<u>Terminal Ubuntu:</u>

First of all, the Ubuntu terminal is a terminal that run appart of windows. So if you want to navigate trough your documents, you need to go to de root and begin by /mnt.

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_	cd (change directory)					
_						
_	ls (List of the elements inside a folder) [Equivalent on windows DIR]					
_	pwd (Show the path of the forlder we are) [CD on windows] Print working directory					
_	cd (To get back in the path)					
	mkdir (create a folder at the place)					
	touch (check if a file with the name exist, if not create one)					
_	 cat (cat command allows you to create single or multiple files, view content of a file, concatenate files and redirect output in terminal or files.) More explication with the command cat, if you use the command cat to create a file, cat > name.file you can write multiple lines in it directly after. However you need to quit after with ctrl + d (or with ctrl + c but it's not recommanded). 					
	mv (allows you to move a file into a folder you can also use this command to rename a folder if you don't move it the second entrance is the new name) [exemple : mv one.txt story]					
_	rm (allow you to delete a file, you need to confirm that)					
_	rm -rf (delete the directory and all inside)					
_	cp (allows you to copy a file) [exemple : cp one.txt two.txt]					
_	— dirs / pushd / popd (pushd allows you to add a path to a stack that will be keep in memory. dirs allows you to see the stack and popd to remove the last path added.) If we want to add a path to the stack without going to this path, we can type pushd -n « fullpath » You can use the options -l and -v with dirs to make the appears as an enumerate list. So you can more easely use the pushd command with indices to go on the path you want. You can also use popd with an indice to choose the path you want to delete from the stack.					
_	ls -s (allows you to see the owner and group permissions of the files) To change owner of a file you need the admin privilege.					
_	sudo (Allows you to run command as root)					
_	chown (Allows you to change the owner of a file)					
	chmod (control who can access file) you cannot use chonw, chmod, chgrp on windows files when you're in a linux terminal					
_	chern (Allows you to change the group of the file)					

— For the command chmod you can use these options:

Access class	Operator	Access Type
u (user)	+ (add access)	r (read)
g (group)	- (remove access)	w (write)
o (other)	= (set exact access)	x (execute)
a (all: u, g, and o)		

```
william@Polet-William:/$ cd home
william@Polet-William:/home$ ls
william
william@Polet-William:/home$ cd william
william@Polet-William:~$ ls
william@Polet-William:~$ touch file.txt
william@Polet-William:~$ ls -1
total 0
-rw-r--r-- 1 william william 0 May 11 15:36 file.txt
william@Polet-William:~$ sudo chown root file.txt
[sudo] password for william:
william@Polet-William:~$ ls -1
total 0
-rw-r--r-- 1 root william 0 May 11 15:36 file.txt
william@Polet-William:~$ sudo chgrp root file.txt
[sudo] password for william:
william@Polet-William:~$ ls -l
total 0
-rw-r--r-- 1 root root 0 May 11 15:36 file.txt
william@Polet-William:~$ git --version
git version 2.25.1
william@Polet-William:~$ sudo chmod ug+rwx file.txt
[sudo] password for william:
william@Polet-William:~$ ls -l
total 0
-rwxrwxr-- 1 root root 0 May 11 15:36 file.txt
william@Polet-William:~$ sudo chmod o-r file.txt
william@Polet-William:~$ ls -l
total 0
-rwxrwx--- 1 root root 0 May 11 15:36 file.txt
william@Polet-William:~$ cat file.txt
cat: file.txt: Permission denied
william@Polet-William:~$ sudo cat file.txt
```

It's normal if there's one line missing that's because the file was empty so the cat command return nothing.

Nano and Vim:

Nano and Vim are text editors that can be used inside the terminal.

To create a file with Nano, type nano « name.extension » and then a windows appears.



You can write in it, to save it you need to use ctrl + O and press enter to confirm, after you quit with ctrl + X

To create a file with Vim use the same way, type vim « name.extension »

You will have a window that appears and to write in it you need to press i to enter in insert mode. When you have finish you can press esc to stop editing.

To save the file type: wq (to save and exit the file) to only exit the file type: q!

There's a lot of things to learn from Vim, for a little preview you can type the command vimtutor.

For exemple you can use the command dw in normal mode to delete an entire word, or juste use the x to delete a caracter.

```
william@Polet-William: ~

Some stuff in it

<h1> You can write what you want</h1>
there's some options, you need to be in "INSERT" mode to write as well.

You can delete some files with by pressing x in "NORMAL" mode

Etc, etc (press esc to escape INSERT mode and go back to NORMAL mode)

Also to save a file press :wq_
```

```
We l c o me t o t he V I M T u t o r - Version 1.7 =
Vim is a very powerful editor that has many commands, too many to explain in a tutor such as this. This tutor is designed to describe enough of the commands that you will be able to easily use Vim as an all-purpose editor.
The approximate time required to complete the tutor is 25-30 minutes, depending upon how much time is spent with experimentation.
ATTENTION:
The commands in the lessons will modify the text. Make a copy of this file to practice on (if you started "vimtutor" this is already a copy).
It is important to remember that this tutor is set up to teach by use. That means that you need to execute the commands to learn them properly. If you only read the text, you will forget the commands!
Now, make sure that your Caps-Lock key is NOT depressed and press the j key enough times to move the cursor so that lesson 1.1 completely fills the screen.
```

```
Lesson 1 SUMMARY

1. The cursor is moved using either the arrow keys or the hjkl keys.
h (left) j (down) k (up) l (right)

2. To start Vim from the shell prompt type: vim FILENAME <ENTER>
3. To exit Vim type: <ESC> :q! <ENTER> to trash all changes.
OR type: <ESC> :wq <ENTER> to save the changes.

4. To delete the character at the cursor type: x

5. To insert or append text type:
i type inserted text <ESC> insert before the cursor
A type appended text <ESC> append after the line

NOTE: Pressing <ESC> will place you in Normal mode or will cancel
an unwanted and partially completed command.
```

Markdown Langage:

Markdown is a lightweight langage for creating formatted text.

