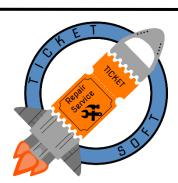
Thomas von Ascheberg's Portfolio

TicketSoft







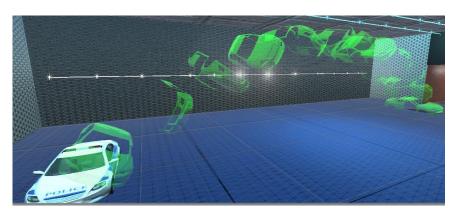


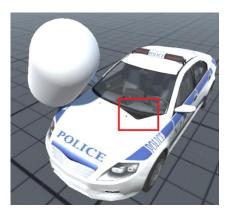
Description:

Leading a software engineering team of 6 people for the end of cursus project at Polytech Paris-Saclay. The software was a website dedicated to ticketing issues. It was a great full-stack development experience and project management!

CrashTestVR

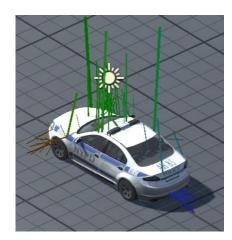
Jan. 2020 – Mar. 2020









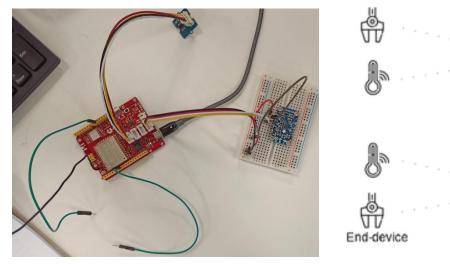


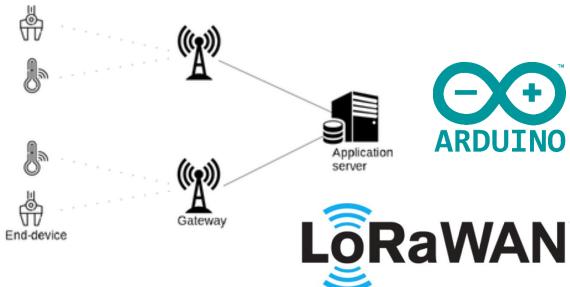
Description:

VR project developed with Robin Malmasson and Eurydice Ruggieri for the "Virtual Reality" course of Cédric Fleury. This whole project was centered around the thematic of "Data Visualization". Our objectives were to make a good use of virtual reality to simulate a crash room and to find innovative ways to visualize data in a 3D space.

Seeduino – Internet of Things

Fev. 2020 – Mar. 2020



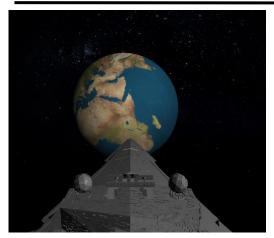


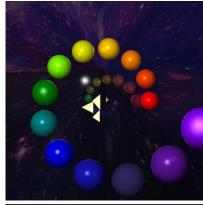
Description:

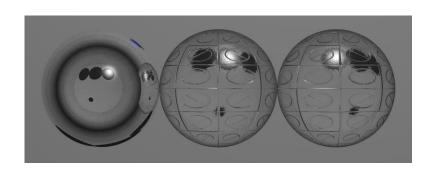
Project with Robin Malmasson for the "Internet of Things" course of Laurent Nel. Our objective was to create an end to end line from the Arduino's captors to its processing by a server. To make it realistic, we tried to minimize the traffic by using Lorawan signal and Google's Protocol Buffer to transfer minimal-sized data from the Arduino to the server.

