

VR App Manual using Unity

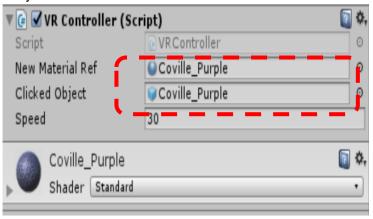
Introduction

This document will guide you on how to add new patterns and new colours to VR app.

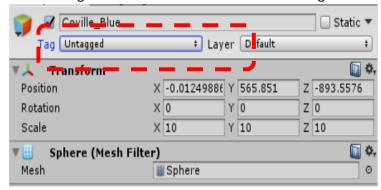
Add new pattern and new colour

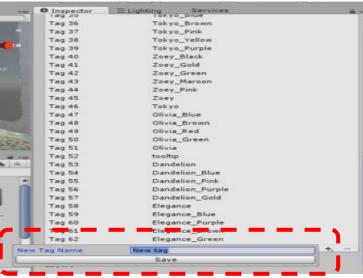
1. Prepare pattern prefab

- a. Import image into Patterns folder, create a new material and attach the image to the material
- b. Create a sphere gameObject named with pattern/colour name with scale of 10*10*10
- c. Attach the created material and VRController script to the gameObject
- d. Drag the corresponding material to "New Material Ref" and the gameObject to "Clicked Object"



- e. Create a new Tag with gameObject name and assign the newly created tag
 - i. Click the Tag and scroll to the bottom to add new tag





f. Create a prefab and attach the gameObject to the prefab

2. Modify the scripts



a. VRController

Add new pattern name into patterns array

```
public static string[][] patterns = new string[][]
{
    // new string[] {"Mimosa", "Flower", "Coconut"},
    // new string[] {"Forest", "Lotus", "Bird"}
    new string[] {"Coville", "Olivia", "Tokyo"},
    new string[] { "Dandelion", "Zoey", "Elegance" },
};
```

Create a new colour array for the new pattern

```
public static string[][] eleganceColors = new string[][]
{
   new string[] { "Elegance_Blue", "Elegance_Brown", "Elegance_Green"},
   new string[] { "Elegance_Purple"},
};
```

Modify OnGazeTrigger() to instantiate colours once the pattern is clicked

```
if (ClickedObject.name == "Mimosa" || ClickedObject.name == "Mimosa(Clone)")
{
    createPatterns(mimosaColors[colorId]); // create colours
```

3. Modify MorePatternsToLeft and MorePatternsToRight to scroll to more colours

Scroll colour selection to the left

```
if (VRController.Clicked.Contains("Mimosa"))
{
    print("colorId" + VRController.colorId);
    if (VRController.colorId > 0)
    {
        string[] preColors = VRController.mimosaColors[VRController.colorId];
        for (int i = 0; i < preColors.Length; i++)
        {
            VRController.DestoryPattern(preColors[i]);
        }
        VRController.colorId -= 1;
        //print(patternId);
        string[] nexColors = VRController.mimosaColors[VRController.colorId];
        VRController.createPatterns(nexColors);
    }
}</pre>
```

Scroll colour selection to the right

4. Modify BackToPatterns to destroy colour gameObjects when back to pattern menu

```
for (int i = 0; i < GameObjects.Length: i++)
{
    if (GameObjects[i].name.Contains("Coville") || GameObjects[i].name.Contains("Sofia") || GameObjects[i].name.Contains("Tokyo") || GameObjects[i].n
```

5. Modify ClickBed to destroy new patterns when resetting the scene

```
public void resetPatterns()
{
    clickedBed = false;
    GameObjects = UnityEngine.Object.FindObjectsOfTypecGameObject>();

    for (var i = 0; i < gameObjects.Length; i++)
    {
        if (gameObjects[i].name.Contains("Coville") || gameObjects[i].name.Contains("Sofia") || gameObjects[i].name.Contains("Tokyo") ||
        {
            Destroy(gameObjects[i]);
        }
    }
}
Instantiate(Resources.Load("Tooltip"), new Vector3(-2, 567, -897), Quaternion.Euler(0, -60, 0));
}</pre>
```