

Buffer Objects

Creates a new buffer object: Object createBuffer() Note: Corresponding OpenGL ES function is GenBuffers

Binds an empty array buffer to the object: void bindBuffer(enum target, Object buffer) target: ARRAY_BUFFER, ELEMENT_ARRAY_BUFFER

Assigns the passed values to the target: void bufferData(enum target, Object data, enum usage) target and usage: Same as for bufferData above

Uniforms and Attributes

Index of the attribute: long getAttribLocation(Object program, string name)

Index of the uniform variable: uint getUniformLocation(Object program, string name)

Passes the information from buffer to attribute: void vertexAttribPointer(uint index, int size, enum type, bool normalized, long stride, long offset) type: BYTE, SHORT, UNSIGNED_{BYTE, SHORT}, FIXED, FLOAT index: [0, MAX_VERTEX_ATTRIBS - 1] stride: [0, 255] offset, stride: must be a multiple of the type size in WebGL

Storage Qualifiers

attribute : Linkage between a vertex shader and OpenGL ES for per-vertex data

uniform : Value does not change across the primitive being processed, uniforms form the linkage between a shader, OpenGL ES, and the application

varying : Linkage between a vertex shader and fragment shader for interpolated data

Programs and shaders

Creates a shader object: Object createShader(enum type) type: VERTEX_SHADER, FRAGMENT_SHADER

Creates a program: Object createProgram()

Assigns a source program to the object: ** void shaderSource(Object shader, string source)

Attach the shader to the program: void attachShader(Object program, Object shader)

Compiles the shader: void compileShader(Object shader)

Links the attached shader: void linkProgram(Object program)

Uses the combined shaders: void useProgram(Object program)

Writing to the draw buffer

Draws the given array: void drawArrays(enum mode, int first, long count) mode: POINTS, LINE_STRIP, LINE_LOOP, LINES, TRIANGLE_STRIP, TRIANGLE_FAN, TRIANGLES first: May not be a negative value.

Draws the passed element void drawElements(enum mode, long count, enum type, long offset) mode: POINTS, LINE_STRIP, LINE_LOOP, LINES, TRIANGLE_STRIP, TRIANGLE_FAN, TRIANGLES type: UNSIGNED_BYTE, UNSIGNED_SHORT

Precision

highp : Satisfies minimum requirements for the vertex language. Optional in the fragment language.

mediump: Satisfies minimum requirements for the fragment language. Its range and precision is between that provided by lowp and highp.

lowp: Range and precision can be less than mediump, but still represents all color values for any color channel.



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