C++ Raytracing Framework

Oct. 2019 – Jan. 2020

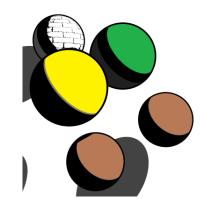












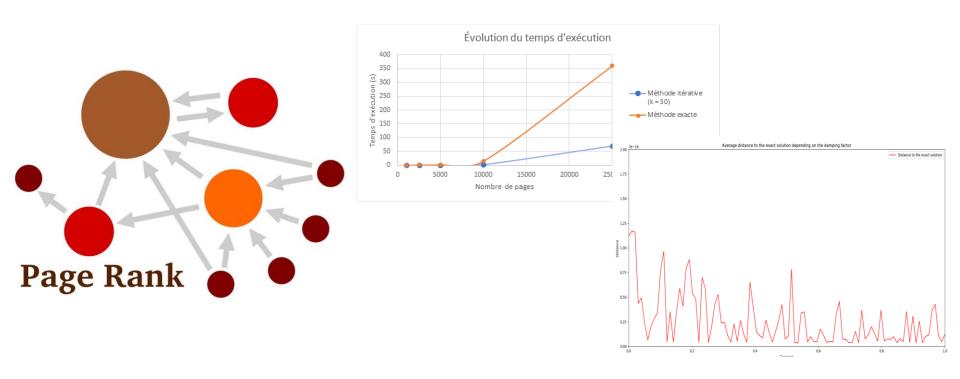


Description:

Raytracing project developed with My-Linh Ho for the "Advanced Graphics" course of Tobias Isenberg at Polytech Paris-Sud. The purpose of this project was to discover the raytracing process in graphics and its differences with the classic "shading" graphics programming.

Python PageRank

Oct. 2019 – Dec. 2020



Description:

Data Science project built with Robin Malmasson. In this project, we implemented Google's PageRank algorithm in Python in order to analyze it. The interest of this analyze was apply Data Science's methodology and to understand that every ranking algorithm has flaw and biases (that we can; find thanks to data science analysis).

Paris-Saclay's Ultimate Championship Website

Oct. 2019



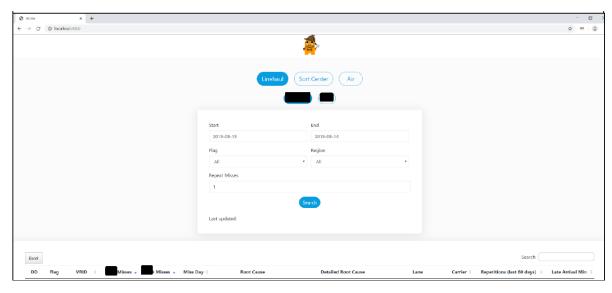
Description:

Small website I created for the Paris-Saclay's Ultimate Championship event. Paris-Saclay's Ultimate Championship was a video game competition I organized (on the videogame Super Smash Bros. Ultimate) between 8 major universities in France located on the "Plateau de Saclay".

Amazon Miss Monitoring Tool

May 2019 – Sep. 2019





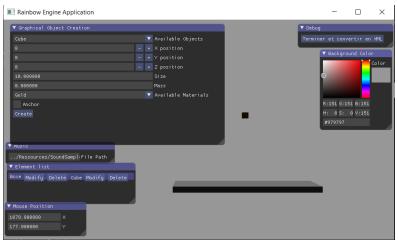
Description:

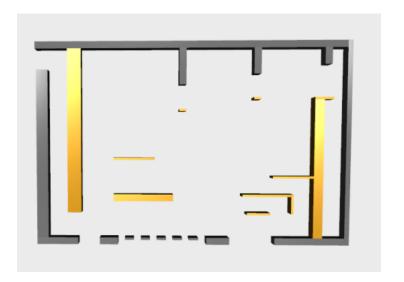
Project built during my 4-month internship at Amazon EU. This software was a monitoring platform to report transportation misses in Amazon's Logistic. This was my first full-stack experience as I was fully in charge of the project. This project also gave me a lot of experience with AWS (as I built it in AWS).

