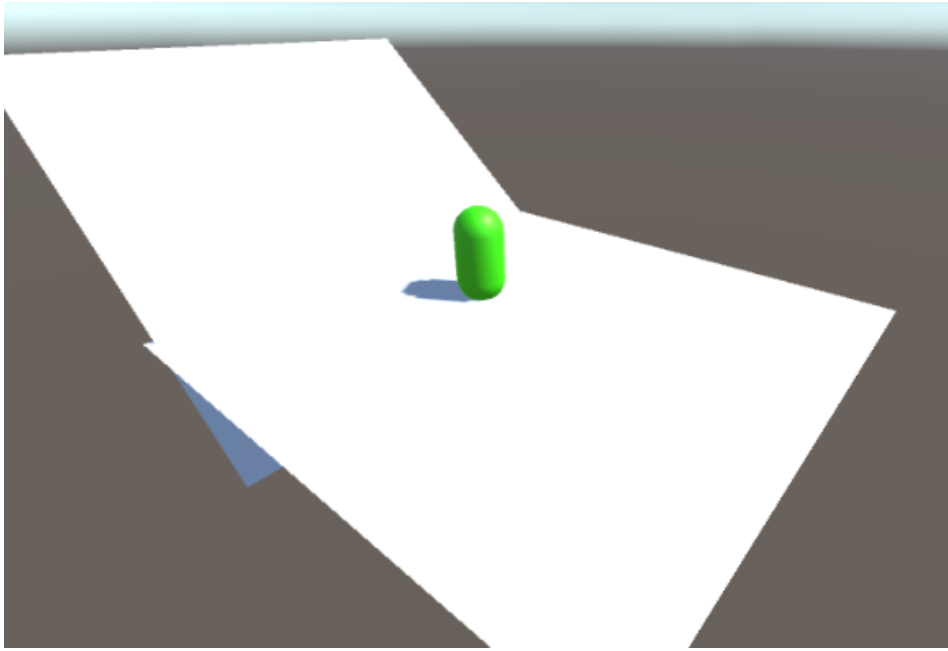
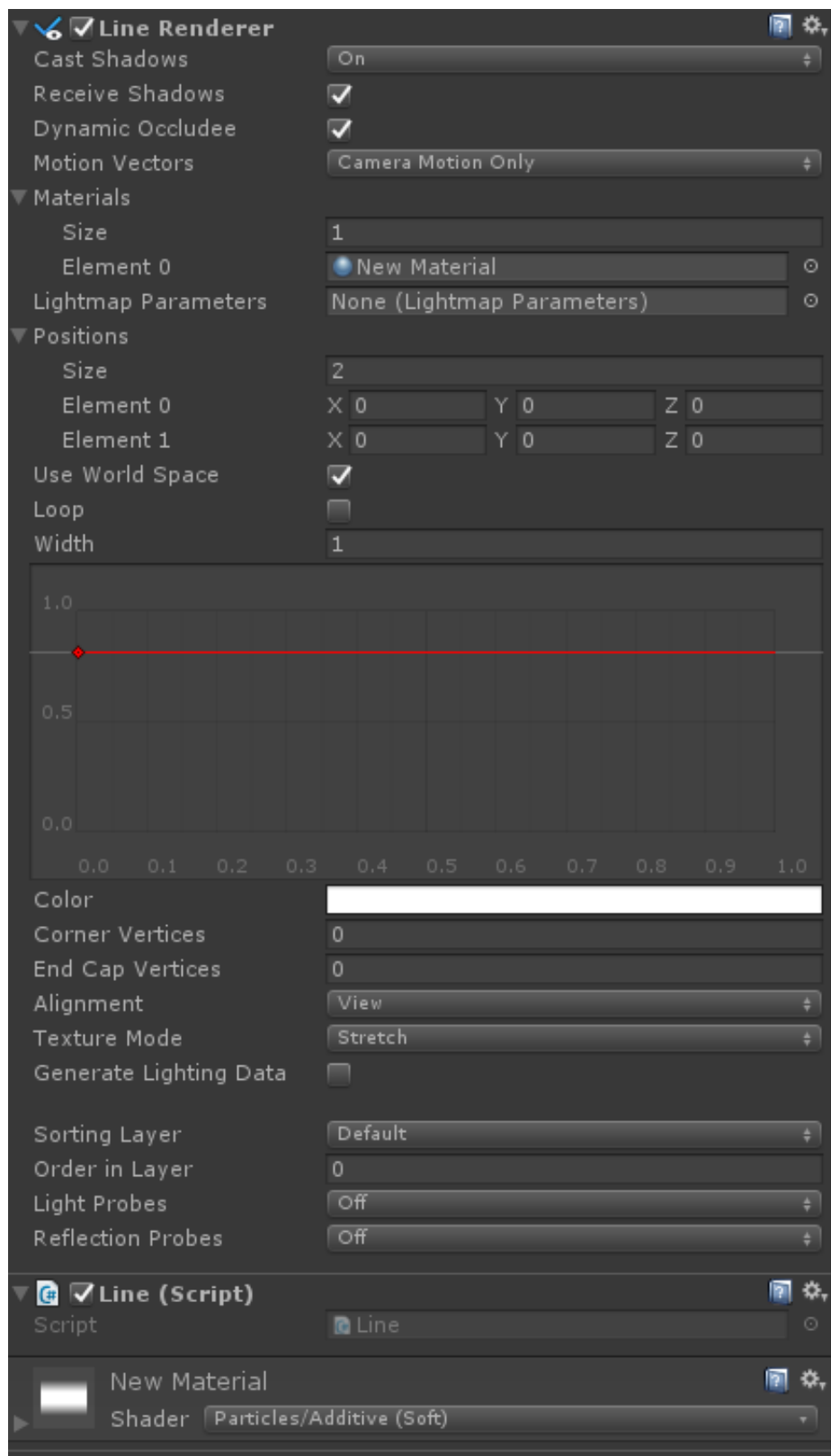


