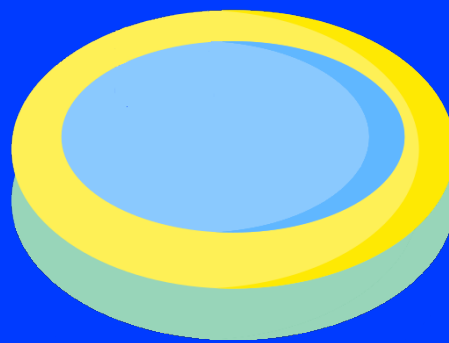




WADING POOL

< DAY 01 />



WADING POOL

Welcome to your very first pool!

You will learn 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. Very.
The rest of the year would flow more smoothly in case of a successful pool!

Each day's tasks are relatively independent from each other, but the difficulty is often incremental and 3 levels exist:

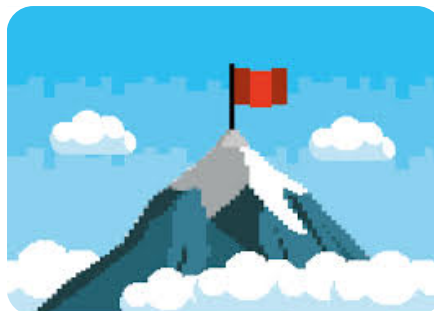


The last exercises are calibrated to be hard enough to be done by a happy few only. However, you should be able to understand and success the simplest "carrot" tasks.



GAMES & CHALLENGES

In addition to your daily tasks, you are encouraged to go as far as possible in a game and/or a challenge. Work on it as soon as you have a bit of time, or whenever you need a break in you day! These games and challenges last for 2 days, and you will learn a lot doing them!



GAME



If you need a little break in your day, we suggest you to play [the bandit wargame](#). We also encourage you to resume your game later.

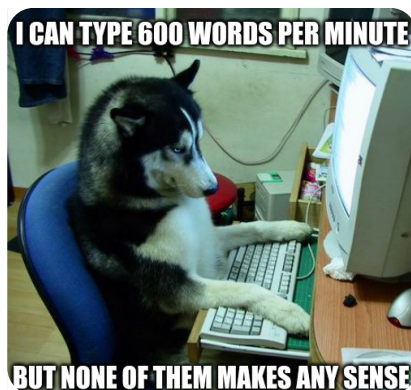


CHALLENGE



The challenge uses several notions scattered throughout the day'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.

Today's challenge is pretty easy. Go to [10fastfingers.com](#) and/or [monkeytype.com](#). Then, aim for the best score in term of velocity AND accuracy.



Do NOT break your keyboard on the very first day.
Do NOT spend all day on the Game nor the challenge, you've got better things to do!

Working environment

Task 1.1



Let's ensure (almost) everything is in place for the coming year. Here is the checklist:

- ✓ A working computer with the following recommendation:
 - A recent x86_64 processor (i3 equivalent or above) ;
 - 8 Gb of RAM (or above) ;
 - 5Ghz compatible Wireless card ;
 - a webcam and a headset ;
 - at least 256 Gb of Solid State Storage.
- ✓ A UNIX-like operating system:
 - we advise the latest stable version of Fedora with the appropriate packages ;
 - WSL (Windows Subsystem for Linux) is NOT recommended ;
 - A Virtual Machine is NOT recommended ;
 - MacOSX is NOT recommended.



Follow the instruction of your pedagogical team to install Fedora and its packages.



You can check if everything is OK with the wonderful tool available along with this subject.



Task 1.2



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

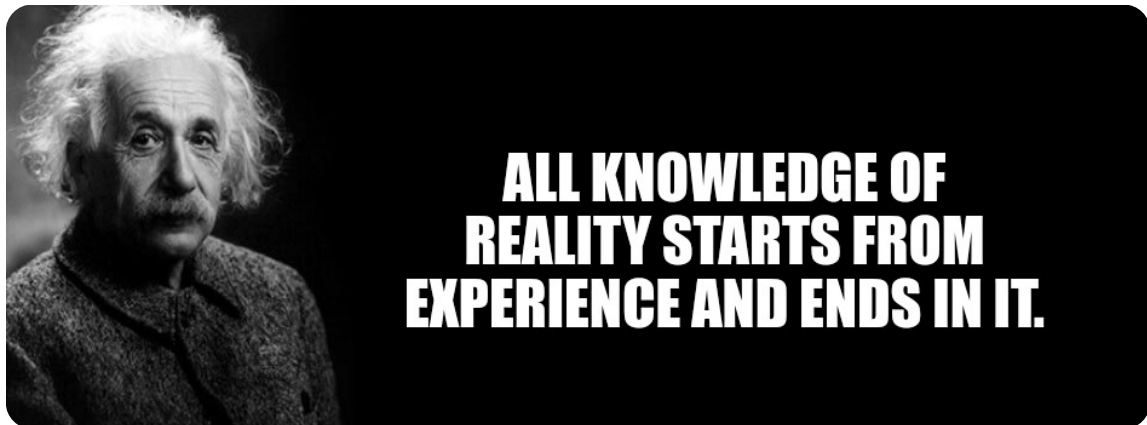
- ✓ [Linux in 100 seconds](#) ;
- ✓ [Linux Directories Explained in 100 Seconds](#) ;
- ✓ [Bash in 100 Seconds](#).

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



Connect to the IONIS network and:

- ✓ open [your intranet page](#) and check your schedule for this week ;
- ✓ open [the Office365 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 1.4



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 file into a junk folder.

Save it into a specific well-named and well-organized folder.

✓ Emacs

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

In this file, write "Emacs is a more advanced text editor working both in a terminal and in a graphical environment.", save this file somewhere on your computer and exit Emacs.

✓ Vim

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

In this file, write "Vim is the best text editor working in a terminal.", save this file somewhere on your computer and exit Vim.

✓ Nano

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

In this file, write "Nano a simple text editor in your terminal.", save this file somewhere on your computer and exit Nano.



Challenge



Everyday you will get an optimisation exercise. You should compare your productions with others and discuss the pros and cons of each solution. The best answers could be presented publicly.

Today's challenge is pretty easy, it's a typing test focused on code writing:

- ✓ Go to 10fastfingers.com and/or monkeytype.com;
- ✓ Aim for the best score in term of WPM (Words Per Minutes) and Accuracy.



You don't need to break your keyboard on the very first day.



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.

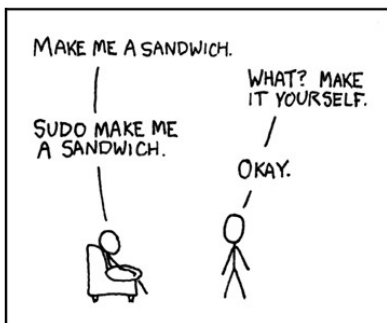
Find the proper commands in order to:

- ✓ go to your `home` directory ;
- ✓ list the content of your `home` directory ;
- ✓ create a `wading_pool` directory inside the `home` directory ;
- ✓ create a `day01` directory inside the `wading_pool` directory ;
- ✓ copy this current file inside it.



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

Task 2.2



Do you feel comfortable with the Linux shell?

- ✓ If you do not:
 - Go to: <https://overthewire.org/wargames/bandit/> ;
 - Take some time to experiment and exchange.
- ✓ Else:
 - Go to: <https://overthewire.org/wargames/bandit/> ;
 - Help your colleagues ;
 - Go as far as possible.

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.



v2

{EPITECH}