

3D Cellular Tiling Created by Shane in 2016-04-17

SKSL (~AGSL) - shaders.skia.org

```
    Shader Inputs

  uniform vec3
                  iResolution:
                                        // viewport resolution (in pixels)
  uniform float
                  iTime;
                                       // shader playback time (in seconds)
  uniform float
                  iTimeDelta;
                                       // render time (in seconds)
 uniform int
                  iFrame;
                                       // shader playback frame
  uniform float
                  iChannelTime[4];
                                       // channel playback time (in seconds)
  uniform vec3
                  iChannelResolution[4]; // channel resolution (in pixels)
                                       // mouse pixel coords. xy: current (if MLB do
  uniform vec4
                  iMouse;
  uniform samplerXX iChannel0..3;
                                       // input channel. XX = 2D/Cube
  uniform vec4
                  iDate;
                                       // (year, month, day, time in seconds)
                                       // sound sample rate (i.e., 44100)
  uniform float
                  iSampleRate;
    //https://twitter.com/XorDev/status/1475524322785640455
    void mainImage( out vec4 fragColor, in vec2 fragCoord ) {
 3
       vec4 o = vec4(0.0);
 4
       vec2 p = vec2(0.0), c=p, u=fragCoord.xy*2.-iResolution.xy;
 5
       float a:
 6 ₹
       for (float i=0.0; i<4e2; i++) {
 7
         a = i/2e2-1.;
 8
         p = cos(i*2.4+iTime+vec2(0.0,11.0))*sqrt(1.-a*a);
 9
         c = u/iResolution.y+vec2(p.x,a)/(p.y+2.);
10
         o += (cos(i+vec4(0.0,2.0,4.0,0.0))+1.)/dot(c,c)*(1.-p.y)/3e4;
11
12
       fragColor = o;
13
14
```

GLSL - shadertoy.com

Shader Inputs

float a;

return o;

10

13 }

a = i/2e2-1.;

```
uniform float3 iResolution;  // Viewport resolution (pixels)
uniform float iTime;  // Shader playback time (s)
uniform float4 iMouse;  // Mouse drag pos=.xy Click pos=.zw (pixels)
uniform float3 ilmageResolution; // ilmage1 resolution (pixels)
uniform shader ilmage1;  // An input image.

1 // Source: @XorDev https://twitter.com/XorDev/status/1475524322785
2 vec4 main(vec2 fragCoord) {
    vec4 o = vec4(0.0);
```

for (float i=0; i<4e2; i++) {

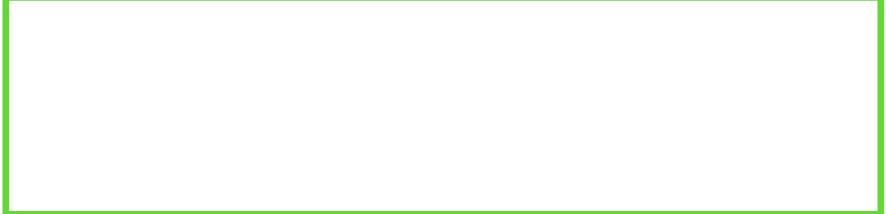
vec2 p = vec2(0.0), c=p, u=fragCoord.xy*2.-iResolution.xy;

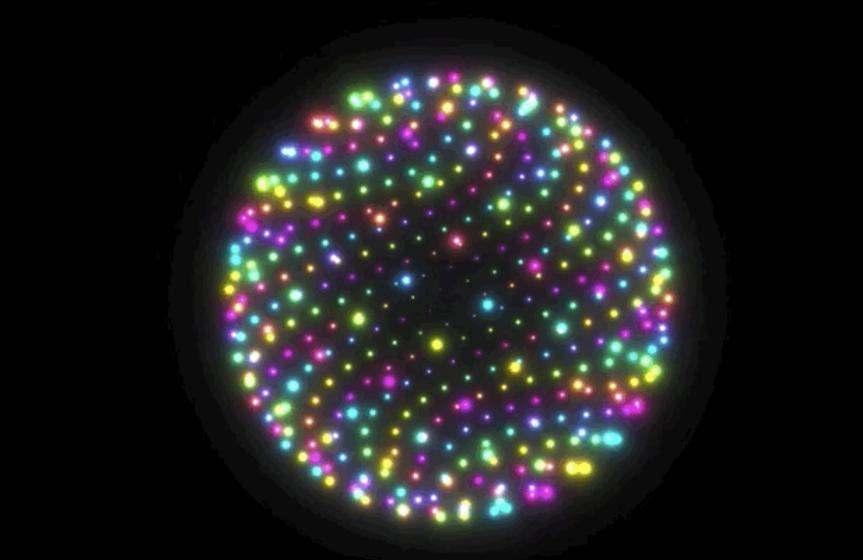
 $o += (\cos(i+vec4(0.0,2.0,4.0,0.0))+1.)/dot(c,c)*(1.-p.y)/3e4;$

