警告節奏遊戲 實工四手 資工四黃冠 資工四黃冠 資工四五

Outline

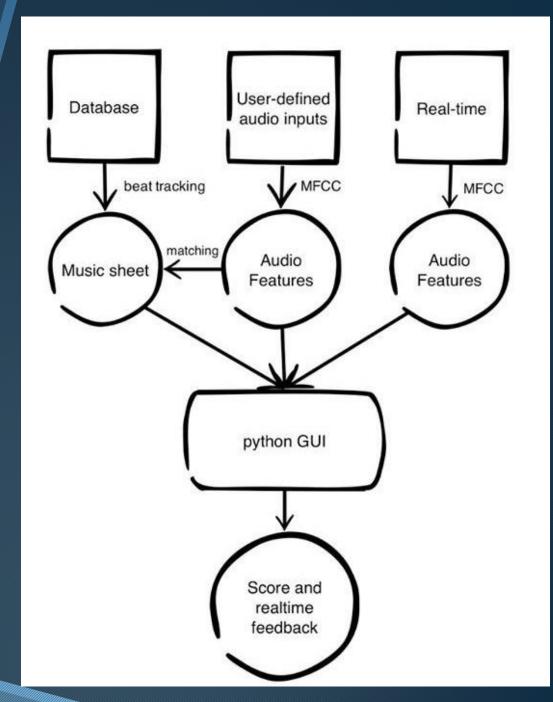
- Introduction
- System
- Technique
- 44 Problem
- Future Work
- Demo

Introduction

- 音樂節奏遊戲
- 自訂敲擊聲音
- 身歷其境的使用者經驗



System



Technique

- Audio Recognition
- Beat Tracking
- Audio Matching
- Handle Input Stream

Technique Audio Recognition

- Recording
- End Point Detection
- MFCC Feature Extraction

Technique Beat Tracking

- For preparing database
- Use Library from professor Roger

Technique Audio Matching

For preparing database

MFCC Feature Distance

Technique Handle Input Stream

Get input stream around beat

Problem

- 邊放歌邊玩會影響判斷
- 無法偵測同時敲擊
- 遊戲畫面更新速度與聲音會有差異
- 聲音準確度

Future Work

- Battle System
- Higher accuracy
- Detect different sounds at same time
- Noisy removed