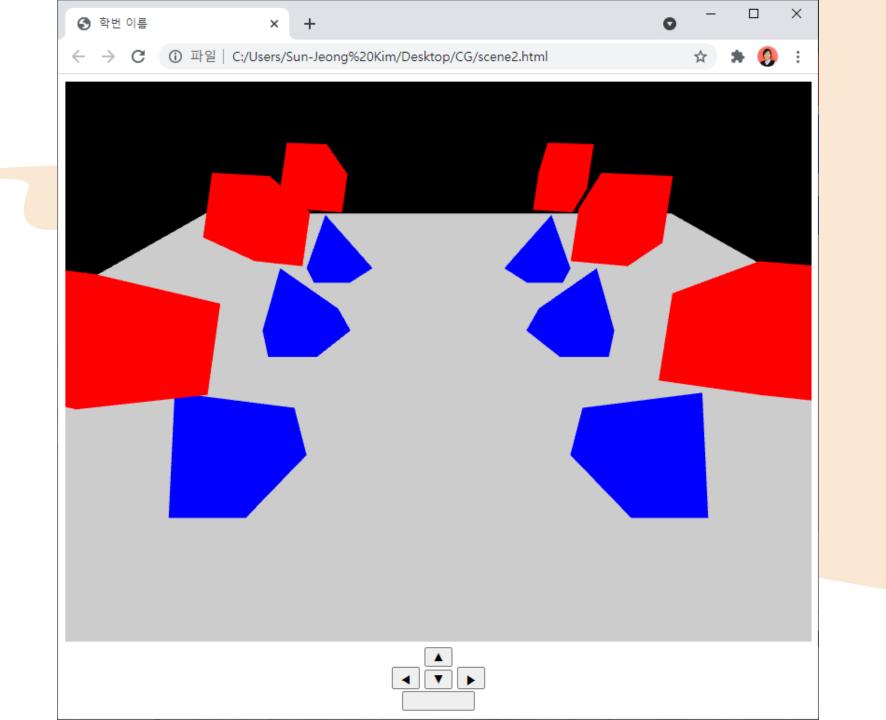
# Building a Scene with Texture Mapping

14<sup>TH</sup> WEEK, 2021





## **Multiple** Shaders

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Edit Selection View Go Run Terminal Help
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                                                                                                                                                                                <script id="colorFS" type="x-shader/x-fragment">
                                                                                   15
                                                                                                                                                                                                                       precision mediump float;
                                                                                   16
                                                                                   17
                                                                                                                                                                                                                       uniform vec4 uColor;
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                                                                                                                                                                                                                       void main() {
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                                                                                                                                                                                                                                                                gl_FragColor = uColor;
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X File Edit Selection View Go Run Terminal Help
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                                                                               25
                                                                                                                                                                         <script id="phongVS" type="x-shader/x-vertex">
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                                                                                                                                                                                                             attribute vec4 vPosition;
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                                                                                                                                                                                                            attribute vec4 vNormal:
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                                                                                                                                                                                                            uniform mat4 modelViewMatrix;
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                                                                                                                                                                                                            uniform mat4 projectionMatrix;
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                                                                                                                                                                                                             void main() {
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                                                                                                                                                                                                                                                     gl_Position = projectionMatrix * modelViewMatrix * vPosition;
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                                                                                                                                                                                                                                                  fNormal = (modelViewMatrix * vNormal).xyz;
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                                                                                  38
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                                                                                                                                                                         <script id="phongFS" type="x-shader/x-fragment">
                                                                                41
                                                                                                                                                                                                             precision mediump float;
                                                                                42
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                                                                                                                                                                                                            varying vec3 fNormal, fPosition;
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                                                                                                                                                                                                             uniform vec4 lightPos, ambientProduct, diffuseProduct, specularProduct;
                                                                                46
                                                                                                                                                                                                            uniform float shininess;
                                                                                47
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                                                                                                                                                                                                             void main() {
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                                                                                                                                                                                                                                                  vec3 N = normalize(fNormal);
                                                                                                                                                                                                                                                  vec3 L = normalize(lightPos.xyz);
                                                                                51
   (8)
                                                                                                                                                                                                                                                  float kd = max(dot(L, N), 0.0);
                                                                                52
                                                                                                                                                                                                                                                  vec4 diffuse = kd * diffuseProduct;
                                                                                53
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 vec3 V = normalize(fPosition); // origin: camera position
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                                                                                                                                                                                                                                                  vec3 H = normalize(L - V);
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                                                                                                                                                                                                                    float ks = pow(max(dot(N, H), 0.0), shininess);
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                                                                                                                                                                                                                    vec4 specular = ks * specularProduct;
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                                                                                                                                                                                                                                                                                                                                                                                                                           specular = vec4(0.0, 0.0, 0.0, 1.0);
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                                                                                                                                                                                                                     if (dot(L, N) < 0.0)
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                                                                                                                                                                                                                     gl_FragColor = ambientProduct + diffuse + specular;
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                                                                                                                                                                                                                     gl_FragColor.a = 1.0;
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                                                                                                                                                                                    attribute vec4 vPosition;
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                                                                                                                                                                                   attribute vec4 vNormal:
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                                                                       70
                                                                                                                                                                                   attribute vec2 vTexCoord;
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                                                                                                                                                                                   uniform mat4 modelViewMatrix;
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                                                                                                                                                                                   uniform mat4 projectionMatrix;
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                                                                                                                                                                                   varying vec3 fNormal, fPosition;
                                                                       75
                                                                                                                                                                                   varying vec2 fTexCoord;
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                                                                                                                                                                                   void main() {
                                                                                                                                                                                                                     gl_Position = projectionMatrix * modelViewMatrix * vPosition;
                                                                       79
                                                                       80
                                                                                                                                                                                                                    fNormal = (modelViewMatrix * vNormal).xyz;
                                                                       81
                                                                                                                                                                                                                    fPosition = (modelViewMatrix * vPosition).xyz;
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                                                                                                                                                                                                                    fTexCoord = vTexCoord;
    (8)
                                                                       85
                                                                                                                                                    </script>
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  <script id="texMapFS" type="x-shader/x-fragment">
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                                                                                                                                                                                    precision mediump float;
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⇔ scene2.html ×

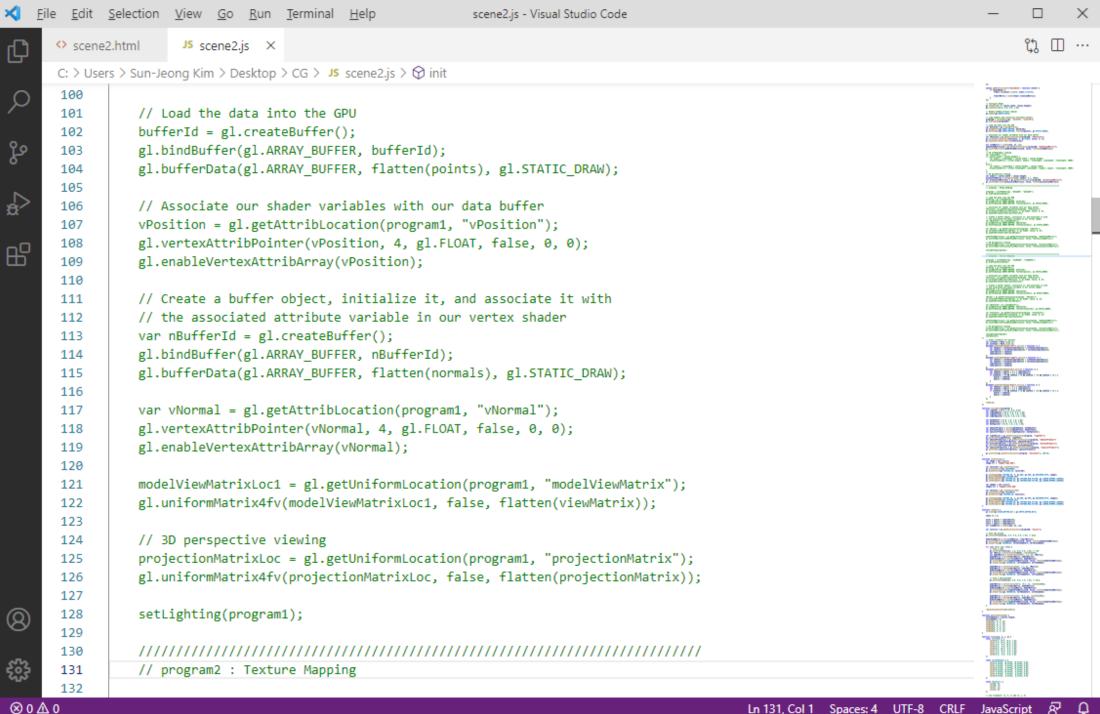
                                     C: > Users > Sun-Jeong Kim > Desktop > CG > ♦ scene2.html > ♦ html > ♦ head > ♦ title
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                                                                                                                      varying vec3 fNormal, fPosition;
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                                                                                                                     varying vec2 fTexCoord;
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                                                                                                                      uniform sampler2D texture;
                                              94
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                                                                                                                      uniform vec4 lightPos, ambientProduct, diffuseProduct, specularProduct;
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                                                                                                                      uniform float shininess;
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                                              98
                                                                                                                      void main() {
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                                                                                                                                            vec3 N = normalize(fNormal);
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                                        100
                                                                                                                                           vec3 L = normalize(lightPos.xyz);
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                                                                                                                                           float kd = max(dot(L, N), 0.0);
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                                                                                                                                           vec3 V = normalize(fPosition); // origin: camera position
                                        104
                                                                                                                                           vec3 H = normalize(L - V);
                                        105
                                                                                                                                           float ks = pow(max(dot(N, H), 0.0), shininess);
                                        106
                                                                                                                                           vec4 specular = ks * specularProduct;
                                        107
                                        108
                                                                                                                                                                                                                                                                               specular = vec4(0.0, 0.0, 0.0, 1.0);
                                        109
                                                                                                                                            if (dot(L, N) < 0.0)
                                        110
                                                                                                                                            gl FragColor = (ambientProduct + diffuse + specular) * texture2D(texture, fTexCoord);
                                        111
                                                                                                                                            gl FragColor.a = 1.0;
                                        112
                                        113
                                        114
                                                                                                 </script>
                                        115
                                                                                                 <script type="text/javascript" src="Common/webgl-utils.js"></script>
                                        116
                                                                                                 <script type="text/javascript" src="Common/initShaders.js"></script>
                                        117
                                                                                                <script type="text/javascript" src="Common/MV.js"></script>
 (8)
                                        118
                                                                                                <script type="text/javascript" src="trackball.js"></script>
                                        119
                                                                                                <script type="text/javascript" src="scene2.js"></script>
                                        120
121
                                                                          </head>
                                        122
                                                                                                 <body>
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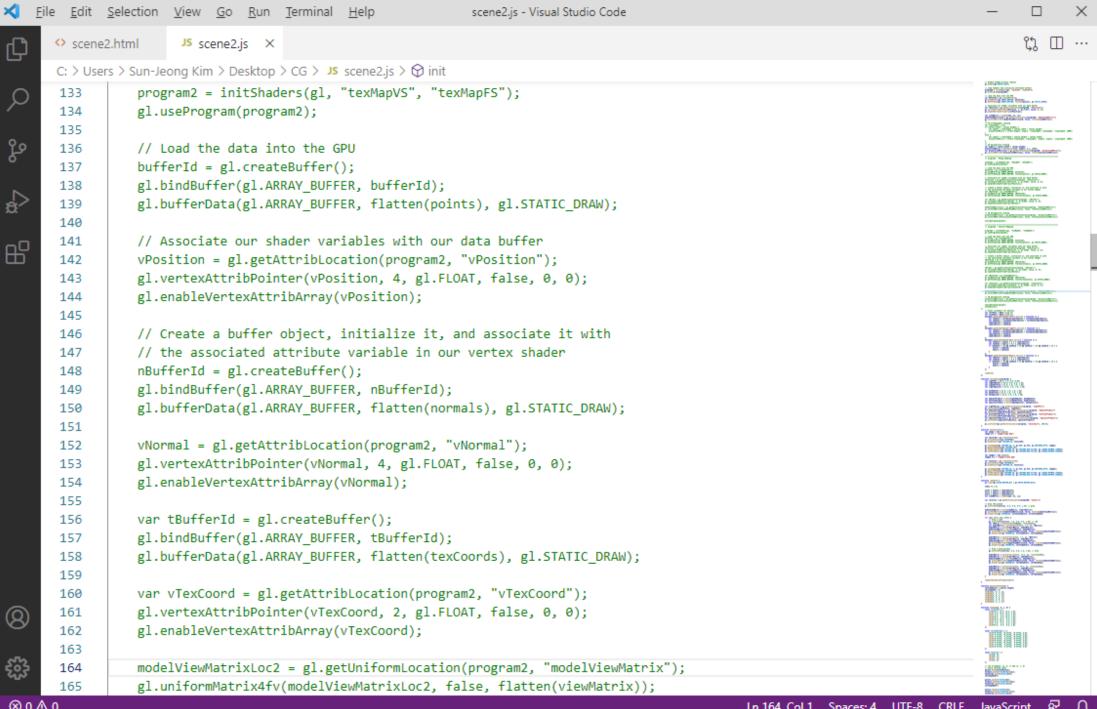
<u>File Edit Selection View Go Run Terminal Help</u> scene2.html - Visual Studio Code X D □ … scene2.html X JS scene2.js C: > Users > Sun-Jeong Kim > Desktop > CG > ♦ scene2.html > ♦ html > ♦ head > ♦ title <canvas id="gl-canvas" width="800" height="600"> Invier. Q 123 "Village - processors - one Oops... your browser doesn't support the HTML5 canvas element! 124 Partie Water Visc. "A State of the same </canvas><br> 125 CONTROL OF STATE OF S مع <div style="width:800px; text-align:center;"> 126 Partie May Van <button id="up">A</button><br> 127 SSE OF ACT AND PARTY PARTY STATES STATE OF <button id="left"><</button> 128 BURNESS CO. **₽** POSSEST LANGUAGES - SAME - SECONDARY AND AND ADDRESS OF THE PARTY AND A <button id="down">▼</button> 129 BH HAC <button id="right">▶</button><br> 130 DESIGNATION OF THE RESIDENCE OF T "ZSEA" - parameter - managera - m <button id="space"> &nbsp; 131 留 Marine Co. </div> 132 HELDON ON A <div> 133 SUPPLIE STATE OF THE PARTY <img src="images/logo.bmp" hidden> ECREE 1 LANGUAGE - SAME - SECOND - SAME A SECOND STATE - SECOND STATE - STATE - SECOND STATE - S 134 <img src="images/monalisa.bmp" hidden> 135 No. of the last of the same <img src="images/crate.bmp" hidden> 136 STEWARTS-137 </div> </body> 138 </html> 139 (8) 

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X File Edit Selection View Go Run Terminal Help
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              V/505
                                                                                                                                                                                                                                                           var points = [];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                E Waller Stranger and Control of Control
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A STATE OF THE PARTY.
