vec2str(vec)

MATRIX LEGEND Matrix() color: Color(r.9.b.a=255) translate(x.9.z) rotate(x,y,z) vec: Vector3 / Vector4 scale(x,9,z) mat: Matrix tex: Material / RTT / texture handle inverse() rtt: Render Target shadow(planeVec.li9htVec) reflect(planeVec) texHandle: texture handle eyelatium: Vector3 lookAt(eye.at.up) key: "a" or KEY_SPACE etc. m(row.col) su.tv: UV coordinates (floats) row(index) col(index) nx.ny.nz: normal 01.02.03: Ventex bind(kind) VECTOR **EVENTS** Vector3(x,y,z) Vector4(x,9,z,w) LimitO cross(vec) _shutdown() get() _update(dt) colorO _render() ma9O _render2BO. ma9590 BASE lerp(b.t) ne9() ShowMessage(caption, text) normalize() LogString(text) m(index.val) ExitGame() x0,90,z0,w0 RestartGame() IsDebu9Mode() RENDERER SetFPS(fps) ClearScene(color) dofile(scriptName) CameraPerspective(fov.near.far.flipLH) loadfile(fileName) CameraOrthographic(w.h.near.fart.flipLH) 9etTime() BindTexture(tex) GetResolution() GetMatrix(kind) Color(r.9.b.a=255) IsFocused() ColorLinear(r.9.b.a=1.0) RenderState(kind.state) str2vec(text)

ToggleWireframe(state)

getFinalTransform()

SetFog(color.kind.start.end) addNode(node) SetFog(color.kind.density) addMesh(mesh) ClearFo9() draw(mat) SamplerState(stage.kind.state) drawSubset(index, mat) EnableLi9htin9(state) 9etMeshes() AmbientColor(color) 9etMeshParts() ClearTar9et() 9etLi9hts() DrawBox(mat.dims.color) getTargets() DrawQuad(x1.x2.91.92.color.flipY) 9etNodes() DrawQuad3D(x1,x2,91,92,z1,z2,color) findMesh(name) DrawPolygon(v1.v2.v3) findLi9ht(name) CullMode(mode) findTar9et(name) FillScreen(color,flipY) findNode(name) RegisterFontFile(path) getMeta(name) SCENE MESH Scene(modelName.loadMaterials=true.optimizeMesh=false) Mesh() draw(mat) addFGroup(part) drawSubset(index.mat) addPart(part) loadModel(modelName.loadMaterials=true.optimizeMesh=false) draw(mat) loadScene(modelName.loadMaterials=true.optimizeMesh=false) clone() 9etMeshes() 9etFGroups() 9etLi9hts() 9etParts() getFlattenNodes() clear() getTargets() setName(name) findMesh(name) 9etName() findLi9ht(name) setMaterial(stage.tex) findTar9et(name) 9etMaterial(stage) getRootNode() PART / FACEGROUP NODE FaceGroup() NodeO clone() cloneO addVertex(vert) 9etName() addIndex(index) setName(name) addTrian9le(a.b.c) 9etTransform() setMaterial(sta9e.mat) setTransform(mat)

9etMaterial(stage)

9etMaterialSta9e()	9etHandle()	
draw(mat)	bind()	
build()	EFFECT	
calcNormals()	Effect(effectPath)	
clear()	begin(technique)	
getVertices()	endO.flushO	
getIndices()	beginPass(pass)	
ATERIAL	endPass()	
Material()	commit()	
Material(textureName)	setBool(name,val)	
Material(w.h)	setFloat(name.val)	
setSamplerState(sampler.state)	setMatrix(name,mat)	
getSamplerState(sampler)	setVector3(name.vec)	
loadFile(textureName)	setVector4(name,vec)	
res()	setInte9er(name,val)	
data()	setTexture(name.texHandl	
getHandle(slot)	setTexture(name.slot.mat)	
setHandle(slot.texHandle)	setTexture(name.rtt)	
setDiffuse(color)	LIGHT	
setAmbient(color)	Li9ht(slot)	
setSpecular(color)	enable(state,slot)	
setEmission(color)	setPosition(vec)	
setPower(val)	setDirection(vec)	
setOpacity(val)	setDiffuse(color)	
alphaIsTransparency(state)	setSpecular(color)	
setShaded(state)	setAmbient(color)	
ERTEX	setRan9e(val)	
Vertex(x.y.z.su.tv.color.nx.ny.nz)	setFalloff(val)	
get()	setAttenuation(a,b,c)	
ONT	setInnerAn9le(val)	
Font(fontFamily.size.boldness.italic)	setOuterAngle(val)	
drawText(color.text.x.y.w=0.h=0)	setType(kind)	
ENDER TARGET	setSlot(slot)	
RenderTar9et()	9etType()	
RenderTar9et(w.h)	9etSlot()	
RenderTar9et(w.h.hasDerth=false)		

