



HCLLO!

I AM SANJA GIGOVA Passionate Fortnite player

GAME INSTRUCTIONS

Galaxy Game

The lack of games played in the Galaxy, inspired me to develop this game. With its stunning visuals, immersive gameplay, living universe to explore, The Galaxy Game offers an unparalleled gaming experience for space enthusiasts and adventure seekers alike.



1. BUNNER

3D Hyper casual character in Unity with a collider,

material and two animations

- The character has two animations(Idle, Running)
- The player movement is made with a Script(PlayerController) and Animator.
- "ManageControl" function handles player controls in Unity. When the player presses and holds the left mouse button, the function calculates the player's movement based on the mouse positions. During the movement, the player is constrained within predefined boundaries of the road.

2.CROWD

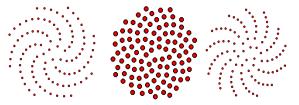
• The crawd was created with the Fermat spiral using the golden angle.

This patter can be seen in nature, in the sunflower

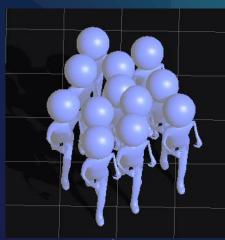
```
reference
private void PlaceRunners()
{
    for(int i = 0; i < runnersParent.childCount; i++)
    {
        Vector3 childLocalPosition = GetRunnerLocalPosition(i);
        runnersParent.GetChild(i).localPosition = childLocalPosition;
    }
}

reference
private Vector3 GetRunnerLocalPosition(int index)
{
    float x = radius * Mathf.Sqrt(index) * Mathf.Cos(Mathf.Deg2Rad * index * angle);
    float z = radius * Mathf.Sqrt(index) * Mathf.Sin(Mathf.Deg2Rad * index * angle);
    return new Vector3(x, 0, z);
}</pre>
```









$$r=c\sqrt{n}, \ heta=n imes137.508^\circ,$$

3. ENCMICS

- The enemy unit is designed to engage the player in combat. It follows a specific behavior pattern where it will continuously check the distance between itself and the player.
- If the player is within the attack range of the enemy, the enemy will initiate an attack.
- The attack range determines the maximum distance at which the enemy considers the player close enough to launch an attack.





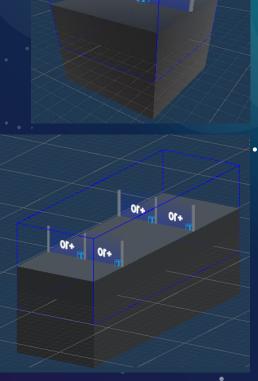
4.DOORS AND CHUNKS

Using two gates on the pathway, each capable of collecting, subtracting, multiplying, or dividing the total number of players

★ 2 colors -blue for addition and product

-red for difference and division

```
private void ConfigureDoors()
   switch (rightDoorBonusType)
       case BonusType.Addition:
           rightDoorRenderer.color = bonusColor;
           rightDoorText.text = "+" + rightDoorBonusAmount;
       case BonusType.Difference:
            rightDoorRenderer.color = penalyColor;
           rightDoorText.text = "-" + rightDoorBonusAmount;
            break;
       case BonusType.Product:
            rightDoorRenderer.color = penalyColor;
            rightDoorText.text = "x" + rightDoorBonusAmount;
        case BonusType.Division:
           rightDoorRenderer.color = penalyColor;
           rightDoorText.text = "/" + rightDoorBonusAmount;
            break:
```





5.Mysic Coins

Music symbols are prominently featured throughout various levels, enticing players to collect and save them as valuable currency. By accumulating these symbols, players can unlock and purchase an array of captivating skins and customization options for their characters, enhancing their overall gaming experience.



6.Levels

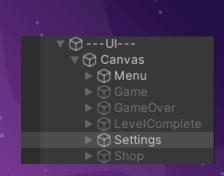
This game offers a dynamic gameplay experience with multiple levels, each featuring unique doors, varying numbers of enemies, and a collection of music coins. It utilizes a scriptable object array to define the levels, allowing for seamless progression as one level ends and another begins. Notably, the coins collected in the previous level persist and carry over to the

* Within the script, diverse chunks are generated to construct the levels, providing a sense of variety and unpredictability in each playthrough. Furthermore, the inclusion of music coins adds an extra layer of engagement, incentivizing players to explore and collect them throughout the game.

next level, ensuring the player's progress is maintained.



On the Canvas, a visually appealing layout awaits you with six distinct panels, each accompanied by a button that beckons to be pressed. But these panels offer more than just visual appeal. They proudly display the fruits of your in-game efforts – the coveted music coins you have amassed throughout your gaming journey.











- ★ I've chosen my favorite band to be the constant
- background melody, infusing each moment with their captivating tunes.
- * Also I have animated models of them playing the music.







I HOPE YOU LIKED IT!!!