

# Working with the Terminal



# General Commands

- **clear** Clears previously run commands and text from the terminal screen
- **date** Prints the current date
- **find / -name filename.txt** Searches the whole system for filename.txt and outputs a list of all directories that contains the file
- **nano example.txt** Opens the file example.txt in the Linux text editor Nano
- **raspi-config** Opens the configuration settings menu
- **reboot** Reboots immediately
- **shutdown -h now** Shutdown immediately
- **shutdown -h 01:30** Shutdown at 1:30 am

# File and Directory Commands

- **pwd** Print working directory; shows the current directory path
- **cd /abc/xyz** Changes the current directory to the /abc/xyz directory
- **cd ..** Navigate up a directory
- **cd ~** Navigate to the home/user directory
- **ls -l** List all the files in the current directory and their properties
- **mkdir new\_directory\_name** Creates a new directory called new\_directory\_name inside the current directory
- **mv filename.txt /home/pi/Downloads/** Moves the filename.txt file inside the /home/pi/Downloads folder

# File and Directory Commands

- **touch example.txt** Creates a new empty file called example.txt in the current directory
- **rm filename.txt** Deletes filename.txt
- **rmdir directory\_name** Deletes the directory called directory\_name (only if it is empty)
- **rm -rf directory\_name** Deletes the directory called directory\_name and all it's containing files and subdirectories
- **scp filename.txt username@10.0.0.106:/some/path/file.txt** Copies filename.ext over SSH. The file is copied to a machine with IP Address 10.0.0.106 to the /some/path/file.txt path. This action is performed on behalf of the user, username.

# Networking commands

- **ifconfig** Check the status of the wireless connection you are using (to see if wlan0 has acquired an IP Address)
- **iwconfig** Check which network the wireless adapter is using
- **ping** Tests connectivity between two devices that are connected on a network
- **wget <http://www.website.com/file.txt>** Downloads the file located at <http://www.website.com/file.txt>

# System information commands

- **cat /proc/meminfo** Show details about your memory
- **df -h** Shows information about the available disk space
- **df /** Shows how much free disk space is available
- **dpkg --get-selections** Shows all of your installed packages
- **dpkg --get-selections | grep XXX** Shows all of the installed packages that are related to XXX
- **hostname -I** Shows the IP Address of your Raspberry Pi

# Shortcuts

- **up and down arrow** Cycle through previously typed commands
- **tab key** Performs an auto-complete of name of a file or directory you are currently typing
- **Ctrl + c** Quit a currently running process
- **Ctrl + d** Exit a host session
- **!!** Repeat the last command executed