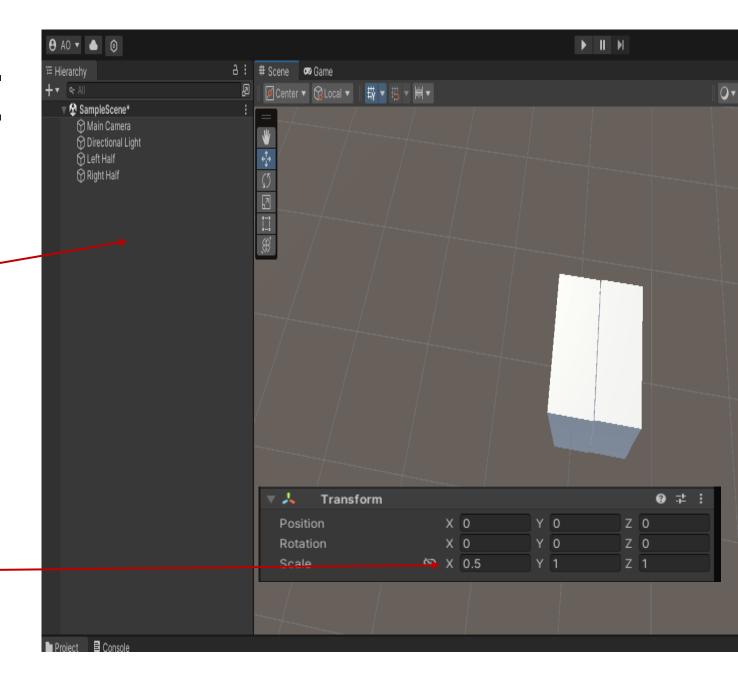
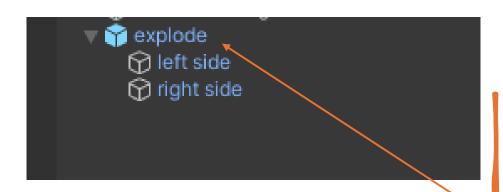
### Object Destroy Tutorial

# SETTING UP THE PIECES

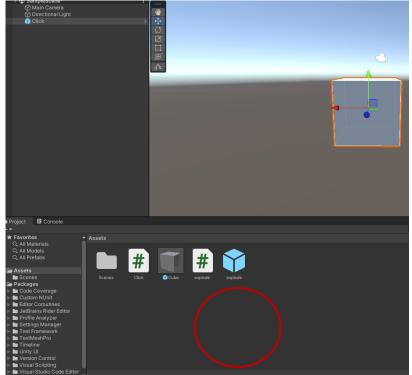
- First you'll right click in the hierarchy.
- You'll then see [3D Object], youll then hover over to the drop down and you'll see [Cube]. Create two cubes.
- These two will be two halves to make a full cube [set the X scale on both squares to 0.5]





#### **SETTING UP THE**

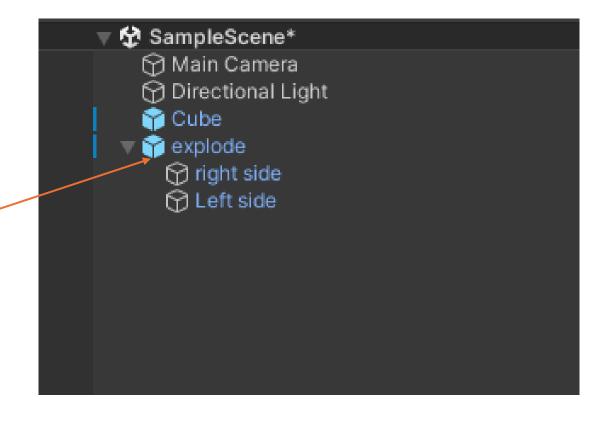
PIECES PT.2



- You'll then put in an [Empty Object] and make the two halves the children of that empty object (which will be renamed explode)
- You'll then drag [explode] into the circled area to turn it into a prefab.

