- whoami print the user name currently logged in to the terminal session
- man get the manual of the command
- pwd print current working directory
- 1s list all the files inside a folder. You can add a path as an option.
  - I gives a lot of other info about files (their size, permissions, etc.)
  - ∘ does not ignore files starting with ".".
- help provides help for a command. Much like man but its for commands build into the shell like cd.
- cd change directory
- mkdir creates new directory. Can take multiple names.
  - -p makes it possible to create nested directories. ex.: mkdir -p
    fruits/apples. With -p mkdir doesn't throw an error when the directory already exists.
- touch create an empty file, or updates the modification time of a file if it already exists
  - -d <date> selects another date
  - --reference <file> copies date from another file
  - -a changes access time instead.
  - -c changes change time instead.
  - -m changes modification time instead.
- rmdir delete a directory, only works if the folders are empty. Can take multiple names.
- rm removes files or optionally directories. Can take multiple names.
  - -r to remove a directory, empty or not

- -i for interactive mode. Asks us if we want to delete each and every file separately
- f to force file removal. It works even if a file does not have write permissions.
- mv <old\_location> <new\_location> move a file, or rename a file. Can take multiple files, as long as the last parameter is the destination folder. Can also move and rename folders.
- cp <file> <copy\_name> copies a file. Can copy multiple files, if the last argument is a directory.
  - -r copies a directory recursively.
  - -a preserves the dates of modifications, permissions and copies directories recursively.
- head outputs the first 10 lines of a file.
  - -n <number> specify the number of lines.
  - -c <number> specify the number of bytes.
- tail outputs the last 10 lines of a file
  - -n <number> specify the number of lines.
  - -c <number> specify the number of bytes.
  - F keep printing new lines appended to a file as its being modified
- date print the current date and time.
- cat prints file's content or concatenates multiple files.
  - -n output line numbers
  - -v output non-printable characters.
- less read a file in a nice interactive UI.
- echo prints something on the screen, ends with \n.
  - o -n omits the newline
  - • turns backslash escapes into characters.

- wc word count, returns the lines, words and bytes in that order.
- sort sorts lines in a file. It does not modify it's contents, it only outputs the sorted list alphabetically (not numerically). Can also take a std output.
  - ∘ -n sorts it numerically.
  - -r reverse order.
  - -u only get the unique values.
  - -h sorts by numbers in human readable format, i.e. with units and decimals.
  - -k<columns> sorts by columns. When columns is a single number it sorts by columns+1, columns+2, columns+3...When it is two comma separated numbers it sorts by the first column to another.
  - -s stable sort
- uniq omits repeated lines. Only removes adjacent duplicates.
  - Indicate of the lines of the li
  - -u only print the lines that have no duplicates.
  - ∘ -c count.
- diff <file1> <file2> show differences between files
  - -y show side by side comparison
  - -u show git like output
- find . finds all matching files in the current directory and deeper. Substitute '.' for a path if you want to search somewhere else
  - -name <name> looks by the name of the file. <name> could be a regular expression.
  - -type <name> looks by the type of the file. d directory, f files
  - -iname looks by the name, case insensitive.
  - -or no need for explanation. The order of switches matters in this context.
  - -not again, self explanatory.

- -size looks by the size of the file. -size +100k looks for files more than
  100Kb and -size -1M looks for files less than a megabyte.
- -mtime searches by date of modification. -mtime +3 searches for files modified more than 3 days ago.
- grep <text> <file> finds text inside a file
  - ∘ -n get line numbers.
  - -c <number> get number of lines of context before a match and number of lines after.
  - -r recursive, looks inside the current directory instead of a single file.
    The second parameter should be a directory name instead of a file, or when omitted, it defaults to the current directory.
  - -i case insensitive.
  - -v find non-matching lines instead.
- du find the sizes of files in a directory.
  - ∘ -m sizes in megabytes.
  - In human readable size. Gives size in proper units
- df gives disc usage.
- history get history of typed commands. It will give you line numbers and commands. To run a command again type !!line number>.
- ps inspect running processes started by currently logged in user. Use ps ax to see every process.
  - -e shows every process
  - II-fI-F chooses long, full or extra full output format
  - LI-T includes the threads in results
- pstree shows a tree of processes.
  - -p expands by pid.
  - -u expands by user name.
  - -a expands by arguments.

- top show top most processor intensive processes.
- pgrep matches process name with a regex.
  - F matching regex with name and arguments
- kill <PID> sends signals to processes.
  - -1 list all signals
  - TERM terminate. The default.
  - -<number> where number is the number of the signal
- pkill <regex> works just like pgrep but will also send a signal when matched.
  - The same as for kill.
- killall <name> kill a process by a name. If multiple processes match, it kills them all.
  - All the switches from kill
- jobs see current jobs in this window.
- bg <job number> resume a job in background. To run a command in background add a & at the end.
- fg <job number> resume a job in foreground.
- In <original> link> to create a hard link.
  - -s create a softlink.
- who who is logged in.
- su <user> switch users.
- sudo <command> run commands as root user.
- passwd change someone's password. By default changes your password.
- chown <new owner> <file> change ownership of a file or directory.
  - R change ownership recursively.
- chmod <mode> <file> change permissions of a file.
  - -R change permissions recursively

- --reference <file> to copy permissions from a reference file.
- ssh user@host to login into a remote shell.
- whatis <pagename> to see which sections contain given page name. To then display a manual for a specific page use man <section> <pagename> .
- groups <name> lists all groups a user belongs to.
- stat file to see details about a file including permissions.
- umask [octal num] display and change default permissions for a file.
- paste <file>... outputs files like zip in python, separated by a TAB, until the longest one ends.
- printf <format> <args> works almost like printf in C.
- seq [from [seq]] to prints numbers from from until it reaches to, and increments by step.
  - -w makes numbers equal width.
- cut output only selected characters.
- tr replaces or deletes characters.
  - Ist deletes all characters from the LIST.
  - FROM TO translates characters from list FROM to list TO.
- locate searches files from database.
- alias word=value to set an alias. Without arguments it lists aliases.
- unalias word to unset an alias.