Coding2 Labwork Readme

GitHub Link: https://github.com/yrrrng/Coding-two weekly Shaohua-Yang.git

In this Lab work submission, I have project written by openframework and 2 project using Python.

Labwork1 Openframework - JavaScript project to OF

I have made two open source projects one on sound conversion and the other on mouse control of video screen colours and visual changes.

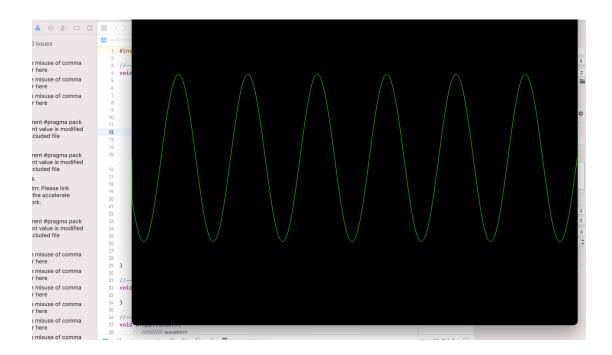
The voice example

Youtube video Link:

https://youtu.be/Zp02R2Ypg8A

Panopto Video Link:

https://ual.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=7f6ad133-fc5b-477f-9cbb-afc60008e0f0



The video example

Youtube video Link:

https://youtu.be/sAH-LS2OgIY

Panopto Video Link:

https://ual.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=6f3d5d43-f16c-4731-986c-a fc6000935cc



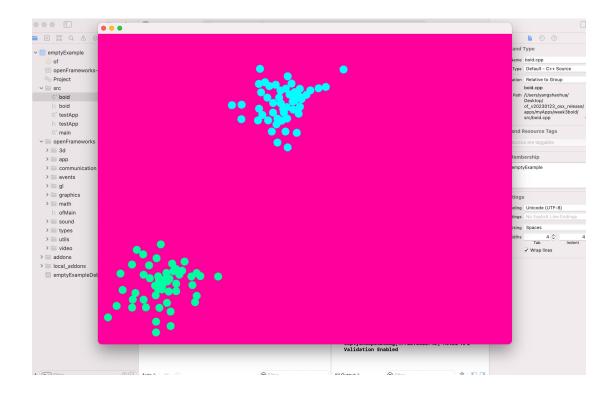
Labwork2 Openframework - boid

Youtube video Link:

https://www.youtube.com/watch?v=YcPuYfsLIKY

Panopto Video Link:

https://ual.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=9213436c-e642-4687-b616-afc5017aaf2d



Labwork3 Python challenge (python puzzles)

This week I made a quiz game about maths where I called python's random module to generate simple arithmetic questions and asked the user to answer the questions in a set amount of time. If the answer is correct, the user is awarded a point, otherwise a hint is given. During the game, the difficulty level increases over time and the player can choose the difficulty level (easy, medium or hard). At the end of the game, the score will be displayed.

Youtube video link:

https://youtu.be/wopmLD5jTPM

Panopto video link:

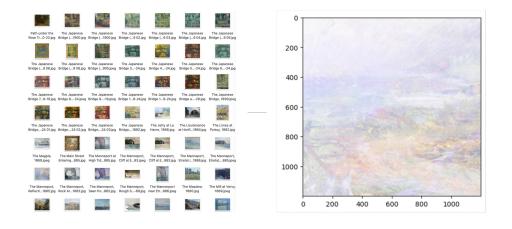
https://ual.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=17c49dfb-f571-403a-b9a9-a fc600163354

```
cnoice = input("Enter your cnoice (1, 2, or 3): ")
       if choice.isdigit() and int(choice) in [1, 2, 3]:
           if choice == '1':
                return 1
           elif choice == '2':
                return 2
           elif choice == '3':
                return 3
            print("Invalid choice. Please enter 1, 2, or 3.")
play_game_with_timer(10, 10)
Welcome to the math quiz game!
Please select a difficulty level:
1. Easy
2. Medium
Hard
Enter your choice (1, 2, or 3):
```

Labwork4 Python Image dataset exercise (python average pics)

For this python image exercise, I downloaded 100 works by Monet as well as the Chinese painter Guanzhong Wu and imported them into a local library, and then averaged them using the NumPy function. I tried the same function on a different number of source images and added the median to the original operation, which produced different results, and here are two of my creations.

Monet works



Works by Chinese painter Wu Guanzhong

