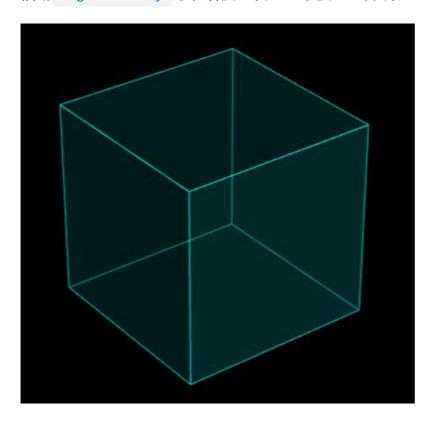
▼ 17. 模型边界线EdgesGeometry

借助 EdgesGeometry 可以给模型设置一个模型边界线。



长方体边线

先用 EdgesGeometry 重新计算长方体几何体,返回一个新的几何体,然后用线模型 LineSegments 模型渲染新的几何体即可。

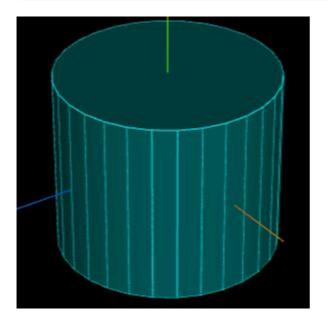
```
const geometry = new THREE.BoxGeometry(50, 50, 50);
const material = new THREE.MeshLambertMaterial({
    color: 0x004444,
    transparent:true,
    opacity:0.5,
});
const mesh = new THREE.Mesh(geometry, material);

// 长方体作为EdgesGeometry参数创建一个新的几何体
const edges = new THREE.EdgesGeometry(geometry);
const edgesMaterial = new THREE.LineBasicMaterial({
```

```
color: 0x00ffff,
})
const line = new THREE.LineSegments(edges, edgesMaterial);
mesh.add(line);
```

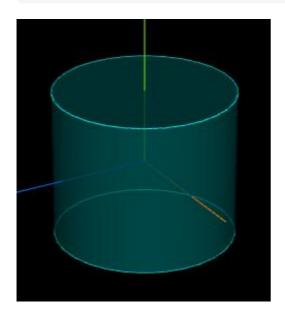
圆柱边线

```
const geometry = new THREE.CylinderGeometry(60, 60, 100, 30);
const edges = new THREE.EdgesGeometry(geometry);
```

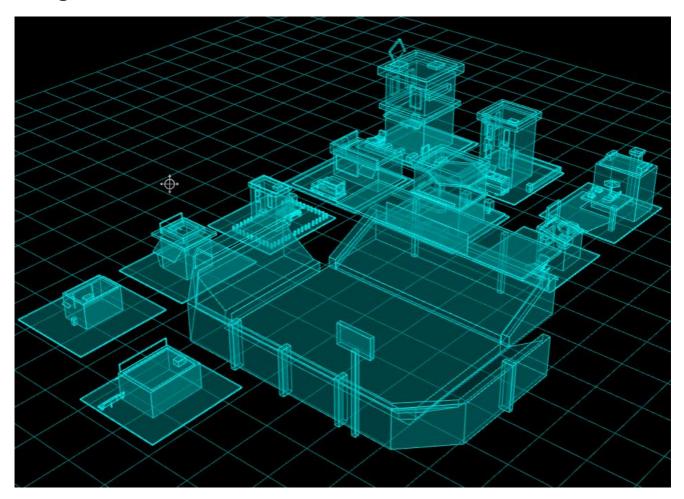


相邻面法线夹角大于30度,才会显示线条

```
const edges = new THREE.EdgesGeometry(geometry,30);
```



外部gltf模型设置材质和边线



```
loader.load("../建筑模型.gltf", function (gltf) {
   // 递归遍历设置每个模型的材质,同时设置每个模型的边线
   gltf.scene.traverse(function (obj) {
       if (obj.isMesh) {
           // 模型材质重新设置
           obj.material = new THREE.MeshLambertMaterial({
               color: 0x004444,
               transparent: true,
               opacity: 0.5,
           });
           // 模型边线设置
           const edges = new THREE.EdgesGeometry(obj.geometry);
           const edgesMaterial = new THREE.LineBasicMaterial({
               color: 0x00ffff,
           })
           const line = new THREE.LineSegments(edges, edgesMaterial);
           obj.add(line);
```

```
});
model.add(gltf.scene);
})
```

← 16. 多边形Shape(内孔.holes)

18. 几何体顶点颜色数数据→

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