1.2 1 1.3 4 1.4 4 1.5 4 1.6 unity Camera 属性详解 4 1.7 Camera 相关 1 Camera Shake in Unity 1.1 http://www.voidcn.com/article/p-yfmjbkxr-pu.html var originPosition:Vector3; var originRotation:Quaternion; var shake_decay: float; var shake_intensity: float;; function OnGUI () { if (GUI.Button (Rect (20,40,80,20), "Shake")) { Shake(); }

transform.position = originPosition + Random.insideUnitSphere * shake_intensity;

originRotation.x + Random.Range(-shake_intensity,shake_intensity)*.2, originRotation.y + Random.Range(-shake_intensity,shake_intensity)*.2, originRotation.z + Random.Range(-shake_intensity,shake_intensity)*.2, originRotation.w + Random.Range(-shake_intensity,shake_intensity)*.2);

1

1

```
shake_intensity = .3;
shake_decay = 0.002;
26 }

1.2 Unity 中做放大镜效果
```

其实和小地图都差不多了。还是要借助另一个相机

http://www.voidcn.com/article/p-qyltseeo-ry.html

目的: 这篇文章的主要目的是要给你一个想法如何做放大境效果。

在 unity 中可以简单的实现放大镜效果啊. 那么现在就来一步一步实现这个:

创建一个摄像机对象,设置 projection 类型为 perspective 或者 orthographic.

设置相机的 orthographicSize 或者 fieldOfView (依赖于相机的 projection 类型).

设置其 pixelrect . 例如如果您想要在你鼠标位置显示放大境和其大小是 100 x 100 , 然后设置 pixelrect 为:

magnifyCamera.pixelRect = new Rect (Input.mousePosition.x - 100f / 2.0f, Input.mousePosition.y

Contents

1.1

9 }

}

function Shake(){

10

11

19 20 function Update(){

if(shake_intensity > 0){

transform.rotation = Quaternion(

shake_intensity -= shake_decay;

originPosition = transform.position; originRotation = transform.rotation;

Camera 相关

Camera Shake in Unity

```
下面的 C# 脚本将创建一个 MagnifyGlass, 并将它移动到 mousePosition 位置。
   MagnifyGlass 脚本:添加到一个空的游戏对象。
   using UnityEngine;
   using System.Collections;
   public class MagnifyGlass : MonoBehaviour {
       private Camera magnifyCamera;
       private GameObject magnifyBorders;
       private LineRenderer LeftBorder, RightBorder, TopBorder, BottomBorder; // Reference fo
       private float MGOX, MGOY; // Magnify Glass Origin X and Y position
       private float MGWidth = Screen.width/5f, MGHeight = Screen.width/5f; // Magnify glass
       private Vector3 mousePos;
10
       void Start () {
12
           createMagnifyGlass ();
       }
14
       void Update () {
    // Following lines set the camera's pixelRect and camera position at mouse position
           magnifyCamera.pixelRect = new Rect (Input.mousePosition.x - MGWidth / 2.0f, Input.
           mousePos = getWorldPosition (Input.mousePosition);
           magnifyCamera.transform.position = mousePos;
           mousePos.z = 0;
           magnifyBorders.transform.position = mousePos;
       }
23
24
   // Following method creates MagnifyGlass
25
       private void createMagnifyGlass() {
26
           GameObject camera = new GameObject("MagnifyCamera");
27
           MGOX = Screen.width / 2f - MGWidth/2f;
           MGOY = Screen.height / 2f - MGHeight/2f;
29
           magnifyCamera = camera.AddComponent<Camera>();
           magnifyCamera.pixelRect = new Rect(MGOX, MGOY, MGWidth, MGHeight);
           magnifyCamera.transform.position = new Vector3(0,0,0);
           if (Camera.main.isOrthoGraphic) {
               magnifyCamera.orthographic = true;
               magnifyCamera.orthographicSize = Camera.main.orthographicSize / 5.0f;//+ 1.0f;
               createBordersForMagniyGlass ();
           } else {
               magnifyCamera.orthographic = false;
38
               magnifyCamera.fieldOfView = Camera.main.fieldOfView / 10.0f;//3.0f;
           }
40
       }
41
42
   // Following method sets border of MagnifyGlass
43
   private void createBordersForMagniyGlass() {
44
   magnifyBorders = new GameObject ();
45
   LeftBorder = getLine ();
46
   LeftBorder.SetVertexCount(2);
   LeftBorder.SetPosition(0,
                           new Vector3(getWorldPosition(new Vector3(MGOX,MGOY,0)).x,
                                       getWorldPosition(new Vector3(MGOX,MGOY,0)).y-0.1f,
                                       -1));
   LeftBorder.SetPosition(1,
52
                           new Vector3(getWorldPosition(new Vector3(MGOX,MGOY+MGHeight,0)).x,
```

