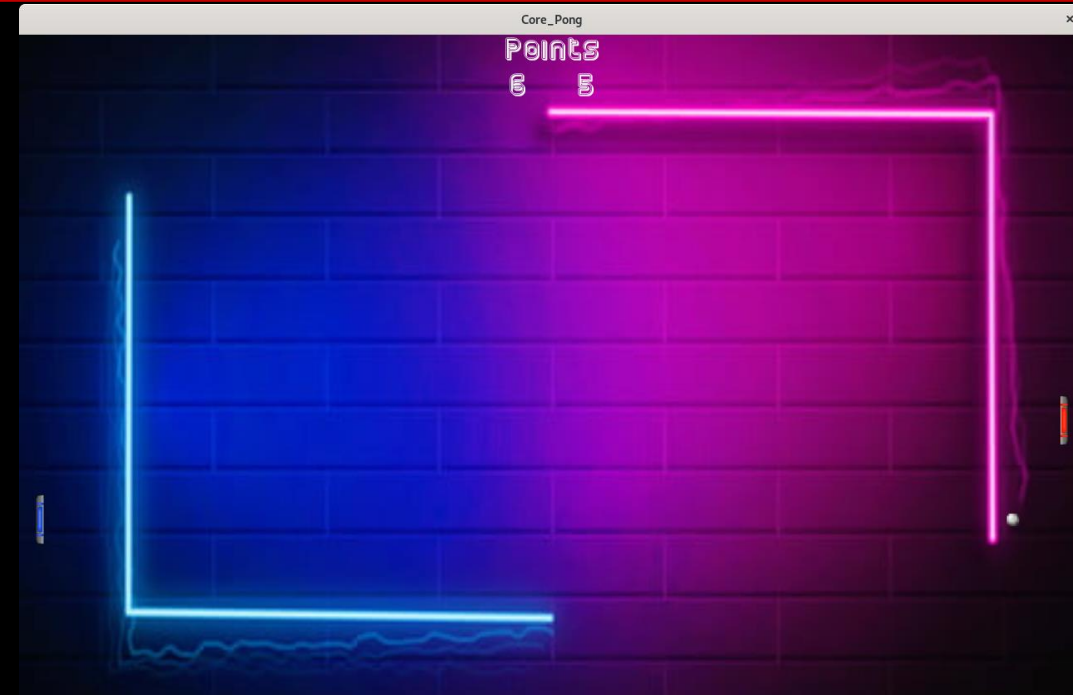# Java projects

Pong

Specifications

- Remake the game «pong »

- Add custom game mode like a mode with obstacles.

- Make menu to navigate between all game modes.

Skills

- Learn to code with processing without use objects.
- Complete all specifications in a limited time.
- Learn java programming.

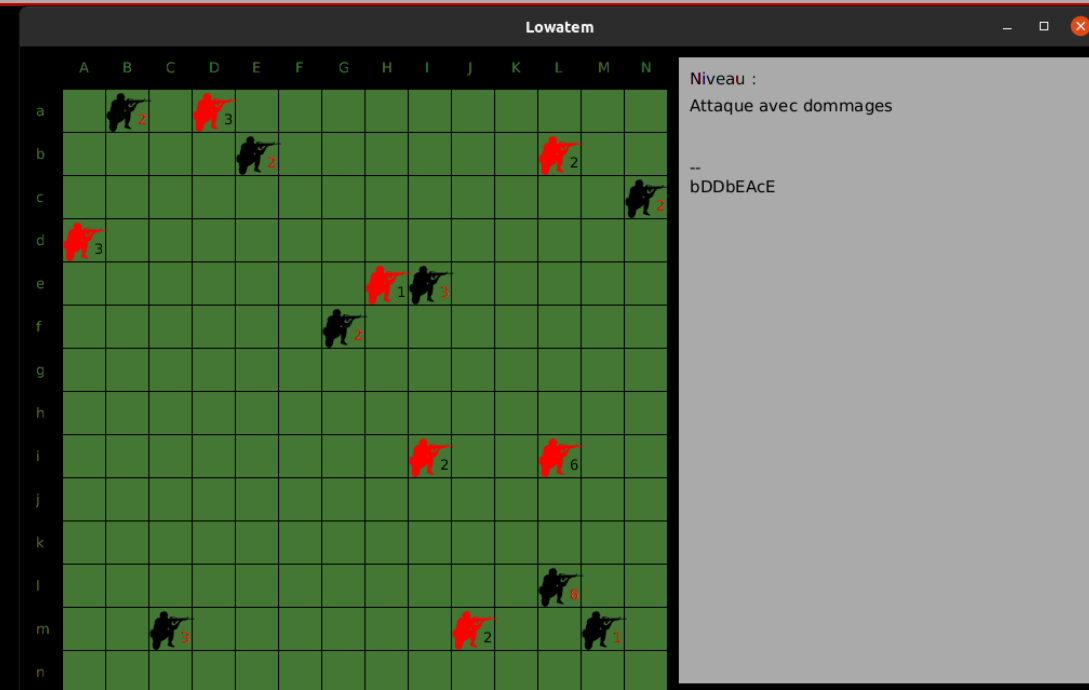*Final project : playing normal game mode.*

Lowatem

Specifications

- Develop with java on an existing project.

- Implement rules step by step for a board game.

- Make unit test for each new rule

Skills

- Learn java programing with object concept
- Write coherent tests
- Use git
- Code's comprehension

Lowatem

Niveau :
Attaque avec dommages

--
bDDbEAcE
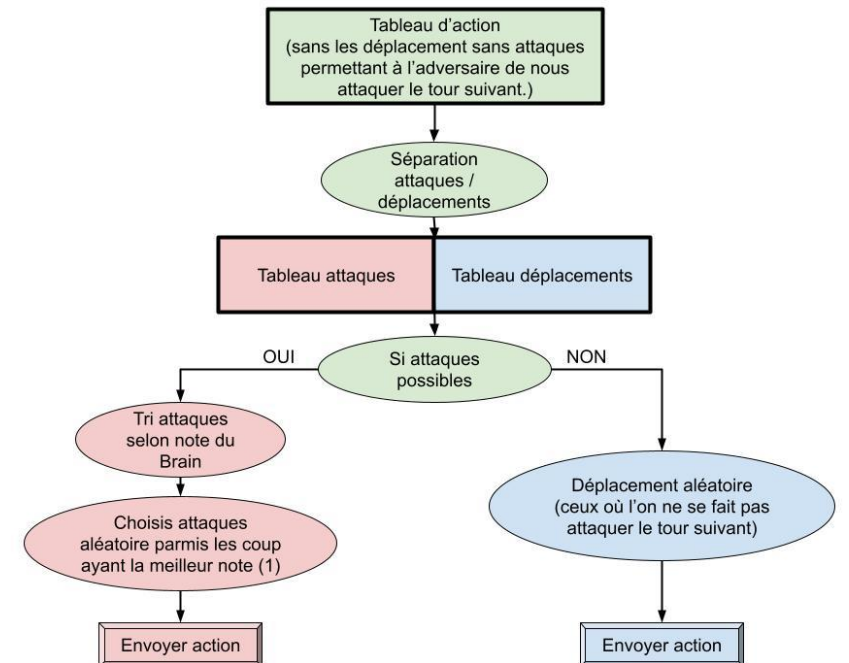
The game with many rules develop

AI Lowatem

Specifications

- Program two AI which can play against other IA for the Lowatem game. (an other project)

- The AI have to play in a limited time (2 sec)

- The two AI can't use the same strategy

Skills

- Team work
- Java developement
- Code refractoring
- Learn to use git with multiple users

Decisional tree of the Ai

Processing game

Specifications

- Develop a game to teach processing's simple concept

- The « players » have to debug the code

- The code may be easy to understand

Skills

- Procesing developpement
- Team management
- Git usage with 4 people

The game without bug running

Inversed Kinematics Challenge

Technologies

Specifications

- Learn and understand the inversed kinematics

- Make a simulation of inversed kinematics

Skills

- Processing developement
- Maths (vectors and inversed kinematics formula)
- Self-learning

InversedKinematics

The simulation running with a body who follow the red dot and the other following the mouse
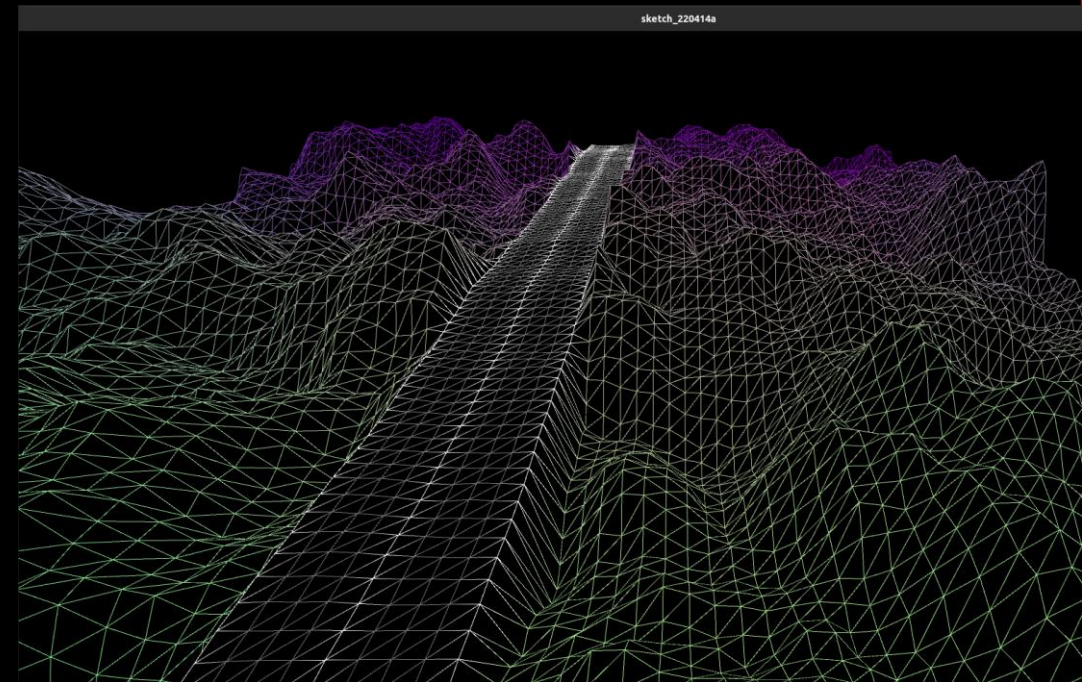
Perlin noise Challenge

Technologies

Specifications

- Learn and understand the Perlin noise function

- Apply this formula in 2 dimensions for procedural terrain generation

- Simulate a procedural terrain generation

Skills

- Processing developement
- Maths (Perlin noise usage and matrices)
- Self-learning

The simulation of the procedural terrain generation

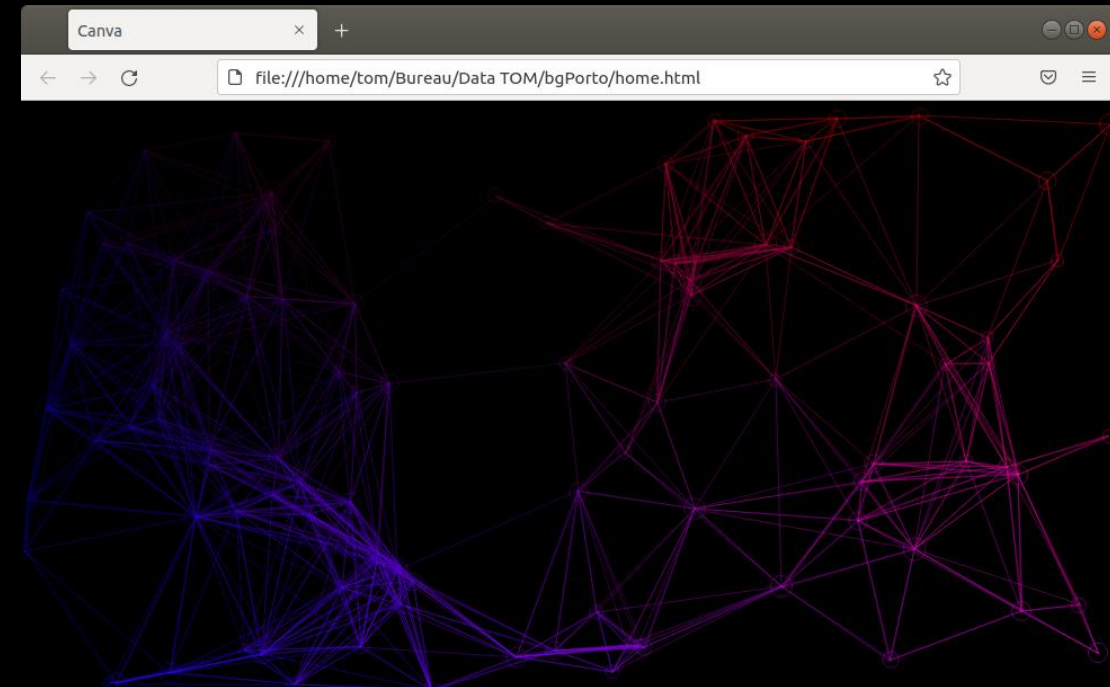# WEB projects

Animated JS canva challenge

Specifications

- Learn to adapt a processing code in Java Script

- Make an animated canva for a website background

Skills

- Processing developement
- Java Script developement and learning
- Self-learning

Canva

file:///home/tom/Bureau/Data TOM/bgPorto/home.html

The animated canva running on a website.

Portfolio

Technologies

HTML5 · CSS3 · JS · Git

Specifications

- Develop a website to present my projects

- Make RetEX for each projects

- Make a contact section

- The website have to be responsive

Curently improving it…

Skills

- Web design
- Web developement
- Flex learning
- Creativity

The website the 15/04/2022
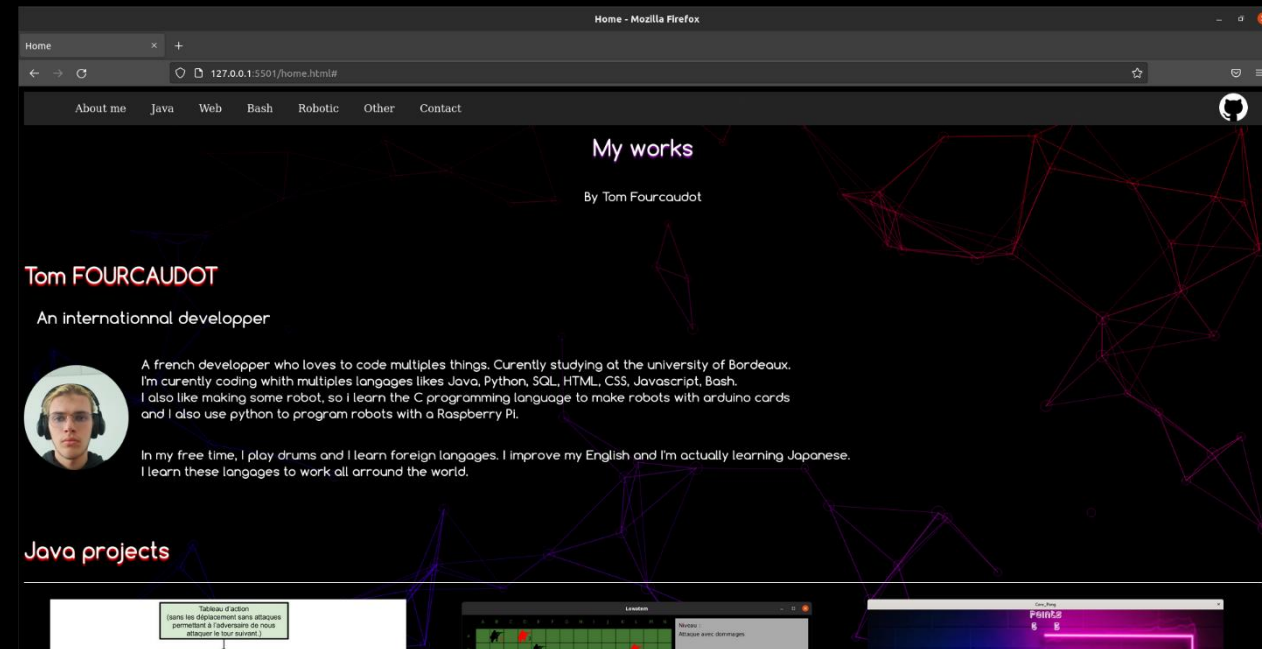
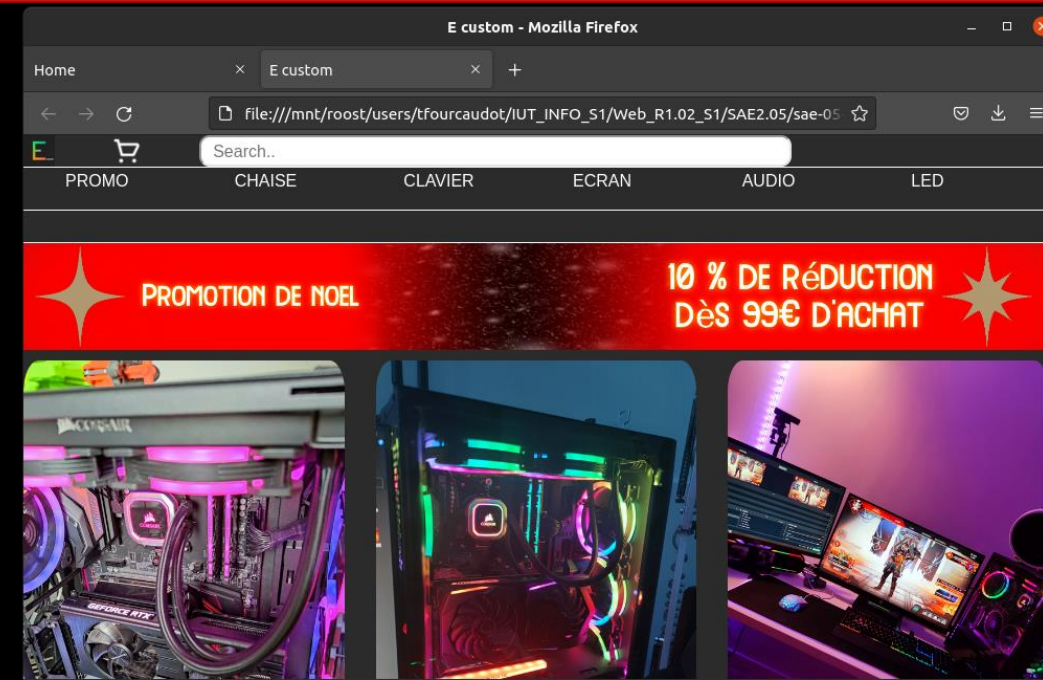# Website creation for company

Specifications

- Develop a website for a company that I created

- The website have to respect the web design's rules

- The website should be responsive

Skills

- Web design
- Web developement
- Creativity
- Boostrap learning

The website open on a computer

E custom - Mozilla Firefox

Home   E custom   +

file:///mnt/roost/users/tfourcaudot/IUT_INFO_S1/Web_R1.02_S1/SAE2.05/sae-05

Search..

PROMO   CHAISE   CLAVIER   ECRAN   AUDIO   LED

PROMOTION DE NOEL   10 % DE RéDUCTION Dès 99€ D'ACHAT

Frontend developement for web application
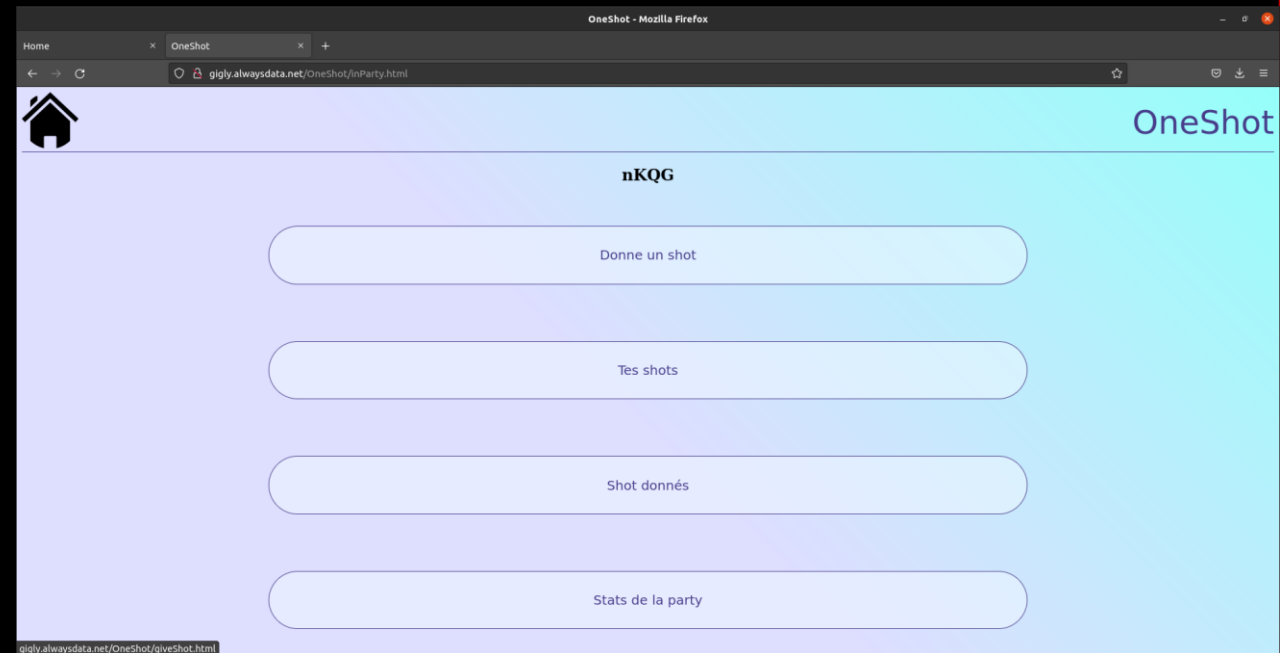
Specifications