You can do it with any text editor. You just need to respect the syntax and use the extension .md Few exemple of the syntax :

- # is to make a title. You can put up 1 to 6 # (1 for the largest title and 6 for the smallest)
- To create a paragraph just write, if you want to go to the line, finish your line with 2 spaces.
- To make a list, just do a list who begin with 1. continue with 2. and if you want to do a sublist repeat usting 1. with an indentation.
- If you want to instert a gif use and the link of the gif between the parenthesis.

```
g william@Polet-William: /mnt/c/users/willi/desktop
                                                                               I somebody who like to learn and help people to learn (I was a teacher before).
I like to play video games as well (actually on Dofus there's a time limited server
it's very fun ;p)
And if you want to know more about me, just ask !

    I can solve a 3x3 Rubik's cube under 1min (maybe with a little practice, it's be

en a very very long time !) my PB is between 30 and 40 sec, can't remember lol.
I really enjoy playing video games but I don't finish half of the games I buy...
3. If you ask me for help, I will help you with pleasure if I'm capable.
 . My girlfriend of course <3
 Free time (to play video games or to do sport)
 . Learning new things !
Honestly for now, I don't know. I just want to learn new thins, to change my carree
r. I know that I want to do a backend developper bc frontend is not my cup of tea.
Maybe I will go on JAVA, maybe not. Keep you in touch !
NONE (just kidding, but I don't really have fears so I don't know what answer to th
Just learning new things and be able to work as a developper because I like it. I d
on't want to do a job that I don't like.
## Three things I value the most to work as a team :
1. Communication, the most important skill !
 . Ask for help if needed, it's never a shame to ask someone's help, the shame is t
o not ask and loose time and energy for nothing.
 . Explain things calmly and clearly so you will not have to repeat the same thing
over ans over.
I don't have a favorite gif, not a huge fan of gifs.
By the way, how do you pronounce "gif" ?
If I had to put a gif it will be this one maybe :
For those who wants to know I was looking for a gif avout my favourites games, but
could not find one that I really liked, so I put one of the "Cra" Goddess for Dofus
/Wakfu_
'Markdown.md" [dos] 29L, 2081C
                                                                    29,173
                                                                                  All
```

And you can see the result by clicking on this link.

Git and Github:

Github is a service to store your code, git it's the technology that has two purpose. First one is to connect to the services (Github or BitBucket)

Second you will able to use git to do some version control, if you are writting a piece of code for 3 days for exemple. You need to add something with no link, and we need to be sure that you don't have any issues, for that you can do a copy of your code and work on the copy.

Github online, git on your machine.

A repository is the place where you're going to push your code on Github.

It's nice to separate things, so one challenge, one repo.

Create a new repository:

- Choose repository name.
- Write a little description (optionnal)
- choose if it's public or private
- Add a README file, are the files that contains the description of the repo.
- Git ignore, just ignore certains files that you don't want to be on Github. (very important)
- Choose a license (MIT license is good), it's not a mandatory, it's a sentence that will protect your code (law?)

(Github copilot is a help to code when we write, it's a paid service based on IA, that use the code on Github to perfect the IA and predict the code you will write.)

So now whe have a repo with a README file, but it's only on github, we want to have it on our computer.

To do that, you need to create a link between your computer and the github repo. For that go on your repository and clone your repository, by HTTPS, SSH or Github CLI way.

CLI is a webservices software that you can install to your terminal to communicate for Github. It's a proprietary version of Git.

Copy the HTTPS link, write git clone « link from Github »

Now we have a folder with the README file and in the file the title of the repo.

We can modify the README file, by adding some content. However it's only modify on the computer and not on Github.

We need to keep the modification, so we want to put it on Github.

The folder (copy of your repo) is tracked by Git, actually on the main branch, the only one actually.

If you want to check if you modified the code you can type the command git status it gives you all the files modified.

git add . the . is to say that I want to add everything.

(It put all the content in the bus and we can check if it has been added with git status)

git commit -m here -m is a flag (option to be more precise on the command)

When we do a git commit -m we need to put a message with it, we can for example say what we did in the repo or code.

(Now the little cross disappear but the bus is ready to go to Github)

git push It's the command to send the work on Github, but we need to tell where it needs to go.

For that we use git remote -v to have the address (that we copy earlier from Github) of the repo, but it's also caller \ll origin \gg

So we can do: git push origin main main is to say that the content need to go on the main branch.

Let's do a little recap :

- do a clone of the repo. (git clone) (only if you have created a new repo)
- add content in the copy, new file, modify files who already exist, etc.
- add all the content to be send. (git add.)
- give a message. (git commit -m)
- send it to Github. (git push origin main)

With git add, we can choose the files that we add. (But it not happen in general)

Difference between Master and Main, Master is just an old word for Main.

HTML sementic: