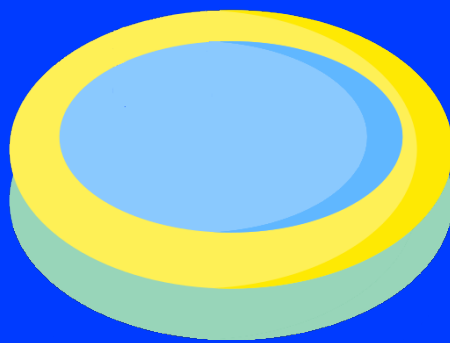




WADING POOL

< 01 - WORKING ENVIRONMENT />



WADING POOL

Welcome to your very first pool!

You will apprehend a lot of unexpected competencies (human, technical, organizational, ...) during this magic period. It may be hard sometimes, or even frustrating, but one day, we will laugh about it and be so proud of yourself!



Keep cool, this seminar is NOT evaluated!
Still, it is of prime importance and should be considered very seriously.

Usual daily content

Tasks

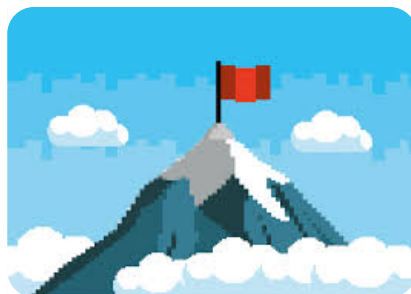
Each tasks are generally independent from each other, with an incremental difficulty:



The last exercises are calibrated to be hard enough to be done by a happy few only.
However, you should be able to understand and success the simplest "carrot" tasks.

Challenges

The challenges use several notions scattered throughout the subjects's exercises. If you don't feel up to it straight away, that's normal. Come back later to try again.





You should compare your productions with others and discuss the pros and cons of each solution. The best answers could be presented publicly.



Even if you'll learn a lot doing them, you're not supposed to spend all day on the challenge. You've got better things to do!

Games

Last but not least, in addition to your daily tasks, you are always encouraged to go as far as possible through a specific game, related to the notions of the subjects(s).

Work on it as soon as you have a bit of time, or whenever you need a break in you day!



Even if you'll learn a lot playing them, you're not supposed to spend all day on the challenge. You've got better things to do!

GAME



OH MY GIT!

In addition to the tasks below, you must go as far as possible in [this game](#).

Work on it as soon as you have a bit of time, or whenever you need a break in you day!



Working environment

Task 1.1



Connect to the IONIS network and:

- ✓ open ["My" page](#) and check your schedule for this week ;
- ✓ open [the Microsoft365 page](#) and check your emails ;
- ✓ open [the Python help page](#) ;
- ✓ open the Microsoft Teams application ;
- ✓ browse your local directory in a file manager ;
- ✓ type `pwd` into a terminal emulator.

Task 1.2



Watch those 3 dense 100-second-videos from the [Fireship Youtube channel](#):

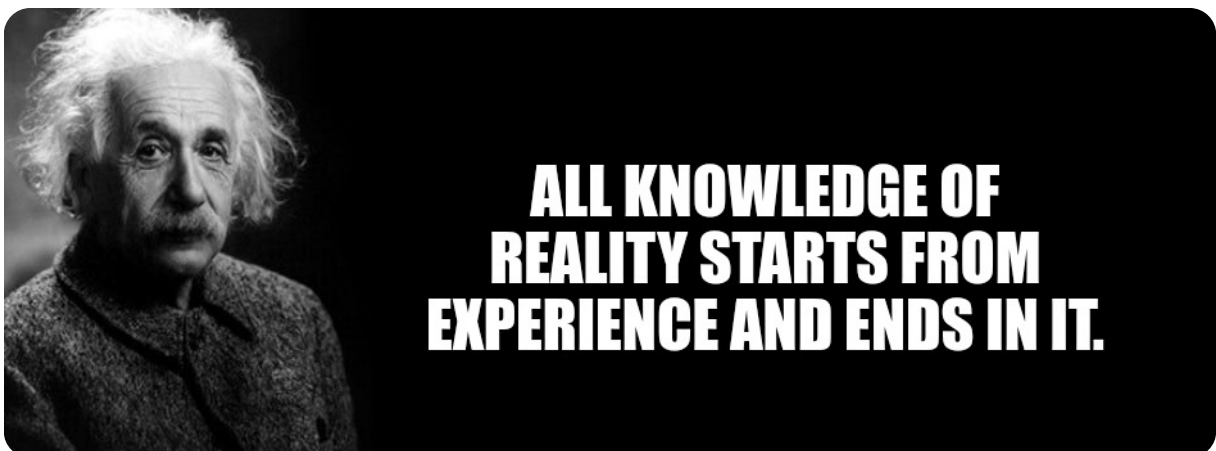
- ✓ [Linux in 100 seconds](#)
- ✓ [Linux Directories Explained in 100 Seconds](#)
- ✓ [Bash in 100 Seconds](#)

You probably did not understand everything covered in these videos...

Discuss with your neighbors the points you understood and the shady ones, and try to collectively shed light on some Linux core concepts.



You may watch an unlimited number of videos to learn how to use Linux or how to code, but nothing is better than your own experience.



Task 1.3



Can you guess why it's important to use at least a terminal text editor?

✓ VSCode

Install Visual Studio Code. Once installed, use it to create a file.

In this file, write "VSCode is a very practical and user-friendly IDE.", save this file somewhere on your computer and exit VSCode.



Do not save your files into a junk folder.
Save them into a specific well named and organized folder.

✓ Nano

In your terminal emulator, use the *Nano* editor to create a file.

In this file, write "Nano is a simple text editor in your terminal.", and save this file.

✓ Emacs

In your terminal emulator, use the *Emacs* editor to create a file.

In this file, write "Emacs is an advanced text editor.", and save this file.

✓ Vim

In your terminal emulator, use the *Vim* editor to create a file.

In this file, write "Vim is an advanced text editor.", and save this file.



Challenge

This challenge is pretty easy, it's a typing test focused on code writing.

First, go to 10fastfingers.com and/or monkeytype.com;

Then, aim for the best score in term of WPM (Words Per Minutes) **and** Accuracy.



Do NOT break your keyboard on the very first day.



Git interlude

Access your repositories

Most of your projects have to be turned-in as a Git repository hosted on [GitHub](#). So, you must have a GitHub account using your Epitech email address. If you already have an account, you can simply add your Epitech email address to it.

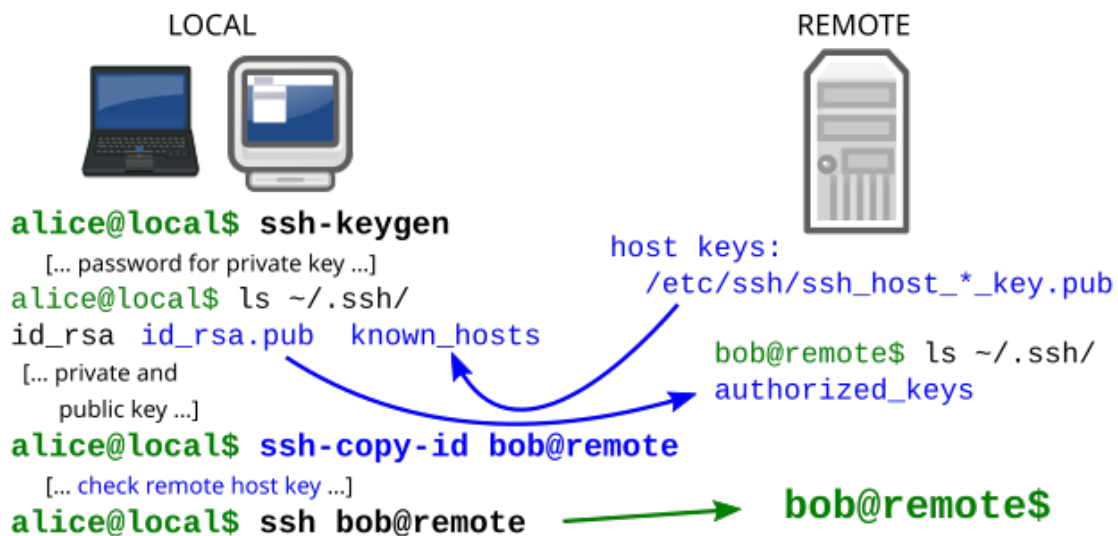
On GitHub, all your Epitech projects will be grouped under an organization. If you check your email, you should have already received an invitation to your promotion's Epitech organization.



If you've not received an invitation email, contact your local pedagogical team about it.

Okay, now you're in the organization. And you're part of a team within this organization, which gives you access to the project's dedicated repository.

You must generate a **ssh key** named `id_rsa`. Then, add it to your GitHub account. It allows you to authenticate with GitHub to access your repositories.



Be sure to authorize the previously added ssh key for use with GitHub single sign-on.



For more information, see the document "How to turn-in".

Clone a repository, then push your work to deliver

Now is time to check if the previous part really works. To do so, clone the repository for your delivery, it should be available at an address that looks like this:

`git@github.com:<$PROMOTIONTEAM>/<$MODULECODE>-<$INSTANCECODE>-<$PROJECTNAME>-<$GROUPID>.git`, where:

- ✓ `<$PROMOTIONTEAM>` is the github team corresponding to your promotion,
- ✓ `<$MODULECODE>` is the code of the project's module,
- ✓ `<$INSTANCECODE>` is the code corresponding to your current semester,
- ✓ `<$PROJECTNAME>` is the project's name,
- ✓ `<$GROUPID>` is the id of your group for this project.



Visit the organization's GitHub page to view all your accessible repositories.
On a repository webpage, click on the "Code" button to get its SSH URL.
Search the web for **git best practices**.

