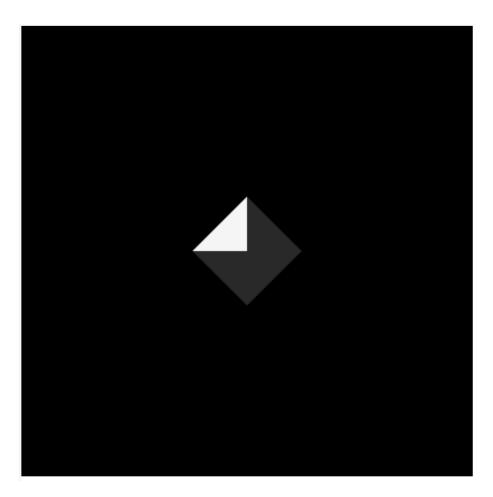
Part 1 - Normals:

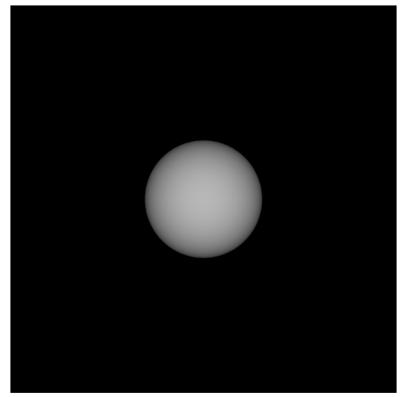
- Exercises completed in "bozer-LE1.html" and "bozer-LE1.js"



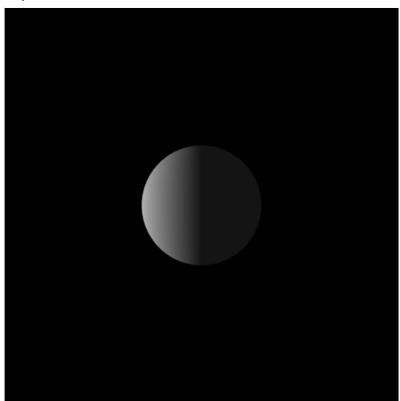
Part 2 - Lights and Materials

- Exercises completed in "bozer-LE2.html" and "bozer-LE2.js"
- 2) The default light setting is positional light because it's not being multiplied against the light's position.

3.a)

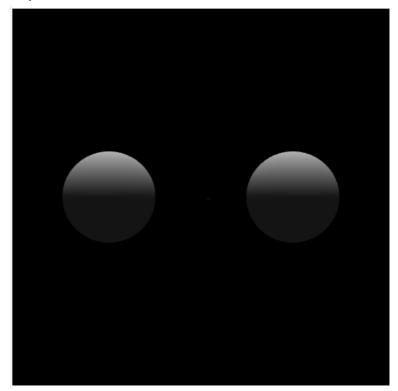


3.b)

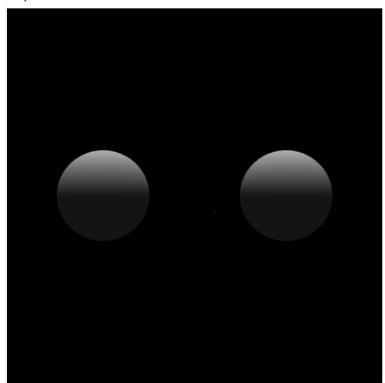


3.c) restored previous values

3.d)

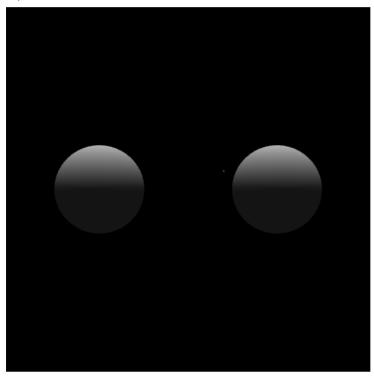


3.e)

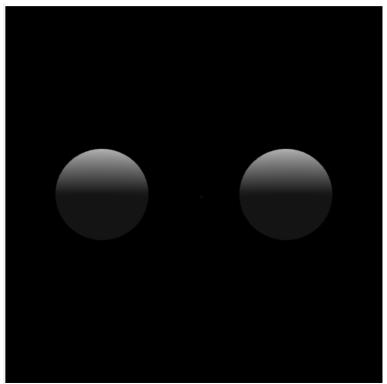


3.f) The MV matrix did not have an effect, it stayed the same.