- Develop a web interface for a backend program who send queries to a database

- Have to be responsive

- Simple to use

- Have to be done in a very limited time (2 days).

Curently improving it…

Skills

- Web design
- Web developement
- Flex positionnement

OneShot

nKQG

Donne un shot

Tes shots

Shot donnés

Stats de la party

The "in party" page, open on a computer

Linux projects

Virtual Machine Creation

Technologies

Specifications

- Install a virtual machine for developers

- Install some application to code

- Setup a nightly rust environement

- Build a custom terminal prompt, with git informations

Skills

- Team management
- Follow strict specifications
- Learn OS installation
- Learn bash langages and basics linux commands

The custom terminal, running on the virtual machine.

Animated desktop background linux
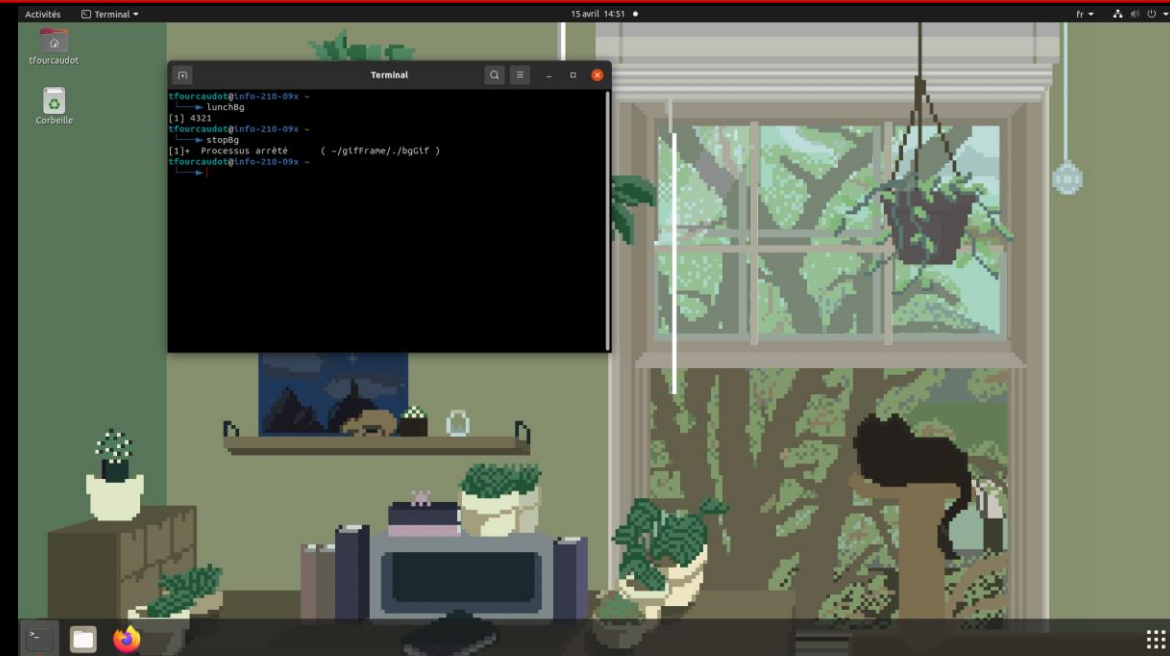
Technologies

Specifications

- Make a animated background for linux environnement

- Use gif

- With a terminal, we can stop the animation, restart the animation

Skills

- Bash script
- Alias commands

Curently improving it...

