Project Title: An Aesthetic 2d Plat-Former based game with an Astute Al and its Quality Evaluation

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- 3.Preet Gandhi





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float jumpSpeed

GAME DEVELOPMENT

Literature Review

			Construction CLI	M8 BOOL =
#	IEEE Paper	Orientation	Author Jun	ldea that we took
1	Measuring Quality of Indie Game developed using Unity Framework (Base paper)	Game coding	Mateo Bosnjak & Tihomir Orehovacki	Basic player movement & Quality Evaluation
2	Researching on Al Path- finding Algorithm in the Game Development	Game coding	Yanyan Cao er s Animator animato	Implementati on of A* Path find
3	Character Design as Bridging Tools of Ideological Message in Game	Game design	Tubagus Zufri, Dodi Hilman, Wahyudi Pratama	Designing of any game object
Ч	Drawing Equipments with Adobe Illustrator	Game design	Daniel Tofan Intal ClimbLadders Processjump(SaveTheWorld	Using different tools to make animation sprites



GAME DEVELOPMENT jumpSpeed

Game Design

- How the game looks like
- What the game will include
- What is the game all about
- Scope
- ☐ Technology Stack
- ☐ Benefits to environment
- ☐ Theme
- ☐ Applications
- □ Future Scope
- Preparing a questionnaire for quality evaluation
- Animations via Adobe Photoshop/Illustrator

Game Coding

A LADDER TAG

- How the game will work
- The logic of the game
- Bug Fixes Vector3()
- C# sharp Scripts priteRenderer
- ☐ Game Assets
- Giving a meaning to animation
- Coding via Unity Game Engine
- Inbuilt Unity Physics Engine









float jumps

- A 2D Plat former Game
- Player on an odyssey
- Number of puzzles
- Number of levels with an increasing complexity
- Enemies and pitfalls
- Score system
- Health and die system
- Path finding mechanism











Scope

- Basic Player & Enemy Movement
- Implementation of A* path finding algorithm of Al
- Score, Health, Die system
- Various Puzzles and Level advancement logic
- Making original animation, sounds and music
- Designing a Brief Questionnaire for feedback and continuous improvements



float runSpeed :

Float climbSpeed

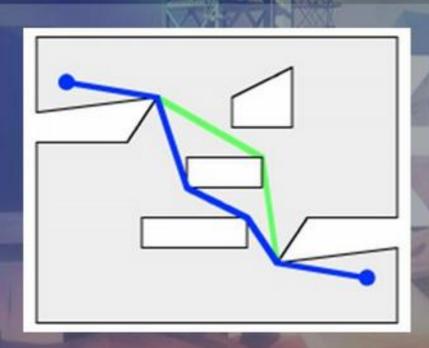


A* Path Finding Al algorithm

const string CLIMB_BOOL =

float runSpeed :

Float climbSpeed





climbLadders();
ProcessJump();
SaveTheWorld();

float runSpeed :

Float climbSpeed

Score, Health, Die & Traps, Puzzles



Making Pixel Art Animations via Adobe Photoshop



Scripts

PlayerMovement.cs

EnemyMovement.cs

Projectile.cs

DamageDealer.cs

AIPath.cs

Spawner.cs

Score.cs

Health.cs

Level.cs

Analytics.cs

Sfx.cs

BackgroundScroller.cs

Objects

Player Enemy Projectile Pitfall SceneLoader AudioManager ParticleSystem

Canvas

Climbia GameCamera

Process Jun Background

SaveTheWorld()

Float climbSpeed

Technology Stack

Unity Game Engine 18/19

Adobe Photoshop/ Illustrator

C# Programming Language



string CLIMB BOOL =

float runSpeed :

float climbSpeed





Benefits to Society & Environment

- Stress Buster
- Logical thinking
- Boosting thinking process
- Puzzle solving capabilities
- Sense of accomplishment
- Hand-eye co-ordination
- Helps socializing

Simulation of a Quagmire

string CLIMB BOOL =

- Making way through dangerous situations
- Enhances split-second decision making
- Boosts auditory perception









Float climbSpeed



Applications

const string CLIMB_BOOL =

float runSpeed :

Ploat climbSpeed

Learning AID in software engineering

Entertainment

SpriteRenderer spriteRenderer; Animator animator:

Vector3 screenPos = new Vector3(

To create Music

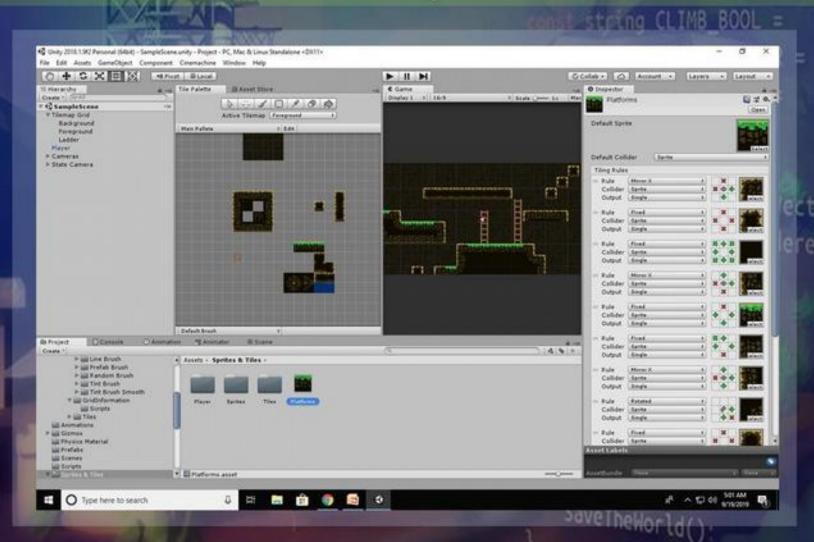
IncrediBox or MusicLab, etc

Recording original sounds over the mic

ProcessJump(); SaveTheWorld()

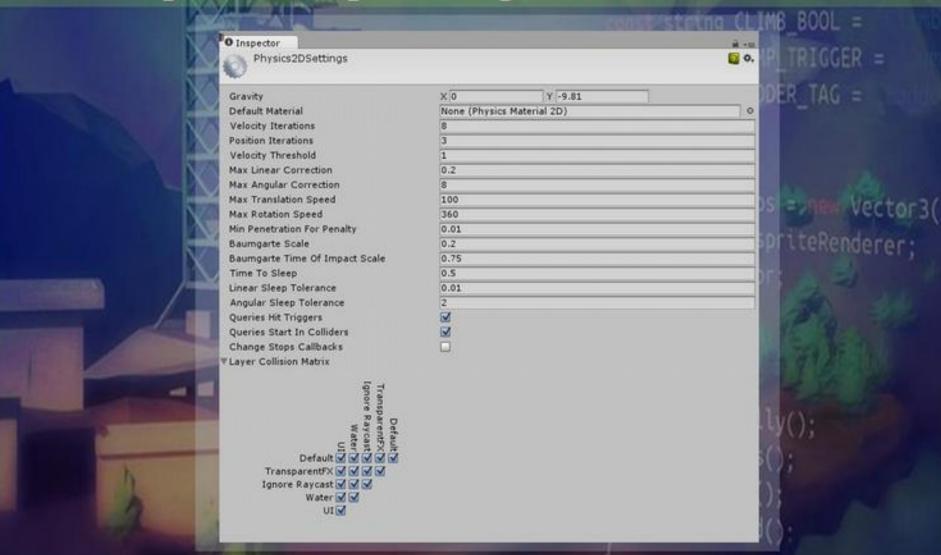
float runSpeed : float jumpSpeed

Tile Maps



float climbSpeed

Physics 2D Engine & Layer Collision Matrix



State Camera: Cinemachine & other components

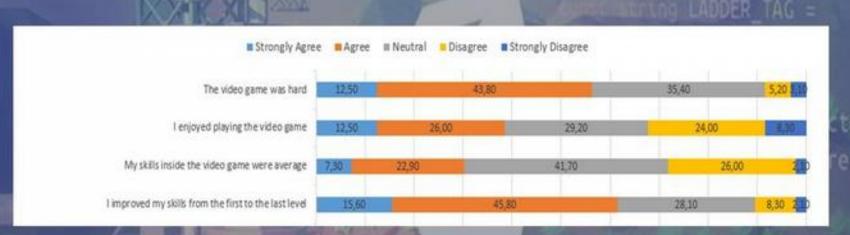


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And Many other Components and concepts!

Virtual State Cameras

Designing a Questionnaire Control of the climb speed Designing a Questionnaire Control of the climb speed Cont



MoveHorizontally();
ClimbLadders();
ProcessJump();
SaveTheWorld():

GAME DEVELOPMENT

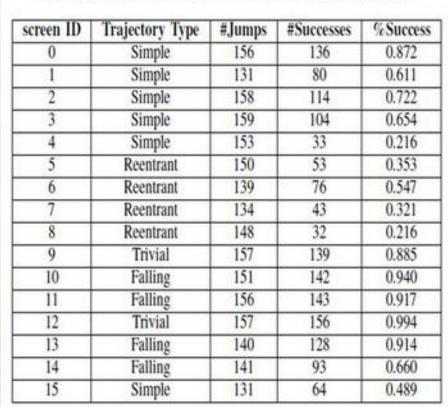
Future Scope

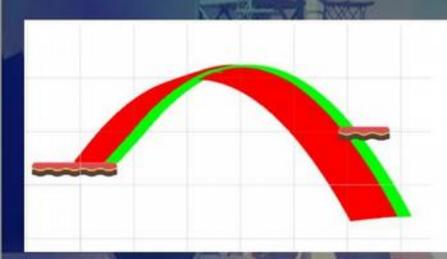


string CLIMB BOOL =

float runSpeed =

Float climbSpeed





An Al attached to player may help us classify the levels according to their level of complexity and also let us know if it is even possible to complete the level and if yes, know how hard the level actually is which has been designed by us.