4b)

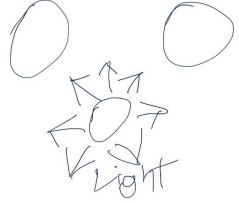


4c)

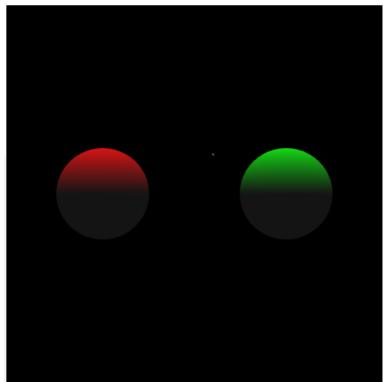


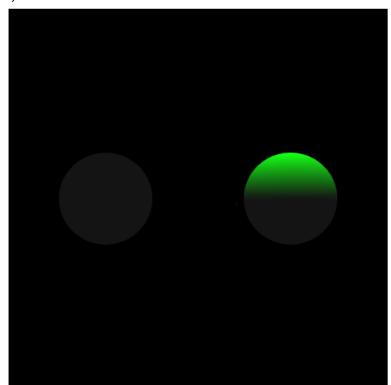
5) The effect is so different because the world coordinate lighting affects the points while the other affects the vectors.



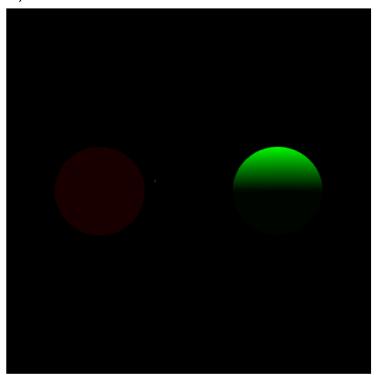


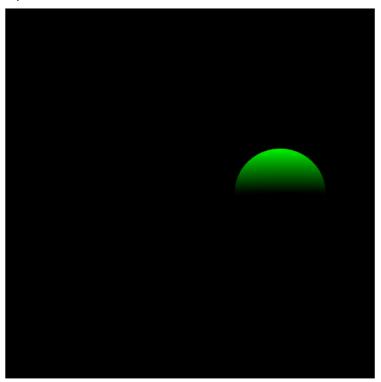
7)





10)





Move that Light

```
// ******* Move the light value *******
var value0 = 0.0;
var value2 = 0.0;
var value0Increment = 0.1;
var value2Increment = 0.1;
// ****** Event Listener for keyboard input *******
window.addEventListener('keydown', function (e) {
    if(e.key === 'a') {
        value0 -= value0Increment;
        value1 -= value1Increment;
        if(value0 < -1.0) {</pre>
            value0Increment *= -1;
        if(value1 < -1.0) {
            value1Increment *= -1;
        if(value0 > 1.0) {
            value0Increment *= -1;
        if(value1 > 1.0) {
            value1Increment *= -1;
    } else if(e.key === 'd') {
        value1 += value1Increment;
        if(value0 < -1.0) {</pre>
            value0Increment *= -1;
        if(value1 < -1.0) {</pre>
            value1Increment *= -1;
        if(value0 > 1.0) {
            value0Increment *= -1;
        if(value1 > 1.0) {
            value1Increment *= -1;
    if(e.key === 'w') {
        if(value2 < -1.0) {
            value2Increment *= -1;
        if(value2 > 1.0) {
            value2Increment *= -1;
    } else if(e.key === 's') {
        if(value2 < -1.0) {</pre>
            value2Increment *= -1;
        if(value2 > 1.0) {
            value2Increment *= -1;
```

Bonus: Shader Play

- Code from following the tutorial

```
precision highp float;
out vec4 fragColor;
uniform vec2 iMouse;
 * Shadertoy for absolute beginners
void mainImage( out vec4 fragColor, in vec2 fragCoord )
   // ******** Code from Video ********
   vec2 uv = fragCoord.xy / iResolution.xy;
   uv -= 0.5;
    float d = length(x: uv);
    if(d < 0.3) {
       c = 0.0;
    mainImage(fragColor: fragColor, fragCoord: gl_FragCoord.xy);
```