点击地面控制人物爬坡





```
1 using System.Collections;
2 using System.Collections.Generic;
3 using UnityEngine;
4
5 public class SopleMove : MonoBehaviour {
6     private Vector3 target;
```

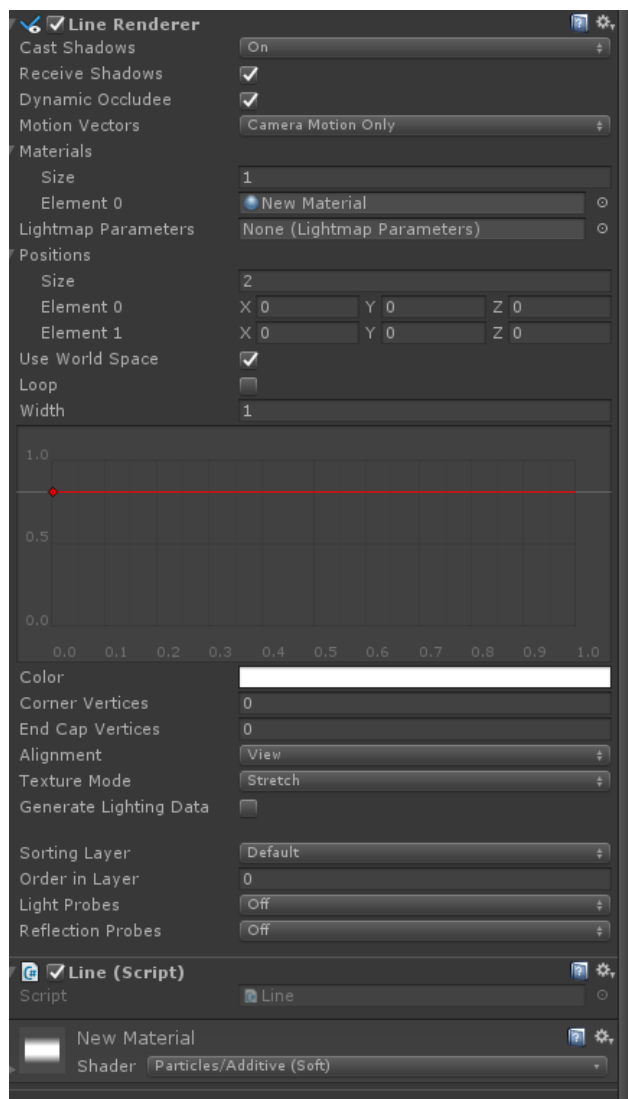
```

7     private bool move;
8
9     void Update () {
10         if (Input.GetMouseButtonDown(0))
11         {
12             Ray ray =
Camera.main.ScreenPointToRay(Input.mousePosition);
13             RaycastHit hit;
14             if (Physics.Raycast(ray, out hit, 300))
15             {
16                 if (hit.collider.CompareTag("terrain"))
17                 {
18                     target.Set(hit.point.x, transform.position.y,
hit.point.z);
19                     move = true;
20                 }
21             }
22         }
23
24         if (move)
25         {
26             target.Set(target.x, transform.position.y, target.z);
27             transform.LookAt(target);
28             transform.Translate(Vector3.forward * 0.1f);
29
30             //设置第二条射线 检测人物应该出现在的Y值
31             Ray ray1 = new Ray();
32             ray1.origin = transform.position+Vector3.up;
33             ray1.direction = Vector3.down;
34
35             RaycastHit hit;
36             Physics.Raycast(ray1, out hit, 100, 1 <<
LayerMask.NameToLayer("UI"));
37             if (hit.collider == null)
38                 return;
39
40             transform.position = new Vector3(transform.position.x,
hit.point.y, transform.position.z);
41             if (Vector3.Distance(transform.position, target) < 0.1f)
42                 move = false;
43         }
44     }

