

Linux Cheat Sheet

Legend:

- Keystrokes
- Commands

Directories and Files

pwd	Show your current path
cd [directory]	Change your path
touch [name]	Creates an empty file without opening it
mkdir [name]	Creates an empty folder
rm [name]	Removes a file
rm -r [name]	Removes a folder and its content
cp [src] [dst]	Copies a folder or file
mv [src] [dst]	Moves a folder or file. Can be used for renaming

Read and Write files

cat [file]	Outputs a file to console
nano [file]	Opens a text-editor
echo [text]	Outputs entered text to the console
[input command] > [filename]	Sends the output of the left to the file on the right. Overwrites the file if it exists
[input command] >> [filename]	Sends the output of the left to the file on the right. Appends to the end of the file if it exists
[command1] [command2]	Sends the output of command1 to command2 as input
less [file]	Paginates a file for reading
head [file]	Outputs first 10 lines of a file to console
tail [file]	Outputs last 10 lines of a file to console

List files

ls	Show files in directory
ls -a	Show all files
ls -l	Show files with more information
ls -la	Combine l and a option
ls [directory]	Use ls on another directory than your current one

Programs

sudo [command]	Runs a command as root
apt install -y [program]	Install a program. The -y option accepts any questions during install. It can be left out depending on choice.
man [program]	Shows the manual of a program
apropos [keyword]	Searches all the manuals of installed programs for a reference to the keyword
ctrl+c	This keybind terminates a command
ctrl+z	This keybind send process to background
fg	This command retrieves a process send to the background

Search

grep [searchpattern]	Searches the input, used with piped input. Returns the full line with every result
find [dir] -name [regex]	Searches a folder for all files or directories matching the regex pattern

Permission

Permissions 4 Read (r) , 2 Write (w), 1 Execute (x)	Permissions are divided into 3: User (U), Group (G), Others (O). To get a permission, every allowed action is added up, ie. For read and write it is 6 and for no permissions it is 0. Formatted UGO, ie. 775 means rwx for user rwx for group and r-x
chmod [perm] [target]	Changes permission for target
chown [owner] [target]	Changes owner of target