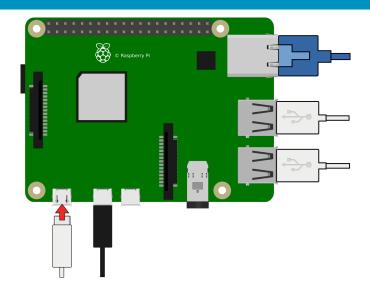# Raspberry Pi Cheat Sheet

Raspberry Pi is a tiny computer running Linux.

What you need

- Raspberry Pi
- Micro SD card
- Keyboard & mouse
- Monitor or TV
- Display cable
- USB-C power supply
- Power cable
- Ethernet cable (optional)

1. Install the operating system

1. Download Raspberry Pi OS from raspberrypi.com/software
2. Use Etcher from etcher.io to write the image to your SD card
3. Insert the SD card into your Pi, attach all cables, and power on

2. Set up Raspberry Pi OS

Default username: **pi**   Default password: **raspberry**

Run **raspi-config** in a terminal for system settings and to enable SSH

Tip: You can place an empty file **ssh** in the /boot directory to enable SSH during boot

3. WiFi

Use the GUI to select a network

Or edit **/etc/wpa_supplicant/wpa_supplicant.conf**

```
network={
   ssid="network"
   psk="password"
}
```

Tip: You can place **wpa_supplicant.conf** in the /boot directory to join a network during boot

Raspberry Pi Cheat Sheet

Manage software

`sudo apt update`	Check for updates over the Internet
`sudo apt full-upgrade`	Apply updates to all installed software
`apt search trash`	Search for an application containing the word **trash**
`sudo apt install trash-cli`	Install the **trash-cli** command
`sudo apt remove foo`	Uninstall the **foo** command
`sudo apt purge foo`	Uninstall the **foo** command and erase its configuration files

Basic Linux commands

`ls`	List contents of current directory
`cd ~`	Change directory to your home directory
`cd ~/Documents`	Change directory to your Documents directory
`cd ..`	Change directory up one level
`touch ~/Documents/file.txt`	Create or update modification time of **file.txt**
`nano ~/Documents/file.txt`	Open **file.txt** in the terminal text editor **nano** (**Ctrl+X** to exit)
`cat ~/Documents/file.txt`	Print the contents of **file.txt** to the terminal
`less ~/Documents/file.txt`	View the contents of file.txt In the terminal (**Q** to quit)
`file ~/Documents/file.txt`	Print what kind of data **file.txt** contains
`trash ~/Documents/file.txt`	Place **file.txt** into the Trash folder
`du -h ~`	Print the disk space that's been used
`df -h ~`	Print the disk space that's free
`man du`	View the manual for the **du** command
`lsblk`	List block devices (hard drives) connected to your Pi
`date`	Print the current date

Change your password

`raspi-config`	Open Raspberry Pi configuration menu to change your password
`sudo password $USER`	Change your password manually

Where to get help

raspberrypi.com   raspberrypi.stackexchange.com

raspberrypi.com/forums   Opensource.com/tags/raspberry-pi