```

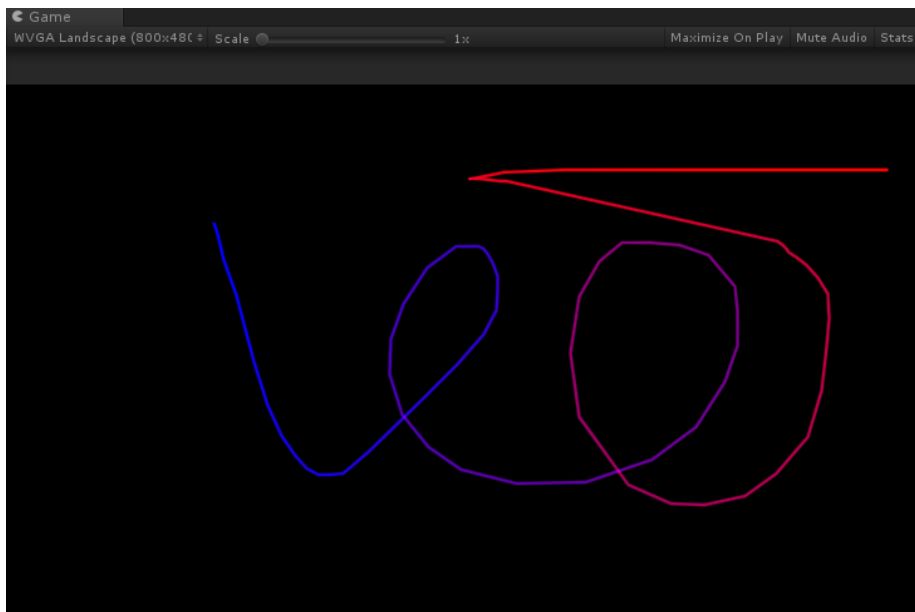
```
45 }  
46
```

LineRenderer 线性渲染器



Shader选择Particles/Additive (soft)

