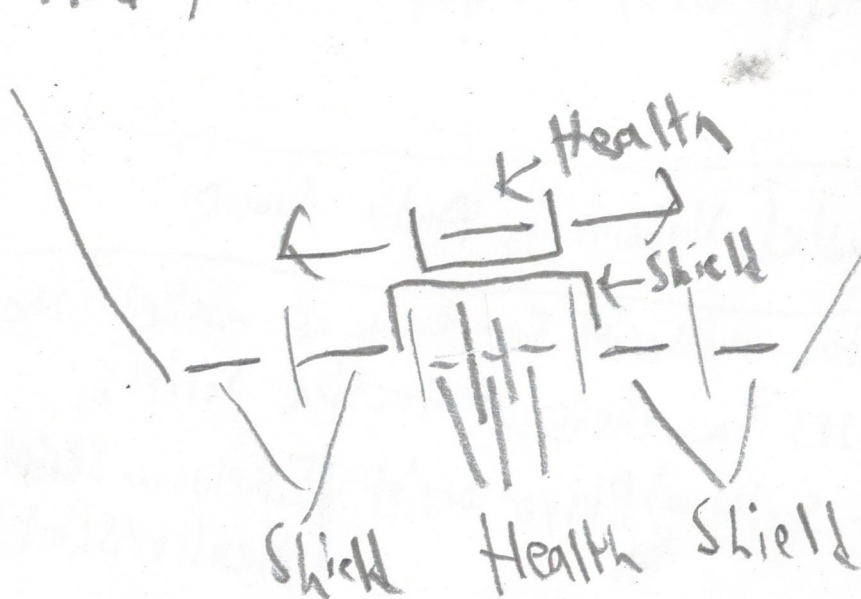


Concepts

• Plinko Space Battle Game

• Modify Score Buckets into → Health
→ Shield



• Add moving bucket for alternate hit on Health

• Add music

• Add SFX

• Add ship sprite for Player

→ Shooting ball of energy

→ 'Blowing' up shield & Health

• Add Space BG

• Change object color to light grey to fit tone of game

• All 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 Statues

• 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 Tracker

• 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

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

```
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    ⚙ Unity Message | 0 references
13    private void Start()
14    {
15        UpdateShieldDisplay();
16    }
17
18    ⚙ Unity Message | 0 references
19    private void Update()
20    {
21        ZeroShield(shieldObject);
22    }
23
24    1 reference
25    public void deductShield(int damage)
26    {
27        // Deduct shield by the damage amount
28        shield -= damage;
29        UpdateShieldDisplay();
30    }
31
32    2 references
33    public void UpdateShieldDisplay()
34    {
35        // Update the shield display with leading zeros
36        shieldDisplay.text = $"SHIELD: {shield,000000000}";
37    }
38
39    1 reference
40    public void ZeroShield(GameObject shieldObject)
41    {
42        // If shield is 0 or less, destroy the Shield
43        if (shield <= 0)
44        {
45            Destroy(shieldObject);
46        }
47    }
48 }
```

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