                                                                                                                                                                                                                                                              var normals = [];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SHEKE-
              စ္ခ
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                                                                                                                                                                                                                                                                var texCoords = [];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The second later the later
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, where the Owner, where the Owner, where the Owner, which is the Owner, which i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             William Co.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // [program1] Phong shading, [program2] Texture Mapping
                                                                                                                                                                                                                                                                var program0, program1, program2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A CONTRACTOR OF THE PARTY OF TH
    ₽
                                                                                                                                                                                                                                                                var modelViewMatrixLoc0, modelViewMatrixLoc1, modelViewMatrixLoc2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MATERIAL PROPERTY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MANAGE TO SERVICE AND ADDRESS OF THE PARTY O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          THE RESERVE OF THE PERSON NAMED IN
                                                                                                                                                                               8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WENCH WAS
                                                                                                                                                                               9
                                                                                                                                                                                                                                                              var eye = vec3(0, 3, 3);
  品
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AND STREET STREET, STR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HELDER WALL
                                                                                                                                                                                                                                                              var at = vec3(0, 0, 0);
                                                                                                                                                             10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROPERTY AND ADDRESS.
                                                                                                                                                             11
                                                                                                                                                                                                                                                                const up = vec3(0, 1, 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1000915 .....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HEATHER WATER
                                                                                                                                                                                                                                                              var cameraVec = vec3(0, -0.7071, -0.7071); // 1.0/Math.sqrt(2.0)
                                                                                                                                                             12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          THE RESERVED TO STATE OF THE PARTY OF THE PA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ARMERICAN ACT.
                                                                                                                                                           13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PROBLEM LANGUAGE CONTRACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MENTAL PROPERTY AND ADDRESS.
                                                                                                                                                                                                                                                              var theta = 0;
                                                                                                                                                             14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IAKIRK .....
                                                                                                                                                                                                                                                              var trballMatrix = mat4(1, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1);
                                                                                                                                                             15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HEATHER WAY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          THE RESERVED
                                                                                                                                                                                                                                                              var vertCubeStart, vertCubeEnd, vertHexaStart, vertHexaEnd, vertGroundStart, vertGroundEnd;
                                                                                                                                                             16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          THE RESERVE OF THE PARTY OF THE
                                                                                                                                                             17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CONTRACTOR STREET, CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPARED TAXABLE SELECT
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                                                                                                                                                                                                                                                              window.onload = function init()
                                                                                                                                                             18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MENTAL PROPERTY OF THE PARTY OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE OF STREET, STREE
                                                                                                                                                             19
                                                                                                                                                                                                                                                                                                                                          var canvas = document.getElementById("gl-canvas");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOT INCHES PROPERTY
                                                                                                                                                                20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tangan eva.
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                                                                                                                                                                                                                                                                                                                                          gl = WebGLUtils.setupWebGL(canvas);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Electric Color
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                                                                                                                                                                                                                                                                                                                                                                                                                         alert("WebGL isn't available!");
                                                                                                                                                                24
                                                                                                                                                                25
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                                                                                                                                                                27
                                                                                                                                                                                                                                                                                                                                          generateTexCube();
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                                                                                                                                                                                                                                                                                                                                          generateHexaPyramid();
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                                                                                                                                                                                                                                                                                                                                          generateTexGround(10);
       (8)
                                                                                                                                                                29
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                                                                                                                                                                30
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                                                                                                                                                             31
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    総
                                                                                                                                                                                                                                                                                                                                        var trball = trackball(canvas.width, canvas.height);
                                                                                                                                                                32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      F- 18.7%
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                                                                                                                                                                                                                                                                                                                                        var mouseDown = false;
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X File Edit Selection View Go Run Terminal Help
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                                                                                                                                                                                                                                                                                                                                             JS scene2.js X
                                                                                                    scene2.html
                                                                                                    C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ♦ init
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E Millio smar sanar sana sanar, .......
                                                                                                                         34
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                                                                                                                           35
                                                                                                                                                                                                                                                              canvas.addEventListener("mousedown", function (event) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EI EI EI
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                                                                                                                                                                                                                                                                                                                     trball.start(event.clientX, event.clientY);
                                                                                                                           36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Table 1 to 1
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                                                                                                                           37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A STATE OF THE PARTY OF THE PAR
                                                                                                                                                                                                                                                                                                                     mouseDown = true;
                                                                                                                           38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRESIDENCE.
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                                                                                                                           39
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          printed the service manufacture
                                                                                                                           40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WESTERNAME
                                                                                                                                                                                                                                                                canvas.addEventListener("mouseup", function (event) {
                                                                                                                           41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PLEASURE THE STREET LAND THE COLUMN TWO
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                                                                                                                                                                                                                                                                                                                     mouseDown = false;
                                                                                                                         42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Francisco Constitution (Constitution Constitution Constit
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                                                                                                                                                                                                                                                            });
                                                                                                                         43
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      THE RESERVE
                                                                                                                           44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CARAGOGICAN AND
                                                                                                                           45
                                                                                                                                                                                                                                                              canvas.addEventListener("mousemove", function (event) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Millio Descurere successor
                                                                                                                                                                                                                                                                                                                     if (mouseDown) {
                                                                                                                           46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MARGON ....
                                                                                                                                                                                                                                                                                                                                                                               trball.end(event.clientX, event.clientY);
                                                                                                                           47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HEADSHIP WATER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        THE SECTION OF THE SE
                                                                                                                           48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The State of the S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CONTRACTOR STREET, STR
                                                                                                                                                                                                                                                                                                                                                                              trballMatrix = mat4(trball.rotationMatrix);
                                                                                                                           49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPARED TAXABLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DESCRIPTION OF STREET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MENTERON CO., CO.
                                                                                                                           50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PARTY OF THE PARTY OF THE PARTY.
                                                                                                                                                                                                                                                              });
                                                                                                                           51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lot of the states
                                                                                                                           52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          THE NAME ....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tall of the second
                                                                                                                                                                                                                                                              // Configure WebGL
                                                                                                                           53
                                                                                                                                                                                                                                                              gl.viewport(0, 0, canvas.width, canvas.height);
                                                                                                                           54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Edward Color
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ・ 国際国人以及以及以及
                                                                                                                                                                                                                                                              gl.clearColor(0.0, 0.0, 0.0, 1.0);
                                                                                                                           55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COLUMBER VICE
                                                                                                                           56
                                                                                                                                                                                                                                                            // Enable hidden-surface removal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Edition ...
                                                                                                                           57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contraction ....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gl.enable(gl.DEPTH TEST);
                                                                                                                           58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACT I SHARE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Company ....
                                                                                                                           59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        I STATE OF THE PARTY OF THE PAR
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                                                                                                                                                                                                                                                            // Load shaders and initialize attribute buffers
                                                                                                                           60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PLUM MERC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        E STATE OF THE PARTY OF THE PARTY OF
                                                                                                                                                                                                                                                              program0 = initShaders(gl, "colorVS", "colorFS");
                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The second second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   H DON'T
     (8)
                                                                                                                                                                                                                                                              gl.useProgram(program0);
                                                                                                                         62
                                                                                                                         63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 THE REAL PROPERTY.
                                                                                                                         64
                                                                                                                                                                                                                                                                // Load the data into the GPU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               THE STATE OF THE S
 錢
                                                                                                                                                                                                                                                            var bufferId = gl.createBuffer();
                                                                                                                         65
                                                                                                                                                                                                                                                              gl.bindBuffer(gl.ARRAY_BUFFER, bufferId);
           ⊗ 0 ∆ 0
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X File Edit Selection View Go Run Terminal Help
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       scene2.js - Visual Studio Code
   D
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                                                                                                                                                                                                                                 JS scene2.js X
                                                                   scene2.html
                                                                   C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ♥ init
                                                                                                                                                                             gl.bufferData(gl.ARRAY BUFFER, flatten(points), gl.STATIC DRAW);
      Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The second second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE RESIDENCE OF THE PARTY OF
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                                                                                   68
                                                                                                                                                                             // Associate our shader variables with our data buffer
                                                                                   69
     وع
                                                                                                                                                                           var vPosition = gl.getAttribLocation(program0, "vPosition");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HATTING THE THE
                                                                                  70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MANAGEM ....
                                                                                                                                                                           gl.vertexAttribPointer(vPosition, 4, gl.FLOAT, false, 0, 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE VEHICLE OF THE
                                                                                   71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              production of the same of the same of
                                                                                                                                                                           gl.enableVertexAttribArray(vPosition);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WE SHOW IN THE CO.
                                                                                  72
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                                                                                   73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDICAL PROPERTY.
                                                                                                                                                                           var viewMatrix = lookAt(eye, at, up);
                                                                                   74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1500 BE .....
                                                                                                                                                                           modelViewMatrixLoc0 = gl.getUniformLocation(program0, "modelViewMatrix");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATISTICS.
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                                                                                                                                                                           gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(viewMatrix));
                                                                                   76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CARL METERS CO. L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PROBLEM LANGUAGE CONTRACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MENTEROPERATE AND A
                                                                                   77
                                                                                   78
                                                                                                                                                                           // 3D orthographic viewing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1000015 .....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PERSONAL PROPERTY.
                                                                                                                                                                           var viewLength = 2.0;
                                                                                   79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PHILIPPE STATE OF THE PARTY OF 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            THE RESERVE THE PARTY OF THE PA
                                                                                                                                                                           if (canvas.width > canvas.height) {
                                                                                   80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CARL WHITE THE PARTY OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET, STREET
                                                                                                                                                                                                                 var aspect = viewLength * canvas.width / canvas.height;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PROBLEM LANGUAGE STREET
                                                                                   81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MENTAGE CONTRACTOR
                                                                                                                                                                                                                   projectionMatrix = ortho(-aspect, aspect, -viewLength, viewLength, -viewLength, 1000);
                                                                                   82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            THE CHARLEST STREET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lat inches deben
                                                                                   83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tarrey Constitution
                                                                                   84
                                                                                                                                                                              else {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Top of Market
                                                                                   85
                                                                                                                                                                                                                 var aspect = viewLength * canvas.height / canvas.width;
                                                                                                                                                                                                                   projectionMatrix = ortho(-viewLength, viewLength, -aspect, aspect, -viewLength, 1000);
                                                                                   86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ・ 開発性が大大大大大
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DESCRIPTION.
                                                                                   87
                                                                                                                                                                              */
                                                                                   88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contraction ...
                                                                                                                                                                           // 3D perspective viewing
                                                                                   89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INTERNATION OF THE PARTY OF THE
                                                                                                                                                                           var aspect = canvas.width / canvas.height;
                                                                                   90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A STATE OF THE PARTY NAMED IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            projectionMatrix = perspective(90, aspect, 0.1, 1000);
                                                                                   91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The state of the s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FLUI BER. ..