Rainbow Engine

Jan. 2019 – May 2019







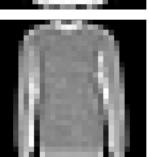
Description:

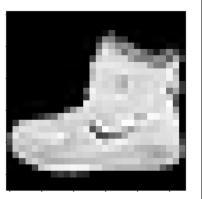
3D Engine built with Célestin Collin, Jordane Minet, Alexis Proust and Eurydice Ruggieri. This OpenGL-based engine supports all the basic features of a game engine: 3D Graphics/Rendering, Sound Management (OpenAL), Physic, Level Editor, etc. The main goal here was to test our skills (technical and management) with a complex software to develop. The main guideline was to abstract things as much as possible for the user in order to make the engine easy to use for beginners.

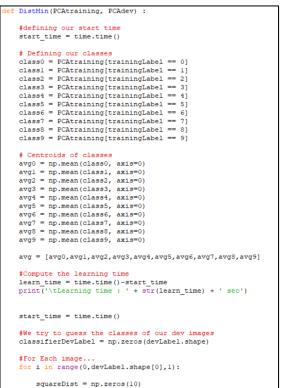
Python Image Recognizer

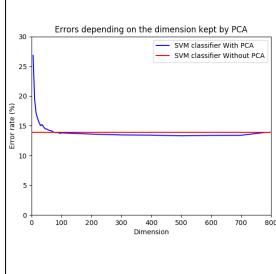
Jan. 2019 - Feb. 2019











Description:

Project developed with Eurydice Ruggieri for the "Machine Learning" course of Claude Barras at Polytech Paris-Sud. This project is a program that learns how to recognize from low resolution images different types of clothes. The aim of this project was to implement different classifiers and compare their performance.

Console++ Age of War

Dec. 2018 - Jan. 2019

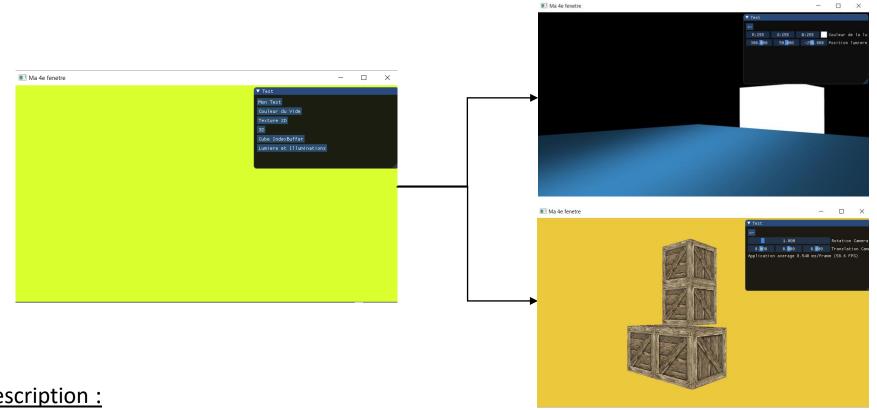


Description:

Project developed with Eurydice Ruggieri for the "Object-Oriented C++" course of Emmanuelle Frenoux at Polytech Paris-Sud. The aim of this project was to create an enhanced version of the Age of War game for the console using C++.

OpenGL Testing Framework

Sep. 2018 – Oct. 2018

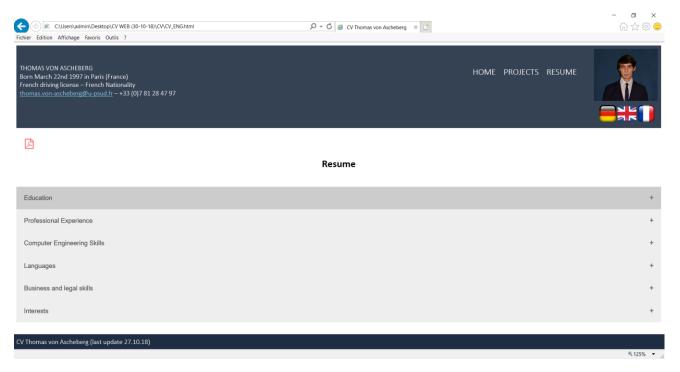


Description:

Personal project developed in C++ during fall 2018. This is an application that allows the user to create small OpenGL applications very easily. This project is a sandbox to test OpenGL code before implementing it in my 3D engine project (Rainbow Engine).

