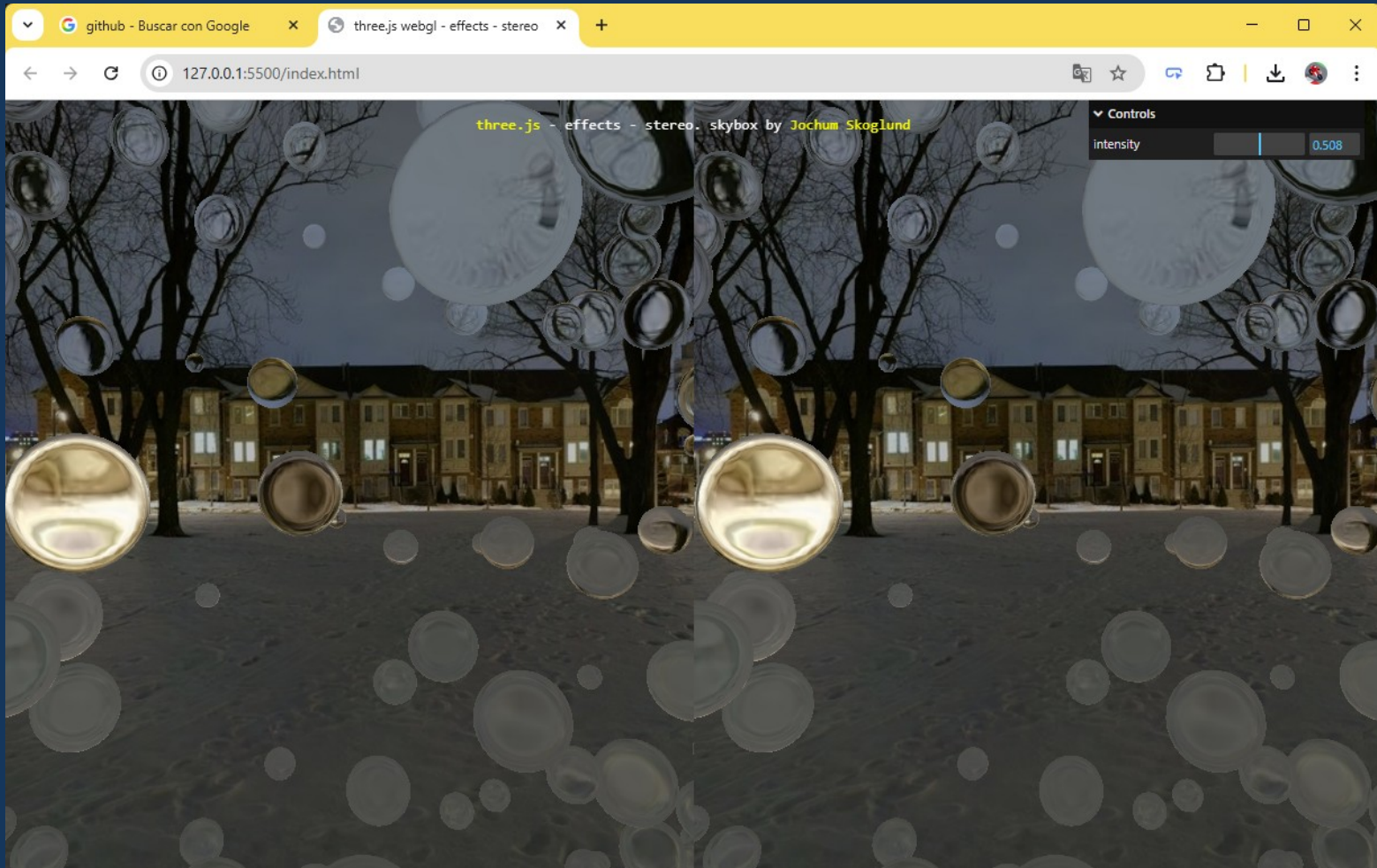


Programa Stereo

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Stereo

Index.html



index.html

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File Edit Selection View Go Run ... Stereo

EXPLORER

- STEREO
- build
- jsm
- models
- textures
- files.json
- index.html
- main.css
- tags.json

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>three.js webgl - effects - stereo</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, user-scalable=no, minimum-scale=1, maximum-scale=1">
    <link type="text/css" rel="stylesheet" href="main.css">
  </head>
  <body>
    <div id="info">
      <a href="https://threejs.org" target="_blank" rel="noopener">three.js</a> - effects
    </div>

    <script type="importmap">
      {
        "imports": {
          "three": "../build/three.module.js",
          "three/addons/": "./jsm/"
        }
      }
    </script>