                                                                                   92
                                                                                                                                                                           var projectionMatrixLoc = gl.getUniformLocation(program0, "projectionMatrix");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A STATE OF THE REAL PROPERTY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW
                                                                                                                                                                           gl.uniformMatrix4fv(projectionMatrixLoc, false, flatten(projectionMatrix));
                                                                                   93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94
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   (8)
                                                                                  95
                                                                                                                                                                             THE REAL PROPERTY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FL 18/30
                                                                                                                                                                           // program1 : Phong Shading
                                                                                   96
                                                                                  97
  総
                                                                                                                                                                             program1 = initShaders(gl, "phongVS", "phongFS");
                                                                                   98
                                                                                                                                                                           gl.useProgram(program1);
                                                                                   99
       ⊗ 0 ∆ 0
```





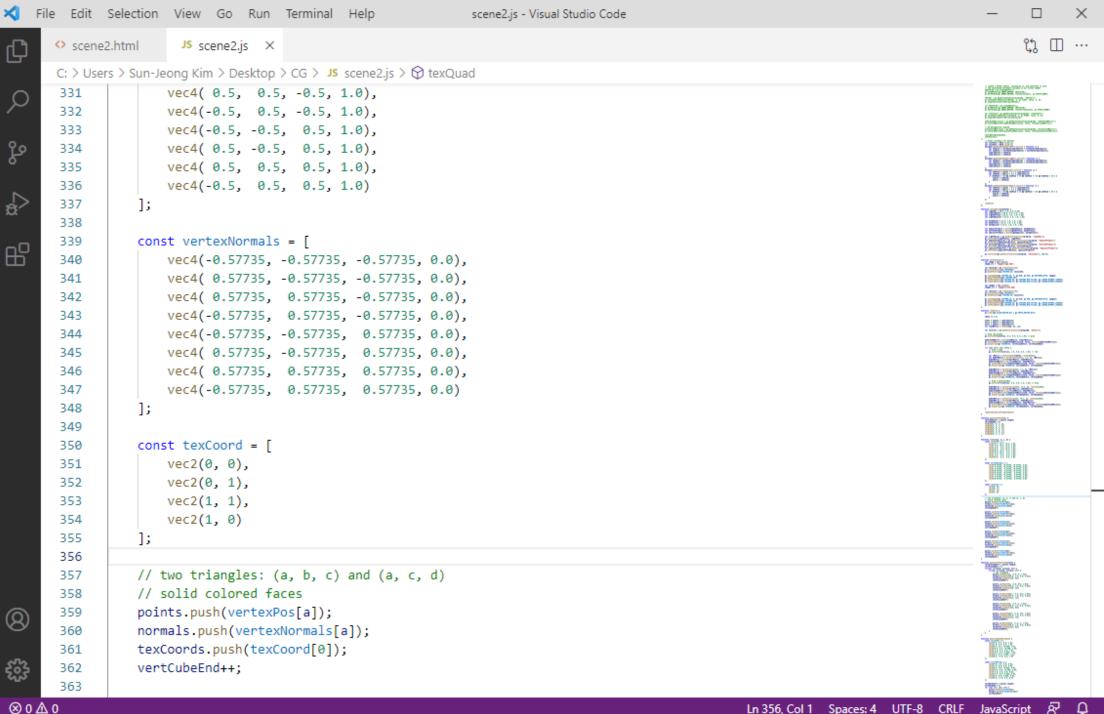
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<u>File Edit Selection View Go Run Terminal Help</u>
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 O
                                                                                                                                                                       JS scene2.js X
                                                scene2.html
                                                 C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ♥ init
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PARTICULAR STREET, STR
  Q
                                                     166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WIE STATES OF THE PARTY OF THE 
                                                     167
                                                                                                                              // 3D perspective viewing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ASSESSMENT OF STREET ASSESSMENT OF THE PARTY OF THE PARTY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AND STATES
                                                                                                                              projectionMatrixLoc = gl.getUniformLocation(program2, "projectionMatrix");
                                                     168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PERSONAL PROPERTY.
  وع
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PARTER .....
                                                                                                                               gl.uniformMatrix4fv(projectionMatrixLoc, false, flatten(projectionMatrix));
                                                     169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HEADSHIP WATER
                                                     170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CARLAGRACION STV.
                                                     171
                                                                                                                              setLighting(program2);
₽
                                                                                                                              setTexture();
                                                     172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (AV) 14 .....
                                                    173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NEGATIVE WATER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SHEW SELVERS
                                                     174
                                                                                                                               // Event listeners for buttons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The Street Street, and
品
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OR STREET
                                                                                                                              var sinTheta = Math.sin(0.1);
                                                     175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PROBLEM TRANSPORT AND ADDRESS OF THE PARTY O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Millia Bernere e e contra
                                                                                                                             var cosTheta = Math.cos(0.1);
                                                     176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOTAL STREET
                                                     177
                                                                                                                              document.getElementById("left").onclick = function () {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Total Spine Steel
                                                                                                                                                          var newVecX = cosTheta*cameraVec[0] + sinTheta*cameraVec[2];
                                                     178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tarres Market
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tarrey Lowes .....
                                                                                                                                                          var newVecZ = -sinTheta*cameraVec[0] + cosTheta*cameraVec[2];
                                                     179
                                                                                                                                                          cameraVec[0] = newVecX;
                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       E CONTRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ・ 国際国人は大人は大人は、
                                                     181
                                                                                                                                                          cameraVec[2] = newVecZ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CHEAL PRODUCTION
                                                     182
                                                                                                                              document.getElementById("right").onclick = function () {
                                                     183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COLUMN TO SERVICE STREET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE OF THE PARTY OF THE PARTY
                                                     184
                                                                                                                                                          var newVecX = cosTheta*cameraVec[0] - sinTheta*cameraVec[2];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Little Branch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        var newVecZ = sinTheta*cameraVec[0] + cosTheta*cameraVec[2];
                                                     185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total Contract of the last
                                                                                                                                                          cameraVec[0] = newVecX;
                                                     186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FUEL BER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 CO. T. Co. Co. Co. Co. Co. Co. Co.
                                                                                                                                                          cameraVec[2] = newVecZ;
                                                     187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The second second
                                                     188
                                                                                                                                document.getElementById("up").onclick = function () {
                                                     189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EL INDO
                                                     190
                                                                                                                                                          var newPosX = eye[0] + 0.5 * cameraVec[0];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            THE WALL
                                                                                                                                                          var newPosZ = eye[2] + 0.5 * cameraVec[2];
                                                     191
                                                                                                                                                          if (newPosX > -10 && newPosX < 10 && newPosZ > -10 && newPosZ < 10 ) {
                                                     192
                                                     193
                                                                                                                                                                                        eye[0] = newPosX;
 (8)
                                                                                                                                                                                       eye[2] = newPosZ;
                                                     194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N. Salar
                                                     196
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쐢
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Section .
                                                                                                                              document.getElementById("down").onclick = function () {
                                                     197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Section 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        St. Steel
                                                     198
                                                                                                                                                          var newPosX = eye[0] - 0.5 * cameraVec[0];
    ⊗ 0 ∆ 0
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<u>Edit Selection View Go Run Terminal Help</u> X scene2.js - Visual Studio Code D □ … JS scene2.js X scene2.html C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ♦ setLighting var newPosZ = eye[2] - 0.5 \* cameraVec[2];Q 199 FRANCISCO PARTIES 200 if (newPosX > -10 && newPosX < 10 && newPosZ > -10 && newPosZ < 10 ) { MARGES ..... SCARGOVANT. eve[0] = newPosX;201 وع eye[2] = newPosZ;CARLAGE STATE STATE 202 PROBLEM LANGUAGE CONTRACTOR MERCHANIST STREET 203 PARTY ..... 204 }; 205 PROFESSION OF THE PARTY OF THE ONLY HE SHALL ... 206 render(); COMMERCIAL SECTION PROBLEM LANSENING VOLUME TO SERVICE 207 品 MENDEROR COLUMN STREET, STREET 208 function setLighting(program) { LOC OFFICE PROPERTY 209 Tarrey and with ......... 210 var lightPos = [0.0, 1.0, 0.0, 0.0];THE R. L. WHE. var lightAmbient = [0.0, 0.0, 0.0, 1.0]; 211 Encoder Color var lightDiffuse = [1.0, 1.0, 1.0, 1.0]; 212 **・ 開発性が大大大大大** CIFEL HISCH, YOR. var lightSpecular = [1.0, 1.0, 1.0, 1.0]; 213 214 Company ... var matAmbient = [1.0, 1.0, 1.0, 1.0];215 ACT CARRY var matDiffuse = [1.0, 1.0, 1.0, 1.0]; 216 Control of Control 217 var matSpecular = [1.0, 1.0, 1.0, 1.0]; Collinson commen FUEL BERLE 218 The same of the sa var ambientProduct = mult(lightAmbient, matAmbient); 219 var diffuseProduct = mult(lightDiffuse, matDiffuse); 220 EL ININ var specularProduct = mult(lightSpecular, matSpecular); 221 THE PARTY FIL 18/19 222 var lightPosLoc = gl.getUniformLocation(program, "lightPos"); 223 224 gl.uniform4fv(lightPosLoc, lightPos); var ambientProductLoc = gl.getUniformLocation(program, "ambientProduct") 225 gl.uniform4fv(ambientProductLoc, ambientProduct); 226 (8) var diffuseProductLoc = gl.getUniformLocation(program, "diffuseProduct"); 227 No. gl.uniform4fv(diffuseProductLoc, diffuseProduct); 228 Statement of the last var specularProductLoc = gl.getUniformLocation(program, "specularProduct"); 229 쐢 gl.uniform4fv(specularProductLoc, specularProduct); Name and Address of the Owner, where 230 231 ⊗ 0 ∆ 0

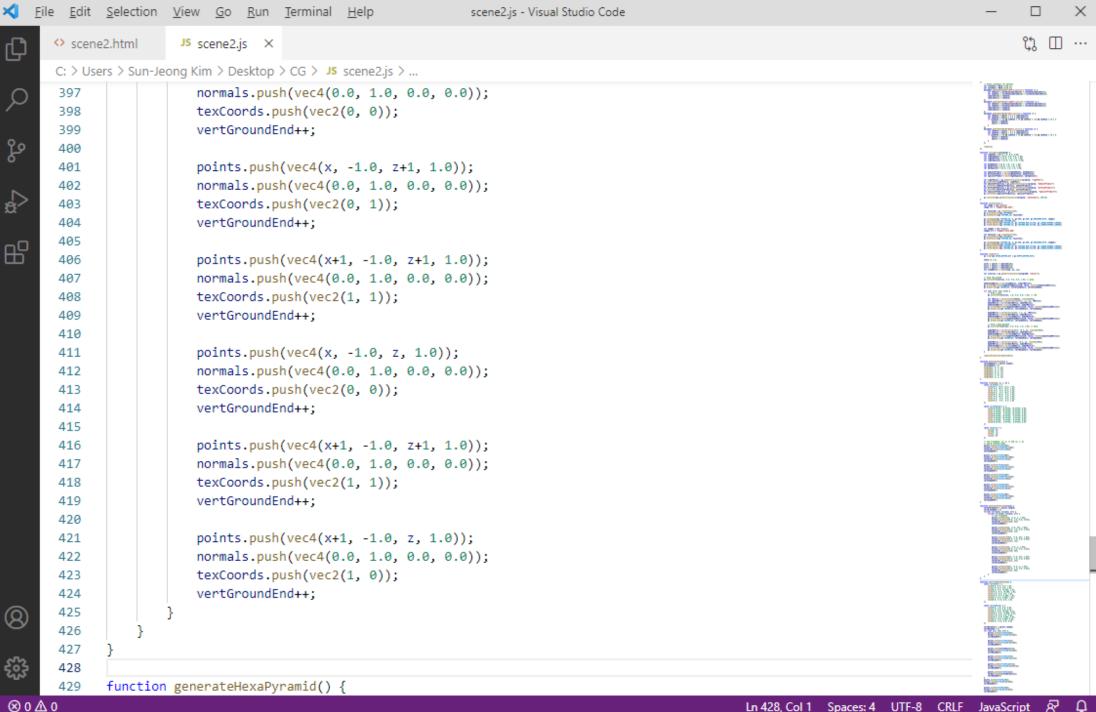
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                                                                                        JS scene2.js X
                          scene2.html
                          C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ☆ render
                                                                   gl.uniform1f(gl.getUniformLocation(program, "shininess"), 100.0);
  Q
                            232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HEADERS WATER
                            233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CONTRACTOR OF LAND
                            234
  مع
                                                   function setTexture() {
                            235
                                                                   var image = new Image();
                            236
                                                                    image.src = "images/logo.bmp";
                            237
₽
                            238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SE SCHOOL STREET
                                                                   var texture0 = gl.createTexture();
                            239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AND COMMON PROBLEM.
                            240
                                                                   gl.activeTexture(gl.TEXTURE0);
品
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCALIST CHARLE
                                                                   gl.bindTexture(gl.TEXTURE_2D, texture0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tarres ......
                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    THE REPORT OF THE PARTY OF THE 
                            242
                            243
                                                                    gl.texImage2D(gl.TEXTURE 2D, 0, gl.RGB, gl.RGB, gl.UNSIGNED BYTE, image);
                                                                   gl.generateMipmap(gl.TEXTURE_2D);
                            244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CEL SOLES
                            245
                                                                   gl.texParameteri(gl.TEXTURE 2D, gl.TEXTURE MIN FILTER, gl.LINEAR MIPMAP LINEAR);
                                                                    gl.texParameteri(gl.TEXTURE_2D, gl.TEXTURE_MAG_FILTER, gl.LINEAR_MIPMAP_LINEAR);
                            246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A STATE OF THE PARTY NAMED IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7.000 A COST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  I STATE OF THE PARTY OF THE PAR
                            248
                                                                   var image1 = new Image();
                                                                   image1.src = "images/crate.bmp"
                            249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FUEL BERN.
