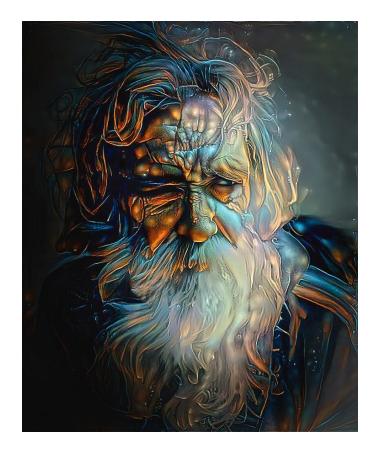
Command Line - Matrix Time

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■ Note	
Stakeholders	
Status	
• Туре	

- command line is the nerd-approved way to run programs
- it is the OG and was around long before any Graphic User Interface (GUI)
 - GUI's were invented to stop mouth-breathers ruining the machine they were using
 - we are so used to GUI's now that we've mostly forgotten the purpose of command line
- it gives you more control and power, but relies on you knowing what you're doing
- some commands can literally ruin your computer, so be SUPER CAREFUL
 - don't copy and paste commands unless you know what they are or trust the vendor
 - sudo can temporarily elevate your privileges to 'super-user' USE VERY RARELY
- command line is used for connecting to remote servers, running custom programs etc
 - some wizards still exist that can control every aspect of their machine from a terminal



- as a web developer you may not need it often, but it is worth getting used to because;
 - GUI's are expensive and usually built for users rather than devs
 - getting comfortable "close to the machine" is a good thing, machines are your friends

```
Applications Documents
                                                                         Library
                                                                                                              Music
                                                                                                                                                   Postman
                                                                                                                                                                                        sainsburys
Desktop
                                    Downloads
                                                                         Movies
                                                                                                              Pictures
                                                                                                                                                   Public.
  » cd Desktop
 ~/Desktop » 1
luke-landau-ioAcademy
 ~/Desktop/luke-landau-ioAcademy » ls -a
                                             .DS_Store code
 ~/Desktop/luke-landau-ioAcademy » cd code/
 ~/Desktop/luke-landau-ioAcademy/code » ls
 week-1
~/Desktop/luke-landau-ioAcademy/code » cd week-1
 ~/Desktop/luke-landau-ioAcademy/code/week-1 » ls
   est-practice-cheat-sheet.html jumbotron - try again
 ~/Desktop/luke-landau-ioAcademy/code/week-1 » ls -al
drwxr-xr-x 19 ioacademy staff
drwxr-xr-x 4 ioacademy staff
-rw-r--r-0 1 ioacademy staff
-rw-r--r-0 1 ioacademy staff
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-rw-r--r-0 1 ioacademy staff
drwxr-xr-x 7 ioacademy staff
-rw-r--r-0 1 ioacademy staff
-rw-r--r-1 1 ioacademy staff
                                                                                           128 10 Jul 01:50 ..
6148 10 Jul 01:50 .DS_Store
4892 10 Jul 01:06 best-practice-cheat-sheet.html
144 8 Jul 08:48 css-style-sheet.css
277 7 Jul 14:12 css-style-sheet.css
763 8 Jul 08:40 favourite-people.html
870 8 Jul 16:25 form-thing.html
10560 9 Jul 18:10 html_cheat_sheet.html
224 8 Jul 08:47 jumbotron - try again
143846 7 Jul 15:24 jumbotron-desktop.png
1951 7 Jul 11:13 my-website.html
6137 8 Jul 08:49 rayna-example-exercise-solution.html
177 8 Jul 08:48 rayna-solution.css
1497 8 Jul 14:15 rosa-code.html
                                                                                                 1873 7 Jul 16:23 simple-website-stylesheet.css
1009 10 Jul 16:50 test.html
   /Desktop/luke-landau-ioAcademy/code/week-1 »
```

useful commands

- cd is used to change the current directory, allowing us to move around the file system
 - cd on its own will return you to your home directory
 - typing cd then pressing tab will display directories in the current folder, or auto complete if there is only one to move to
 - cd ~/with/an/absolute/path will move you directly to a directory from anywhere
- Is lists files in the current directory

- adding the -a option lists all hidden files
- adding the -1 option shows file permissions
- command line options can often be given as one, e.g ls -al
- man pulls up a manual for a given command (q to quit)
 - e.g man ls to see the list manual, man rm to see the remove manual
- mkdir creates a new directory
- touch creates an empty file
- rm deletes a file
 - _r attempt to remove file hierarchy
 - I-f remove warnings, errors and confirmation prompts
 - _rf is a silent recursive folder delete (delete everything and don't tell me about it)
 - e.g rm -rf folder will delete everything in the folder
- chmod changes the permissions of a file
- sudo temporarily elevates permissions (Super User DO) don't brick your machine
- cat displays contents of file in the command line
- pbcopy < file will copy a file to clipboard
- nano and vim are text editors common to many terminals
 - can be launched from the command line, as can any program
 - escape vim by pressing esc to return to command mode
 - :q! to quit, :wq save and quit
 - 1 to enter INSERT mode
 - need to learn to set nano to default
- ctrl+c terminate program running in current terminal
- terminals are highly customisable

- A good package to instal is OhmyZsh
 - make the terminal look more friendly / clear
 - lots of pre-made themes and ability to customise
 - nano ~/.zshrc to pull up the options file
 - source ~/.zsgrc to set all changes in options file