Web Resume

Jul. 2018 – Aug. 2018

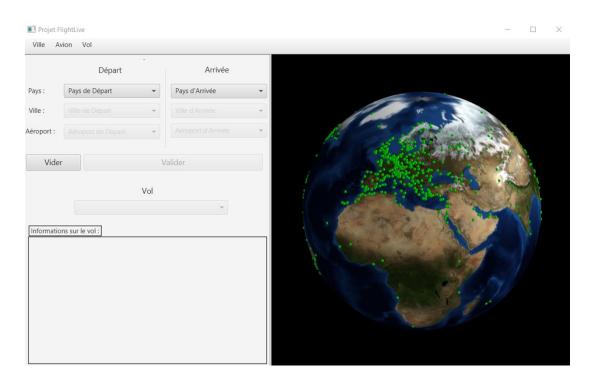


Description:

Personal project developed during summer 2018. This is an interactive Resume/Portfolio. My goal for this project was to deepen my web programming knowledges.

FlightLive

May 2018 – Jun. 2018

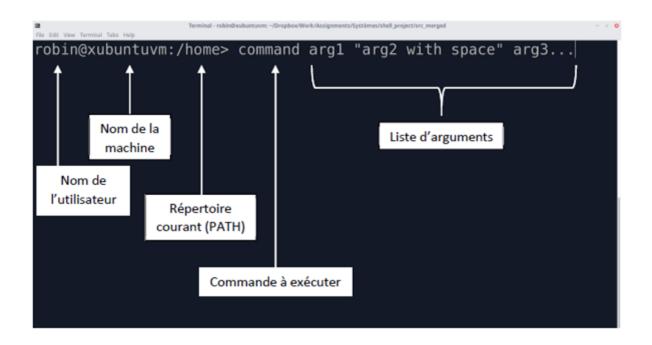


Description:

Project developed in Java/JavaFX with Alexis Proust as part of the "Human-Computer Interaction" course of Cédric Fleury at Polytech Paris-Sud. This application allows to consult in pseudo-real time the list of current flights in the world according to what the user wants.

Unix Shell

May 2018 – Jun. 2018



Description:

Project developed with Robin Malmasson as part of the "Operating Systems" course of Thomas Lavergne at Polytech Paris-Sud. The development was done in C in an Unix environment. The aim of this project was to create a fully functionnal Unix Shell with all its specificities (redirections, pipes, etc.)

Matrix ReAnimation

Dec. 2017 - Jan. 2018







Description:

Project developed with Robin Malmasson and Eurydice Ruggieri as part of the course "Introduction to Computer Graphics" of Tobias Isenberg at Polytech Paris-Sud. The development was done in C ++ under Visual Studio 15. In this project we tried to reproduce, as closely as possible, the famous Matrix bullet dodge scene in OpenGL. It was awarded in a competition organized by INRIA.