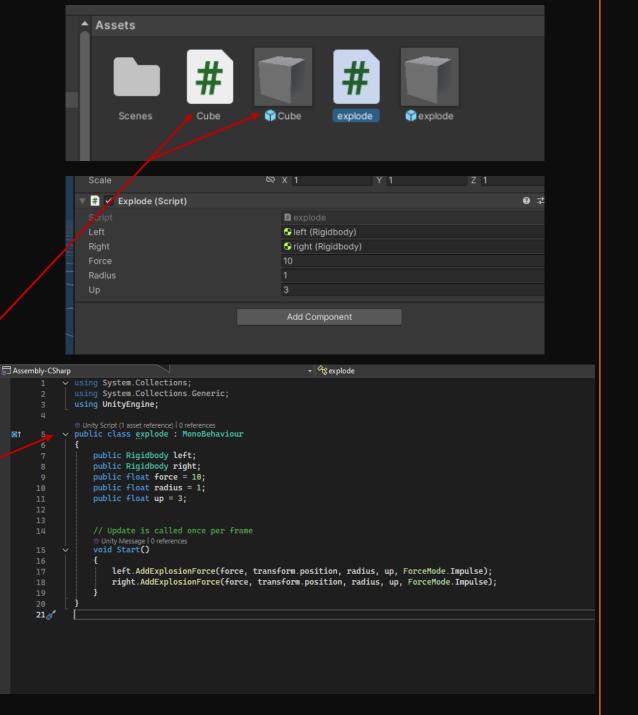
#### SETTING UP THE PIECES PT.3

- After that you will then create another cube – this cube will be what you click on to initiate the explosion
- Don't forget to delete the explosion hierarchy or the explosion won't work properly



## Implementing the actions

- Then you're going to make two c# scripts. One for explode and one for cube.
- Attach the scripts their correct prefab
- We will start off with the explosion script.
- The first line in the script: [public class Explode: Monobehaviour]. This basically states that a public class named explode in Unity's Monobehaviour



Implementing the actions PT.2

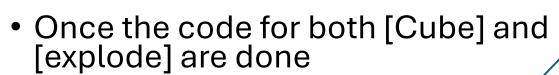
- The codes in brackets are defined as public fields
- The [left] and [right] are references of two rigidbody components (as they both have a rigid body attached to them) that that are going to be affected by the explosion as they are parents of [explosion]
- [force] means the extent of the explosion.
   The value is set at 10
- [radius] means the radius of the explosion.
   Shows the area of where explosion will be applied
- [up] simply means how far the object will be pushed up (along Y axis) once explosion has been initiated.

```
→ <sup>A</sup>S explode
      using System.Collections;
        using System.Collections.Generic;
        using UnityEngine;
         10 Unity Script (1 asset reference) 0 references
        public class explode : MonoBehaviour
             public Rigidbody left;
             public Rigidbody right;
             public float force = 10;
             public float radius = 1;
             public float up = 3;
             // Update is called once per frame
             Unity Message | 0 references
             void Start()
                 left.AddExplosionForce(force, transform.position, radius, up, ForceMode.Impulse);
                 right.AddExplosionForce(force, transform.position, radius, up, ForceMode.Impulse);
21 8
```

### Click (Cube) Script

- Public means the variable is accessible in unity.
- A gaming objects position, rotation, and scale in three dimensions are represented by [Transform].
- OnMouseDown simply allow the player to click on the object to initiate the action.
- Instantiate (explode); refers the interaction with the cube to the explosion, when the cube is clicked the explosion will take place
- Destroy(gameObject); will destroy the game object, that being the cube when it's clicked on.

```
Unity Script (1 asset reference) | 0 references
public class Cube : MonoBehaviour
     public Transform explode;
     Unity Message | 0 references
     void OnMouseDown()
          Instantiate(explode);
         Destroy(gameObject);
```



Youre then going to double click on the explosion prefab

- Attach rigidbodies to both halves
- Then drag your left and right half into the corresponding boxes.
- Lastly youll click on to the cube prefab, scroll down to the cube script attached to it then drag the explosion prefab into None (Transform)
- Then run the script and the cube shall explode. Shown on next slide

