# **BASIC**

## Navigate in file system:

Get where we are:

pwd [print working directory]

Shows where we are in the file system.

- **Is** [list]

List files and folders in the actual folder (where we are).

### Is [list] parameters:

Other shortcuts (aliases) with Is command with parameters.

- **Ilt** (ls -lrth) [-l long] [-r reverse] [-t time] [-h human readable] List files and folders in the actual folder, in a "special format".
- II (Is -Irt) [-I long] [-r reverse] [-t time]
   List files and folders in the actual folder, in a "special format".
- Is / Ilt / Il -a [-a all]
  List files and folders in the actual folder, in a "special format", showing hidden files too.
- Is /path/example/
   Is command supports showing other directories in the given path, not just the current one.

#### - tree

It is a command line program, what can show file structure in a very nice way.

# Moving in file system:

- cd [change directory] path/example/ Jumps to the given path.
- cd ..

Jumps one level up in the file system based on the current position.

- cd ~ [ cd /home/\$USER]
   Jumps to your home folder.
- pushd [push directory] path/example/
   Jumps to the given directory (like cd), but stores your current position.
- popd [pop directory]

Jumps back to the stored (pushd) position.

- Editing / View files with vim editor Vi IMproved, a programmers text editor
  - vim filename

### ESC mode - command mode:

- :w [save file]
- :wq [save and exit]
- a [exit (if file not modified)]
- q! [exit without saving]
- 0 [jump begin of the line]
- \$ [jump end of the line]

### **INSERT** mode

- navigate with arrows [up - down - right - left]

# **ACCESS TO RPITOOLS FUNCTIONS**

### RPITOOLS SERVICES:

**oledinterface** -h -> oled service command line control

With -h or --help print the available options.

With this command it controls the oled display framework.

**rgbinterface** -h -> rgb command line control

With -h or --help print the available options.

With this command it controls the RGB led framework.

**hapticinterface** -h -> vibre motor cmd line control

With -h or --help print the available options.

With this command it controls the vibre motor or haptic engine on the extension shield framework.

**sysmonitor** -h -> system monitoring tool

With -h or --help print the available options.

With this command you can monitor the operating system.

**diskhandler** -h -> external disks handling based on fstab

With -h or --help print the available options.

With this command you can access and control the external drives e.g. HDD, pendrive, SD card.

**confighandler** -h -> config handler based on rpitools config.cfg

With -h or --help print the available options.

With this command you can access for the rpitools environment parameters.

mysshfs -> built in sshfs based on rpitools\_config.cfg

With -h or --help print the available options.

With this command you can mount your preset sshfs server.

**update rpitools** -> update your repository

With -h or --help print the available options.

With this command you can update the rpitools environment and services.

**confhelper** -> interactive config handler for easy modifications.

With -h or --help print the available options.

With this command you can edit your rpitools main configuration.

# **PROFESSIONAL**

#### **MANAGE GUI and PROCESSES:**

**startxbg** -> start gui in the background

Start graphic environment (PIXEL). On HDMI.

**pkill x** -> stop gui

Stop graphic environment (PIXEL). On HDMI.

**startvnc** -> start vnc service

Start vnc graphical remote access.

**kodibg** -> start kodi media center

Start KODI media player. On HDMI.

#### htop

Command line system performance monitor ("graphic").

### ps aux

Command line system process monitor.

# kill <pid>

Stop running process by process id (pid)

## **SERVICES MANAGEMENT**

**systemctl status** <service\_name>
Show status of the given service (daemon).

**sudo systemctl restart** <service\_name> Restart the given service (daemon).

sudo systemctl start <service\_name>
 Start the given service (or daemon).

sudo systemctl stop <service\_name>
 Stop the given service (or daemon).

### **RASPBIAN SYSTEM CONFIGURATION FILES:**

II ~/rpitools/config/

Irwxrwxrwx 1 pi pi 25 May 29 20:12 apache2.conf -> /etc/apache2/apache2.conf Irwxrwxrwx 1 pi pi 17 May 29 20:12 cmdline.txt -> /boot/cmdline.txt Irwxrwxrwx 1 pi pi 16 May 29 20:12 config.txt -> /boot/config.txt Irwxrwxrwx 1 pi pi 19 May 29 20:12 dphys-swapfile -> /etc/dphys-swapfile .

# **OLED AVAILABLE PAGES AND EXAMPLES:**

II ~/rpitools/gpio/oled\_128x64/lib/pages/ -rw-r--r-- 1 pi pi 1.8K May 29 20:12 page\_0.py -rw-r--r-- 1 pi pi 1.8K May 29 20:12 page\_1.py -rw-r--r-- 1 pi pi 1.7K May 29 20:12 page\_2.py -rw-r--r-- 1 pi pi 1.5K May 29 20:12 page\_3.py .

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