使用lineRenderer在场景中绘制线



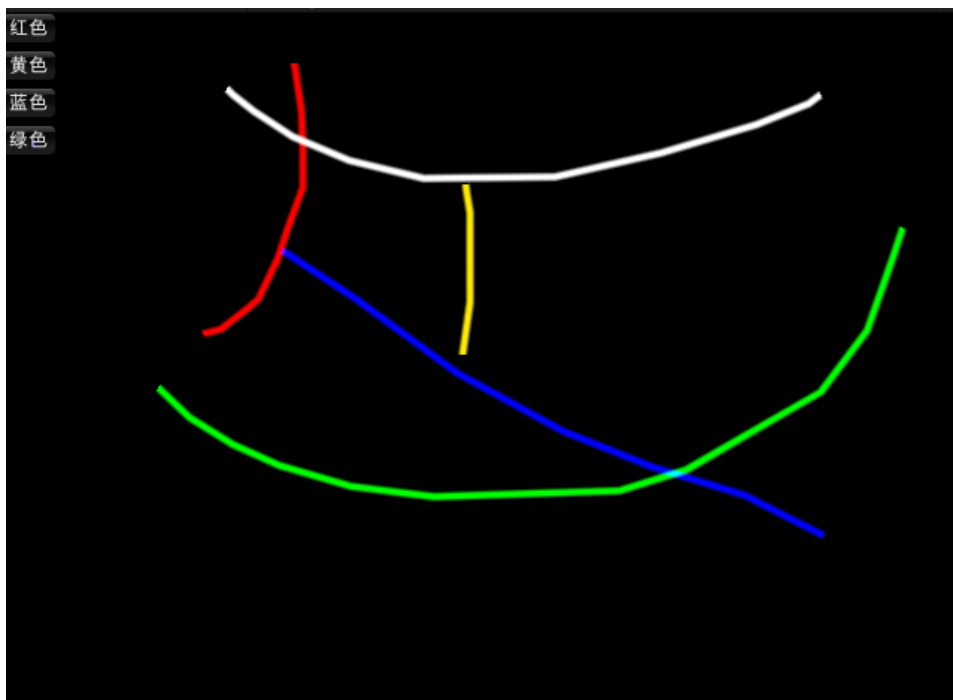
```
1 using System.Collections;
2 using System.Collections.Generic;
3 using UnityEngine;
4
5 public class Line : MonoBehaviour {
6
7     private LineRenderer lr;
8     private List<Vector3> points = new List<Vector3>();
9     private bool beginDraw;
10    void Start () {
11        lr = GetComponent<LineRenderer>();
12        lr.startColor = Color.blue; //设置线的起始颜色
13        lr.endColor = Color.red; //设置线的结束颜色 (颜色渐变)
14    }
15
16    void Update () {
17        if (Input.GetMouseButtonDown(0))
18        {
19            beginDraw = true;
20        }
21        if (Input.GetMouseButtonUp(0))
22        {
23            beginDraw = false;
24        }
25
26        if (beginDraw)
27        {
28            //保持z轴为正 这样才能保证2D物体可以被摄像机照射到和渲染
```

```

29         Vector3 pos = new Vector3(Input.mousePosition.x,
Input.mousePosition.y, 1.0f);
30         //把屏幕坐标转化为世界坐标
31         pos = Camera.main.ScreenToWorldPoint(pos);
32         points.Add(pos);
33         Draw();
34     }
35 }
36
37 void Draw()
38 {
39     //设置线渲染器的点的个数
40     lr.positionCount = points.Count;
41     //通过for循环把所有的点赋值给线渲染器
42     for (int i = 0; i < points.Count; i++)
43     {
44         lr.SetPosition(i, points[i]);
45     }
46 }
47 }

