Name

gl FragDepth — establishes a depth value for the current fragment

Declaration

out float gl FragDepth;

Description

Available only in the fragment language, *gl_FragDepth* is an output variable that is used to establish the depth value for the current fragment. If depth buffering is enabled and no shader writes to *gl_FragDepth*, then the fixed function value for depth will be used (this value is contained in the z component of *gl_FragCoord*) otherwise, the value written to *gl_FragDepth* is used. If a shader statically assigns to *gl_FragDepth*, then the value of the fragment's depth may be undefined for executions of the shader that take that path. That is, if the set of linked fragment shaders statically contain a write to *gl_FragDepth*, then it is responsible for always writing it.

Version Support

	OpenGL Shading Language Version											
Variable Name	1.10	1.20	1.30	1.40	1.50	3.30	4.00	4.10	4.20	4.30	4.40	4.50
gl_FragDepth	~	~	~	/	~	~	~	~	~	~	✓	✓

See Also

gl_FragCoord

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