Unix Project (Journal 1)

Buying Raspberry Pi 4:

Either go to www.amazon.ca or www.canakit.com to purchase a Canakit Raspberry Pi 4 kits.

Choosing a Raspberry Pi 4 kit:

Any kit can work for this project, but because we'll be storing a lot of pictures, try purchasing one that has at least +32GB memory storage. For ram it depends on how many tasks you're planning to run, but for this project either 4 or 8 will be sufficient. Lastly, make sure the kit has a fan included to prevent it from overheating.

For this project I got this Raspberry Pi 4:

CanaKit Raspberry Pi 4 Starter Kit (8GB RAM)

Brand: CanaKit

4.7 ★★★★½ 1,297 ratings

$189.99

Size: **8GB RAM**

4GB RAM	8GB RAM
$169.99	$189.99

Brand	CanaKit
RAM memory installed size	8 GB
Memory storage capacity	32 GB
CPU model	MediaTek MT8125
CPU speed	1.5 GHz
Connectivity technology	USB, HDMI, GPIO
Operating system	Raspberry Pi OS
CPU manufacturer	ARM
Processor count	4
Total USB ports	4

See less

About this item

- Includes Raspberry Pi 4 Model B with 1.5GHz 64-bit quad-core ARMv8 CPU (8GB RAM)
- 32GB Samsung EVO+ Micro SD Card (Class 10) Pre-loaded with NOOBS, USB MicroSD Card Reader
- CanaKit Premium High-Gloss Raspberry Pi 4 Case with Integrated Fan Mount, CanaKit Low Noise Bearing System Fan
- CanaKit USB-C Raspberry Pi 4 Power Supply with Noise Filter, Set of Heat Sinks, Micro HDMI to HDMI Cable - 6 foot (Supports up to 4K 60p)
- CanaKit USB-C PiSwitch (On/Off Power Switch for Raspberry Pi 4)

Installing a Raspberry Pi 4 kit:

Inside the box you'll see the following items:

- Raspberry Pi 4 board (8GB RAM)
- 32GB pre-loaded MicroSD card with NOOBS
- Premium High-Gloss case
- Fan
- USB-C power supply
- Micro HDMI to HDMI cable
- USB-C PiSwitch
- Heat sinks

For assembling the case I used this video:

https://youtu.be/Wb1YForDARU?si=3weOgPXA9XcIdbqb

Connecting to the Monitor:

1) Make sure your case is fully assembled.
2) Connect the Micro HDMI to HDMI cable to one of the Micro HDMI ports on the Raspberry Pi (HDMI0 is recommended because it's the primary).
3) Plug the other end into your monitor.
4) Plug your USB keyboard and USB mouse into the available USB ports on the Raspberry Pi (two USB 3.0 and two USB 2.0 ports).
5) Connect the USB-C PiSwitch to the USB-C power port on the Raspberry Pi (this helps you easily turn on and off without unplugging it from the power supply).
6) Plug the CanaKit USB-C power supply into the PiSwitch power input port.
7) Plug the power supply into an electrical outlet.
8) Press the PiSwitch to turn on the Raspberry Pi (the raspberry Pi will begin by displaying the NOOBS boot menu on the screen since the SD card is pre-loaded with NOOBS).
9) Choose Raspberry Pi OS and click install and then wait for the OS to install.
10) Once installed, select your preferences and click next.
11) Connect to your WI-FI network.
12) Make sure it's running with the latest software.
13) Create User
14) Finally, your Raspberry Pi should now be set up.

You can also use this video for a visual step by step guide on how to set it up:

https://youtu.be/2nR06HRpWoY?si=mAdSDBynrZCDES4-&t=1420

This week I installed the raspberry pi and connected it to a monitor. Then once I installed, I played around with the OS to understand how it works.