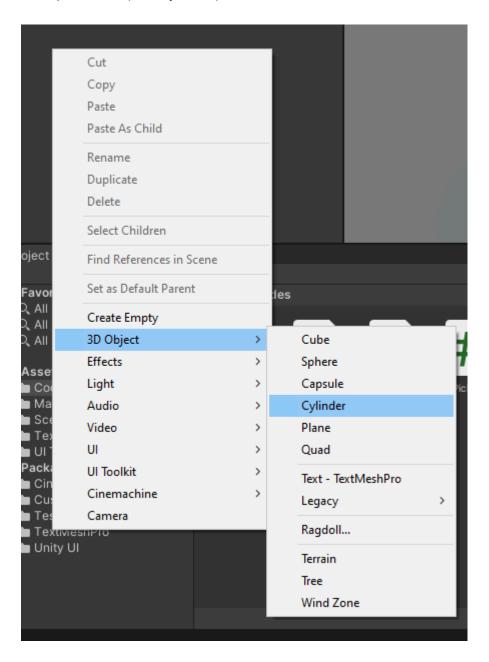
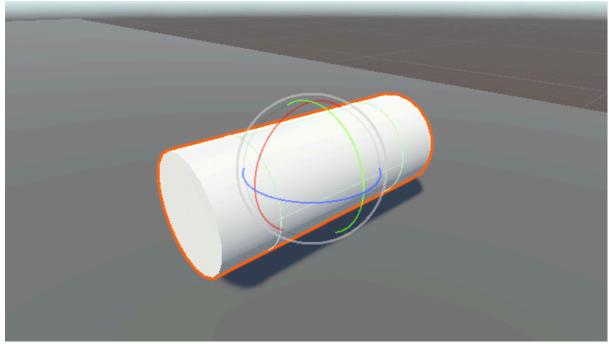
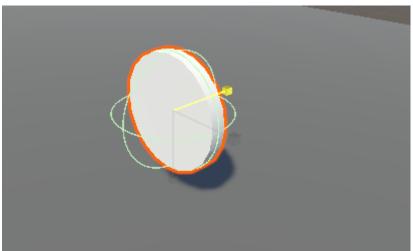
For the second tutorial I will be explaining how to create simple pickups that can be collected by the player and counted towards a UI count

First we need to make the pickups themselves

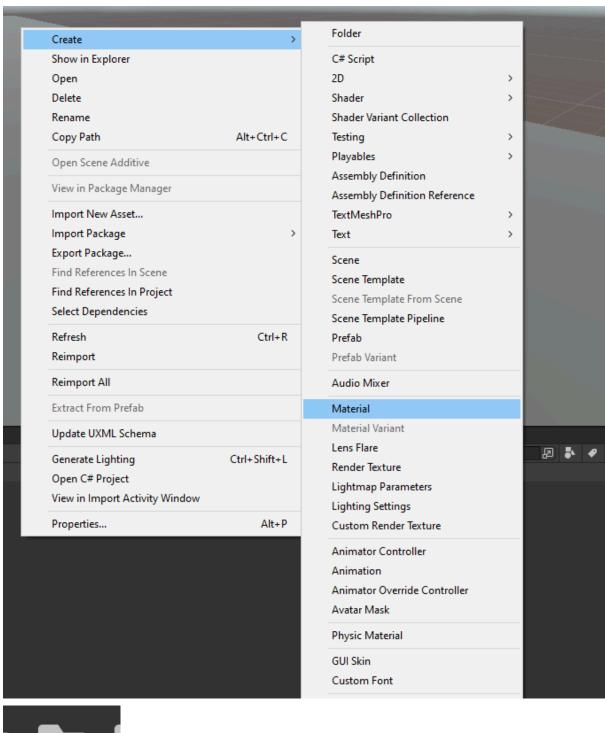
For simplicity we will be making basic coins to collect. In the Hierarchy right click an empty space and create a Cylinder, scale it down using R and rotate it using the Transform axis in its inspector tab (usually X -90)

