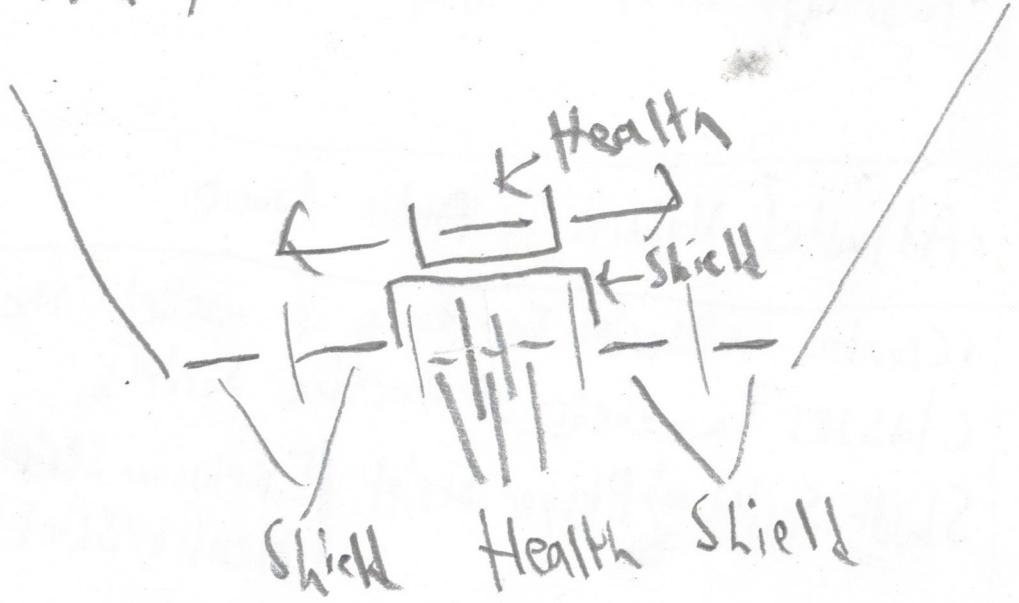


Concepts

- Plinko Space Battle Game
- Modify Score Buckets into
 - Health
 - Shield



- Add moving bucket for alternate hit on Health
- Add music
- Add SFX
 - Shooting ball of energy
 - "Blowing" up shield + health
- Add Ship sprite for Player
- Add Space BG
- Change object color bar to light grey to fit tone of game

- Add Start + Win Screen → Win Screen will contain:

- ↳ Start Screen will contain:
 - Onboarding text
 - Controls
 - Start Button

- Win text
- Victory SFX

Problems

- Background image covered everything, despite it loading last in the scene.

- Background Music too loud

- Play Shoot & Explosion SFX at the correct input/time

- Creating Separate Shield & Health Status

- How to load into different scenes

Solutions

- Restarted Unity + Laptop

- Adjusted Volume in Audio Source

- Created a script for each & called those classes in their respective scripts.
Shoot Script => Player Script | Explosion Script
Health/Shield Track

- Duplicated Health and adjusted code to fit what it's for
Shield => Destroy Shield Game Object
Health => Leads to Win Screen once 0.

- Referenced Module 4 content of Game Asset Development:
2D GFX

Plinko

ExplosionSFX

ExplosionSoundFX()

```
1     using UnityEngine;
2
3     Unity Script (1 asset reference) | 2 references
4     public class ExplosionSFX : MonoBehaviour
5     {
6         // Call upon a source of Audio
7         public AudioSource audioSource;
8         2 references
9         public void ExplosionSoundFX()
10        {
11            // Play the audio source
12            audioSource.Play();
13        }
14    }
```

Plinko

ShieldTracker

shieldDisplay

```
6
7     // Reference to the TMP_Text component for displaying shield + setting initial shield + ShieldDownSFX script
8     public TMP_Text shieldDisplay;
9     public GameObject shieldObject;
10    public int shield = 500;
11
12    private void Start()
13    {
14        UpdateShieldDisplay();
15    }
16    private void Update()
17    {
18        ZeroShield(shieldObject);
19    }
20    public void deductShield(int damage)
21    {
22        // Deduct shield by the damage amount
23        shield -= damage;
24        UpdateShieldDisplay();
25    }
26    public void UpdateShieldDisplay()
27    {
28        // Update the shield display with leading zeros
29        shieldDisplay.text = $"SHIELD: {shield,00000000}";
30    }
31    public void ZeroShield(GameObject shieldObject)
32    {
33        // If shield is 0 or less, destroy the Shield
34        if (shield <= 0)
35        {
36            Destroy(shieldObject);
37        }
38    }
39
```

MovingBucket.cs X ShieldTracker.cs deductHealth.cs DeductShield.cs HealthTracker.cs ExplosionSFX.cs PlayerShootSFX.cs

Plinko ▾ MovingBucket ▾ movingBucket

```
1 using UnityEngine;
2
3     // Unity Script (1 asset reference) | 0 references
4 public class MovingBucket : MonoBehaviour
5 {
6     // Define the game object to be moved
7     public GameObject movingBucket;
8
9     void Update()
10    {
11        // Move the bucket back and forth between -10 and 11 on the x-axis
12        movingBucket.transform.position = new Vector3(Mathf.PingPong(Time.time, 21) + -10, movingBucket.transform.position.y, movingBucket.transform.position.z);
13    }
}
```

Plinko

StartGame

StartTheGame()

```
1  using UnityEngine;
2  using UnityEngine.SceneManagement;
3
4  public class StartGame : MonoBehaviour
5  {
6      public void StartTheGame()
7      {
8          // Load the main game scene
9          SceneManager.LoadScene("GameScene");
10     }
11 }
12
```

5