                            250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The second second
                                                                   var texture1 = gl.createTexture();
                            251
                                                                   gl.activeTexture(gl.TEXTURE1);
                            252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The second
                           253
                                                                    gl.bindTexture(gl.TEXTURE_2D, texture1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    THE STATE OF
                           254
                                                                   gl.texImage2D(gl.TEXTURE_2D, 0, gl.RGB, gl.RGB, gl.UNSIGNED_BYTE, image1);
                            255
                            256
                                                                   gl.generateMipmap(gl.TEXTURE 2D);
                            257
                                                                    gl.texParameteri(gl.TEXTURE_2D, gl.TEXTURE_MIN_FILTER, gl.LINEAR_MIPMAP_LINEAR);
                                                                   gl.texParameteri(gl.TEXTURE_2D, gl.TEXTURE_MAG_FILTER, gl.LINEAR_MIPMAP_LINEAR);
                            258
                            259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Section 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (8)
                            260
                                                   function render() {
                            261
                           262
                                                                    gl.clear(gl.COLOR BUFFER BIT | gl.DEPTH BUFFER BIT);
쐢
                            263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and the same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TO THE REAL PROPERTY.
                           264
                                                                   theta += 2.0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A STATE OF
  ⊗ 0 ∆ 0
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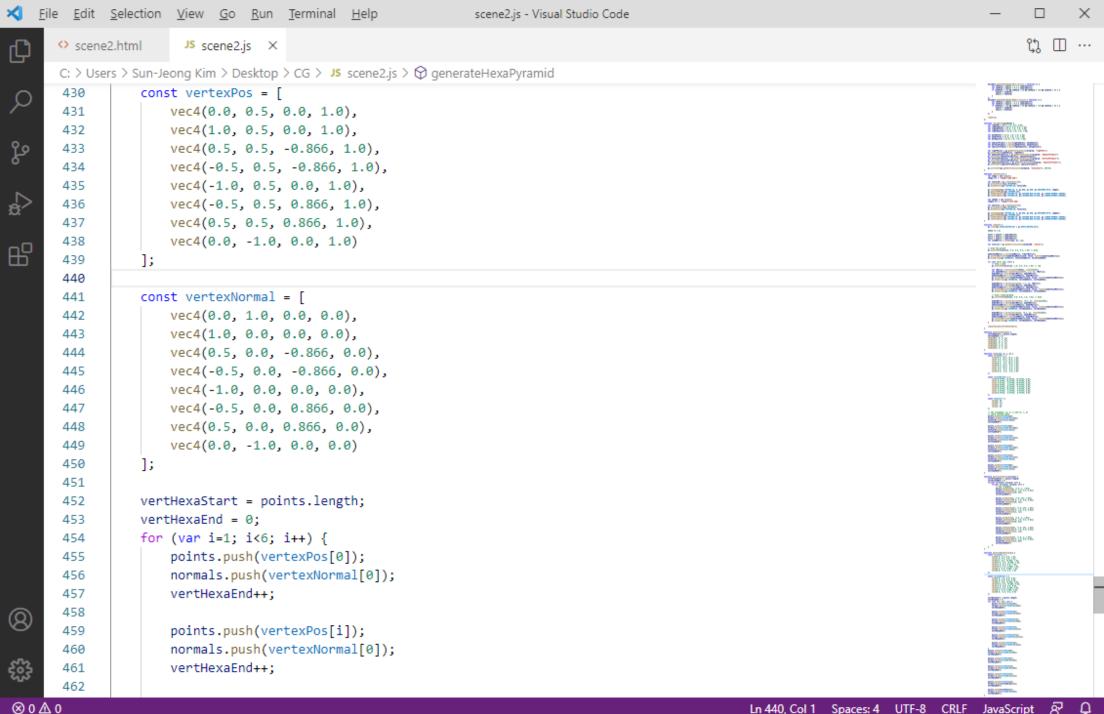
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<u>E</u>dit <u>Selection View Go Run Terminal Help</u>
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                                                                                                              JS scene2.js X
                                scene2.html
                                C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ♦ render
   Q
                                   265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MENTERO PROPERTY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CONTRACTOR STATE OF THE PARTY O
                                   266
                                                                                    at[0] = eye[0] + cameraVec[0];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100000 .....
                                                                                   at[1] = eye[1] + cameraVec[1];
                                   267
 وع
                                                                                   at[2] = eye[2] + cameraVec[2];
                                   268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROPERTY OF STREET
                                                                                   var viewMatrix = lookAt(eye, at, up);
                                   269
                                   270
Marie Company Company
                                  271
                                                                                   var colorLoc = gl.getUniformLocation(program0, "uColor");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOU CHARL MAKE
                                  272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Terres and the second
                                                                                    // draw the ground
                                   273
品
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE RELEASE .....
                                                                                    gl.uniform4f(colorLoc, 0.8, 0.8, 0.8, 1.0); // gray
                                   274
                                   275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COPAL TERMS.
                                   276
                                                                                    modelViewMatrix = mult(viewMatrix, trballMatrix);
                                                                                    gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                                   277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A STATE OF THE PARTY NAMED IN
                                                                                    gl.drawArrays(gl.TRIANGLES, vertGroundStart, vertGroundEnd);
                                   278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MIND DOWN
                                   279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for (var z=-5; z<5; z+=3) {
                                   280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FUEL SERVICE
                                                                                                     // draw a cube
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 Ta. Ta. Calledon, 14, 14, 15, 16, 17
                                   281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The second second
                                                                                                      gl.uniform4f(colorLoc, 1.0, 0.0, 0.0, 1.0); // red
                                   282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ALUMAN ...
                                    283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                THE STREET
                                                                                                      var rMatrix = mult(rotateY(theta), rotateZ(45));
                                    284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The state of the s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE TRANSPORT
                                                                                                      var modelMatrix = mult(translate(-3, 1.3, z), rMatrix);
                                   285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           modelMatrix = mult(trballMatrix, modelMatrix);
                                   286
                                                                                                      modelViewMatrix = mult(viewMatrix, modelMatrix);
                                    287
                                                                                                       gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                                    288
                                   289
                                                                                                       gl.drawArrays(gl.TRIANGLES, vertCubeStart, vertCubeEnd);
                                    290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Section .
                                                                                                      modelMatrix = mult(translate(3, 1.3, z), rMatrix);
                                   291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Section .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Section .
                                                                                                      modelMatrix = mult(trballMatrix, modelMatrix);
                                   292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Section .
 (8)
                                                                                                      modelViewMatrix = mult(viewMatrix, modelMatrix);
                                   293
                                                                                                      gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                                   294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and the same
                                   295
                                                                                                      gl.drawArrays(gl.TRIANGLES, vertCubeStart, vertCubeEnd);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                n the same
쐢
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The second
                                    296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                n line
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW
                                  297
                                                                                                      // draw a hexa-pyramid
   ⊗ 0 ∆ 0
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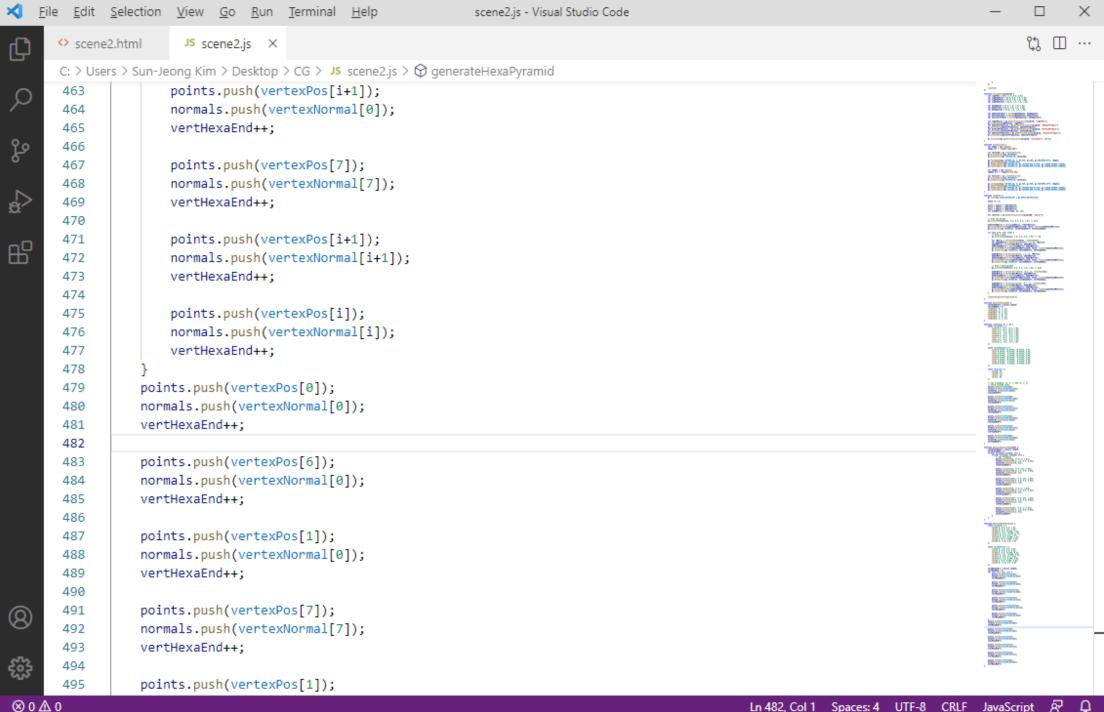
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                                                                                                                           JS scene2.js X
                                    scene2.html
                                    C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ...
                                                                                                                  gl.uniform4f(colorLoc, 0.0, 0.0, 1.0, 1.0); // blue
                                       298
    Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INVESTIGATION ....
                                       299
                                                                                                                 modelMatrix = mult(translate(-3, -0.5, z), rotateZ(180));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PERSONAL PROPERTY.
                                       300
  وع
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CONTRACTOR STATE
                                                                                                                 modelMatrix = mult(trballMatrix, modelMatrix);
                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MATERIAL PROPERTY OF A PROPERT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            phillipping are a paster
                                                                                                                 modelViewMatrix = mult(viewMatrix, modelMatrix);
                                        302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE RESERVE OF THE PARTY.
                                                                                                                 gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                                       303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOC INCHES PROPERTY
<1<sub>3</sub>
                                                                                                                  gl.drawArrays(gl.TRIANGLES, vertHexaStart, vertHexaEnd);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THE RELEASE .....
                                       304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Table Division
                                       305
                                                                                                                  modelMatrix = mult(translate(3, -0.5, z), rotateZ(180));
                                       306
品
                                                                                                                 modelMatrix = mult(trballMatrix, modelMatrix);
                                       307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COPAL TREES, TOOL
                                                                                                                 modelViewMatrix = mult(viewMatrix, modelMatrix);
                                       308
                                       309
                                                                                                                 gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contract Con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gl.drawArrays(gl.TRIANGLES, vertHexaStart, vertHexaEnd);
                                       310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7.700 LSC 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PLUM BER. ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 CO. T. Co. L. C. L. C. L. C. C.
                                                                                             requestAnimationFrame(render);
                                       313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            THE PARTY OF THE P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Diff.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AL DEN
                                       314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FL 1825___
                                       315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 THE REAL PROPERTY.
                                       316
                                                                        function generateTexCube() {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PLUMBER ....
                                                                                            vertCubeStart = points.length;
                                       317
                                                                                            vertCubeEnd = 0;
                                       318
                                                                                           texQuad(1, 0, 3, 2);
                                       319
                                       320
                                                                                            texQuad(2, 3, 7, 6);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             texQuad(3, 0, 4, 7);
                                       321
                                                                                           texQuad(4, 5, 6, 7);
                                       322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sec. 1988.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Section.