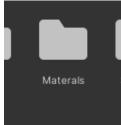




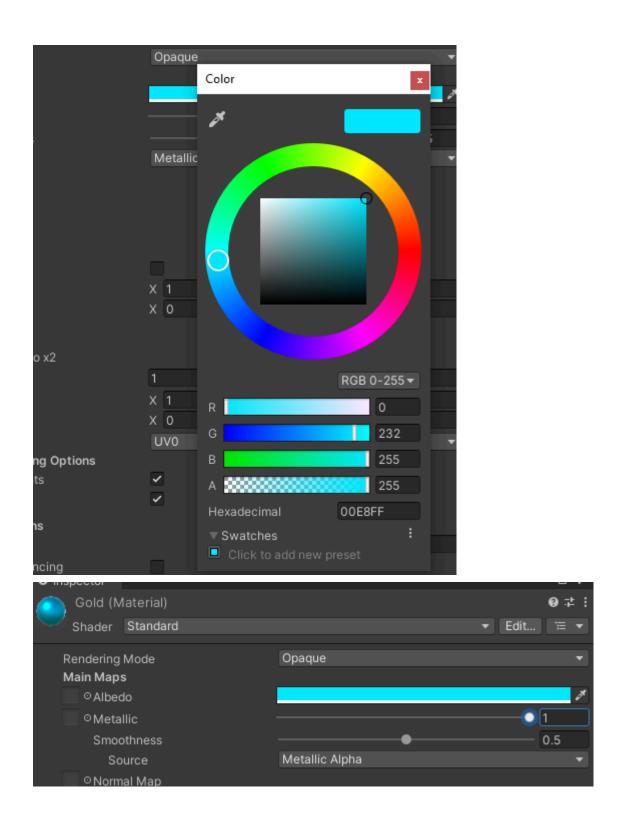


Now, we need to make this look more like a coin in game using its Mesh renderer. Go to the assets folder, create a new folder named Materials right click, go to create and make a new Material





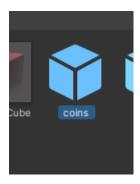
To get that nice gold metal gleam effect, slide the metallic slider up to 1 and then choose an appropriate colour for our coin. I will be using a nice blue for this demo. I like blue:D



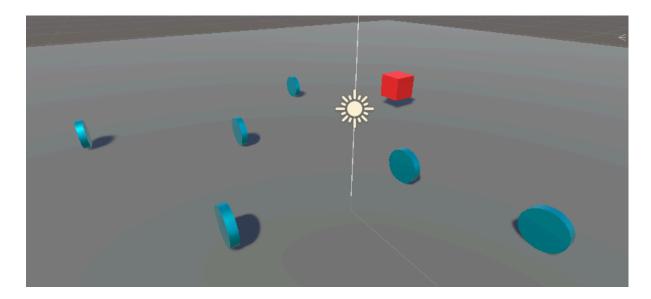
Finally drag the new material into the Mesh Renderer Element and the coin should now take whatever settings you apply to that material



Next, return to the assets folder, click on the cylinder in the hierarchy and rename it Coin. Drag the coin into the Assets table at the bottom of the screen and this will make it a set Asset that can be repeated and inserted multiple times and be edited as a group rather than as individuals. This means any changes will occur with all coins made from this asset.



Delete the coin from the hierarchy on the left and then drag and drop however many coins as you wish from the new one in the Assets table.



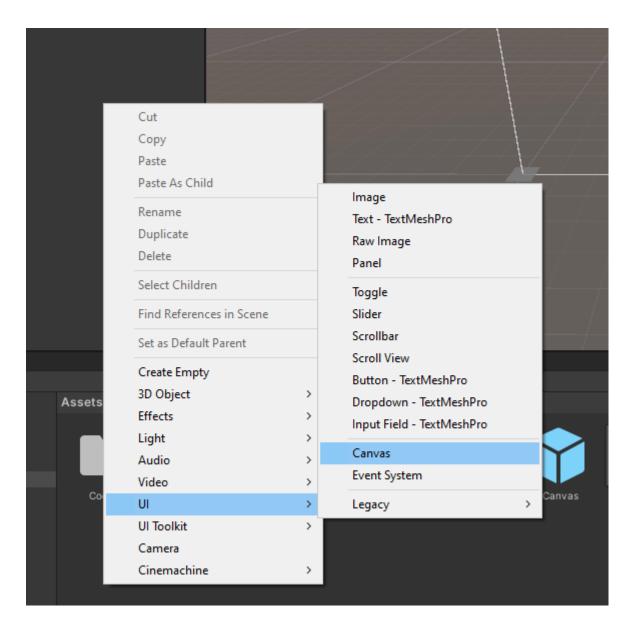
Find your "player" in your scene and attach a new script to it named "CoinCount"