    <script type="module">

      import * as THREE from 'three';

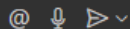
      import { StereoEffect } from 'three/addons/effects/StereoEffect.js';
      import { GUI } from 'three/addons/libs/lil-gui.module.min.js';
      import { OrbitControls } from 'three/addons/controls/OrbitControls.js';
```



Welcome to
Copilot

Let's get started

Ask Copilot



Build workspace

Show project config

Review AI output carefully
before use.

index.html



Index.html

```
33 let container, camera, scene, renderer, effect;
34 let controls;
35
36 const spheres = [];
37
38
39 let windowHalfX = window.innerWidth / 2;
40 let windowHalfY = window.innerHeight / 2;
41
42
43
44 init();
45
```

index.html



Index.html

```
46 function init() {
47
48     container = document.createElement( 'div' );
49     document.body.appendChild( container );
50
51     camera = new THREE.PerspectiveCamera( 60, window.innerWidth / window.innerHeight, 1, 100000 );
52     camera.position.z = 3200;
53
54     scene = new THREE.Scene();
55     scene.background = new THREE.CubeTextureLoader()
56         .setPath( 'textures/cube/Park3Med/' )
57         .load( [ 'px.jpg', 'nx.jpg', 'py.jpg', 'ny.jpg', 'pz.jpg', 'nz.jpg' ] );
58
59     const geometry = new THREE.SphereGeometry( 100, 32, 16 );
60
61     const textureCube = new THREE.CubeTextureLoader()
62         .setPath( 'textures/cube/Park3Med/' )
63         .load( [ 'px.jpg', 'nx.jpg', 'py.jpg', 'ny.jpg', 'pz.jpg', 'nz.jpg' ] );
64     textureCube.mapping = THREE.CubeRefractionMapping;
65
66     const material = new THREE.MeshBasicMaterial( { color: 0xffffff, envMap: textureCube, refractionRatio: 0.95 } );
67
68     for ( let i = 0; i < 500; i ++ ) {
69
70         const mesh = new THREE.Mesh( geometry, material );
71         mesh.position.x = Math.random() * 10000 - 5000;
72         mesh.position.y = Math.random() * 10000 - 5000;
73         mesh.position.z = Math.random() * 10000 - 5000;
74         mesh.scale.x = mesh.scale.y = mesh.scale.z = Math.random() * 3 + 1;
75         scene.add( mesh );
76
77         spheres.push( mesh );
78
79     }
80 }
```

index.html



Index.html

```
81 //
82
83 renderer = new THREE.WebGLRenderer();
84 renderer.setPixelRatio( window.devicePixelRatio );
85 renderer.setAnimationLoop( animate );
86 container.appendChild( renderer.domElement );
87
88 controls = new OrbitControls( camera, renderer.domElement );
89 controls.autoRotate = true;
90 controls.rotateSpeed = - 0.125; // negative, to track mouse pointer
91 controls.autoRotateSpeed = 1.0;
92 controls.panSpeed = 0.25;
93
94
95 effect = new StereoEffect( renderer );
96 effect.setSize( window.innerWidth, window.innerHeight );
97
98 //
99
100 window.addEventListener( 'resize', onWindowResize );
101
102 }
```

index.html



Index.html

```
104 function onWindowResize() {
105
106     windowHalfX = window.innerWidth / 2;
107     windowHalfY = window.innerHeight / 2;
108
109     camera.aspect = window.innerWidth / window.innerHeight;
110     camera.updateProjectionMatrix();
111
112     effect.setSize( window.innerWidth, window.innerHeight );
113
114 }
115 function render() {
116
117     controls.update();
118
119     renderer.render( scene, camera );
120
121 }
122
123
124
```

index.html

```
125 //
126
127 function animate() {
128
129     const timer = 0.0001 * Date.now();
130
131     camera.lookAt( scene.position );
132
133     for ( let i = 0, il = spheres.length; i < il; i ++ ) {
134
135         const sphere = spheres[ i ];
136
137         sphere.position.x = 5000 * Math.cos( timer + i );
138         sphere.position.y = 5000 * Math.sin( timer + i * 1.1 );
139
140     }
141
142
143     effect.render( scene, camera );
144
145
146 }
147 const gui = new GUI();
148
149 const params = {
150     intensity: 1.0,
151 };
152 gui.add( params, 'intensity', 0, 1 ).onChange( function ( value ) {
153
154     scene.backgroundIntensity = value;
155     render();
156
157 } );
158
159
```


index.html

 Index.html

```
160     </script>
161
162     </body>
163 </html>
```

Referencias Bibliográficas