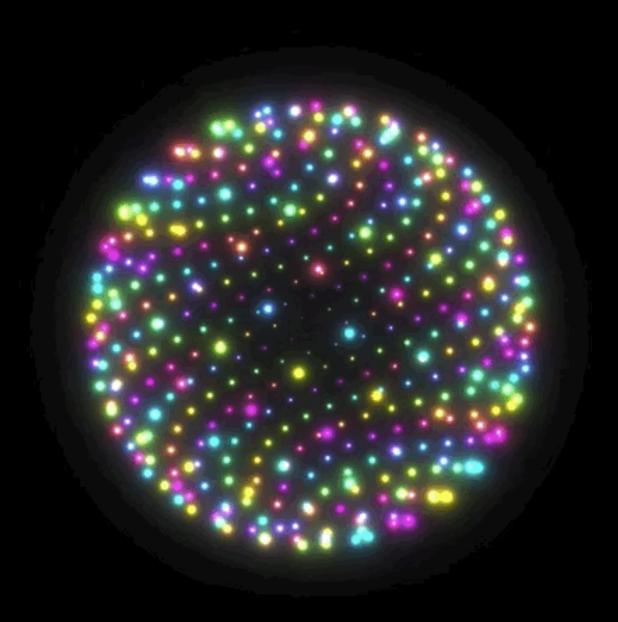
p = cos(i*2.4+iTime+vec2(0.0,11.0))*sqrt(1.-a*a);

c = u/iResolution.y+vec2(p.x,a)/(p.y+2.);









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GLSL - shadertoy.com

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    Shader Inputs

  uniform vec3
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 1 //https://twitter.com/XorDev/status/1475524322785640455
 2 v void mainImage( out vec4 fragColor, in vec2 fragCoord ) {
       vec4 o = vec4(0.0);
       vec2 p = vec2(0.0), c=p, u=fragCoord.xy*2.-iResolution.xy;
       for (float i=0.0; i<4e2; i++) {
         a = i/2e2-1.;
         p = cos(i*2.4+iTime+vec2(0.0,11.0))*sqrt(1.-a*a);
         c = u/iResolution.y+vec2(p.x,a)/(p.y+2.);
         o += (\cos(i+vec4(0.0,2.0,4.0,0.0))+1.)/dot(c,c)*(1.-p.y)/3e4;
10
11
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       fragColor = o;
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Shader Inputs uniform float3 iResolution; // Viewport resolution (pixels) uniform float iTime; // Shader playback time (s) uniform float4 iMouse; // Mouse drag pos=.xy Click pos=.zw (pixels) uniform float3 ilmageResolution; // ilmage1 resolution (pixels) uniform shader ilmage1; // An input image. 1 // Source: @XorDev https://twitter.com/XorDev/status/1475524322785 2 vec4 main(vec2 fragCoord) { $vec4 \circ = vec4(0.0);$ vec2 p = vec2(0.0), c=p, u=fragCoord.xy*2.-iResolution.xy; float a; for (float i=0; i<4e2; i++) {</pre> a = i/2e2-1.;p = cos(i*2.4+iTime+vec2(0.0,11.0))*sqrt(1.-a*a);c = u/iResolution.y+vec2(p.x,a)/(p.y+2.); $o += (\cos(i+vec4(0.0,2.0,4.0,0.0))+1.)/dot(c,c)*(1.-p.y)/3e4;$ 11 } 12 return o; 13 }

```
// AGSL 🖳
uniform float2 iResolution; // Viewport resolution (px)
uniform float iTime; // Shader playback time (s)
vec4 main(in float2 fragCoord) {
  // Normalized pixel coordinates (from 0 to 1)
  vec2 uv = fragCoord/iResolution.xy;
  // Time varying pixel color
  vec3 col = 0.8
  + 0.2*cos(iTime*2.0+uv.xxx*2.0+vec3(1,2,4));
  // Output to screen
  return vec4(col, 1.0);
```