                                                                                           texQuad(5, 4, 0, 1);
                                       323
                                                                                            texQuad(6, 5, 1, 2);
                                       324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100
                                       325
  (8)
                                       326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ALCOHOL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and the same
                                       327
                                                                        function texQuad(a, b, c, d) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.00
                                       328
                                                                                              const vertexPos = [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 P. P. Line
쐢
                                                                                                                vec4(-0.5, -0.5, -0.5, 1.0),
                                       329
                                       330
                                                                                                                vec4( 0.5, -0.5, -0.5, 1.0),
    ⊗ 0 ∆ 0
```

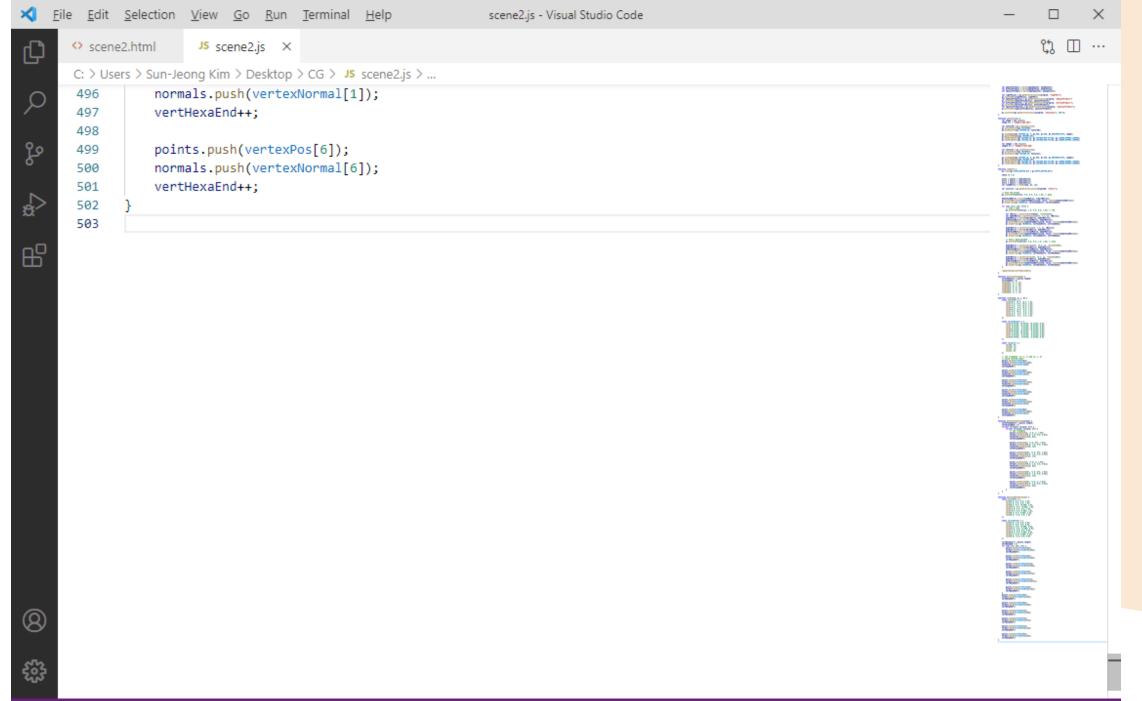


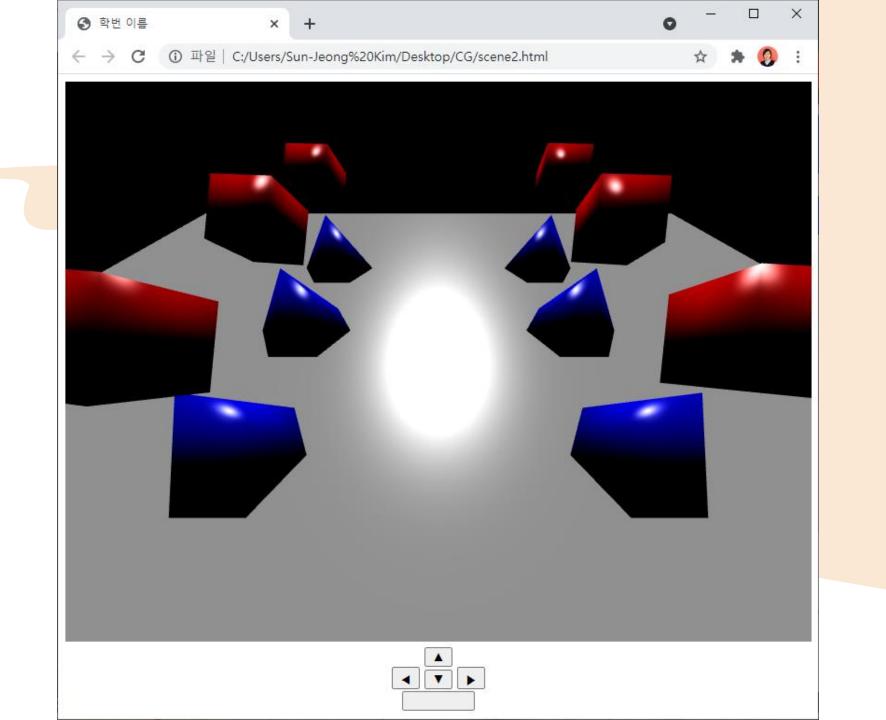
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<u>Edit Selection View Go Run Terminal Help</u>
                                                                                                                                                                                                                                                                                             scene2.js - Visual Studio Code
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 D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             □ …
                              scene2.html
                                                                                                           JS scene2.js X
                               C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ...
   Q
                                                                                  points.push(vertexPos[b]);
                                  364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MSS/Discovers, service
                                                                                normals.push(vertexNormals[b]);
                                  365
                                                                                 texCoords.push(texCoord[1]);
                                  366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCAL PROPERTY.
  مع
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tangares.
                                                                                vertCubeEnd++;
                                  367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tarres Lives
                                  368
                                                                                 points.push(vertexPos[c]);
                                  369
₽
                                                                                normals.push(vertexNormals[c]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COPAL TERMS. TOO.
                                  370
                                                                                 texCoords.push(texCoord[2]);
                                  371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E-WINDS
                                                                                 vertCubeEnd++;
                                  372
B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The same and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         I STATE OF THE PARTY OF THE PAR
                                  373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Auto Continue
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         points.push(vertexPos[a]);
                                  374
                                                                                 normals.push(vertexNormals[a]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PLUE BEER.
                                  375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DAME TO SERVICE
                                                                                 texCoords.push(texCoord[0]);
                                  376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Deliver of the last of the last
                                 377
                                                                                 vertCubeEnd++;
                                 378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            THE REAL PROPERTY.
                                                                                 points.push(vertexPos[c]);
                                  379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           THE TAXABLE .....
                                                                                normals.push(vertexNormals[c]);
                                  380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         texCoords.push(texCoord[2]);
                                  381
                                                                                 vertCubeEnd++;
                                  382
                                  383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          T
                                                                                 points.push(vertexPos[d]);
                                  384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       normals.push(vertexNormals[d]);
                                  385
                                                                                 texCoords.push(texCoord[3]);
                                  386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BANKS.
                                                                                 vertCubeEnd++;
                                  387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Section .
                                  388
                                 389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             agenta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              No. of Persons
                                                               function generateTexGround(scale) {
                                  390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mary Mary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE OF THE PARTY OF
                                                                                 vertGroundStart = points.length;
                                  391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Management of the Parket
 (8)
                                                                                 vertGroundEnd = 0;
                                  392
                                                                                 for(var x=-scale; x<scale; x++) {</pre>
                                  393
                                                                                                    for(var z=-scale; z<scale; z++) {</pre>
                                  394
€%3
                                                                                                                      // two triangles
                                  395
                                 396
                                                                                                                      points.push(vec4(x, -1.0, z, 1.0));
   ⊗ 0 ∆ 0
```



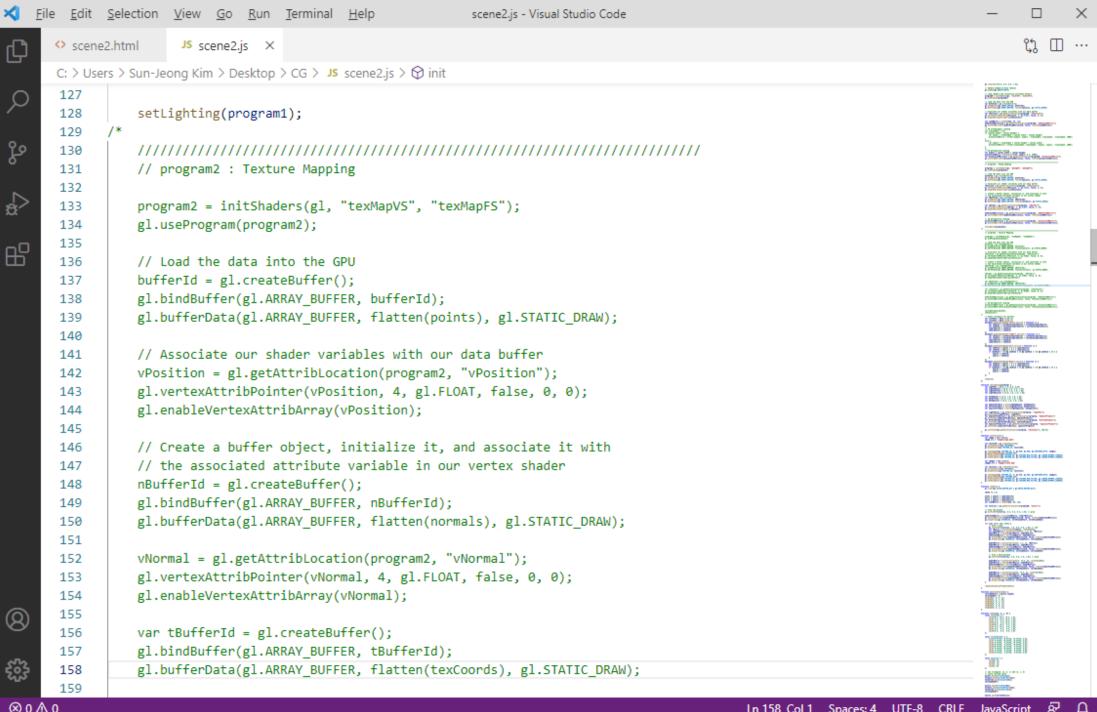


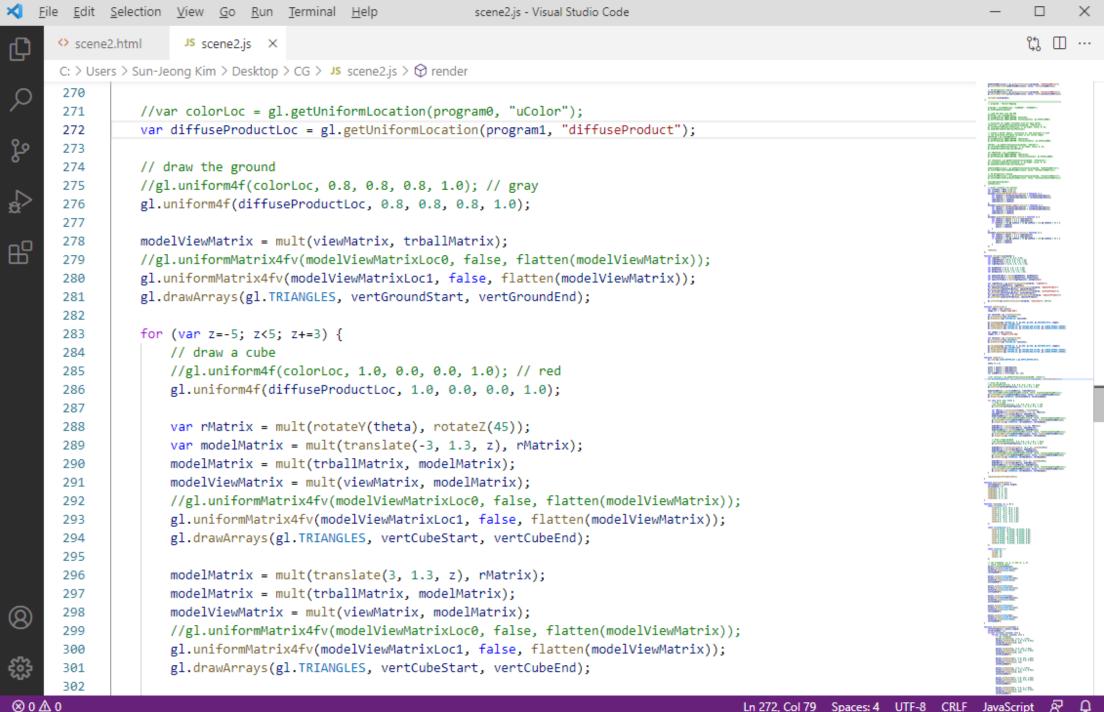


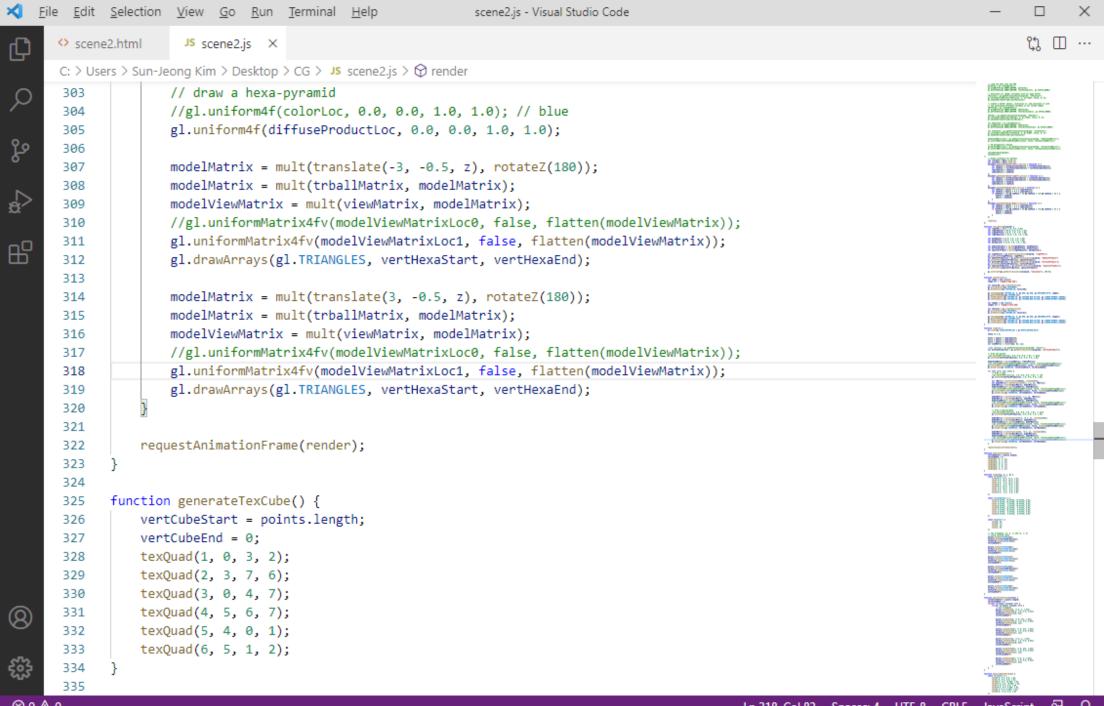


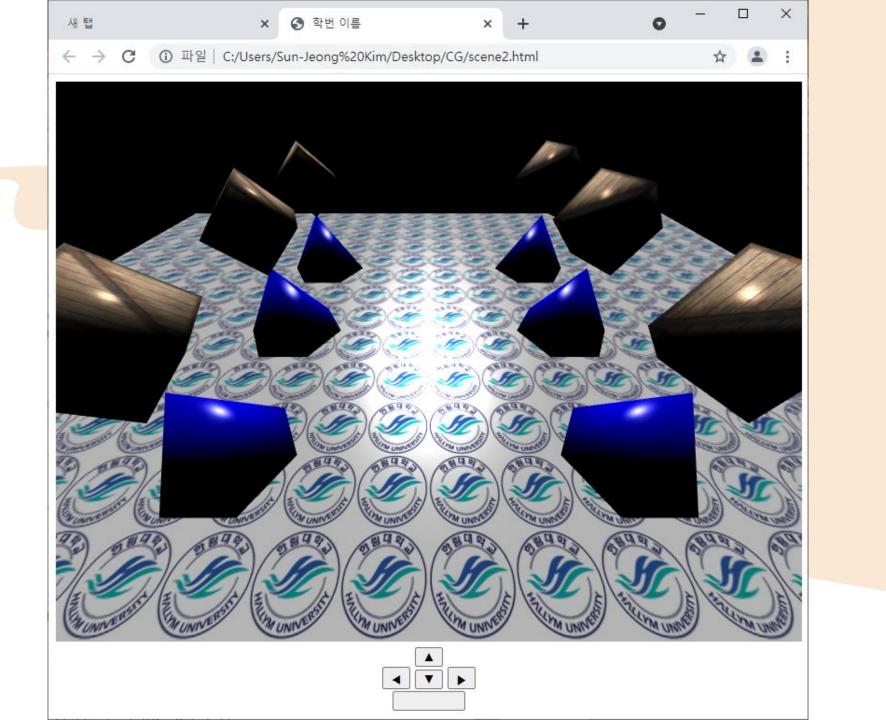


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X File Edit Selection View Go Run Terminal Help
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            scene2.js - Visual Studio Code
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 □ ...
