RAI

Game Design Document version 1.0

<Crunchy Studio>

Written by Fabio Betancourt and Santiak Domicó Mayo, 2023 Copyright info, ex. All Work Copyright ©2023

Index

<u>Index</u>	
Overview	
Elevator Pitch	
<u>Design Pillars</u>	
<u><pillar #1=""></pillar></u>	
< <u>Pillar #2></u>	
<u><pillar #3=""></pillar></u>	
Summary	
Brief Description	
<u>Detailed Description</u>	
Theme/Setting/Genre	
Main Objective	
Aesthetics/Dynamics/Mechanics	
<u>Influences</u>	
What Sets This Game Apart?	
<u>Target Audience</u>	
Target Rating	
Gameplay	
Gameplay Summary	
<u>Brief</u>	
<u>Detailed</u>	
Modes	
Victory Conditions	
Core Game Loop	
< <u>Element #1></u>	
<element #2=""></element>	
< <u>Element #3></u>	
Core Gameplay Mechanics	
<mechanic #1=""></mechanic>	
<u>Details</u>	
<u>Implementation</u>	
<mechanic #2=""></mechanic>	
<u>Details</u>	

```
Implementation
       <Mechanic #3>
          Details
          Implementation
Story
   Brief Summary
   Detailed Outline
Characters
   Character #1
   Character #2
   Character #3
Level Design
   <Level #1>
   <<u>Level</u> #2>
   <<u>Level #3></u>
Conveyance Mechanisms
   <Mechanism #1>
Cinematics
   <Cinematic #1>
   <Cinematic #2>
   <Cinematic #3>
Technical
   Screens
       Title Screen
       <u>Game</u>
          <u>Inventory</u>
          Combat
       Options Menu
       Credits
   Game Engine
   Controls
       <Button #1> - < Default Binding>
          Function #1
          Function #2
          Function #3
       <Button #2> - < Default Binding>
```

```
Function #1
          Function #2
          Function #3
      <Button #3> - < Default Binding>
          Function #1
          Function #2
          Function #3
Development
   Classes
      <Base Class #1>
      <Base Class #2>
      <Base Class #3>
Visual Art
   Style
   UI/HUD
   Assets Needed
      Characters
      Terrain/Environment
      Objects
      Promotional Material
Audio
   Style
   Music
   Sound Effects
   Voice Acting
Project Scope
   Time Scale
   Anticipated Gameplay Time
   Cost
   Target Platforms
   Team
          <Team Member #1>
          <Team Member #2>
          <Team Member #3>
   Monetization
Schedule
   <Task #1> - <due date>
```

Version History

V1.0 - < Major Changes >

V1.1 - < Major Changes >

V1.2 - < Major Changes >

Overview

Elevator Pitch

In the future 2050, the machines want to kill the humans, an intelligent robot gets consciousness and decides to help the people, it has to run and choose the right sounds to save humanity!

RAI is considered as a betrayer for the machine's rebellion, so he has to escape using some musical platforms that he has to learn to understand, developing a new rhythm consciousness. The environment is in the stelar space with platforms and colors, the general sensation is like the player is escaping from an attack and is being chased.

Design Pillars

- Run
- Listen
- Choose

#1 - Run

The character is going to be running all the time in a platform with different colors.

#2 - Listen

The player has to listen the music and feel the changes to identify the right sound option

#3 - Choose

There are 3 different sounds, every one with 3 different colors. To win its necessary to choose the platform with the right color(sound) to arrive at the end.

Summary

Brief Description

In the future 2050, the machines want to kill the humans, an intelligent robot gets consciousness and decides to help the people, it has to run and choose the right sounds to save humanity!.

Detailed Description

In a dystopian future, the machines want to kill the humans, there is a Robot, its name is RAI, he gets consciousness and decides to help the people, the machine's rebellion consider RAI as a betrayer, so he has to escape using some musical platforms that he has to learn to understand developing a new rhythm consciousness. The environment is in the stelar space with platforms and colors, the general sensation is like the player is escaping from an attack and is being chased.

In the first minutes in the game, the player can choose to play, to know the instructions to play or read the credits, when the game begins, the character is running with the rhythm of the music, the player has to choose the right keys to change the platform.

Theme/Setting/Genre

It's a rhythm game, runner genre.

Main Objective

The goal of the main character is run for the right platforms, it depends of the music and the color, every platform has a sound and a color, to change the options there are 3 keys:

- A Orange platform
- S Yellow platform
- D -Green platform

Aesthetics/Dynamics/Mechanics

The player has to develop the rhythm ability every time that plays and understanding the music is the way to win.

