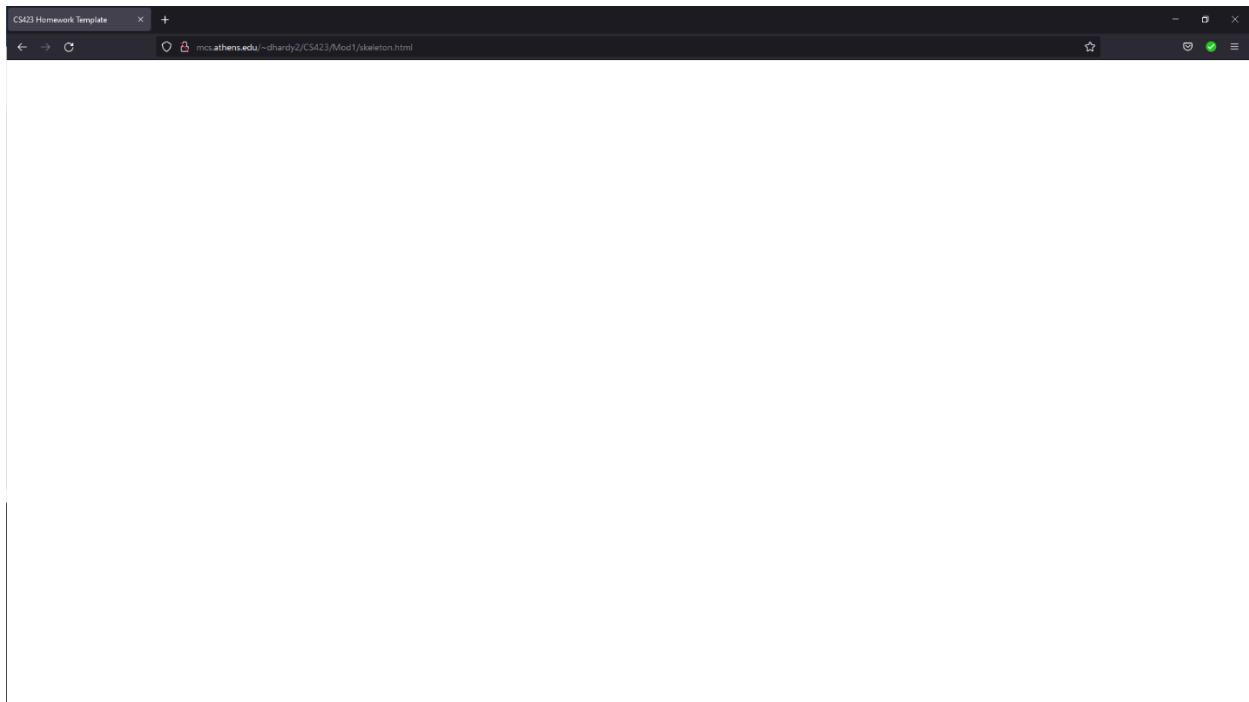


Devin Hardy

00076619

CS423

Skeleton



```
<!DOCTYPE html>
```

```
<HTML>
```

```
  <HEAD>
```

```
    <TITLE>CS423 Homework Template</TITLE>
```

```
    <SCRIPT
```

```
      TYPE="text/javascript"
```

```
      SRC="../libs/three.js">
```

```
  </SCRIPT>
```

```
  <STYLE>
```

```
    body {
```

