

DANCE GROOVE

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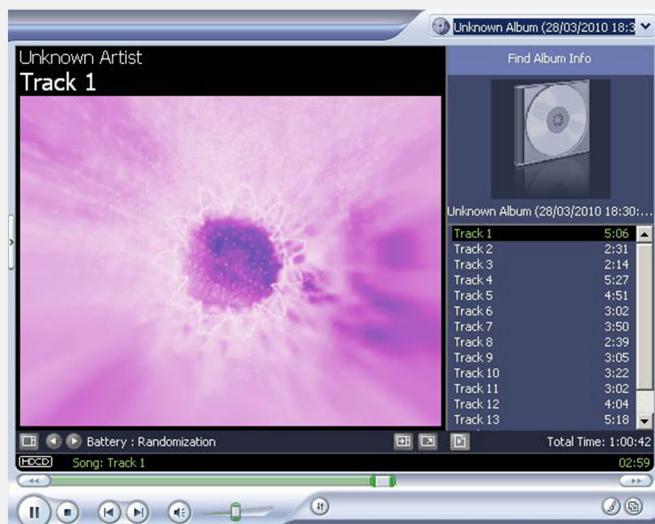
Project Description

“DANCE GROOVE” IS AN APPLICATION DESIGNED TO CHANGE YOUR MOOD. THERE ARE A FEW SONGS FOR YOU TO CHOOSE FROM OR SIMPLY YOU CAN CHOOSE A BUTTON TO TRY TO SING YOURSELF! START DANCING OR RELAXING WITH THE GROOVE OF DANCING SHAPES ON THE SCREEN THAT ARE MOVING AROUND AT THE SAME PACE AS THE RYTHM OF THE MUSIC. ALL YOU NEED TO DO IS TO SELECT A BUTTON AND START DANCING. ENJOY YOUR TIME AND FEEL THE RYTHM AND THE MUSIC.

Project Rationale

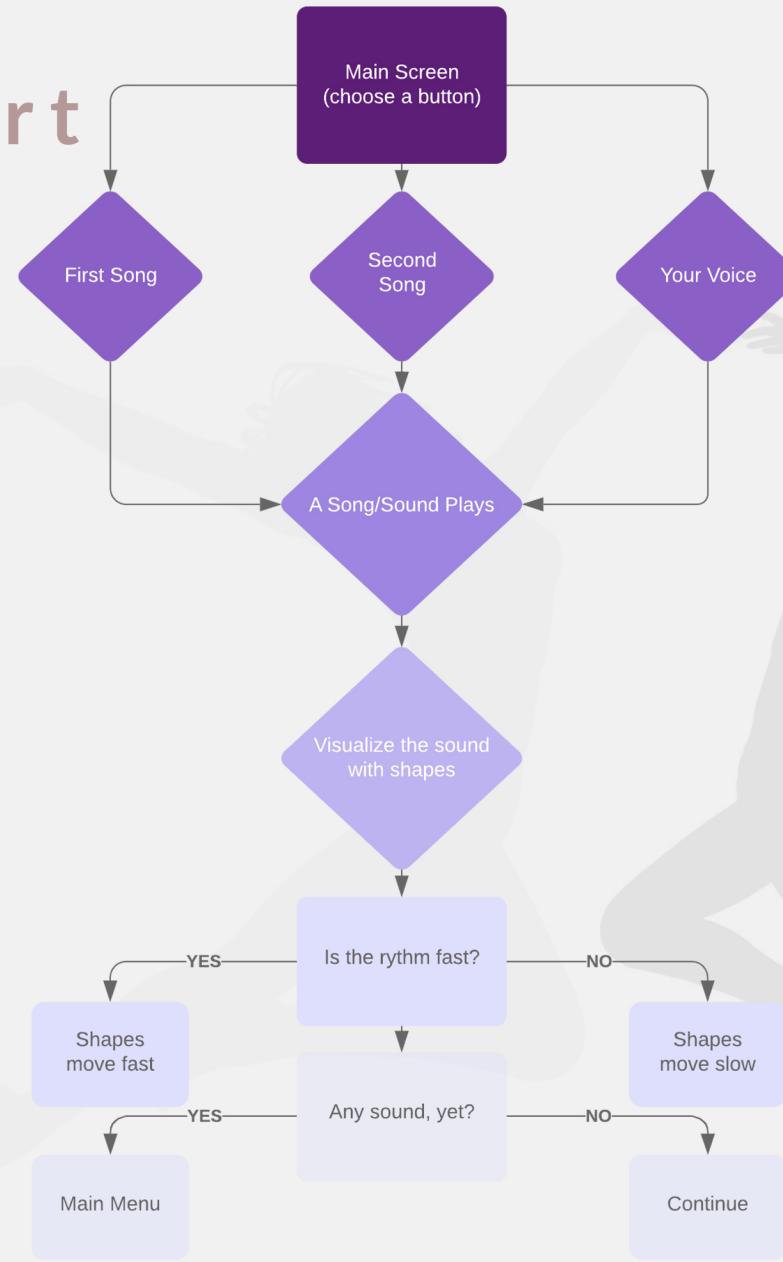
THIS APPLICATION IS DESIGNED BASED ON PROCESSING CODES TO ANALYZE SOUND AND CONVERT IT TO MOTION WHICH IS CALLED AN “AUDIO-VISUALIZER”. THE CODE STRUCTURE CONTAIN CLASSES AND ARRAYS AND ALSO MINIM LIBRARY IS IMPORTED IN THIS CODE FOR THE PURPOSE OF ANALYSING THE SOUND. THERE ARE THREE BUTTONS ON THE SCREEN, TWO OF WHICH HAVE A DIFFERENT SONG THAT START PLAYING BY A MOUSE CLICK AND THE THIRD ONE CAN RECOGNIZE ANY SOUND. WHILE THE SONG IS PLAYING, SOME SHAPES START TO MOVE ON A SAME PACE AS THE RYTHM OF THE MUSIC.