Insert the following script into the file:

```
using System.Collections.Generic;
       using UnityEngine;
       using TMPro;
     v public class CoinCount : MonoBehaviour
           public Rigidbody body;
           public float force = 2;
           public TMP_Text text;
           int coins = 0;
           public void AddCoin()
            {
               coins++;
               Debug.Log($"Coins collected: {coins}");
               text.text = "Coins collected " + coins;
            // Start is called before the first frame update
           void Start()
            {
               text.text = "Coins collected " + coins;
24
```

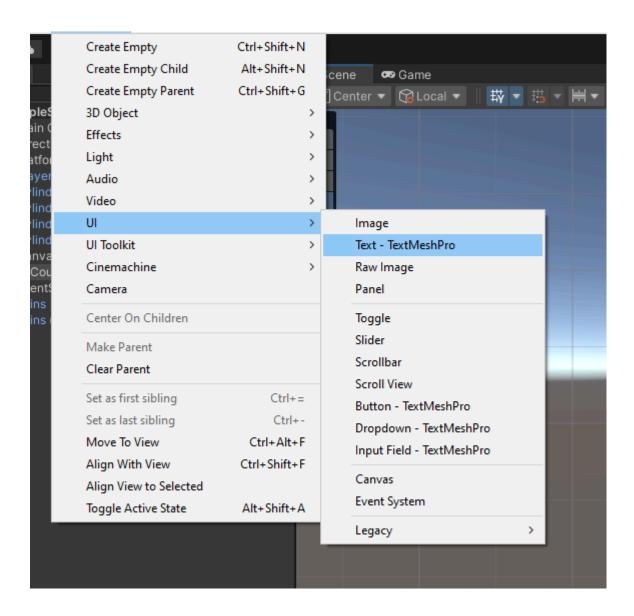
After that we need something that will display the number of coins on our screen and make sure that it stays in frame during gameplay

First create a Canvas in the hierarchy. It is located within the UI tab when right clicking.

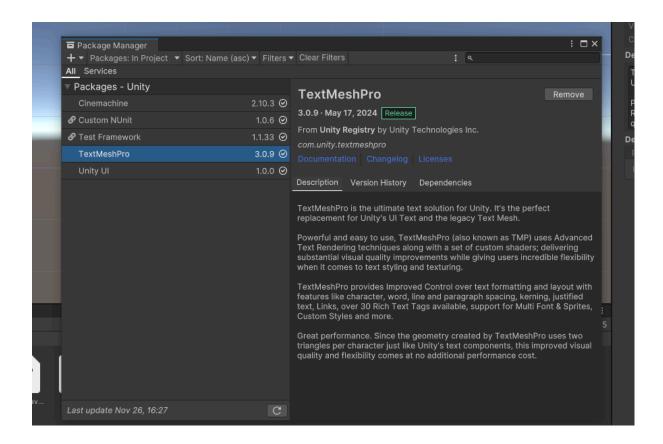


This will hold the items that will display on our screen during gameplay such as the text we will now be adding.