    O
                                                                                                                                                                                                                                                     JS scene2.js X
                                                                          scene2.html
                                                                        C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ♥ init
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The Real Property lies, Name and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                William ...
     Q
                                                                                         95
                                                                                                                                                                                            A STATE OF THE PARTY OF THE PAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HATTLESPIE WITH
                                                                                                                                                                                           // program1 : Phong Shading
                                                                                          96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1207210-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AND VALUE OF STREET
     وع
                                                                                         97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PARTY TANAHA MANAGAMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WENCE THE ....
                                                                                                                                                                                           program1 = initShaders(gl, "phongVS", "phongFS");
                                                                                          98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ASSESSMENT OF THE PARTY OF THE 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HELD STORMS
                                                                                                                                                                                            gl.useProgram(program1);
                                                                                         99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PERSONAL PROPERTY.
 ₽
                                                                               100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MARKET ....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PROGRAMME.
                                                                               101
                                                                                                                                                                                            // Load the data into the GPU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AND ASSESSED BY
                                                                                                                                                                                           bufferId = gl.createBuffer();
                                                                               102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRODUCTION OF THE PARTY OF THE 
 品
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Military was proper
                                                                                                                                                                                           gl.bindBuffer(gl.ARRAY_BUFFER, bufferId);
                                                                               103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PERSONAL PROPERTY AND PERSONS ASSESSED.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MARCON ....
                                                                               104
                                                                                                                                                                                           gl.bufferData(gl.ARRAY BUFFER, flatten(points), gl.STATIC DRAW);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HELDERSON AND .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             THE PERSON OF TH
                                                                               105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE OF THE PARTY OF THE PARTY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (AND WEST STREET, STRE
                                                                                                                                                                                            // Associate our shader variables with our data buffer
                                                                               106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CONTRACTOR SELECTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MARKET BARRIES AND AND AND ADDRESS OF THE PARTY OF THE PA
                                                                                                                                                                                         vPosition = gl.getAttribLocation(program1, "vPosition");
                                                                               107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               philliphicarreve, control
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               E STATE OF THE STA
                                                                                                                                                                                           gl.vertexAttribPointer(vPosition, 4, gl.FLOAT, false, 0, 0);
                                                                               108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lat the same
                                                                                                                                                                                           gl.enableVertexAttribArray(vPosition);
                                                                               109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tan in Marks
                                                                               110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Torrest .....
                                                                                                                                                                                           // Create a buffer object, initialize it, and associate it with
                                                                               111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Edition (CC)
                                                                                                                                                                                           // the associated attribute variable in our vertex shader
                                                                               112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ・ 国際語りなりなりなりな
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                                                                                                                                                                                           var nBufferId = gl.createBuffer();
                                                                               113
                                                                               114
                                                                                                                                                                                           gl.bindBuffer(gl.ARRAY_BUFFER, nBufferId);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            E-WINDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contraction ...
                                                                                                                                                                                           gl.bufferData(gl.ARRAY BUFFER, flatten(normals), gl.STATIC DRAW);
                                                                               115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME OF TAXABLE PARTY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APRIL SARRIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CONTRACTOR CO.
                                                                               116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             I STATE OF THE PARTY OF THE PAR
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                                                                               117
                                                                                                                                                                                           var vNormal = gl.getAttribLocation(program1, "vNormal");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PLUE BER. ..
                                                                                                                                                                                           gl.vertexAttribPointer(vNormal, 4, gl.FLOAT, false, 0, 0);
                                                                               118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 CO. T. CO. C. C. C. C. C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             THE RESERVE THE PERSON NAMED IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      H MAN
                                                                                                                                                                                           gl.enableVertexAttribArray(vNormal);
                                                                               119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      THE STREET, SALES
                                                                               120
                                                                               121
                                                                                                                                                                                           modelViewMatrixLoc1 = gl.getUniformLocation(program1, "modelViewMatrix");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    THE REAL PROPERTY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PHILIPPING ....
                                                                                                                                                                                           gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(viewMatrix));
    (8)
                                                                               122
                                                                               123
                                                                                                                                                                                           // 3D perspective viewing
                                                                               124
 projectionMatrixLoc = gl.getUniformLocation(program1, "projectionMatrix");
                                                                               125
                                                                                                                                                                                            gl.uniformMatrix4fv(projectionMatrixLoc, false, flatten(projectionMatrix));
                                                                               126
        ⊗ 0 ∆ 0
```







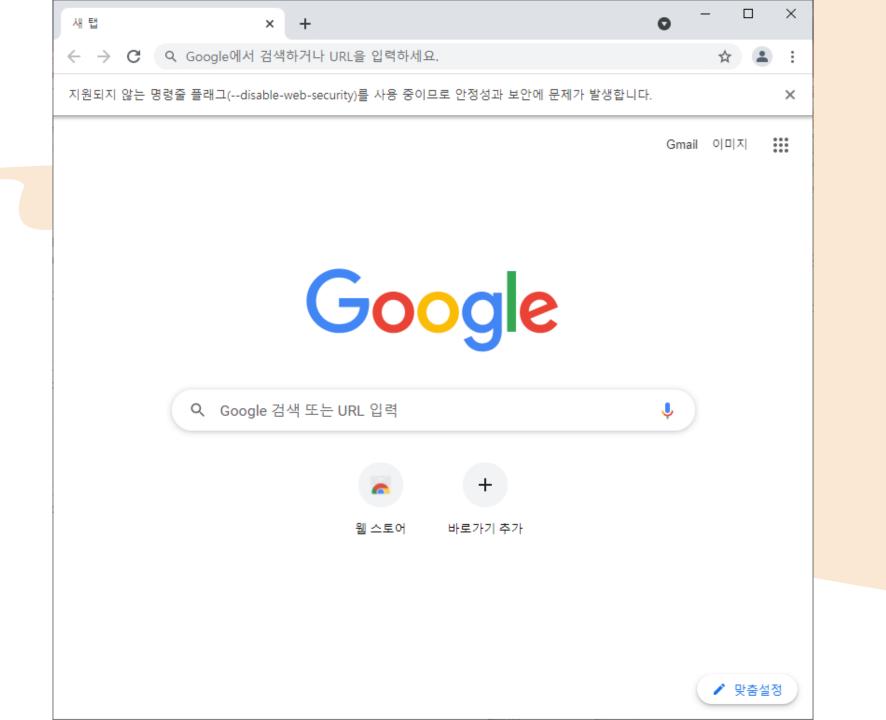


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X File Edit Selection View Go Run Terminal Help
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   O
                                                                                                                                                                                                         JS scene2.js X
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                                                                 129
      Q
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                                                                                                                                                          AND VALUE OF THE PARTY.
                                                                 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Personal Property and Property 
                                                                 131
                                                                                                                                                        // program2 : Texture Mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WE FACE IN THE PARTY OF THE PAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ASSESSMENT OF THE PARTY OF THE 
     مع
                                                                 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        THE PERSON
                                                                                                                                                         program2 = initShaders(gl, "texMapVS", "texMapFS");
                                                                 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1000015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MICHIGAN STATE .
                                                                                                                                                         gl.useProgram(program2);
                                                                 134
 AND ASSESSMENT OF THE PARTY.
                                                                 135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             THE RESERVE OF THE PARTY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       platford and or the section.
                                                                 136
                                                                                                                                                         // Load the data into the GPU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CONTRACTOR OF THE PARTY OF THE 
                                                                                                                                                         bufferId = gl.createBuffer();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MARKET ....
                                                                 137
 品
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROPERTY.
                                                                                                                                                         gl.bindBuffer(gl.ARRAY BUFFER, bufferId);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       THE RESERVE
                                                                 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The second second
                                                                                                                                                          gl.bufferData(gl.ARRAY BUFFER, flatten(points), gl.STATIC DRAW);
                                                                 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       THE RESERVE OF THE PERSON.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PERSONAL PROPERTY AND PERSONS ASSESSMENT
                                                                 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       photo Discourse was produced
                                                                                                                                                         // Associate our shader variables with our data buffer
                                                                 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOTAL STREET
                                                                                                                                                         vPosition = gl.getAttribLocation(program2, "vPosition");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lating the state of
                                                                 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tangares....
                                                                                                                                                        gl.vertexAttribPointer(vPosition, 4, gl.FLOAT, false, 0, 0);
                                                                 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tall of Lower ......
                                                                                                                                                          gl.enableVertexAttribArray(vPosition);
                                                                 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ENOUGH .
                                                                 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ・ 国際国人以及以及以及
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CHEST THEORY.
                                                                                                                                                         // Create a buffer object, initialize it, and associate it with
                                                                 146
                                                                                                                                                         // the associated attribute variable in our vertex shader
                                                                 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A STATE OF THE PARTY NAMED IN
                                                                                                                                                        nBufferId = gl.createBuffer();
                                                                 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACT CARRIES
                                                                                                                                                         gl.bindBuffer(gl.ARRAY BUFFER, nBufferId);
                                                                 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Company ....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      I STATE OF THE PARTY OF THE PAR
                                                                 150
                                                                                                                                                          gl.bufferData(gl.ARRAY BUFFER, flatten(normals), gl.STATIC DRAW);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FUEL BERN.
                                                                 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CARL STREET, STREET, ST. ST. ST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Market and the second
                                                                                                                                                         vNormal = gl.getAttribLocation(program2, "vNormal");
                                                                 152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The same of the same of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DELL'AND DEL
                                                                 153
                                                                                                                                                         gl.vertexAttribPointer(vNormal, 4, gl.FLOAT, false, 0, 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            74.45
                                                                                                                                                         gl.enableVertexAttribArray(vNormal);
                                                                 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Management of the Parket of th
                                                                 155
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          var tBufferId = gl.createBuffer();
                                                                 156
                                                                                                                                                         gl.bindBuffer(gl.ARRAY BUFFER, tBufferId);
   (8)
                                                                 157
                                                                                                                                                         gl.bufferData(gl.ARRAY BUFFER, flatten(texCoords), gl.STATIC DRAW);
                                                                 158
                                                                 159
 錢
                                                                                                                                                         var vTexCoord = gl.getAttribLocation(program2, "vTexCoord");
                                                                 160
                                                                                                                                                        gl.vertexAttribPointer(vTexCoord, 2, gl.FLOAT, false, 0, 0);
                                                                 161
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                                                                                                           JS scene2.js X
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        printer and the same of the same
                                                                                  gl.enableVertexAttribArray(vTexCoord);
                                  162
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ARREST STREET, STREET,
                                  163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modelViewMatrixLoc2 = gl.getUniformLocation(program2, "modelViewMatrix");
                                  164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1000015 .....
