

Getting Started with Particle Shaders

Provide custom shader code to alter a particle's look.

Overview

Use the shader property of an emitter node to change the appearance of a texture with a custom OpenGL ES fragment shader embedded within an `SKShader`. Custom shaders offer almost limitless possibilities, from adding blurs and color treatments to textures, to generating imagery such as random noise.

The following code shows a custom shader that renders particles with a radial gradient. The center of each particle is opaque white and the edges are transparent black.

```
let emitter = SKEmitterNode()

let radialGradientShader = SKShader(source: "void main() {" +
    "    vec2 coord = (v_tex_coord - 0.5) * 2.0;" +
    "    gl_FragColor = vec4(1.0 - length(coord));" +
    "}")

emitter.shader = radialGradientShader
```