• 设置相机的位置。例如如果你想在你的鼠标位置显示放大镜效果,那么设置相机的位置为 mousePosition 世

界点。

```
-1)):
55
    LeftBorder.transform.parent = magnifyBorders.transform;
    TopBorder = getLine ();
    TopBorder.SetVertexCount(2);
    TopBorder.SetPosition(0,
                           new Vector3(getWorldPosition(new Vector3(MGOX,MGOY+MGHeight,0)).x,
                                        getWorldPosition(new Vector3(MGOX,MGOY+MGHeight,0)).y,
61
                                        -1));
62
    TopBorder.SetPosition(1,
63
                       new Vector3(getWorldPosition(new Vector3(MGOX+MGWidth,MGOY+MGHeight,0)).
64
                               getWorldPosition(new Vector3(MGOX+MGWidth,MGOY+MGHeight,0)).y,
65
                               -1));
66
    TopBorder.transform.parent = magnifyBorders.transform;
67
    RightBorder = getLine ();
68
    RightBorder.SetVertexCount(2);
69
    RightBorder.SetPosition(0,
70
                     new Vector3(getWorldPosition(new Vector3(MGOX+MGWidth,MGOY+MGWidth,0)).x,
71
                            getWorldPosition(new Vector3(MGOX+MGWidth,MGOY+MGWidth,0)).y+0.1f,
72
                                          -1));
73
    RightBorder.SetPosition(1,
74
                           new Vector3(getWorldPosition(new Vector3(MGOX+MGWidth,MGOY,0)).x,
                                      getWorldPosition(new Vector3(MGOX+MGWidth, MGOY, 0)).y-0.1f,
                                          -1));
77
    RightBorder.transform.parent = magnifyBorders.transform;
78
    BottomBorder = getLine ();
79
    BottomBorder.SetVertexCount(2);
80
    BottomBorder.SetPosition(0,
81
                              new Vector3(getWorldPosition(new Vector3(MGOX+MGWidth,MGOY,0)).x,
82
                                           getWorldPosition(new Vector3(MGOX+MGWidth,MGOY,0)).y,
83
                                           -1));
84
    BottomBorder.SetPosition(1,
85
                              new Vector3(getWorldPosition(new Vector3(MGOX,MGOY,0)).x,
86
                                           getWorldPosition(new Vector3(MGOX,MGOY,0)).y,
87
                                           -1)):
    BottomBorder.transform.parent = magnifyBorders.transform;
89
    }
90
    // Following method creates new line for MagnifyGlass's border
        private LineRenderer getLine() {
93
            LineRenderer line = new GameObject("Line").AddComponent<LineRenderer>();
            line.material = new Material(Shader.Find("Diffuse"));
95
            line.SetVertexCount(2);
96
            line.SetWidth(0.2f, 0.2f);
97
            line.SetColors(Color.black,
                                           Color.black);
            line.useWorldSpace = false;
99
            return line;
100
        }
101
        private void setLine(LineRenderer line) {
102
            line.material = new Material(Shader.Find("Diffuse"));
103
            line.SetVertexCount(2);
104
            line.SetWidth(0.2f, 0.2f);
            line.SetColors(Color.black, Color.black);
            line.useWorldSpace = false;
        }
109
    // Following method calculates world's point from screen point as per camera's projection
110
```

public Vector3 getWorldPosition(Vector3 screenPos) {

111

getWorldPosition(new Vector3(MGOX,MGOY+MGHeight,0)).y+0.1f,

```
Vector3 worldPos;
112
             if(Camera.main.isOrthoGraphic) {
113
                 worldPos = Camera.main.ScreenToWorldPoint (screenPos);
                 worldPos.z = Camera.main.transform.position.z;
             } else {
                 worldPos = Camera.main.ScreenToWorldPoint (new Vector3 (screenPos.x, screenPos
                 worldPos.x *= -1;
                 worldPos.y *= -1;
119
             }
120
             return worldPos;
121
        }
122
    }
123
```

- 1.3 Unity 3D- 摄像机 Clear Flags 和 Culling Mask 属性用途详解
 - http://www.voidcn.com/article/p-pwbltogg-pu.html
- 1.4 [Unity 基础] 对 Camera 组件属性的一些理解
 - http://www.voidcn.com/article/p-gtfuejmb-uz.html
- 1.5 Unity 的 camera 组件
 - http://www.voidcn.com/article/p-mcxkifby-cb.html
- 1.6 unity Camera 属性详解
 - http://www.voidcn.com/article/p-enwwkrfr-hh.html
- 1.7