The animated background control
With the terminal

Robotics projects
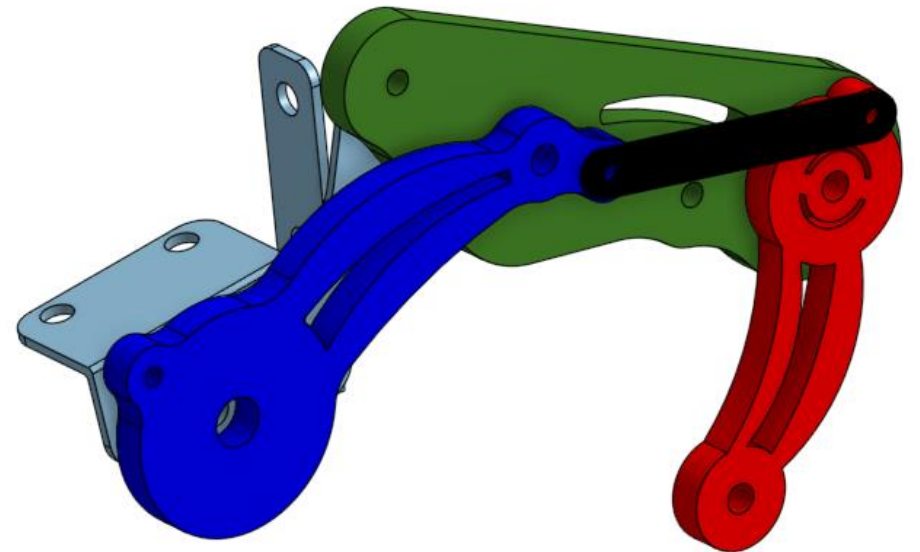
Robotique hand control by human hand

Specifications

- Make a robotic hand with servo motors

- Have to be controlled with human body (contraction signals)

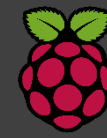- Use an arduino card to control it

Skills

- 3D model conception
- Mechanics
- Electronics
- Arduino programing
- Team management

The 3D model of a finger
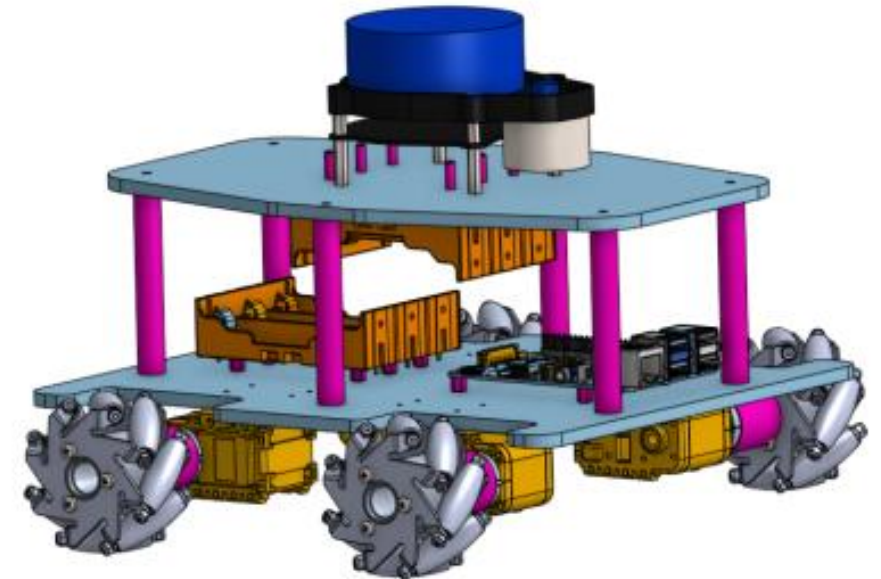
Holonomic robot

Specifications

- Build an holonomic robot from scratch

- Can exit an unknown maze by itself

- Use lidar

Skills

- 3D model conception
- Mechanics
- Electronics
- Rasberry card programing
- Python algorithms

Curently improving it…

The 3D model of the robot

Others projects

Database creation

Specifications

- Create a database from scratch

- Imagine the interface of the application who will use the database

Skills

- SQL queries
- MCD creation
- Creativity

GRAVE & CIE

Suppression d'information	Modification de donnée
Ajout d'information	Recherche par critère

Commandes

The main window of the app

Company creation

Technologies

Specifications

- Create a company who respect France's rules

- Make a PESTEL analysis

- Make a SWOT analisys

Skills

- Company rules knowledge
- Company strategy
- Team management

Logo of the company

custom