If everything worked correctly, you'll have a result similar to:

```
Terminal
$> git clone git@github.com:EpitechMyPromo-2042/B-PRE-100-NCE-0-0-project-1.git
Cloning into 'B-PRE-100-NCE-0-0-project-1'...
warning: You appear to have cloned an empty repository.
```

Now, move all your previously created task folders into the repository of the subject.
Then, you have to inform `git` of your wish to **add** these files.
After that, you have to **commit** a new local revision which contains all these modifications.
Finally, you have to **push** this revision to the remote server.
From now on, commit and push at the end of each task.



Make sure that the file permissions have not been altered during the copy/move.

	<div> <div>u</div> <div>g</div> <div>o</div> </div>								
	754								
access	r	w	x	r	w	x	r	w	x
binary	4	2	1	4	2	1	4	2	1
enabled	1	1	1	1	0	1	1	0	0
result	4	2	1	4	0	1	4	0	0
total	7			5			4		

Shell

Task 2.1



The shell is a program running inside a terminal allowing to browse files and directories, as well as running programs using text-based commands.

Find the right commands in order to:

- ✓ go to your recently cloned directory ;
- ✓ list the content of this directory ;
- ✓ create a `01` directory inside this directory ;
- ✓ create a `task2.1` file inside the cloned directory ;
- ✓ move this file inside the `01` directory of the cloned directory.



Do NOT use your mouse or touchpad ; but only your keyboard!

Task 2.2



In a file named `task2.2`, write a command that lists the current repository's files and directories (without hidden files, ellipses, or files starting with a dot) sorted alphabetically.

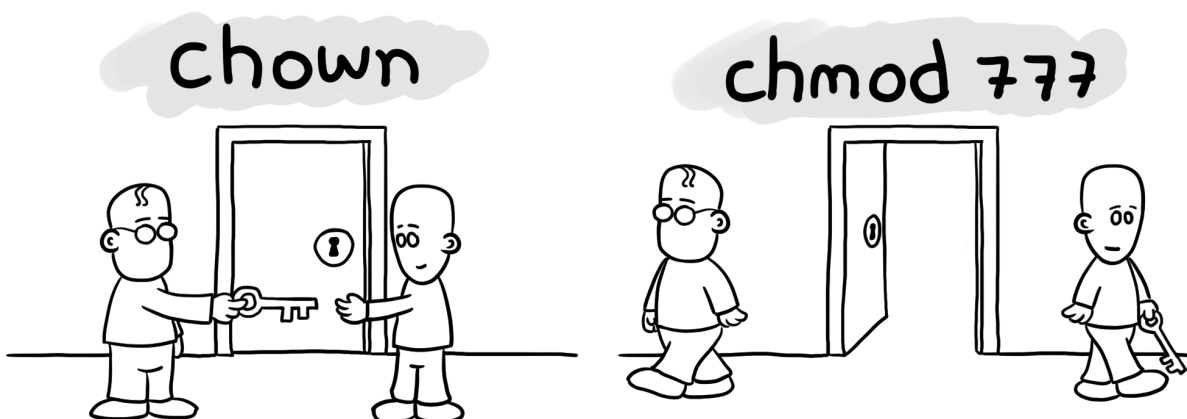


Files and directories should be separated by commas. Directories must end with a slash.

Task 2.3



Add execution **permissions** to everyone on your previous file.



Task 2.4



Replicate the folder structure exactly as displayed below.

```
"task2.4"/
|-- "Electro"/
|   |-- "Aphex Twin"/
|   |   |-- "Come to Daddy"/
|   |   |-- "Bucephalus Bouncing Ball"
|   |-- "Fatboy Slim"/
|   |   |-- "You've Come a Long Way, Baby"/
|   |   |-- "1-02 - The Rockafeller Skank"
|-- "HipHop"/
|   |-- "Beastie Boys"/
|   |   |-- "Singles"/
|   |   |-- "Sabotage-Get It Together"/
|   |   |-- "Sabotage (LP Version)"
|   |-- "MF DOOM"/
|   |   |-- "Madvillain - Madvillainy"/
|   |   |-- "03 - Meat Grinder"
|   |-- "Notorious BIG"/
|   |   |-- "Life After Death"/
|   |   |-- "Hypnotize"
|-- "Rock"/
|   |-- "Rage Against The Machine"/
|   |   |-- "Rage Against The Machine"/
|   |   |-- "Killing In The Name Of"
|-- "Soundtracks"/
```



Directories end with a slash.



Check if you did it right using `tree -FQ --charset=ascii .`

Sociability

Task 3.1



Chat with the 3 closest people to you.
Take this opportunity to help them since you almost complete your daily tasks already.



Remember to keep the smile :)



By the way can you cite the fundamental values of Epitech?
Ask your local pedago, (s)he must know them. If not, ask you local director.

Task 3.2



Observe your colleagues around you.
Can you spot someone looking at you? Do you know this person's name?
Go and introduce yourself, you are probably to work together soon or later.



v 2.2

{EPITECH}