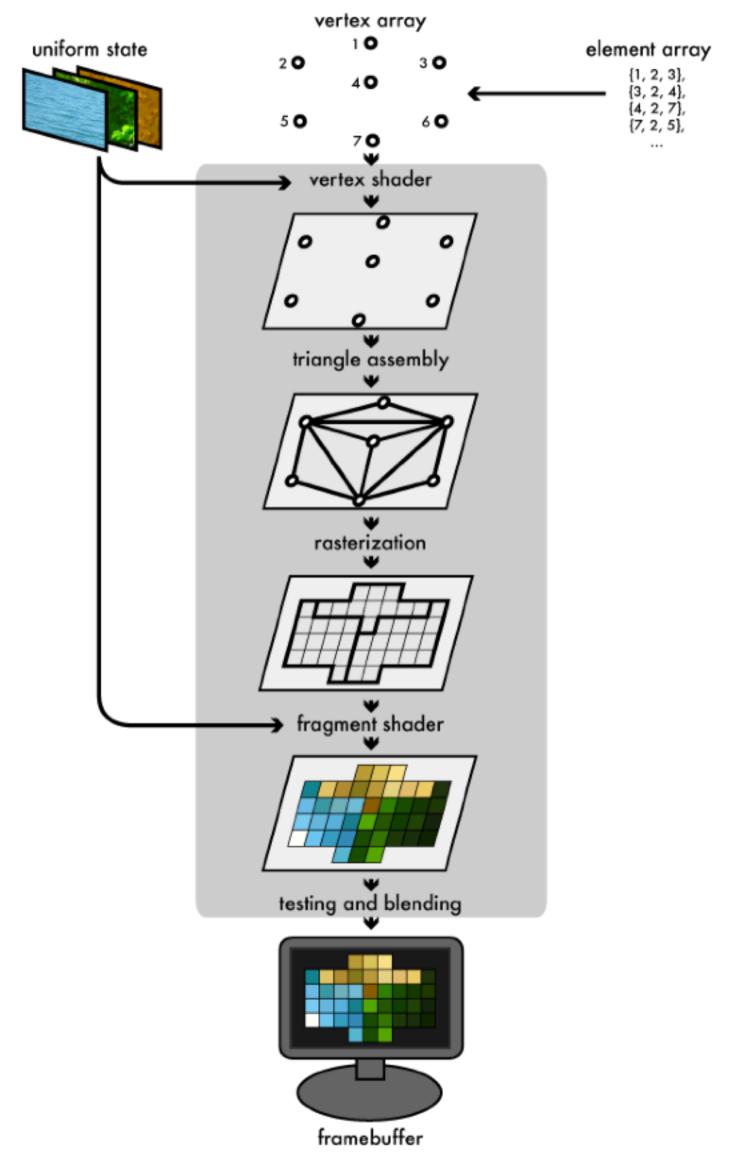
Dynamic Patterns

Realization



WebGL Rendering Pipeline

Source: https://duriansoftware.com/joe/an-intro-to-modernopengl.-chapter-1:-the-graphics-pipeline

 GPU is designed to efficiently process a big amount simple tasks in parallel

shaders (geometry) and fragment shaders (pixel coloring) with GLSL

WebGL allows user to program vertex

fully leverage GPU's power to achieve amazing results

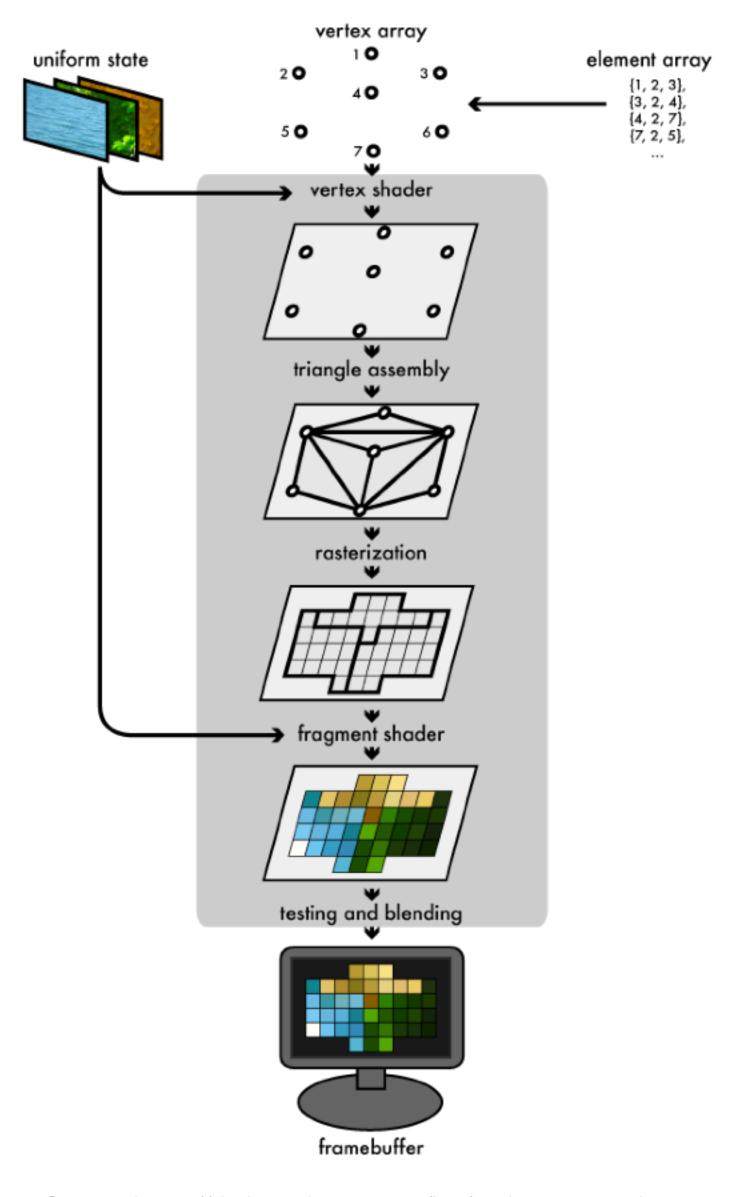
Programming shaders enables us to

Realization

Dynamic Patterns

- GPU is designed to efficiently process a big amount simple tasks in parallel
- WebGL allows user to program vertex shaders (geometry) and fragment shaders (pixel coloring) with GLSL
- Programming shaders enables us to fully leverage GPU's power to achieve amazing results

WebGL Rendering Pipeline



Source: https://duriansoftware.com/joe/an-intro-to-modernopengl.-chapter-1:-the-graphics-pipeline

Realization

Dynamic Patterns

```
#ifdef GL_ES
precision mediump float;
#endif

uniform vec2 u_resolution;
uniform vec2 u_mouse;
uniform float u_time;

void main() {
    vec2 st = gl_FragCoord.xy/u_resolution;
    gl_FragColor = vec4(st.x,st.y,0.0,1.0);
}
```

Fragment Shader Example. Source: https://thebookofshaders.com/