  وع
                                                                                 gl.uniformMatrix4fv(modelViewMatrixLoc2, false, flatten(viewMatrix));
                                  165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MICHELL STREET,
                                  166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AND ASSESSED FOR ACCU.
                                                                                 // 3D perspective viewing
                                  167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        phillip in the same of the same of
projectionMatrixLoc = gl.getUniformLocation(program2, "projectionMatrix");
                                  168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MANAGEM ....
                                                                                  gl.uniformMatrix4fv(projectionMatrixLoc, false, flatten(projectionMatrix));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The second second
                                  169
                                  170
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        THE RESERVE AND ADDRESS.
                                                                                 setLighting(program2);
                                  171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The second second second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MENTAGE OF STREET
                                  172
                                                                                 setTexture();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOTAL ST.
                                  173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOUISIAN PROPERTY
                                                                                 // Event listeners for buttons
                                  174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tarrey Constitution
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tangan was
                                                                                 var sinTheta = Math.sin(0.1);
                                  175
                                                                                 var cosTheta = Math.cos(0.1);
                                  176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ■ 回答用从次次次次。
                                                                                 document.getElementById("left").onclick = function () {
                                  177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CHEAL MEETINGS.
                                                                                                   var newVecX = cosTheta*cameraVec[0] + sinTheta*cameraVec[2];
                                  178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       E-WINDS
                                  179
                                                                                                   var newVecZ = -sinTheta*cameraVec[0] + cosTheta*cameraVec[2];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Control Section
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        I STANGE OF THE PARTY OF THE PA
                                                                                                   cameraVec[0] = newVecX;
                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Auto Charles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Little Branch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cameraVec[2] = newVecZ;
                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Total Contract of the Contract of
                                  182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PLUG BER. ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Child Section 19
                                                                                  document.getElementById("right").onclick = function () {
                                  183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        var newVecX = cosTheta*cameraVec[0] - sinTheta*cameraVec[2];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           District Control
                                  184
                                                                                                   var newVecZ = sinTheta*cameraVec[0] + cosTheta*cameraVec[2];
                                  185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Charles and the second
                                  186
                                                                                                   cameraVec[0] = newVecX;
                                  187
                                                                                                   cameraVec[2] = newVecZ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          188
                                                                                  };
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       189
                                                                                  document.getElementById("up").onclick = function () {
                                                                                                   var newPosX = eye[0] + 0.5 * cameraVec[0];
 (8)
                                  190
                                                                                                   var newPosZ = eye[2] + 0.5 * cameraVec[2];
                                  191
                                                                                                   if (newPosX > -10 && newPosX < 10 && newPosZ > -10 && newPosZ < 10 ) {
                                  192
 畿
                                  193
                                                                                                                      eye[0] = newPosX;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Section .
                                                                                                                      eye[2] = newPosZ;
                                  194
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<u>Edit Selection View Go Run Terminal Help</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AND DESCRIPTION OF THE PARTY.
 Q
                              273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOWN THE THE TANK THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MANAGE ....
                              274
                                                                        // draw the ground
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Maria Company
                                                                        //gl.uniform4f(colorLoc, 0.8, 0.8, 0.8, 1.0); // gray
                              275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The second second
 وع
                                                                        //gl.uniform4f(diffuseProductLoc, 0.8, 0.8, 0.8, 1.0);
                              276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AND DESIGNATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AND DESCRIPTION OF THE PARTY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PERSONAL PROPERTY AND PROPERTY.
                                                                        gl.useProgram(program2);
                              277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ASSESSMENT OF THE PARTY.
                                                                        gl.uniform1i(gl.getUniformLocation(program2, "texture"), 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        THE RESERVE STREET
                              278
₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lat the section
                              279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Taring to see .......
                                                                        modelViewMatrix = mult(viewMatrix, trballMatrix);
                              280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tago of Laborator
                                                                        //gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                              281
品
                                                                        //gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(modelViewMatrix));
                              282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ■ 回答用以及次次次。
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CIFEL MEDICAL
                                                                         gl.uniformMatrix4fv(modelViewMatrixLoc2, false, flatten(modelViewMatrix));
                              283
                               284
                                                                         gl.drawArrays(gl.TRIANGLES, vertGroundStart, vertGroundEnd);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Little bases ....
                              285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        286
                                                                        for (var z=-5; z<5; z+=3) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A STATE OF THE PARTY NAMED IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        I STATE OF THE PARTY OF THE PAR
                              287
                                                                                       // draw a cube
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       T. 1874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FLUID BERR.
                                                                                        //gl.uniform4f(colorLoc, 1.0, 0.0, 0.0, 1.0); // red
                               288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Maria and the second
                                                                                       //gl.uniform4f(diffuseProductLoc, 1.0, 0.0, 0.0, 1.0);
                               289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET, STREET, STREET,
                                                                                        gl.useProgram(program2);
                               290
                              291
                                                                                        gl.uniform1i(gl.getUniformLocation(program2, "texture"), 1);
                              292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10. P.
                                                                                        var rMatrix = mult(rotateY(theta), rotateZ(45));
                              293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10.00
                                                                                        var modelMatrix = mult(translate(-3, 1.3, z), rMatrix);
                               294
                                                                                        modelMatrix = mult(trballMatrix, modelMatrix);
                              295
                                                                                        modelViewMatrix = mult(viewMatrix, modelMatrix);
                              296
                                                                                        //gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                              297
                               298
                                                                                        //gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(modelViewMatrix));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gl.uniformMatrix4fv(modelViewMatrixLoc2, false, flatten(modelViewMatrix));
                              299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Statement .
                                                                                        gl.drawArrays(gl.TRIANGLES, vertCubeStart, vertCubeEnd);
                              300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Section .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Service .
 (8)
                              301
                                                                                        modelMatrix = mult(translate(3, 1.3, z), rMatrix);
                              302
                                                                                        modelMatrix = mult(trballMatrix, modelMatrix);
                              303
ALC: NO.
                                                                                        modelViewMatrix = mult(viewMatrix, modelMatrix);
                               304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N. D. HOLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The state of the s
                                                                                        //gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                              305
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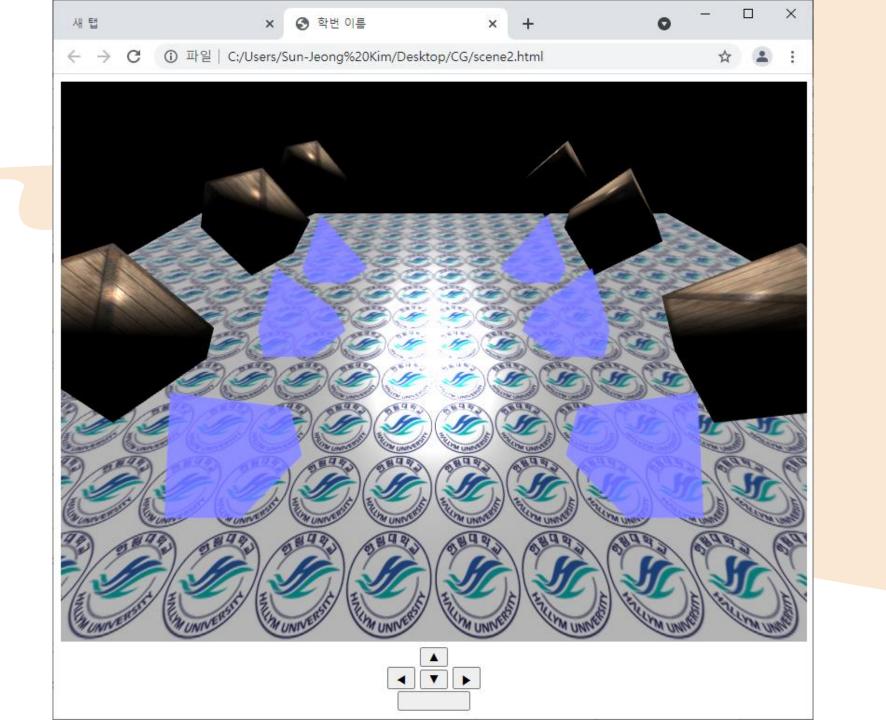
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<u>Edit Selection View Go Run Terminal Help</u>
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O
                                                                                JS scene2.js X
                       scene2.html
                       C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ♦ render
                                                                          //gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(modelViewMatrix));
                         306
 Q
                                                                          gl.uniformMatrix4fv(modelViewMatrixLoc2, false, flatten(modelViewMatrix));
                         307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The second second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A PERSONAL PROPERTY.
                                                                          gl.drawArrays(gl.TRIANGLES, vertCubeStart, vertCubeEnd);
                          308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The second second second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ASSESSMENT OF THE PARTY.
  مړ
                         309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of Christian Division.
                                                                          // draw a hexa-pyramid
                         310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lar la francisco
                                                                          //gl.uniform4f(colorLoc, 0.0, 0.0, 1.0, 1.0); // blue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tarres and the same of
                         311
TANK MARK.
                                                                           gl.useProgram(program1);
                         312
                                                                           gl.uniform4f(diffuseProductLoc, 0.0, 0.0, 1.0, 1.0);
                         313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ball (CCC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BERNELLIK IK IK IK
                         314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CHEAL HISCORPOR
品
                                                                          modelMatrix = mult(translate(-3, -0.5, z), rotateZ(180));
                         315
                         316
                                                                          modelMatrix = mult(trballMatrix, modelMatrix);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contract Con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modelViewMatrix = mult(viewMatrix, modelMatrix);
                         317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Company ....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   I STATE OF THE PARTY OF THE PAR
                                                                          //gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                         318
                                                                          gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(modelViewMatrix));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FUEL BER.
                         319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and the second second
                                                                           gl.drawArrays(gl.TRIANGLES, vertHexaStart, vertHexaEnd);
                         320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    THE RESERVE OF THE PERSON NAMED IN
                         321
                                                                           modelMatrix = mult(translate(3, -0.5, z), rotateZ(180));
                         322
                                                                          modelMatrix = mult(trballMatrix, modelMatrix);
                          323
                                                                          modelViewMatrix = mult(viewMatrix, modelMatrix);
                         324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The State of the Control
                                                                          //gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    325
                         326
                                                                           gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(modelViewMatrix));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gl.drawArrays(gl.TRIANGLES, vertHexaStart, vertHexaEnd);
                         327
                         328
                          329
                                                             requestAnimationFrame(render);
                          330
                         331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Section .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   332
                         333
                                               function generateTexCube() {
                                                             vertCubeStart = points.length;
(8)
                         334
                                                            vertCubeEnd = 0;
                         335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TO STORE
                                                            texQuad(1, 0, 3, 2);
                         336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      D. D. LEWIS
錢
                                                            texQuad(2, 3, 7, 6);
                         337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Will Street
                                                             texQuad(3, 0, 4, 7);
                         338
  ⊗ 0 ∆ 0
```



# **Alpha** Blending

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Edit Selection View Go Run Terminal Help
                                                                                                                                                                        scene2.js - Visual Studio Code
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O
                                                               JS scene2.js X
                  scene2.html
                  C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ☆ render
 Q
                    270
                                               var colorLoc = gl.getUniformLocation(program0, "uColor");
                   271
                                               //var diffuseProductLoc = gl.getUniformLocation(program1, "diffuseProduct");
                    272
 مع
                    273
                                               // draw the ground
                    274
                                               //gl.uniform4f(colorLoc, 0.8, 0.8, 0.8, 1.0); // gray
                    275
A
                                               //gl.uniform4f(diffuseProductLoc, 0.8, 0.8, 0.8, 1.0);
                    276
                    277
                                               gl.useProgram(program2);
                                               gl.uniform1i(gl.getUniformLocation(program2, "texture"), 0);
                    278
B
                    279
                                               modelViewMatrix = mult(viewMatrix, trballMatrix);
                    280
                                               //gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                    281
                                                                                                                                                                                                                                                                                                                                                                 Company ...
                                               //gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(modelViewMatrix));
                    282
                                                                                                                                                                                                                                                                                                                                                                 gl.uniformMatrix4fv(modelViewMatrixLoc2, false, flatten(modelViewMatrix));
                    283
                                                                                                                                                                                                                                                                                                                                                                 I STATE OF THE PARTY OF THE PAR
                    284
                                               gl.drawArrays(gl.TRIANGLES, vertGroundStart, vertGroundEnd);
                                                                                                                                                                                                                                                                                                                                                                 FLIR BUR.