INPUT

GetKey(key)

GetKeyDown(key)

GetKeyUp(key)

GetMouseXYO

GetMouseDelta()

SetMouseXY(x,9)

GetMouse(button)

GetMouseDown(button)

GetMouseUp(button)

IsCursorVisible()

ShowCursor(state)

GetCursorMode()

SetCursorMode(mode)

ShowCursor(state)

GLOBALS

RENDERER

PRIMITIVEKIND_POINTLIST

PRIMITIVEKIND_LINELIST

PRIMITIVEKIND_LINESTRIP

PRIMITIVEKIND_TRIANGLELIST

PRIMITIVEKIND_TRIANGLESTRIP

PRIMITIVEKIND_TRIANGLEFAN

MATRIXKIND_VIEW

MATRIXKIND_PROJECTION

MATRIXKIND_TEXTUREØ

MATRIXKIND_TEXTURE1

MATRIXKIND_TEXTURE2

MATRIXKIND_TEXTURE3

MATRIXKIND_TEXTURE4

MATRIXKIND_TEXTURE5

MATRIXKIND_TEXTURE6

MATRIXKIND_TEXTURE7

MATRIXKIND_WORLD

CLEARFLAG_COLOR

CLEARFLAG_DEPTH

CLEARFLAG_STENCIL

CLEARFLAG_STANDARD

TEXTURESLOT_ALBEDO

TEXTURESLOT_SPECULAR

TEXTURESLOT_NORMAL

TEXTURESLOT_DISPLACE

TEXTURESLOT_USER_END

MAX_TEXTURE_SLOTS

FOGKIND_NONE

FOGKIND_EXP

FOGKIND_EXP2

FOGKIND_LINEAR

WORLD

VIEW

PROJ

CULLKIND_NONE

CULLKINDLCW

CULLKINDLCCW

LIGHTKIND_DIRECTIONAL

LIGHTKIND_POINT

LIGHTKIND_SPOT

RENDERSTATE_ZENABLE

RENDERSTATE_FILLMODE

RENDERSTATE_SHADEMODE

RENDERSTATE_ZWRITEENABLE

RENDERSTATE_ALPHATESTENABLE

RENDERSTATE_LASTPIXEL



RENDERSTATE_SRCBLEND

RENDERSTATE_DESTBLEND

RENDERSTATE_CULLMODE

RENDERSTATE_ZFUNC

RENDERSTATE_ALPHAREF

RENDERSTATE_ALPHAFUNC

RENDERSTATE_DITHERENABLE

RENDERSTATE_ALPHABLENDENABLE

RENDERSTATE_FOGENABLE

RENDERSTATE_SPECULARENABLE

RENDERSTATE_FOGCOLOR

RENDERSTATE_FOGTABLEMODE

RENDERSTATE_FOGSTART

RENDERSTATE_FOGEND

RENDERSTATE_FOGDENSITY

RENDERSTATE_RANGEFOGENABLE

RENDERSTATE_STENCILENABLE

RENDERSTATE_STENCILFAIL

RENDERSTATE_STENCILZFAIL

RENDERSTATE_STENCILPASS

RENDERSTATE_STENCILFUNC

RENDERSTATE_STENCILREF

RENDERSTATE_STENCILMASK

RENDERSTATE_STENCILWRITEMASK

RENDERSTATE_TEXTUREFACTOR

RENDERSTATE_WRAP@

RENDERSTATE_WRAP1

RENDERSTATE_WRAP2

RENDERSTATE_WRAP3

RENDERSTATE_WRAP4

RENDERSTATE_WRAP5

RENDERSTATE_WRAP6

RENDERSTATE_WRAP7

RENDERSTATE_CLIPPING