```

使用预设的画面中绘制多条线



1 //绑定在场景中的空物体上

```
2 using System.Collections;
3 using System.Collections.Generic;
4 using UnityEngine;
5
6 public class Game : MonoBehaviour {
7     public GameObject linePrefab;
8     private GameObject lineObj;
9     private bool beginDraw;
10
11     private Color colorData = Color.white;
12     void Update () {
13         if (Input.GetMouseButtonDown(0))
14         {
15             beginDraw = true;
16             lineObj=Instantiate(linePrefab);
17         }
18         if (Input.GetMouseButtonUp(0))
19         {
20             beginDraw = false;
21         }
22
23         if (beginDraw)
24         {
25             Vector3 position = new Vector3(Input.mousePosition.x,
Input.mousePosition.y, 1.0f);
26             position = Camera.main.ScreenToWorldPoint(position);
27
28             Line line = lineObj.GetComponent<Line>();
29
30             line.points.Add(position);
31             line.lr.startColor = colorData;
32             line.lr.endColor = colorData;
33             line.Draw();
34         }
35     }
36
37     void OnGUI()
38     {
39         if (GUILayout.Button("红色"))
40         {
41             colorData = Color.red;
42         }
43     }
44 }
```

```

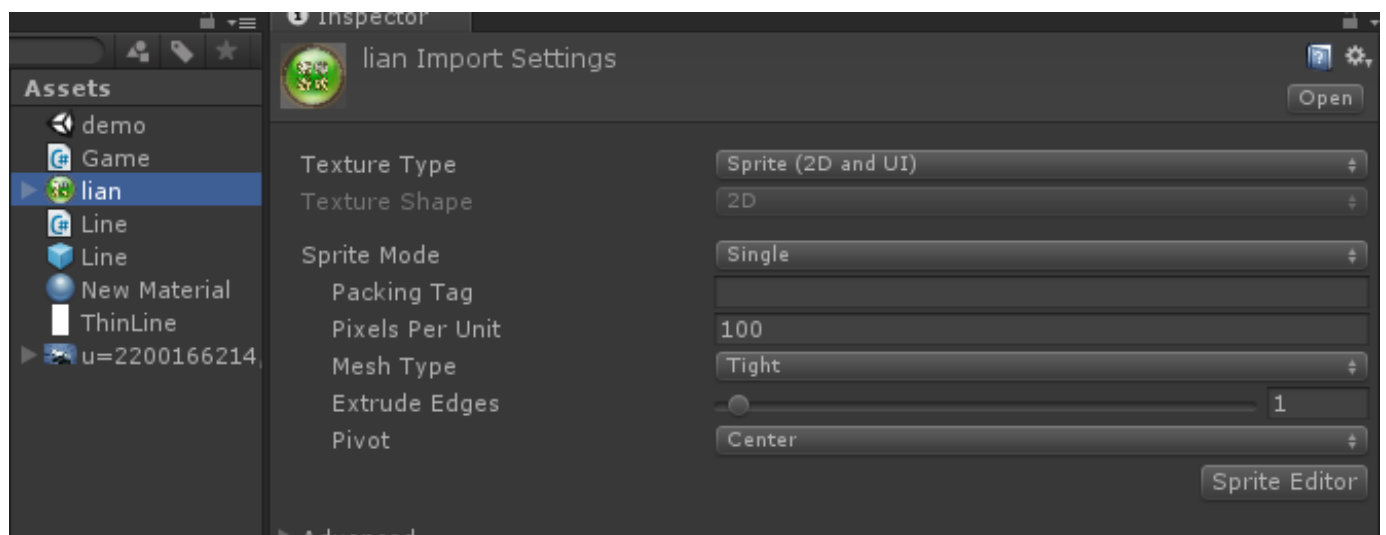
43         if (GUILayout.Button("黄色"))
44         {
45             colorData = Color.yellow;
46         }
47         if (GUILayout.Button("蓝色"))
48         {
49             colorData = Color.blue;
50         }
51         if (GUILayout.Button("绿色"))
52         {
53             colorData = Color.green;
54         }
55     }
56 }
57

```

```

1  //绑定在线渲染器预制体上
2  public class Line : MonoBehaviour
3  {
4      public LineRenderer lr;
5      public List<Vector3> points = new List<Vector3>();
6
7      void Awake()
8      {
9          lr = GetComponent<LineRenderer>();
10     }
11
12     public void Draw()
13     {
14         lr.positionCount = points.Count;
15
16         for (int i = 0; i < points.Count; i++)
17             lr.SetPosition(i, points[i]);
18     }
19 }

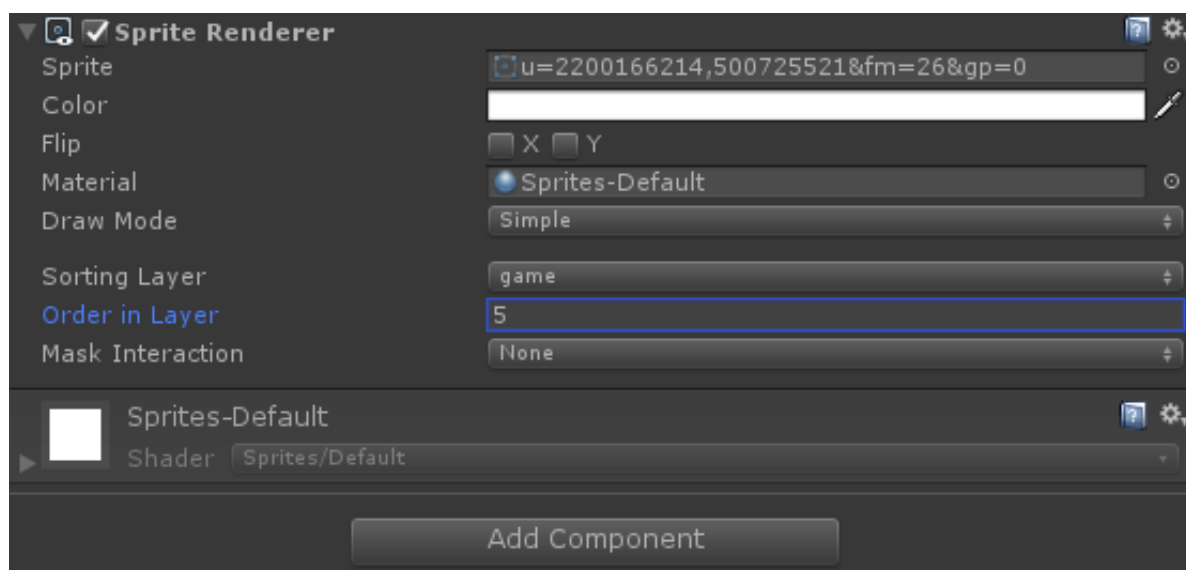
```