                    285
                                               for (var z=-5; z<5; z+=3) {
                    286
                                                          // draw a cube
                    287
                                                          //gl.uniform4f(colorLoc, 1.0, 0.0, 0.0, 1.0); // red
                    288
                                                          //gl.uniform4f(diffuseProductLoc, 1.0, 0.0, 0.0, 1.0);
                    289
                                                          gl.useProgram(program2);
                    290
                                                          gl.uniform1i(gl.getUniformLocation(program2, "texture"), 1);
                    291
                    292
```

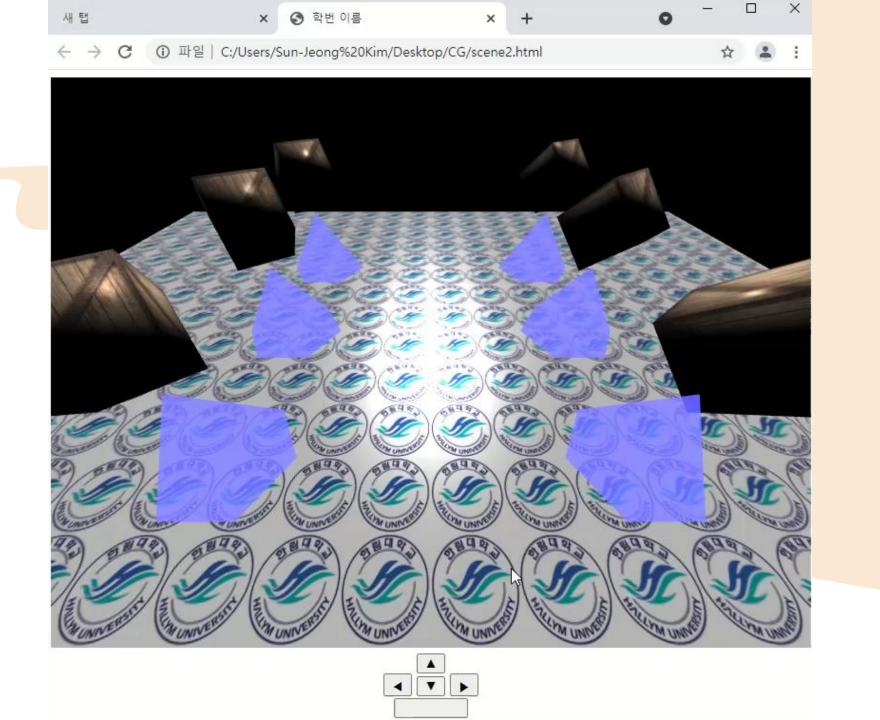
```
<u>E</u>dit <u>Selection View Go Run Terminal Help</u>
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D
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                scene2.html
                C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene2.js > ♦ render
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Q
                 309
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                 310
                                                   // draw a hexa-pyramid
                                                                                                                                                                                                                                                                                                                       AND DESCRIPTION OF THE PERSON.
                                                   gl.useProgram(program0);
                 311
                                                                                                                                                                                                                                                                                                                        ASSESSED FOR STREET, S
 مع
                                                   gl.uniform4f(colorLoc, 0.0, 0.0, 1.0, 0.5); // translucent blue
                                                                                                                                                                                                                                                                                                                        Late Column Column
                 312
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                                                   //gl.useProgram(program1);
                 313
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                                                   //gl.uniform4f(diffuseProductLoc, 0.0, 0.0, 1.0, 1.0);
                 314
                                                                                                                                                                                                                                                                                                                        Tang Marks
315
                                                    gl.disable(gl.DEPTH_TEST);
                 316
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                                                                                                                                                                                                                                                                                                                       COPAL THEORY WITH
                 317
                                                    gl.enable(gl.BLEND);
品
                                                   gl.blendFunc(gl.SRC_ALPHA, gl.ONE_MINUS_SRC_ALPHA);
                 318
                                                                                                                                                                                                                                                                                                                       Contract Contract
                 319
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                 320
                                                   modelMatrix = mult(translate(-3, -0.5, z), rotateZ(180));
                                                                                                                                                                                                                                                                                                                       Company ....
                                                                                                                                                                                                                                                                                                                       modelMatrix = mult(trballMatrix, modelMatrix);
                 321
                                                                                                                                                                                                                                                                                                                       PLUM MERC. ...
                                                   modelViewMatrix = mult(viewMatrix, modelMatrix);
                 322
                                                   gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                 323
                                                   //gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(modelViewMatrix));
                 324
                                                    gl.drawArrays(gl.TRIANGLES, vertHexaStart, vertHexaEnd);
                 325
                 326
                 327
                                                    modelMatrix = mult(translate(3, -0.5, z), rotateZ(180));
                                                   modelMatrix = mult(trballMatrix, modelMatrix);
                                                                                                                                                                                                                                                                                                                       T. W.
                  328
                                                   modelViewMatrix = mult(viewMatrix, modelMatrix);
                 329
                                                                                                                                                                                                                                                                                                                       gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                 330
                                                   //gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(modelViewMatrix));
                 331
                                                    gl.drawArrays(gl.TRIANGLES, vertHexaStart, vertHexaEnd);
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                 334
                                                    gl.disable(gl.BLEND);
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                                                    gl.enable(gl.DEPTH TEST);
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                                                                                                                                                                                                                                                                                                                       Section.
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                 338
                                          requestAnimationFrame(render);
                 339
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                                                                                                                                                                                                                                                                                                                         N. D. LIDIE
                  340
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                                function generateTexCube() {
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### **Collision** Detection

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A STATE OF THE PARTY OF THE PAR
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                                                      var eye = vec3(0, 3, 3)
10
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                                                    var at = vec3(0, 0, 0);
11
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                                                    const up = vec3(0, 1, 0);
12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INCOME.
                                                    var cameraVec = vec3(0, -0.7071, -0.7071); // 1.0/Math.sqrt(2.0)
13
14
15
                                                  var theta = 0;
                                                    var trballMatrix = mat4(1, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1);
16
                                                    var vertCubeStart, vertCubeEnd, vertHexaStart, vertHexaEnd, vertGroundStart, vertGroundEnd;
17
18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The second second
                                                    var posObjects = [
19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            THE PARTY OF THE PARTY.
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                                                                                            vec2(-3, -5), vec2(3, -5),
20
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                                                                                          vec2(-3, -2),
                                                                                                                                                                                                                                                        vec2(3, -2),
21
22
                                                                                          vec2(-3, 1),
                                                                                                                                                                                                                                                               vec2(3, 1),
                                                                                                                                                                                                                                                               vec2(3, 4),
23
                                                                                             vec2(-3, 4),
24
                                                      function detectCollision(newPosX, newPosZ)
25
                                                                                             for(var index=0; index<pos0bjects.length; index++) {</pre>
26
                                                                                                                                        if( Math.abs(newPosX - posObjects[index][0]) < 1.0 && Math.abs(newPosZ - posObjects[index][1]) < 1.0 )
27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Control Services
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return true;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A STREET, SQUARE, LANSING, MARKET, MAR
29
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                                                                                            return false;
30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FUEL BER.
31
                                                      };
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Charles Comme
32
                                                  window.onload = function init()
```

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<u>File Edit Selection View Go Run Terminal Help</u>
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                                                                                                              JS scene2.js X
                               scene2.html
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PARTY AND DESCRIPTION OF THE PARTY NAMED IN
                                  188
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Authorities and the san own we
                                  189
                                                                                   // Event listeners for buttons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HELD EF ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PERSONAL PROPERTY.
                                                                                  var sinTheta = Math.sin(0.1);
                                  190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MANAGEM ....
 مع
                                                                                  var cosTheta = Math.cos(0.1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOST STATE OF THE PARTY.
                                  191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTACAMENT ...
                                                                                   document.getElementById("left").onclick = function () {
                                  192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AND RESIDENCE AND ADDRESS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               THE RESERVE OF THE PARTY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Marie Distance over passion.
                                                                                                      var newVecX = cosTheta*cameraVec[0] + sinTheta*cameraVec[2];
                                   193
$
                                                                                                      var newVecZ = -sinTheta*cameraVec[0] + cosTheta*cameraVec[2];
                                   194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MARKET ....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MICHAEL STREET
                                                                                                      cameraVec[0] = newVecX;
                                   195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               THE RESERVE OF THE PERSON NAMED OF THE PERSON 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The second second
                                   196
                                                                                                      cameraVec[2] = newVecZ;
出
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Control of the Section of the Sectio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               THE RESERVE AND ADDRESS.
                                  197
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Marie Distance or was assessed.
                                                                                   document.getElementById("right").onclick = function () {
                                   198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OF CHARLES STREET,
                                  199
                                                                                                      var newVecX = cosTheta*cameraVec[0] - sinTheta*cameraVec[2];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LOUIS CONTRACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tan of the second
                                                                                                      var newVecZ = sinTheta*cameraVec[0] + cosTheta*cameraVec[2];
                                  200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Terres Lives
                                                                                                      cameraVec[0] = newVecX;
                                  201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Establication.
                                                                                                      cameraVec[2] = newVecZ;
                                   202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CHEST THEORY WAS
                                   203
                                                                                   document.getElementById("up").onclick = function () {
                                  204
                                                                                                      var newPosX = eye[0] + 0.5 * cameraVec[0];
                                   205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The second second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               var newPosZ = eye[2] + 0.5 * cameraVec[2];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ELPRI DESCRIPTION ....
                                   206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7.000 (ACM)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (newPosX > -10 && newPosX < 10 && newPosZ > -10 && newPosZ < 10 && !detectCollision(newPosX, newPosZ)) {
                                  207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Total Control of the last
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FUEL BER.
                                                                                                                         eye[0] = newPosX;
                                   208
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                                                                                                                         eye[2] = newPosZ;
                                   209
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Management in
                                  211
                                                                                   document.getElementById("down").onclick = function () {
                                  212
                                                                                                      var newPosX = eye[0] - 0.5 * cameraVec[0];
                                  213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1865
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 var newPosZ = eye[2] - 0.5 * cameraVec[2];
                                  214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                THE REAL PROPERTY.
                                                                                                      if (newPosX > -10 && newPosX < 10 && newPosZ > -10 && newPosZ < 10 && !detectCollision(newPosX, newPosZ)) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PROPERTY.
                                  215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              eye[0] = newPosX;
                                   216
 (2)
                                   217
                                                                                                                        eye[2] = newPosZ;
                                  218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                219
                                                                                     };
                                 220
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```



### 연습 문제

• 카메라 위치와 Vertex Position 사이의 거리를 Blending Factor로 하여 Fog 색상을 Blending 하는 shader를 작성하시오.

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                                                        JS scene3.js X
                scene3.html
                 C: > Users > Sun-Jeong Kim > Desktop > CG > JS scene3.js > ♥ render
                  324
 Q
                  325
                                                    // draw a hexa-pyramid
                                                    //gl.useProgram(program0);
                  326
                                                                                                                                                                                                                                                                                                                             Name and Address of the Owner, where the
                                                                                                                                                                                                                                                                                                                           AND DESCRIPTION OF THE PERSON NAMED IN
 مع
                  327
                                                    //gl.uniform4f(colorLoc, 0.0, 0.0, 1.0, 0.5); // translucent blue
                                                                                                                                                                                                                                                                                                                            THE RESERVE AND ADDRESS.
                                                    gl.useProgram(program1);
                  328
                                                                                                                                                                                                                                                                                                                           LOUIS COMMO
                                                    gl.uniform4f(diffuseProductLoc, 0.0, 0.0, 1.0, 1.0);
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                  329
THE REAL PROPERTY.
                  330
                                                    //gl.disable(gl.DEPTH_TEST);
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                                                    //gl.enable(gl.BLEND);
                 332
品
                                                    //gl.blendFunc(gl.SRC_ALPHA, gl.ONE_MINUS_SRC_ALPHA);
                  333
                  334
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                                                                                                                                                                                                                                                                                                                           modelMatrix = mult(translate(-3, -0.5, z), rotateZ(180));
                  335
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                                                                                                                                                                                                                                                                                                                           THE PERSON NAMED IN COLUMN 1
                                                    modelMatrix = mult(trballMatrix, modelMatrix);
                  336
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                                                                                                                                                                                                                                                                                                                           PLUE BER.
                                                    modelViewMatrix = mult(viewMatrix, modelMatrix);
                  337
                                                    //gl.uniformMatrix4fv(modelViewMatrixLoc0, false, flatten(modelViewMatrix));
                  338
                                                                                                                                                                                                                                                                                                                             DESCRIPTION OF THE PERSON NAMED IN
                                                    gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(modelViewMatrix));
                  339
                                                    gl.drawArrays(gl.TRIANGLES, vertHexaStart, vertHexaEnd);
                  340
                  341
                                                    modelMatrix = mult(translate(3, -0.5, z), rotateZ(180));
                  342
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                                                    modelMatrix = mult(trballMatrix, modelMatrix);
                  343
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                  344
                                                    modelViewMatrix = mult(viewMatrix, modelMatrix);
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                  345
                                                                                                                                                                                                                                                                                                                          gl.uniformMatrix4fv(modelViewMatrixLoc1, false, flatten(modelViewMatrix));
                  346
                  347
                                                    gl.drawArrays(gl.TRIANGLES, vertHexaStart, vertHexaEnd);
                                                                                                                                                                                                                                                                                                                           348
                                                                                                                                                                                                                                                                                                                           111
                                                    //gl.disable(gl.BLEND);
                  349
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                                                    //gl.enable(gl.DEPTH TEST);
                  350
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                  352
                                           requestAnimationFrame(render);
                  353
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                  355
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                                                                                                                                                                                                                                                                                                                             TO THE PARTY OF
                                function generateTexCube() {
                  356
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