Head to game objects at the top of your screen and find the Text Mesh Pro in the UI tab



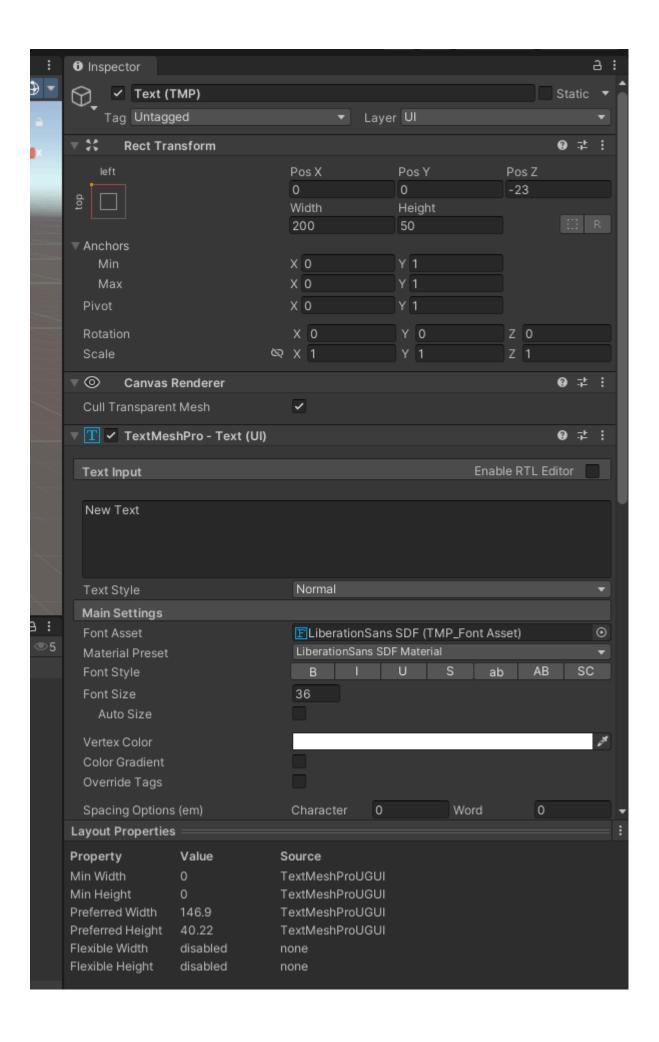
If you cannot find this add on simply download it from the Package Manager



Make sure that the Text mesh UI is within the Canvas item within the hierarchy like so.



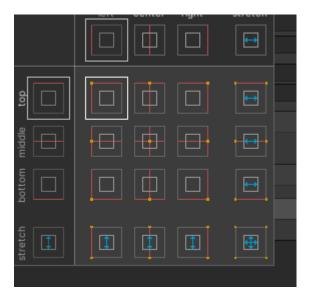
Next click on the text asset within the canvas and look over the right of the screen to edit its attributes.



We are looking for this small square which will help lock its position in a suitable place



Click on the square to open up its menu. Depending on whether you use Shift, Alt or just clicking, the pivot, set position and the asset itself will all move to the chosen slot. Use Shift and Alt and click on the top left slot to attach our items to the left of the screen. (note there should be small blue circles within the squares as well which cannot be shown within this image)



Finally we need to connect the counting of the coins to the text itself. To do this click on the player that has the coin pickup script and drag the text asset in the hierarchy into the Text box



Click on the Coin asset to open up its inspector and attach a new script to it. Name this script "Pickup"

Next write the following above the Start function

```
void OnTriggerEnter(Collider other)
{
   CoinCount player = other.GetComponent<CoinCount>();
if (player!= null)
{
   player.AddCoin();
   gameobject.SetActive(false);
}
```

It should look like the following

```
using System.Collections;
        using System.Collections.Generic;
        using UnityEngine;
     v public class Pickup : MonoBehaviour
            void OnTriggerEnter(Collider other)
                CoinCount player = other.GetComponent<CoinCount>();
9
                if (player != null)
11
12
                    player.AddCoin();
                    gameObject.SetActive(false);
13
            // Start is called before the first frame update
17
            void Start()
            {
19
            // Update is called once per frame
22
            void Update()
24
            {
27
```

Essentially what this code is doing is that it is detecting when a collision is occurring with another object and when that object hits the player it adds a score to the number of coins collected and then sets itself inactive, disappearing from the scene.

This ensures that it is not picked up again until the next reload of the area.