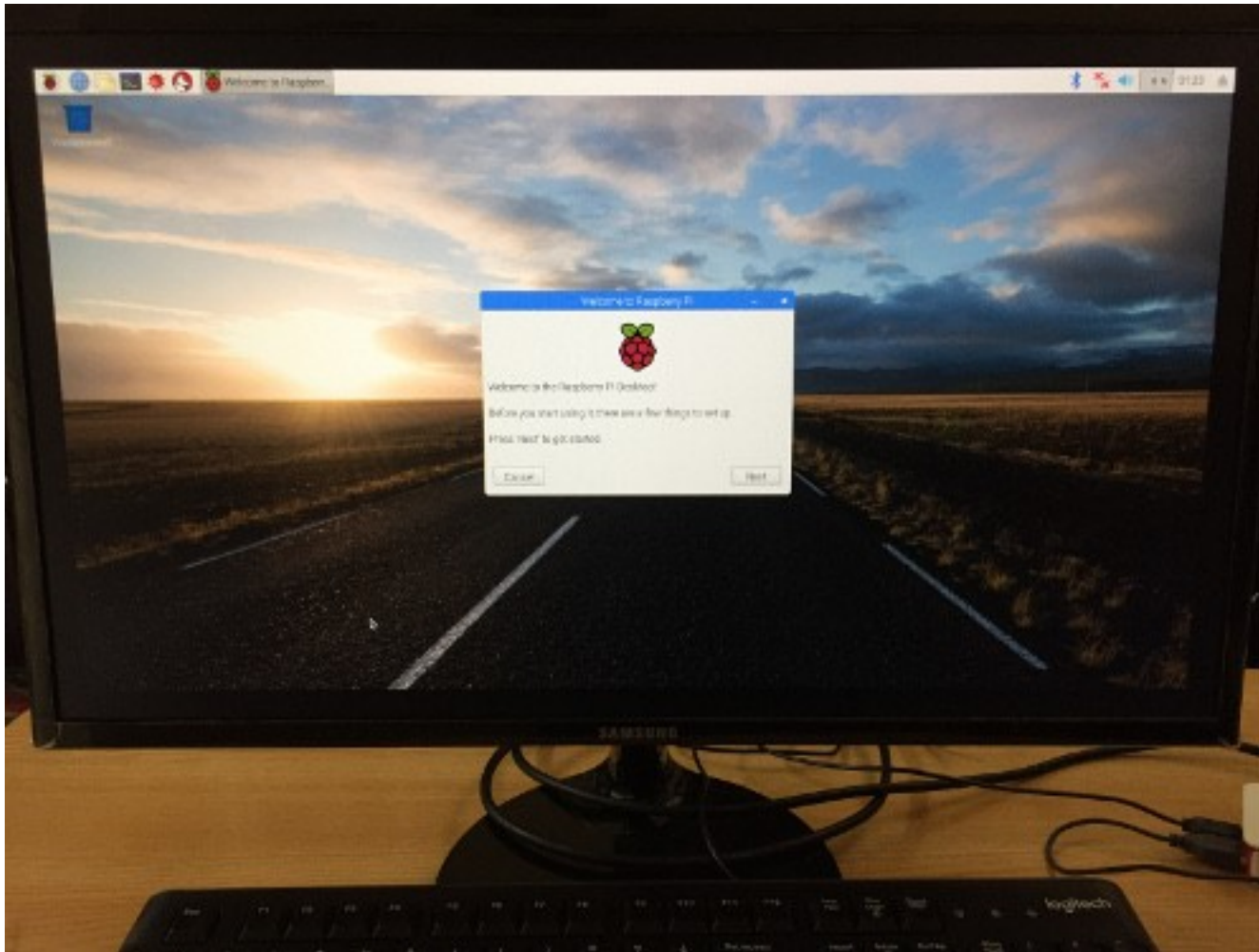
Instalación

- Pantalla de finalización de la instalación:



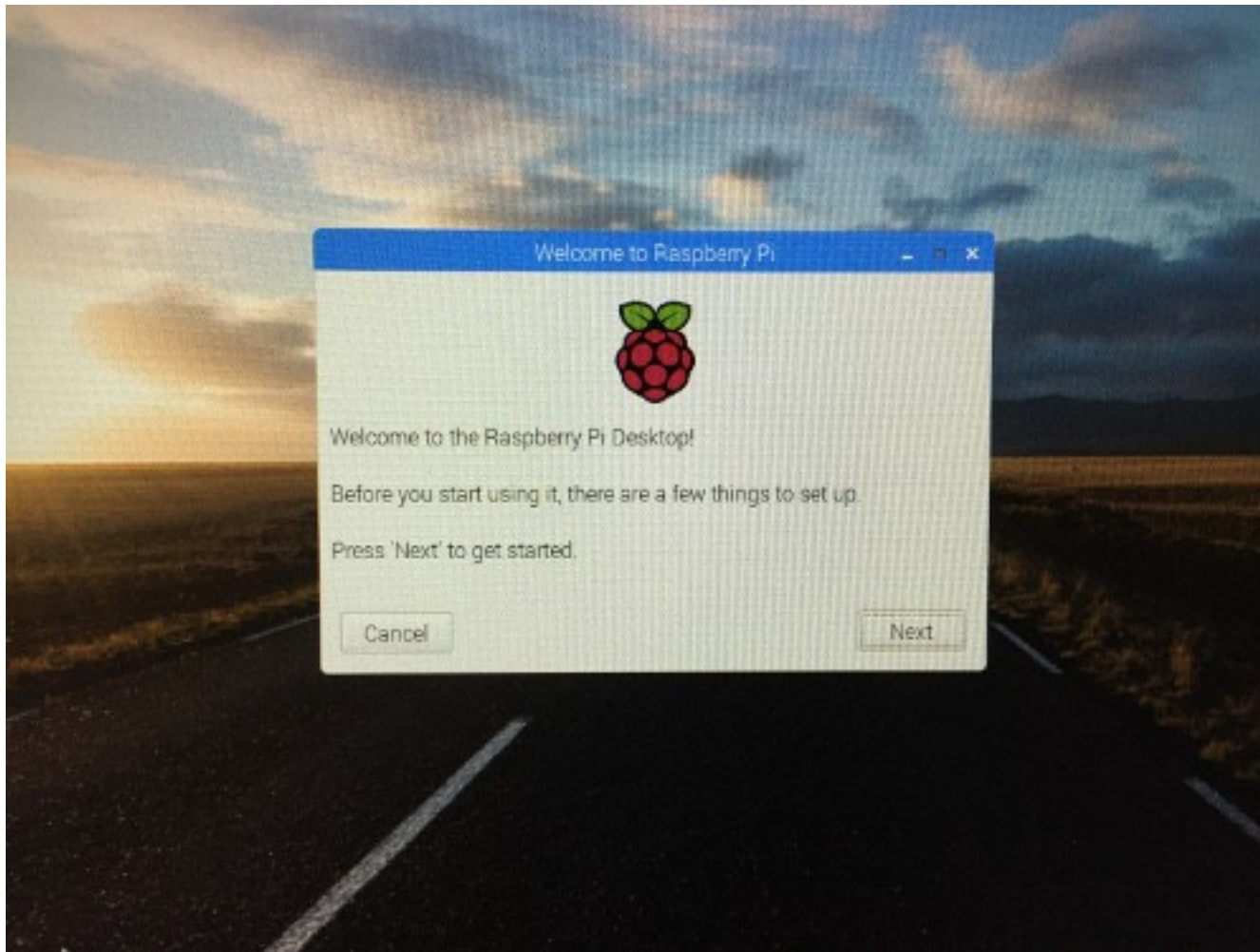
Pantalla

- Pantalla completa al terminar la instalación:



Configuración

- Ahora viene el proceso de configuración:



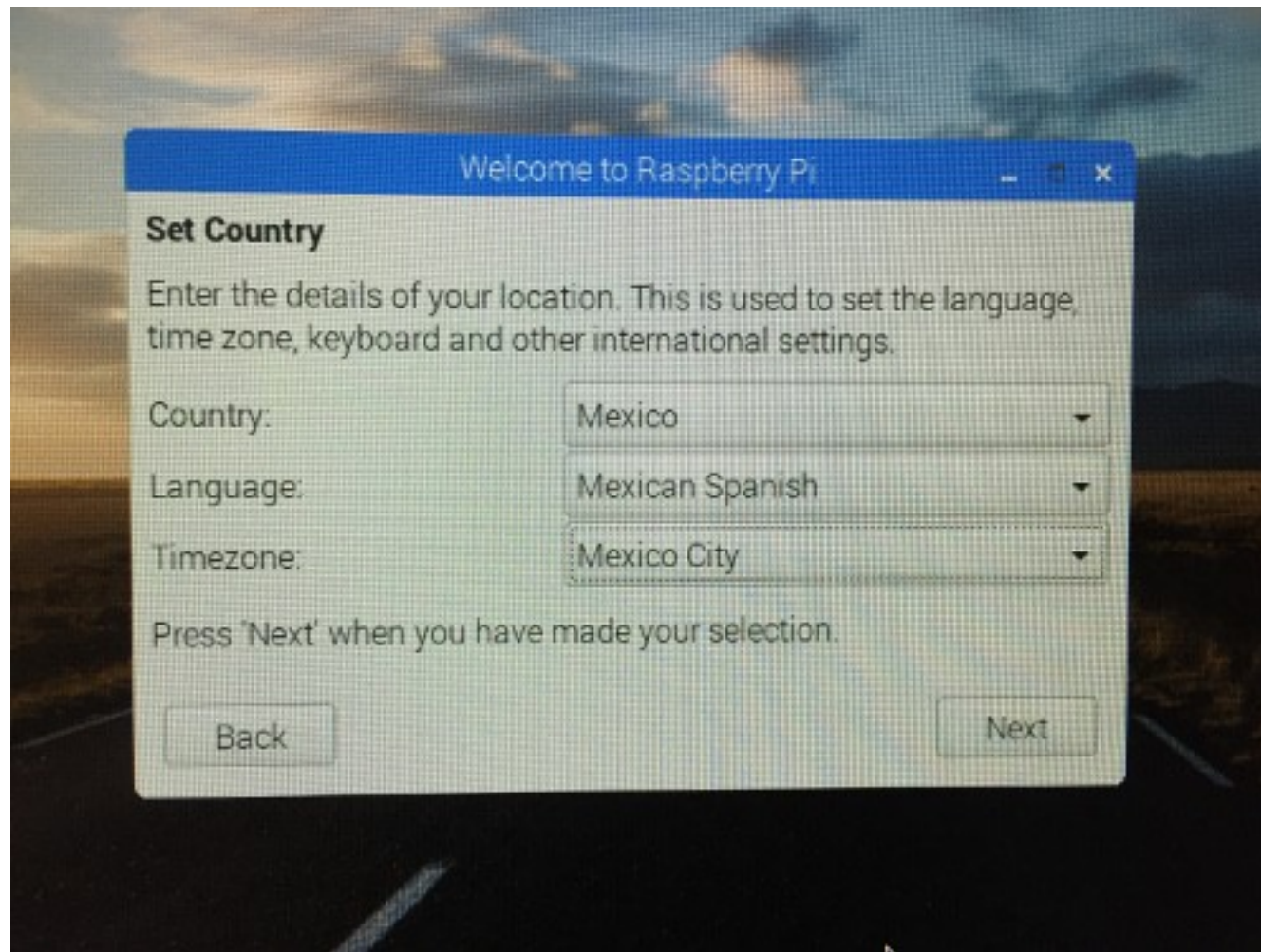
Teclado

- **Seleccionar teclado:**



País

- **Seleccionar país, lenguaje y zona horaria:**



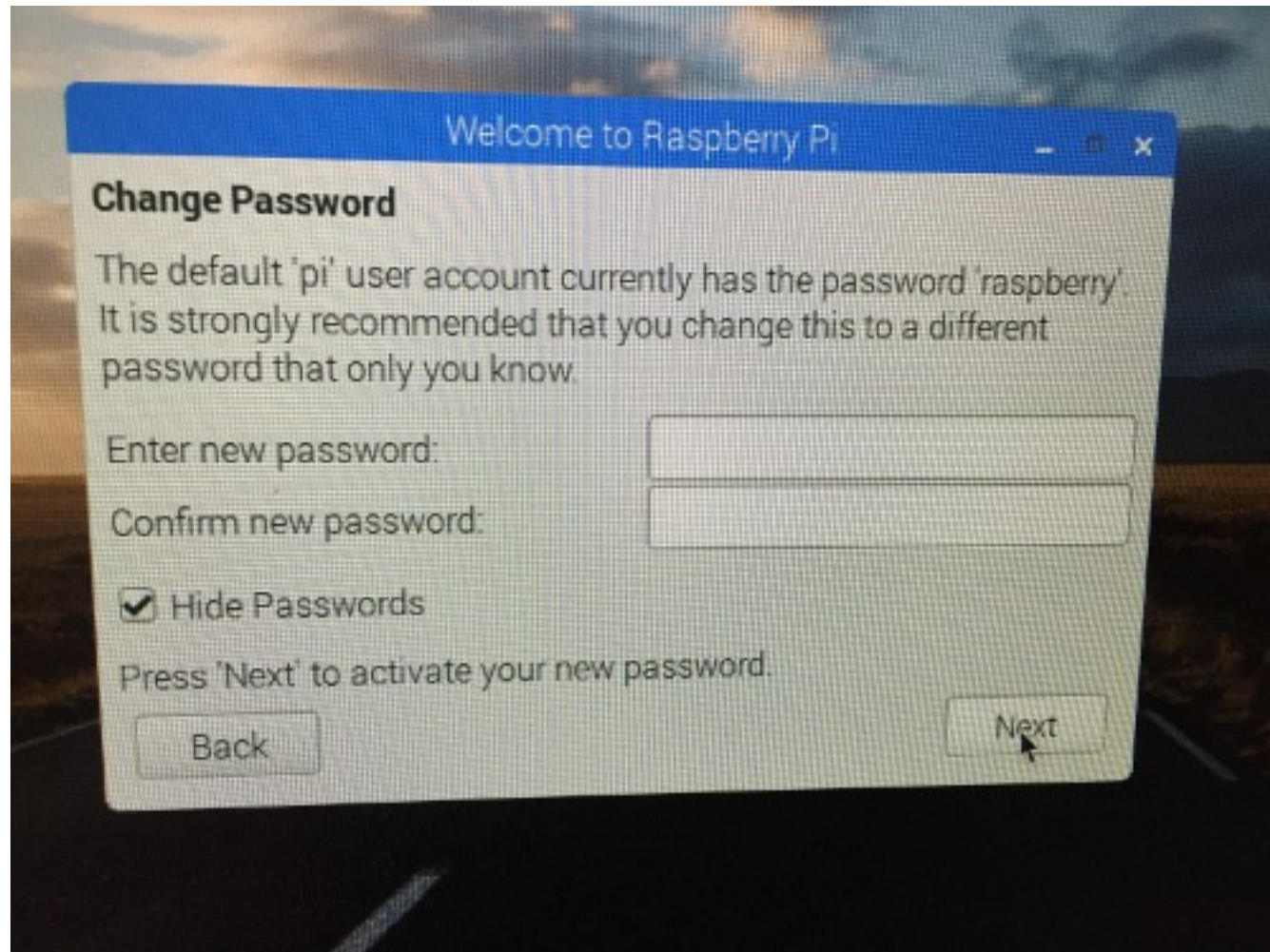
País

- Actualizando los datos:



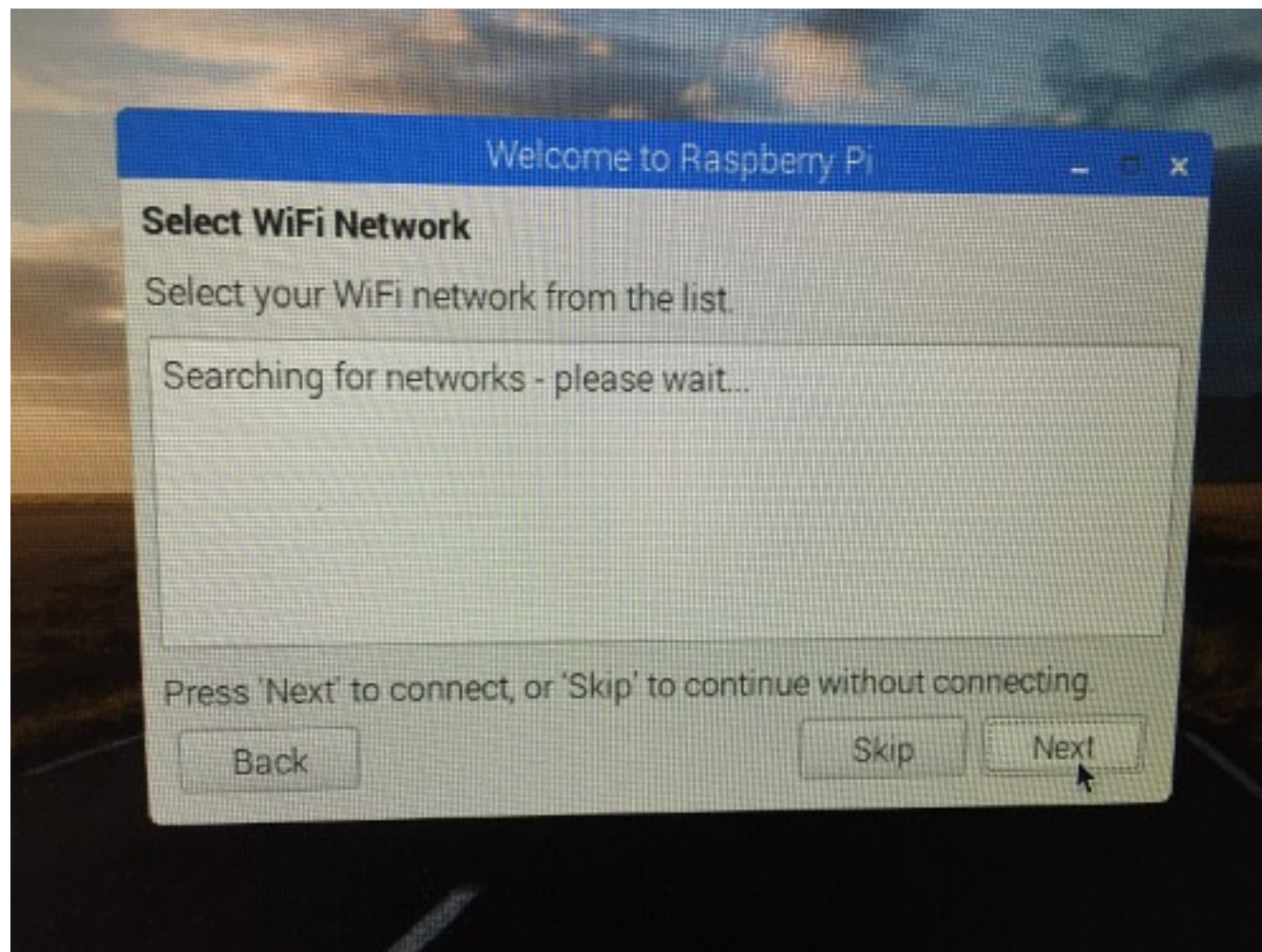
Clave

- **Pregunta la clave de acceso:**



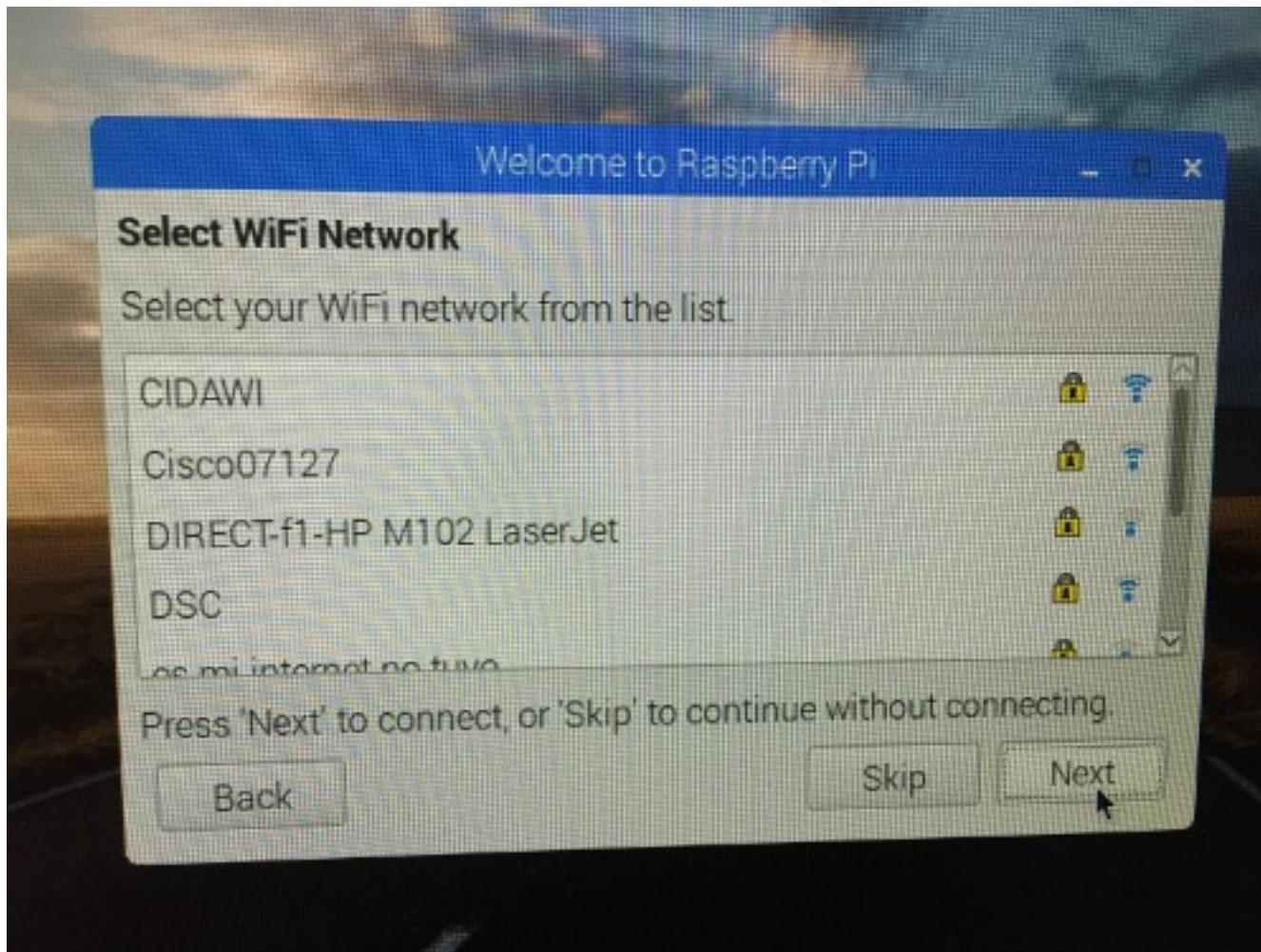
Internet

- Buscando y configurando redes para acceso a Internet:



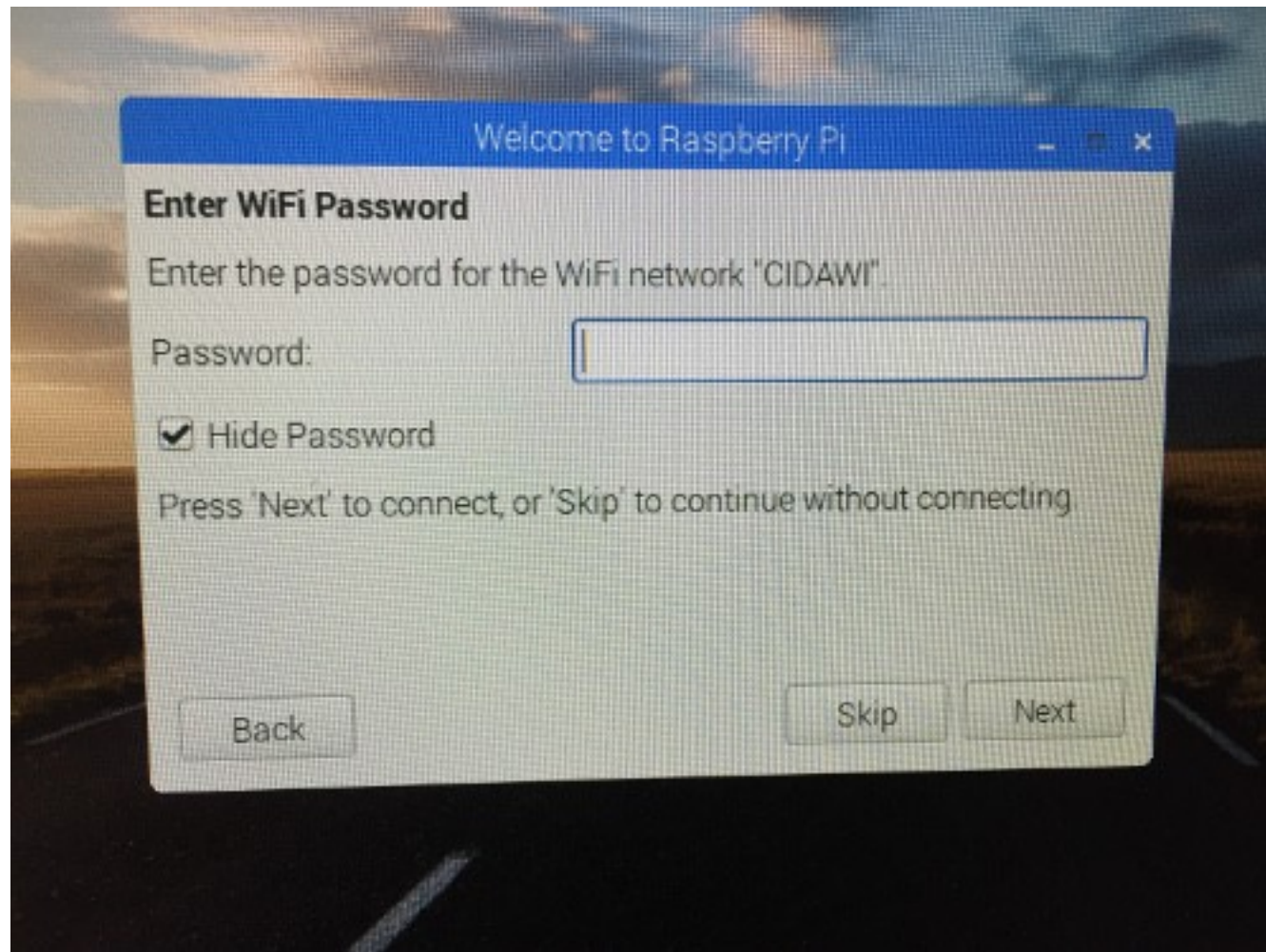
Internet

- Redes encontradas:



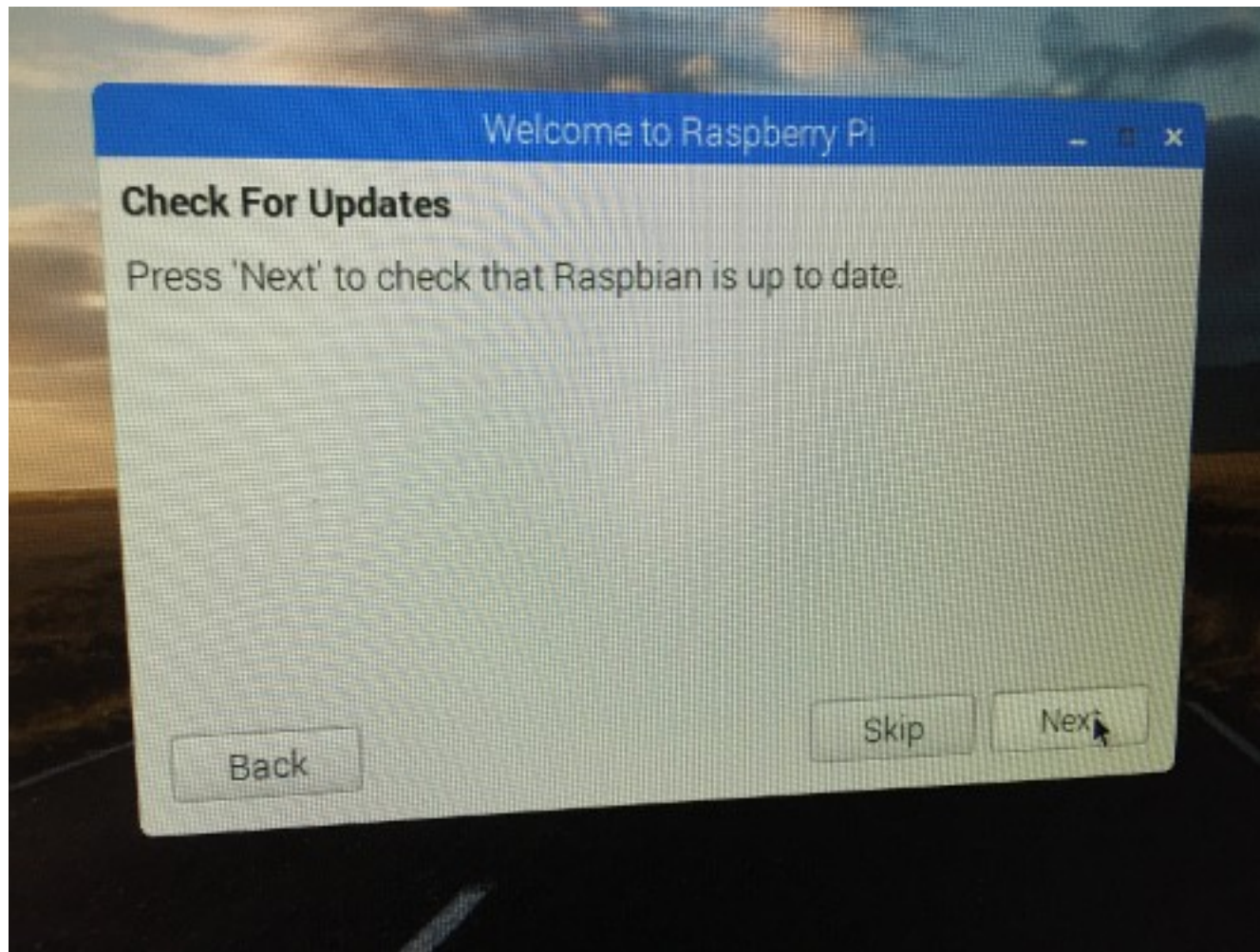
Internet

- **Clave para acceder la red:**



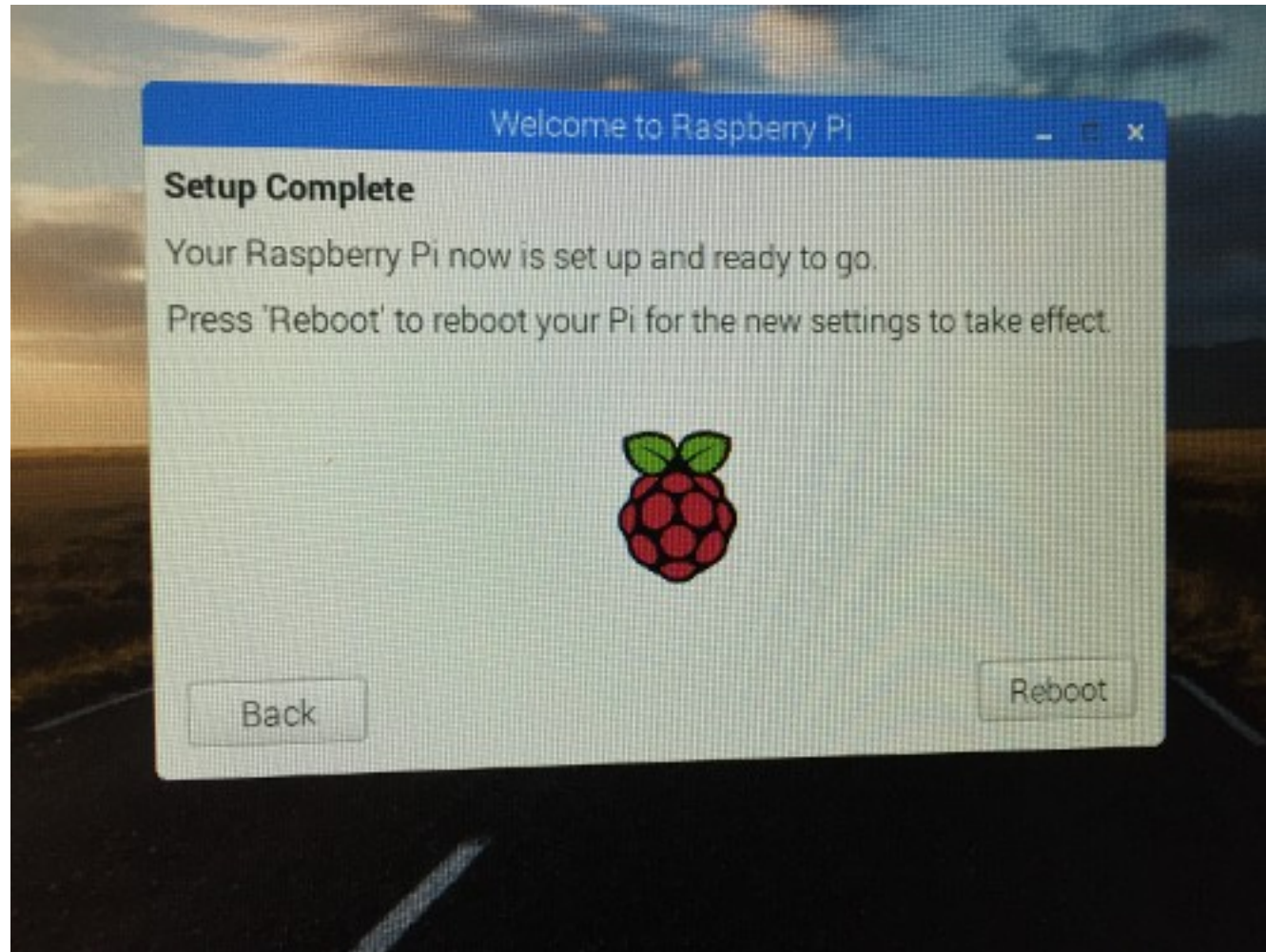
Actualización

- **Buscar actualización de paquetes:**



Finalizar

- Terminando la configuración:



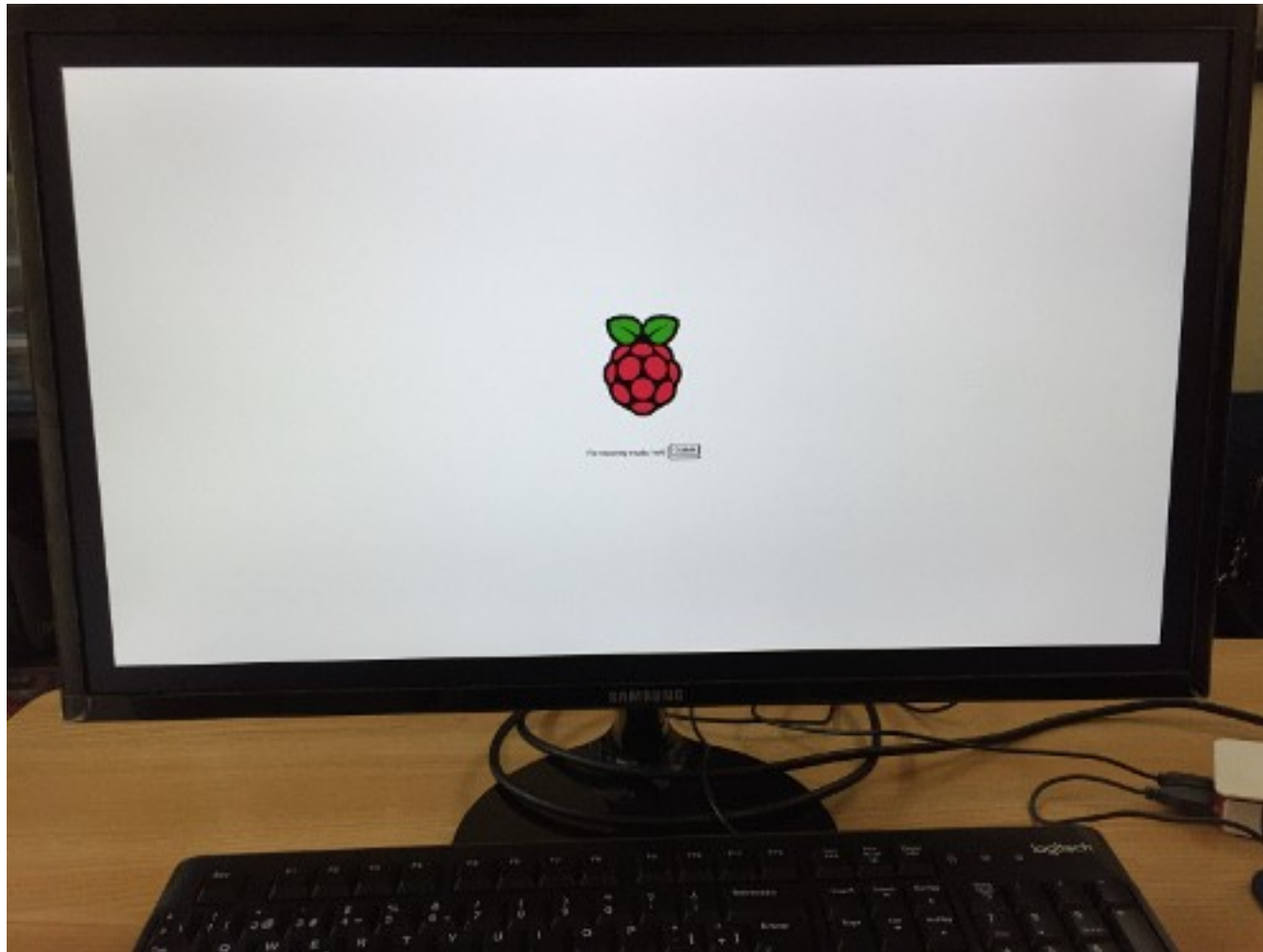
Re-Inicio

- Pantalla al volver a arrancar:



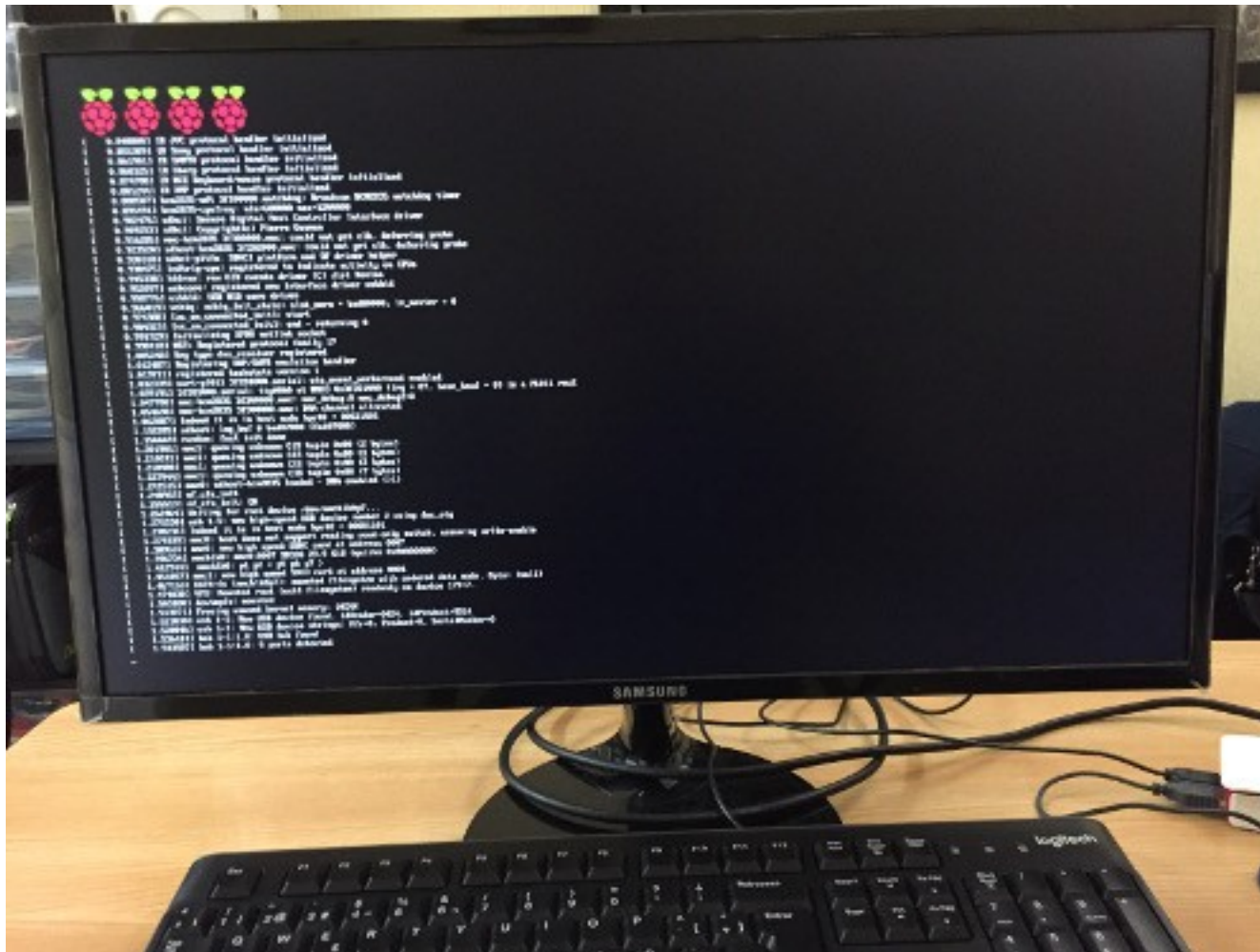
Re-Inicio

- Pantalla al volver a arrancar:



Carga del Sistema

- Cargando los paquetes iniciales del sistema operativo:



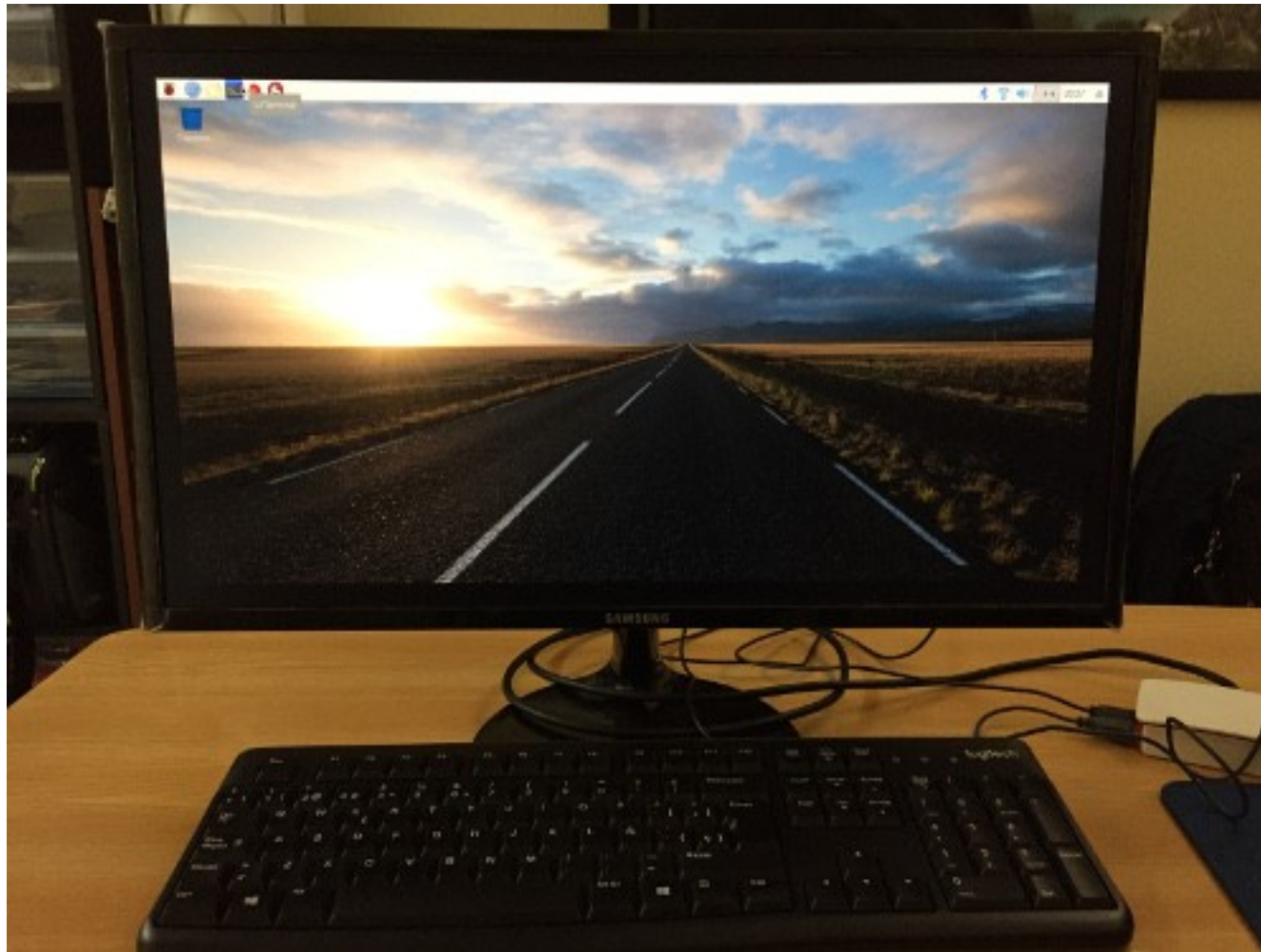
Pantalla inicial

- **Pantalla de bienvenida al sistema:**



Escritorio

- Pantalla del escritorio completa al arranque:



Navegador

- Navegador Chromium en funcionamiento:





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Facebook: http://www.facebook.com/groups/xumarhu.net/