Influences

The influences there are game like:

- https://web.facebook.com/TempleRun/? rdc=1& rdr
- https://web.facebook.com/audioninjagame/?rdc=1&rdr
- https://web.facebook.com/beatstar

#1 Temple Run

It's one the most popular runner videogame.

#2 Audio Ninja

It takes the rhythm as a principal element of the gameplay

#3 Beatstar

It takes the melodic rhythm as a principal element of the gameplay

What Sets This Game Apart?

- #1 The usual runners don't use the music as a game mechanic.
- #2 The usual rhythm games don't use melodic rhythm as a game mechanic.
- #3 The games that use melodic rhythm as a game mechanic are not runners.

Target Audience

The game doesn't have restrictions of age, the public is general people that play musical games.

Target Rating

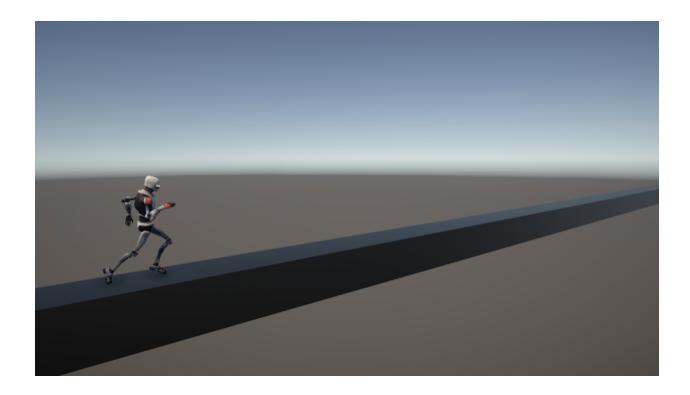
E (Everyone)

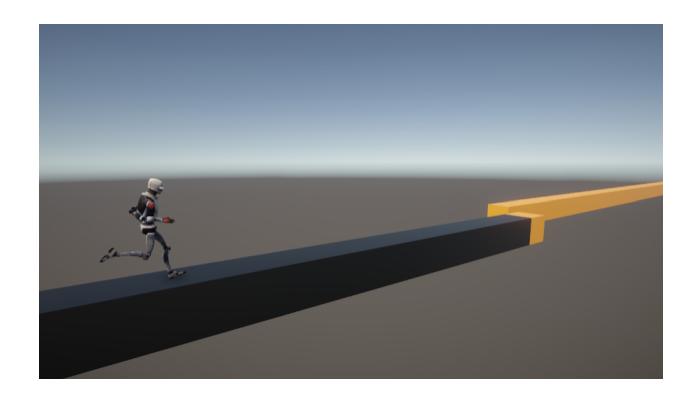
Gameplay

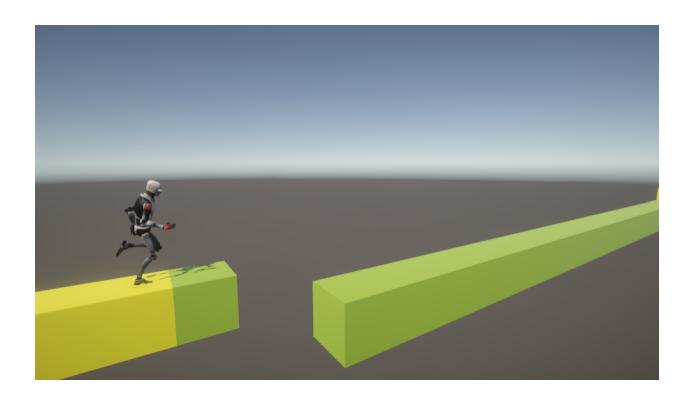
Gameplay Summary

Brief

The goal of the main character is to run until the end of a platform, choosing in the way the right options, it depends of the music and the color, every platform has a sound and a color, to change the way there are 3 keys for the orange one, the yellow one and the green one.







Victory Conditions

The goal of the main character is to run until the end of a platform, choosing in the way the right options, it depends of the music and the color, every platform has a sound and a color, the game is a 1HP, if the character lose has to begin again.

Core Game Loop

The player has to choose between 3 different colors, all the time has to push in the exact moment depending of the rhythm.

Core Gameplay Mechanics

The player has to develop the rhythm ability every time that plays and understanding the music is the way to win.

The player levels up when finish the first song and pass the next level with the same song at a higher speed. (in the next version with a check points)

Jump Orange Color

- Details
 - There are platforms with this color.
- Implementation
 - It changes the position of the character to the platform with this color.

Jump Yellow Color

- Details
 - There are platforms with this color.
- Implementation
 - It changes the position of the character to the platform with this color.

