Exemple complet (quasi): vertex shader

```
<script id="shader-vs" type="x-shader/x-vertex">
attribute vec3 aVertexPosition;
attribute vec4 aVertexColor;
uniform mat4 uMVMatrix;
uniform mat4 uPMatrix;
varying vec4 vColor;
void main()
      gl_Position = uPMatrix * uMVMatrix * vec4(aVertexPosition, 1.0);
      vColor = aVertexColor;
</script>
```

Exemple complet (quasi): fragment shader

```
<script id="shader-fs" type="x-shader/x-fragment">

varying vec4 vColor;

void main()
{
    gl_FragColor = vColor;
}
</script>
```

```
var shaderProgram;
 function initShaders() {
    var fragmentShader = getShader(gl, "shader-fs");
    var vertexShader = getShader(gl, "shader-vs");
    shaderProgram = gl.createProgram();
    gl.attachShader(shaderProgram, vertexShader);
    gl.attachShader(shaderProgram, fragmentShader);
    gl.linkProgram(shaderProgram);
    gl.useProgram(shaderProgram);
    shaderProgram.vertexPositionAttribute = gl.getAttribLocation(shaderProgram,
"aVertexPosition");
    gl.enableVertexAttribArray(shaderProgram.vertexPositionAttribute);
    shaderProgram.vertexColorAttribute = gl.getAttribLocation(shaderProgram, "aVertexColor");
    gl.enableVertexAttribArray(shaderProgram.vertexColorAttribute);
    shaderProgram.pMatrixUniform = gl.getUniformLocation (shaderProgram, "uPMatrix");
    shaderProgram.mvMatrixUniform = gl.getUniformLocation (shaderProgram, "uMVMatrix");
```

```
var pyramidVertexPositionBuffer; var pyramidVertexColorBuffer;
function initBuffers() {
   pyramidVertexPositionBuffer = gl.createBuffer();
  gl.bindBuffer(gl.ARRAY_BUFFER, pyramidVertexPositionBuffer);
  var vertices = [
     0.0, 0.5, 0.0, -0.5, -0.5, 0.5, 0.5, -0.5, 0.5, // front face
     0.0, 0.5, 0.0, 0.5, -0.5, 0.5, 0.5, -0.5, -0.5, // right face
     0.0, 0.5, 0.0, 0.5, -0.5, -0.5, -0.5, -0.5, -0.5, // back face
     0.0, 0.5, 0.0, -0.5, -0.5, -0.5, -0.5, 0.5 // left face
  gl.bufferData (gl.ARRAY_BUFFER, new Float32Array(vertices), gl.STATIC DRAW);
   pyramidVertexPositionBuffer.itemSize = 3;
  pyramidVertexPositionBuffer.numItems = 12;
```

```
function drawScene() {
  gl.viewport (0, 0, gl.viewportWidth, gl.viewportHeight);
  gl.clear (gl.COLOR BUFFER BIT | gl.DEPTH BUFFER BIT);
  gl.bindBuffer (gl.ARRAY_BUFFER, pyramidVertexPositionBuffer);
  gl.vertexAttribPointer (shaderProgram.vertexPositionAttribute,
                         pyramidVertexPositionBuffer.itemSize, gl.FLOAT, false, 0, 0);
  gl.bindBuffer (gl.ARRAY BUFFER, pyramidVertexColorBuffer);
  gl.VertexAttribPointer (shaderProgram.vertexColorAttribute,
                         pyramidVertexColorBuffer.itemsize, gl.FLOAT, false, 0, 0);
  mat4.perspective (45, gl.viewportWidth/gl.viewportHeigth, 0.1, 100.0, pMatrix);
  mat4.lookAt (/*OBS*/5.0, 0.0, 0.0, /*VRP*/0.0, 0.0, 0.0, /*VUP*/0.0, 1.0, 0.0, mvMatrix);
  setMatrixUniforms ();
  gl.drawArrays(gl.TRIANGLES, 0, pyramidVertexPositionBuffer.numItems);
```