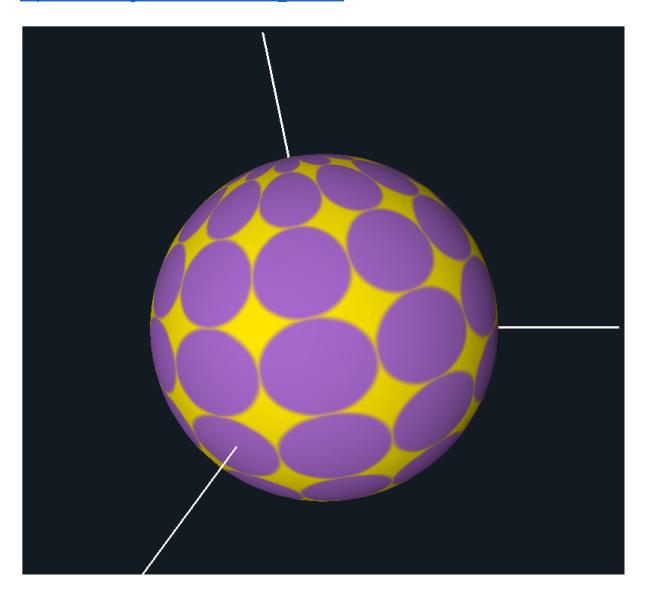
## Jung-Che Chang Project 1: Step- and Blended-edged Elliptical Dots changju@oregonstate.edu

https://media.oregonstate.edu/media/t/1 dzkik0k6



## oval.frag

```
uniform float uAd;
uniform float uBd;
uniform float uTol;
in vec3 vMCposition;
in float vLightIntensity;
in vec2 vST;
in vec3 vColor;
const vec3 color = vec3(0.655,0.408,0.8);
void
main()
     float Ar = uAd / 2.;
     float Br = uBd / 2.;
     float s = vST.s;
     float t = vST.t;
     int numins = int(s / uAd);
     int numint = int(t / uBd);
     float sc = numins * uAd + Ar;
     float tc = numint * uBd + Br;
      float ellipse = (((s-sc) * (s-sc)) / (Ar * Ar)) + (((t-tc) *
(t-tc)) / (Br * Br));
     float d = smoothstep( 1. - uTol, 1. + uTol, ellipse);
     vec3 rgb = vLightIntensity * mix( color, vColor, d);
      gl_FragColor = vec4( rgb, 1. );
```