FlacTag

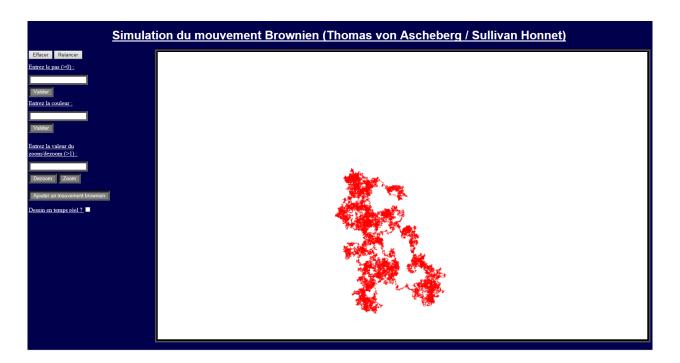
Jun. 2017 – Aug. 2017

	min : C:\Users\admin\Desktop\(1979) Am Valider				Valider		
Numéro :	Numéro 🔺	Nom	Artiste	Album	Année	Genre	Durée
Valider	1	In the Stone	Earth, Wind & Fire	I Am	1979	Pop	00:04:48
	. 2	Can't Let Go	Earth, Wind & Fire	I Am	1979	Pop	00:03:29
INOIII .	3	After the Love Has Gone	Earth, Wind & Fire	I Am	1979	Pop	00:04:26
Valider	4	Let Your Feelings Show	Earth, Wind & Fire	I Am	1979	Pop	00:05:24
Artiste :	5	Boogie Wonderland	Earth, Wind & Fire (feat. The Emotions)	I Am	1979	Pop	00:04:48
th, Wind & Fire	6	Star	Earth, Wind & Fire	l Am	1979	Рор	00:04:24
Valider	7	Wait	Earth, Wind & Fire	I Am	1979	Pop	00:03:39
Album :	8	Rock That!	Earth, Wind & Fire	I Am	1979	Pop	00:03:07
m	9	You and I	Earth, Wind & Fire	I Am	1979	Pop	00:03:31
Valider							
Année :							
79							
Valider							
Genre :							

Description:

Personal project developed during the summer of 2017. This project is a small utility for processing FLAC files. The main goal of this project was to discover the .NET framework and the Visual Basic programming language. It is inspired by the MP3Tag free software.

Brownian Motion Simulation Oct. 2016 - Nov. 2016



Description:

Project developed with Sullivan Honnet as part of the "Discovery of Web programming" course of Claude Barras at Polytech Paris-Sud. The development was done in HTML5/CSS3/Javascript. The aim of this project was to introduce ourselves to Web programming and its various components.

Console Card Game

Sep. 2016 – Oct. 2016

```
E:\Perso\Ecole\France\Polytech Paris-Sud\2e Année (PeiP2)\S3\Informatique\Projet S3 Jeu de cartes\Pr...
                                                                                       \times
Pseudo du joueur 1 : Thomas
Est-ce une IA ?(oui ou non)
Pseudo du joueur 2 : Al
Est-ce une IA ?(oui ou non)
Entrez la precision de l'IA (>0)
plus ce nombre croit moins l'IA est precise : 50
Il y a 65 cartes de jeu.
Voulez-vous encore ajouter un joueur ? (oui ou non)
C'est a Thomas de jouer !
carte proposee :
Affaire Dreyfus
                          Histoire
        Vercingetorix depose ses armes
                                                     Histoire
Entrez la date de l'evenement :
```

Description:

Project developed with Sullivan Honnet as part of the "C++ programming" course of Aurélien Max at Polytech Paris-Sud. This project is developed in C++. It is a small card game for the console. The purpose of this project was to improve our C/C++ programming experience.