所有的图片类型 选择Sprite类型

SpriteRenderer 精灵渲染器

当图片添加到场景中 自动添加组件



SortingLayer 排序层

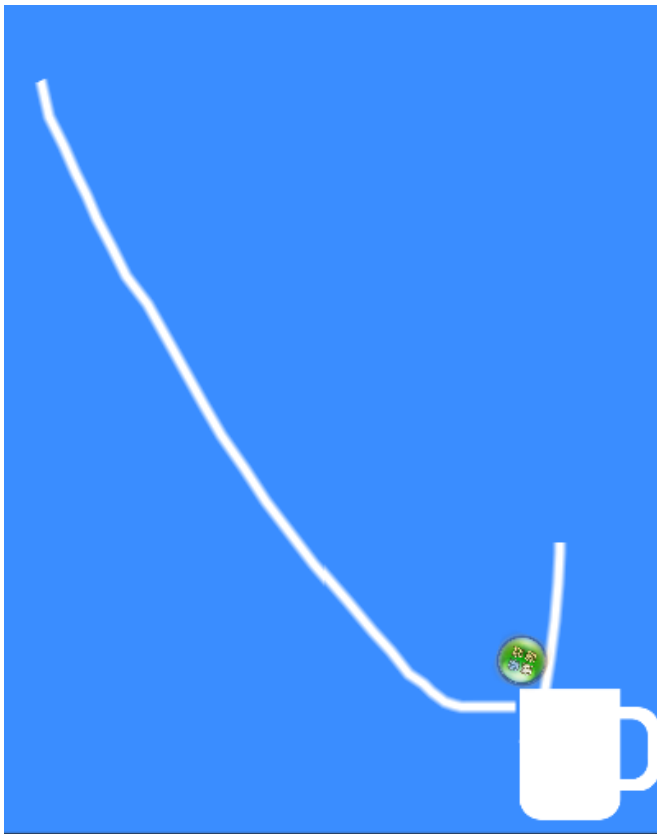
默认Default的层级是最低的 由上往下依次递增

层级高的图片覆盖层级低的图片

如果两个图片在同一个Layer下 显示顺序由OrderInLayer决定

|

使用代码给线添加边缘碰撞器



```
1 using System.Collections;
2 using System.Collections.Generic;
3 using UnityEngine;
4
5 public class Line : MonoBehaviour
6 {
7     public LineRenderer lr;
8     public List<Vector3> points = new List<Vector3>();
9
10    private EdgeCollider2D edge;
11
12    void Awake()
13    {
14        lr = GetComponent<LineRenderer>();
15        edge = GetComponent<EdgeCollider2D>();
16    }
17
18    public void Draw()
19    {
20        List<Vector2> edgePoints=new List<Vector2>();
21        lr.positionCount = points.Count;
22
23        for (int i = 0; i < points.Count; i++)
```

```
24     {
25         lr.SetPosition(i, points[i]);
26         edgePoints.Add(new Vector2(points[i].x,points[i].y));
27     }
28
29     if(points.Count>1)
30         edge.points = edgePoints.ToArray();
31 }
32 }
```