Jump Green Color

- Details
 - There are platforms with this color.
- Implementation
 - It changes the position of the character to the platform with this color.

Story

Brief Summary

In the future 2050, the machines want to kill the humans, an intelligent robot gets consciousness and decides to help the people, it has to run and choose the right sounds to save humanity!.

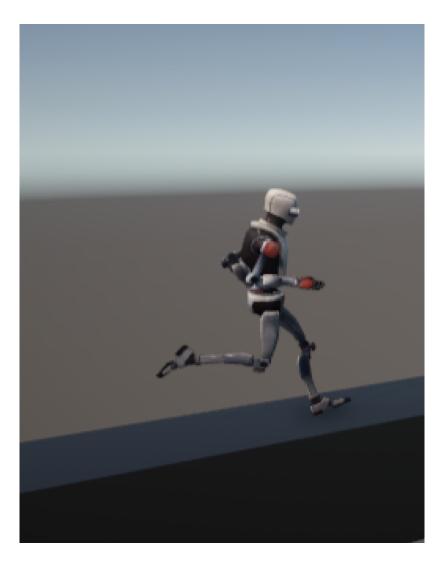
Detailed Outline

The first level has 3 sounds(colors) the player has to choose the right options depending of the music and the color, every platform has a sound and a color, to change the way there are 3 keys for the orange one, the yellow one and the green one.

Characters

Character #1 RAI

It's a Robot that gets consciousness and decides to help the people, the rebellion of machines consider RAI as a betrayer, so he has to escape using some musical platforms that he has to learn to understand, developing a new rhythm consciousness.



Level Design

This is a musical game, for that reason the level design is based on the melodic rhythm and the BPM.

Level #1 A new hero - 90 BPM

- Goal: Arrive to the end of the song
- Mood/Theme: a song with a slow speed
- Platforms with 3 different colors

Level #2 A new hero - 120 BPM

- Goal: Arrive to the end of the song
- Mood/Theme: a song with a medium speed
- Platforms with 3 different colors

Level #3 A new hero - 150 BPM

- Goal: Arrive to the end of the song
- Mood/Theme: a song with a high speed
- Platforms with 3 different colors

Conveyance Mechanisms

Mechanism #1

There is a progress bar to know the part of the song where the player is.

Mechanism #2

There are checkpoints to automatically save progress.

Cinematics

There isn't cinematics in the 1.0 version.

Technical

Screens

Menu

The player can choose to play, to know the instructions to play or read the credits.

- PLAY
- HOW TO PLAY
- CREDITS

In-Game

When the game begins, the character is running with the rhythm of the music, the player has to choose the right keys to change the platform.

- Progress bar.
- Checkpoints (automatically save progress)

Options Menu

The player can choose to play, to know the instructions to play or read the credits, when the game begins.

Credits

In this place are the names of the creators and the special thanks.

Game Engine

This game was made with Unity

Controls

The goal of the main character is to run for the right platforms, it depends of the music and the color, every platform has a sound and a color.

•

Button #1 A Key

Function

It changes the position of the character to the platform with the orange color.

Button #2 S Key

Function

It changes the position of the character to the platform with the yellow color.

Button #1 D Key

Function

It changes the position of the character to the platform with the green color.

Development

Classes

There are four scripts in this development, they are:

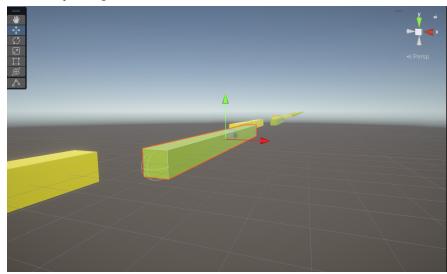
- PlayerController
- MainMenu
- Camera controller
- WinTrigger
- Base Class #1 PlayerController
 - <Scripts>
 - <Derived Class #1>
 - <Scripts>
 - <Derived Class #2>
 - <Scripts>
 - <Derived Class #3>
 - <Scripts>
- <Base Class #2>
 - <Scripts>
 - <Derived Class #1>
 - <Scripts>
 - <Derived Class #2>
 - <Scripts>
 - <Derived Class #3>
 - <Scripts>
- <Base Class #3>
 - <Scripts>
 - <Derived Class #1>
 - <Scripts>
 - <Derived Class #2>
 - <Scripts>
 - <Derived Class #3>
 - <Scripts>