Python Web Scrapping

Jun. 2016 – *Jul.* 2016

```
Indexation 1001mags V3.py - E:\Perso\programmation\Python\RobotBrowser\Indexation 100... −
File Edit Format Run Options Window Help
from robobrowser import '
from datetime import datetime
#Gestion de la date
date=datetime.now()
annee=str(date.year)
mois=str("%02d" % date.month) #(On affiche le mois toujours à 2 chiffres ex: j
jour=str("%02d" % date.day)
                               # De même pour le jour
heure=str(date.hour)+":"+str(date.minute)
date=heure+"\t"+jour+"/"+mois+"/"+annee
N=500 #nombre de fichier XML d'url dans la sitemap
D=1 #Page de départ du sitemap
On cherche à savoir si un fichier de log existe:
si il existe, c'est que ce programme a déjà été lancé aujourd'hui,
on cherche alors à savoir quelle est la dernière page terminé,
pour reprendre de là.
Si le log n'existe pas (File not found) c'est alors que l'on a lancé ce fichier
pour la lere fois aujourd"hui
try :
    file=open("log "+jour+"-"+mois+".txt","r") #On ouvre le fichier log en mode
                            #On avance ligne par ligne
       if "!" in ligne: #Si on trouve un ! c'est que l'on a fini une page
           D=D+1
                            #On recommencera alors l'indexation à la page suivan
    file.close()
                            #on ferme le fichier de log
except FileNotFoundError:
                                              #Si pas trouvé --) pas de fichier
   log=open("log_"+jour+"-"+mois+".txt", "a") #On crée un fichier log
print("Programme lancé à "+date)
log=open("log "+jour+"-"+mois+".txt","a")
log.write("Programme lancé à "+date+":\n\n")
                                                                           Ln: 1 Col: 0
```

```
*Python 3.5.1 Shell*
                                                                         File Edit Shell Debug Options Window Help
Python 3.5.1 (v3.5.1:37a07cee5969, Dec 6 2015, 01:38:48) [MSC v.1900 32 bit (In
tel)1 on win32
Type "copyright", "credits" or "license()" for more information.
 RESTART: E:\Perso\programmation\Python\RobotBrowser\Indexation 100lmags\Indexat
ion 1001mags V3.py
Programme lancé à 16:19 03/11/2018
http://fr.1001mags.com/PDF/xmlsitemap/Xmlsitemapl.xml en cours...
Warning (from warnings module):
  File "C:\Users\admin\AppData\Local\Programs\Python\Python35-32\lib\site-packag
es\bs4\__init__.py", line 166
   markup_type=markup_type))
UserWarning: No parser was explicitly specified, so I'm using the best available
 HTML parser for this system ("html.parser"). This usually isn't a problem, but
if you run this code on another system, or in a different virtual environment, i
t may use a different parser and behave differently.
To get rid of this warning, change this:
 BeautifulSoup([your markup])
to this:
 BeautifulSoup([your markup], "html.parser")
http://fr.1001mags.com
http://fr.1001mags.com/condition-generale-de-vente
http://fr.1001mags.com/contact-redaction
http://fr.1001mags.com/FAQ-foire-au-question
http://fr.1001mags.com/mention-legale
http://fr.1001mags.com/liste-tous-magazines
http://fr.1001mags.com/PDF/actualite
http://fr.1001mags.com/PDF/feminins
http://fr.1001mags.com/PDF/famille
http://fr.1001mags.com/PDF/jeunes
http://fr.1001mags.com/PDF/masculins
```

<u>Description:</u>

Project developed during my internship at 1001mags.com. Those scripts were meant to scrap the web for automatic free newspaper download and to check if any webpage of the website is down.

Console 2048 Game

May 2016 – Jun. 2016

Description:

Project developed with Sullivan Honnet as part of the "C beginner's programming" course of Frederic Voisin at Polytech Paris-Sud. This project is developed in C. It is a reproduction of the 2048 mobile game but for the console. The main goal of this project was to improve our C programming experience.

Console Chess

Oct. 2015 - Nov. 2015

Description:

Personal project developed in C++. This project is a small chess game for the console. My aim for this project was to start learning the C++ programming language.

Python Drawing Board

Jun. 2015 – Aug. 2015

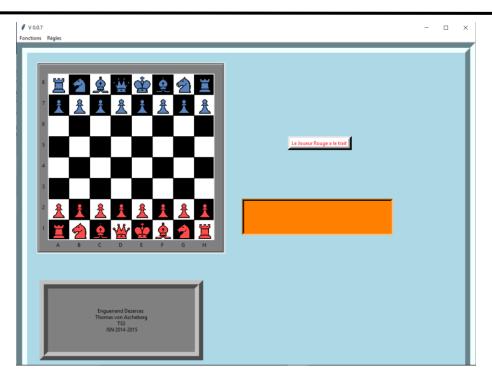


Description:

Personal project developed during the summer of 2015. This project is a small drawing software. The main goal of this project was to test my python skills at the moment and to improve my programming knowledges.

Python Chess

Dec. 2014 – Jun. 2015



Description:

Project developed in High School with Enguerrand Dezerces as part of the "Computer and Digital Sciences" (ISN in French) Baccalaureate exam. This project was my first programming experience. The goal of this project was to program a classic chess game (with all the official rules).