

Table of contents

01

Genre & Game play

03

Design Avatar

02

Structure

04

Scenes

Genre & Game play

Our idea

We plan to develop a game similar to *Fall Guys*, in which players control a character who jumps around and collects coins.

After completing the basic features, we can introduce more game modes to make it more engaging.

Our idea is to incorporate elements like jumping over obstacles, in addition to coin collection, to add more challenges to the game.







Menu Sturcture

- Basic and clean menu system
- Easy to navigate

Player avatar: Pingu

- Can move backwards, forwards, left, right and jump
- Play sound effects when Jump and Walk
- Play the blood explode animation when player drop into water
- Play animation when Walk



Sturcture

Obstacles: Iceberg

Different models from each other

Movable obstacles: Iceberg

- An object that moves independently in x and z axis
- Catch timing and jump on in
- Drop in water>>>Player loses lives

Collectable game objects: fish

- Gain points when the player collect it

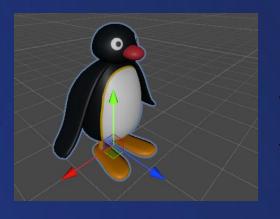




Main Character



Hovercraft Can't Jump

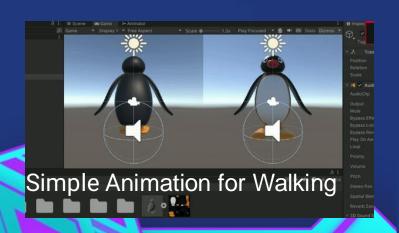


Pingu is cute, and can Jump And free to Downlond



What to expect

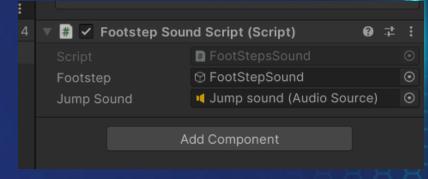
First Idea- Hovercraft
Can run either a sea or land scene





Blood Explode Animation

PNG for the Blood Explode->



Sound Script When Jump and Walk

Scene



Adding skybox to make a 360 environment
- To create surrounding sky

What to expect:

Penguin habitats that include ocean, sea ice

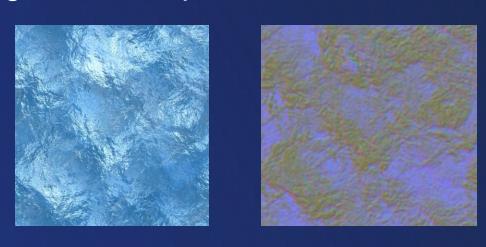


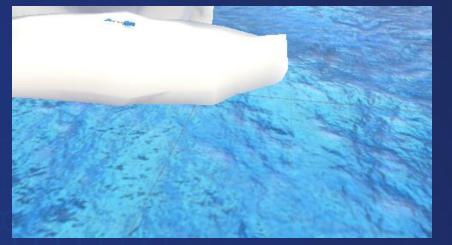
Scene

Applying normal map to enhance the texture



Igloo for success check point





Resources

3D models:

- https://assetstore.unity.com/packages/3d/environments/landscapes/free-snow-mountain-63002
- https://assetstore.unity.com/packages/3d/environments/landscapes/snow-mountain-24690
- https://sketchfab.com/3d-models/igloo-download-626ff9d6095b4579b7e741b23fad521c
- https://sketchfab.com/3d-models/seal-0616281841b44983b1c113b578c0f0ce
- https://sketchfab.com/3d-models/shark-fin-from-poly-by-google-0891eed09d7e4a3796a0aada05680e9f
- https://sketchfab.com/3d-models/ice-glacier-933b3c2ee51c48bb958d06655d1ff8bd
- https://sketchfab.com/3d-models/low-poly-tuna-fish-175f2e6f81ca4e12827eef9d80db54aa
- https://sketchfab.com/3d-models/pingu-34d6e003b6654f428855d3c1c79e7f67%E2%80%8B
- Blood effect PNG: https://assetstore.unity.com/packages/vfx/particles/spells/100-best-effects-pack-25634

Reference:

- Separate prefab into separate pieces Unity https://www.youtube.com/watch?v=YvdABrp0zHw
- create-animations https://gamedevacademy.org/how-to-create-animations-from-models-and-sprites-within-unity/
- Assign the Animator Controller to the Prefab https://learn.unity.com/tutorial/the-player-character-part-1?uv=2020.3&projectId=5caf65ddedbc2a08d53c7acb#5caf95e5edbc2a0c0aee4cd5
- Add multiple sounds https://www.youtube.com/watch?v=mvaUho a-q4&list=LL&index=3&pp=gAQBiAQB
- 2D background in a 3D game https://www.youtube.com/watch?v=Bv1foWFahM4&t=664s
- Retargeting Humanoid Animations in Unity https://www.youtube.com/watch?v=0o7SzYSsR-o&t=178s