RENDERSTATE_LIGHTING

RENDERSTATE_AMBIENT

RENDERSTATE_FOGVERTEXMODE

RENDERSTATE_COLORVERTEX

RENDERSTATE_LOCALVIEWER

RENDERSTATE_NORMALIZENORMALS

RENDERSTATE_DIFFUSEMATERIALSOURCE

RENDERSTATE_SPECULARMATERIALSOURCE

RENDERSTATE_AMBIENTMATERIALSOURCE

RENDERSTATE_EMISSIVEMATERIALSOURCE

RENDERSTATE_VERTEXBLEND

RENDERSTATE_CLIPPLANEENABLE

RENDERSTATE_POINTSIZE

RENDERSTATE_POINTSIZE_MIN

RENDERSTATE_POINTSPRITEENABLE

RENDERSTATE_POINTSCALEENABLE

RENDERSTATE_POINTSCALE_A

RENDERSTATE_POINTSCALE_B

RENDERSTATE_POINTSCALE_C

RENDERSTATE_MULTISAMPLEANTIALIAS

RENDERSTATE_MULTISAMPLEMASK

RENDERSTATE_PATCHEDGESTYLE

RENDERSTATE_DEBUGMONITORTOKEN

RENDERSTATE_POINTSIZE_MAX

RENDERSTATE_INDEXEDVERTEXBLENDENABLE

RENDERSTATE_COLORWRITEENABLE

RENDERSTATE_TWEENFACTOR

RENDERSTATE_BLENDOP

RENDERSTATE_NORMALDEGREE

RENDERSTATE_SCISSORTESTENABLE

RENDERSTATE_SLOPESCALEDEPTHBIAS

RENDERSTATE_ANTIALIASEDLINEENABLE

RENDERSTATE_MINTESSELLATIONLEVEL

RENDERSTATE_MAXTESSELLATIONLEVEL

RENDERSTATE_ADAPTIVETESS_X

RENDERSTATE_ADAPTIVETESS_Y

RENDERSTATE_ADAPTIVETESS_Z

RENDERSTATE_ADAPTIVETESS_W

RENDERSTATE_ENABLEADAPTIVETESSELLATION

RENDERSTATE_TWOSIDEDSTENCILMODE



RENDERSTATE_CCW_STENCILFAIL

RENDERSTATE_CCW_STENCILZFAIL

RENDERSTATE_CCW_STENCILPASS

RENDERSTATE_CCW_STENCILFUNC

RENDERSTATE_COLORWRITEENABLE1

RENDERSTATE_COLORWRITEENABLE2

RENDERSTATE_COLORWRITEENABLE3

RENDERSTATE_BLENDFACTOR

RENDERSTATE_SRGBWRITEENABLE

RENDERSTATE_DEPTHBIAS

RENDERSTATE_WRAP8

RENDERSTATE_WRAP9

RENDERSTATE_WRAP10

RENDERSTATE_WRAP11

RENDERSTATE_WRAP12

RENDERSTATE_WRAP13

RENDERSTATE_WRAP14

RENDERSTATE_WRAP15

RENDERSTATE_SEPARATEALPHABLENDENABLE

RENDERSTATE_SRCBLENDALPHA

RENDERSTATE_DESTBLENDALPHA

RENDERSTATE_BLENDOPALPHA

SAMPLERSTATE_ADDRESSU

SAMPLERSTATE_ADDRESSV

SAMPLERSTATE_ADDRESSW

SAMPLERSTATE_BORDERCOLOR

SAMPLERSTATE_MAGFILTER

SAMPLERSTATE_MINFILTER

SAMPLERSTATE_MIPFILTER

SAMPLERSTATE_MIPMAPLODBIAS

SAMPLERSTATE_MAXMIPLEVEL