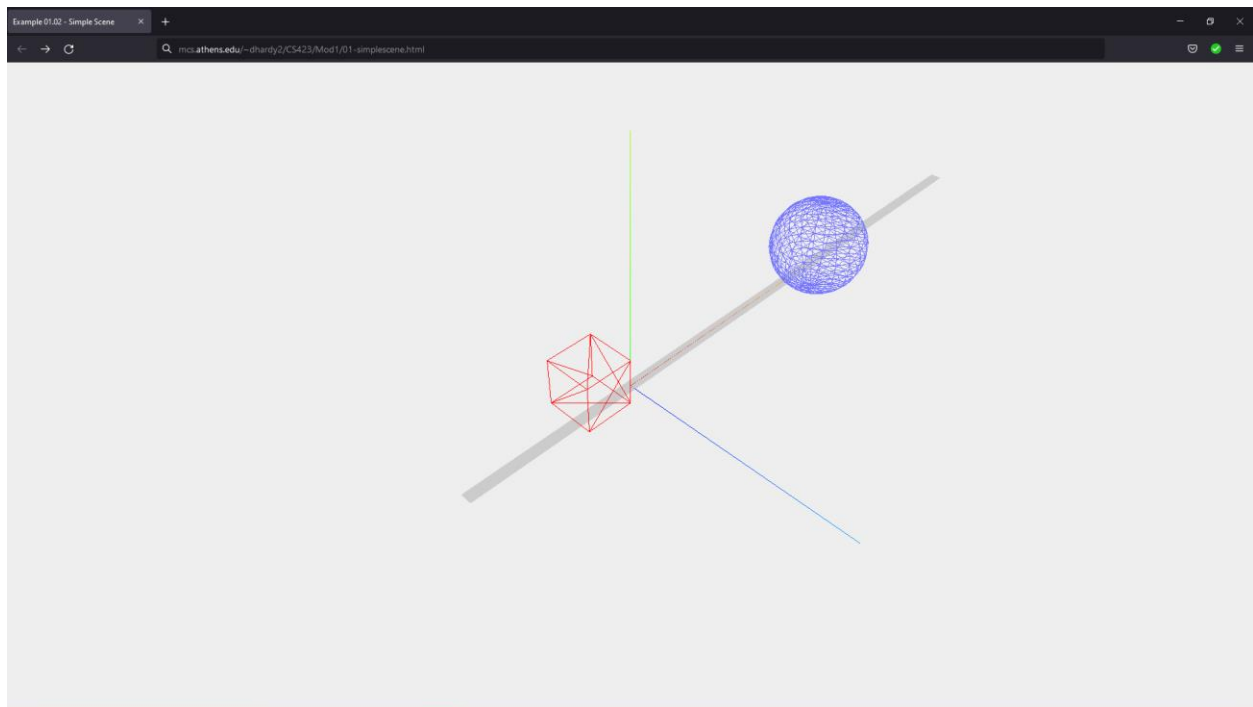
```
      margin: 0;
```

```
      overflow: hidden;
```

```
    }
```

```
</STYLE>
</HEAD>
<BODY>
  <DIV ID="WebGL-output">
  </DIV>
  <!-- Scripts that we use for running things -->
  <SCRIPT TYPE="text/javascript">
    // Put the bulk of what we do in the onload handler
    // for the window.
    function init() {
    // Put Three.js stuff here.
    }
    window.onload = init
  </SCRIPT>
</BODY>
</HTML>
```

Simple Scene



```
<!DOCTYPE html>

<!--File: 01-simplescene.html -->

<html>

  <head>

    <title> Example 01.02 - Simple Scene </title>

    <script

      TYPE ="text/javascript"

      SRC=" ../libs/three.js">

    </script>

    <style>

      body {

        /* set margin to 0 and overflow to hidden, to go fullscreen */

        margin: 0;

        overflow: hidden;

      }

    </style>
```

```
</head>

<body>
  <div id="Stats-output"></div>
  <!--Div which will hold the Output -->
  <DIV id="WebGL-output"></DIV>
  <!-- Javascript code that runs our Three.js examples -->
  <script type="text/javascript" SRC="./01-simplescene.js"></script>
</body>
</html>
```

```
//
// File: 01-simplescene.js
// Purpose:
// Demo some of the basics of working wit the scenegraph.
// This is an extension of code from the Learning Three.js textbook
// once everything is loaded, we run our Three.js stuff
function init() {
  var scene = new THREE.Scene();
  var extent = window.innerWidth / window.innerHeight;
  var camera = new THREE.PerspectiveCamera(45, extent, 0.1, 1000);
  var renderer = new THREE.WebGLRenderer();
  renderer.setClearColor(0xEEEEEE,1.0);
  renderer.setSize(window.innerWidth,window.innerHeight);

  // Drop a axis set into the scene
  var axes = new THREE.AxisHelper(20);
  scene.add(axes);
```

```
// Let's add a base plane upon which we place objects.

var planeGeometry = new THREE.PlaneGeometry(60,20);
var planeMaterial = new THREE.MeshBasicMaterial({color:0xCCCCCC});
var plane = new THREE.Mesh(planeGeometry, planeMaterial);
plane.rotation.x = -0.5 * Math.PI;
plane.position.x = 15;
plane.position.y = 0;
plane.position.z = 0;
scene.add(plane);


// Add a cube
var cubeGeometry = new THREE.BoxGeometry(4,4,4);
var cubeMaterial = new THREE.MeshBasicMaterial({color: 0xFF0000, wireframe: true});
var cube = new THREE.Mesh(cubeGeometry, cubeMaterial);
cube.position.x = -4;
cube.position.y = 3;
cube.position.z = 0;
scene.add(cube);


// Add a sphere
var sphereGeometry = new THREE.SphereGeometry(4, 20, 20);
var sphereMaterial = new THREE.MeshBasicMaterial({color: 0x7777ff, wireframe: true});
var sphere = new THREE.Mesh(sphereGeometry, sphereMaterial);
sphere.position.x = 20;
sphere.position.y = 4;
sphere.position.z = 2;
scene.add(sphere);


//Need to tell Three.js the point from where we're viewing the scene
camera.position.x = -30;
```

```
camera.position.y = 40;
camera.position.z = 30;
camera.lookAt(scene.position);
//Now update the page by attaching the renderer to appropriate place in the
// HTML DOM for a page and then tell the renderer to render the scene
document.getElementById("WebGL-output").appendChild(renderer.domElement);
renderer.render(scene,camera);

}

window.onload = init;
```

Files not included three.js