Research



WHEN A SONG IS PLAYING, IT IS THE BEST IF IT COMES WITH A VIDEO OR AN AUDIO-VISUALIZER FOR MORE EXPRESSION. MANY YEARS AGO THERE WAS A MEDIA PLAYER APP ON WINDOWS THAT ALWAYS VISUALIZED THE MUSIC THAT WE PLAYED ON THE COMPUTER. ALSO, WE ALL HAVE SEEN SCREENS IN CONCERTS WITH SOME DANCING SHAPES OR MOVING ART ON IT.

Flowchart



Pseudocode

CLASSES:

- .BUTTONS
- .PARTICLES
- MINIM LIBRARY
- FFT

FUNCTIONS:

- .PLAYING A SONG
- .ANALYZING SONGS
- .REPEATING SONGS
- .SPEED AND MOVEMENT

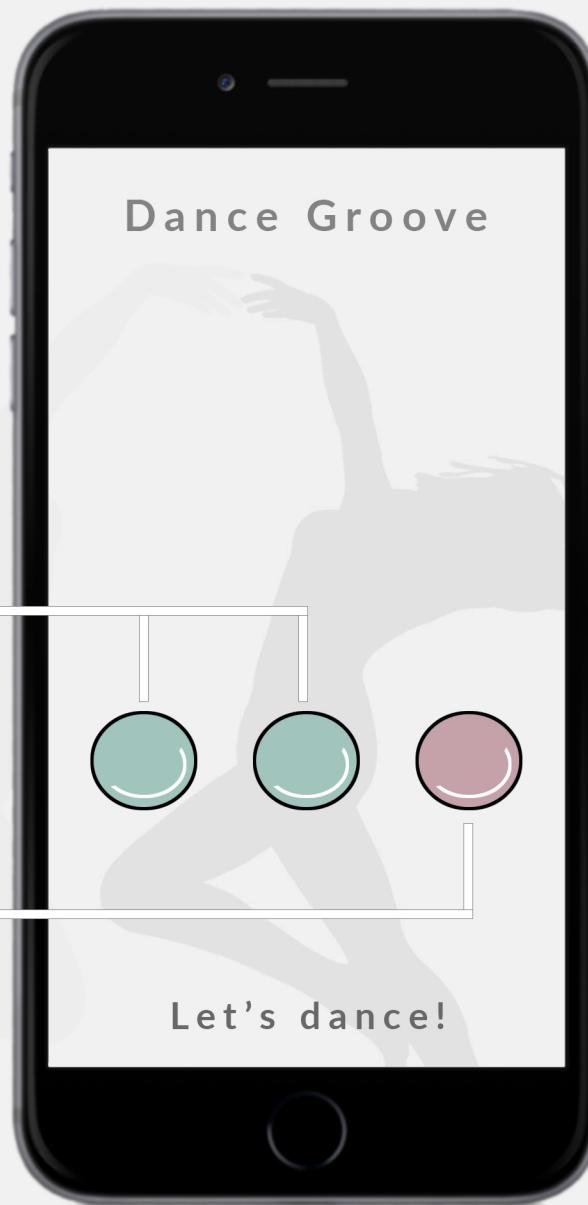
DATA:

- .SONGS
- .BUTTONS IMAGE
- .BUTTONS LOCATION
- .SHAPES NUMBER
- .SHAPES COLOR
- MOUSE CLICK

Storyboard

MUSIC VISUALIZER

VOICE VISUALIZER



Storyboard

MOVING PARTICLES
(VISUALIZE THE SOUND)



Visuals

