Part 1

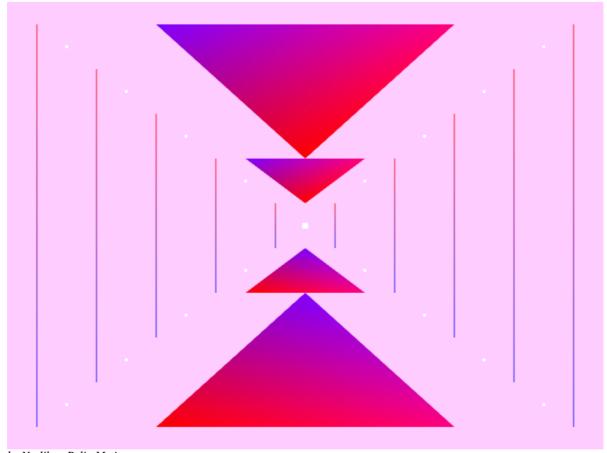
```
C:\xampp\xampp_start.exe

XAMPP now starts as a console application.

Instead of pressing Control-C in this console window, please use xampp_stop.exe to stop XAMPP, because it lets XAMPP end any current transactions and cleanup gracefully.

2023-12-11 12:56:20 0 [Note] Using unique option prefix 'key_buffer' is error-prone and can break in the future. Please use the full name 'key_buffer_size' instead.
```

Part 2



by Neslihan Pelin Metin

This project aims to demonstrate fundamental WebGL concepts by rendering basic shapes on a canvas using JavaScript. It asks for us to use points, lines, and triangles with different sizes and colors in our drawings. I think that my drawing meets the requirements in that sense.

The HTML file contains a canvas element for rendering WebGL graphics and references an external JavaScript file (project6.js) responsible for handling WebGL operations.

The JavaScript code starts with initializing and executing the WebGL rendering. The vertex shader computes vertex positions and colors, while the fragment shader determines how pixel colors are received. After that, the **InitDemo** function respectively initializes the WebGL context, compiles the shaders, defines the vertex data, and organizes the rendering. There are three drawing operations for different shapes.

- Points: Draws various points of different sizes using gl.POINTS.
- Lines: Renders lines using gl.LINES.
- Triangles: Draws triangles using gl.TRIANGLES.

```
// Vertex shader code defining vertex positions and colors
var vertexShaderText = /* ... */
// Fragment shader code defining how fragments receive color
var fragmentShaderText = /* ... */
var InitDemo = function () {
    // ... WebGL context initialization ...
    // Compile shaders, create shader program, and link it
    // ... Shader compilation, linking, and validation ...
    // Define vertices for different shapes with colors
   var vertices = /* ... Definition of vertices for points, lines, and triangles
*/
    // Create and bind buffer for the vertices data
    // ... Buffer creation and binding ...
    // Specify attribute locations for position and color
   // ... Attribute location definitions ...
    // Configure interpretation of attribute data
    // ... Attribute data interpretation ...
    // Enable vertex attribute arrays
    // ... Enabling attribute arrays ...
    // Set point size using a uniform
    // ... Setting point size using a uniform variable ...
    // Perform rendering of points, lines, and triangles
   // ... Rendering operations ...
};
```