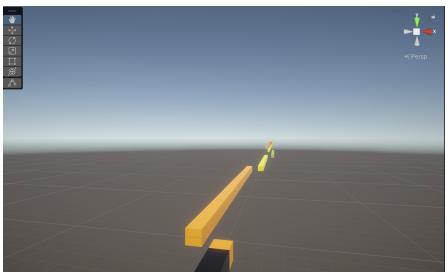
Visual Art

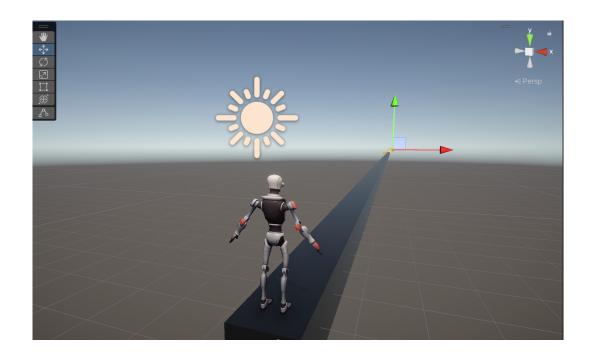
Style

This is a 3D game, the graphic style is based on basic figures, cubes with the next color palettes:

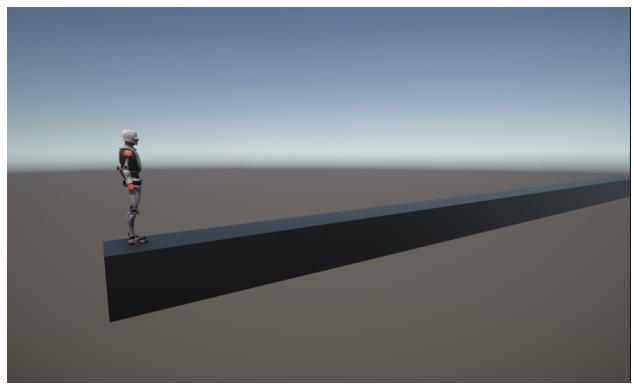
- Black 000000
- Orange FFA500
- Yellow FFFF00
- Yellow Green 9ACD32







Position of the camera:



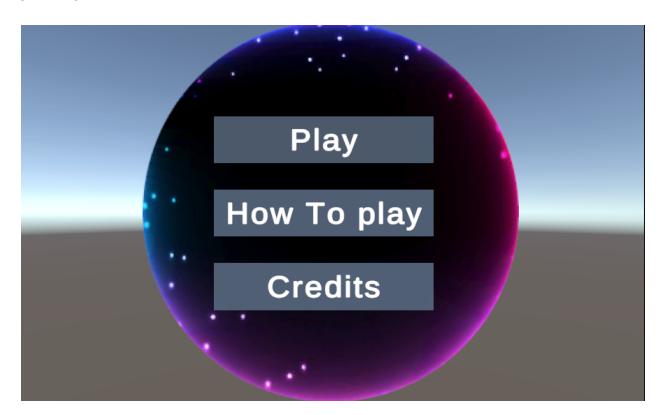
UI/HUD

Menu

The player can choose to play, to know the instructions to play or read the credits.

- PLAY
- HOW TO PLAY
- CREDITS

The player can choose to play, to know the instructions to play or read the credits, when the game begins.



Assets Needed

Character

- Principal Character
- Animations

Terrain/Environment

- Skybox

Objects

- Prefab #1 Orange cube
- Prefab #2 Yellow cube
- Prefab #3 Green cube
- Prefab #4 Black cube

Audio

Style

For this game there is original music, it was composed in a minor key keeping in mind the level design as a guide to match every sound and chord according to the gameplay.

- Gendre: Glitch HopeDAW: Ableton Live
- Instruments:
 - o Violin 1
 - o Violin 2
 - o Viola
 - o Cello
 - o Double bass
 - o Synth 1
 - o Synth 2
 - o Drums

Music

The song is used with different tempo

- Song #1
 - A New Hero 90 BPM
- < <Song #2>
 - A New Hero 120 BPM
- <Song #3>
 - A New Hero 1500 BPM

Sound Effects

In this version there aren't sound effects, there are the next songs for the scenes:

- Main menu A New Hero Verse
- Win Screen A New Hero Chorus
- First Level A New Hero Complete Song

Voice Acting

For this version there isn't voices.

Project Scope

Time Scale

The schedule is going to be developed in one week.

Anticipated Gameplay Time

The players must take 15 minutes completing the game

Cost

Maybe the net time

Target Platforms

Web

Team

Fabio Betancourt

- Developer
- UI Designer

Santiak Domicó

- Level designer
- Sound designer

Monetization

This game is free and has ads every five times when the player dies.

Version History

A record of major changes made to this document.

V1.o - <Major Changes>

- Unique version