SAMPLERSTATE_MAXANISOTROPY

SAMPLERSTATE_SRGBTEXTURE

SAMPLERSTATE_ELEMENTINDEX

SAMPLERSTATE_DMAPOFFSET

TEXF_NONE

TEXF_POINT

TEXF_LINEAR

TEXF_ANISOTROPIC

TEXF_PYRAMIDALQUAD

TEXF_GAUSSIANQUAD

TEXA_WRAP

TEXA_MIRROR

TEXA_CLAMP

TEXA_BORDER

TEXA_MIRRORONCE

INPUT

MOUSE_LEFT_BUTTON

MOUSE_MIDDLE_BUTTON

MOUSE_RIGHT_BUTTON

MOUSE_WHEEL_UP

MOUSE_WHEEL_DOWN

CURSORMODE_DEFAULT

CURSORMODE_CENTERED

CURSORMODE_WRAPPED

KEY_LBUTTON

KEY_RBUTTON

KEY_CANCEL

KEY_MBUTTON

KEY_XBUTTON1

KEY_XBUTTON2

KEY_BACK

KEY_TAB

KEY_CLEAR

KEY_RETURN

KEY_SHIFT

KEY_CONTROL

NEON86

KEY_PAUSE KEY_CAPITAL KEY_KANA KEY_HANGEUL KEY_HANGUL KEY_JUNJA KEY_FINAL KEY_HANJA KEY_KANJI KEY_ESCAPE KEY_CONVERT	KEY_NUMPAD2 KEY_NUMPAD3 KEY_NUMPAD4 KEY_NUMPAD5 KEY_NUMPAD6 KEY_NUMPAD7 KEY_NUMPAD8 KEY_NUMPAD9 KEY_MULTIPLY KEY_ADD KEY_SEPARATOR KEY_SUBTRACT
KEY_NONCONVERT	KEYLDECIMAL
KEY_ACCEPT	KEY_DIVIDE
KEY_MODECHANGE	KEY_F1
KEY_SPACE	KEY_F2
KEY_PRIOR	KEY_F3
KEY_NEXT	KEY_F4
KEYLEND	KEY_F5
KEY_HOME	KEY_F6
KEY_LEFT	KEY_F7
KEY_UP	KEY_F8
KEY_RIGHT	KEY_F9
KEY_DOWN	KEY_F10
KEY_SELECT	KEY_F11
KEY_PRINT	KEY_F12
KEY_EXECUTE	KEY_F13
KEY_SNAPSHOT	KEY_F14
KEYLINSERT	KEY_F15
KEY_DELETE	KEY_F16
KEY_HELP	KEY_F17
KEY_LWIN	KEY_F18
KEY_RWIN	KEY_F19
KEY_APPS	KEY_F20
KEY_SLEEP	KEY_F21
KEY_NUMPAD0	KEY_F22
KEY_NUMPAD1	KEY_F23

KEY_F24

KEY_NAVIGATION_VIEW

KEY_NAVIGATION_MENU

KEY_NAVIGATION_UP

KEY_NAVIGATION_DOWN

KEY_NAVIGATION_LEFT

KEY_NAVIGATION_RIGHT

KEY_NAVIGATION_ACCEPT

KEY_NAVIGATION_CANCEL

KEYLNUMLOCK

KEY_SCROLL

KEYLOEM_NECLEQUAL

KEYLOEM_FJ_JISHO

KEY_OEM_FJ_MASSHOU

KEYLOEMLFJLTOUROKU

KEY_OEM_FJ_LOYA

KEYLOEM_FJ_ROYA

KEYLLSHIFT

KEY_RSHIFT

KEY_LCONTROL

KEY_RCONTROL

KEY_LMENU

KEY_RMENU

KEY_BROWSER_BACK

KEY_BROWSER_FORWARD

KEY_BROWSER_REFRESH

KEY_BROWSER_STOP

KEY_BROWSER_SEARCH

KEY_BROWSER_FAVORITES

KEY_BROWSER_HOME

KEY_VOLUME_MUTE

KEY_VOLUME_DOWN

KEY_VOLUME_UP

KEY_MEDIA_NEXT_TRACK

KEY_MEDIA_PREV_TRACK

KEY_MEDIA_STOP

KEY_MEDIA_PLAY_PAUSE

KEY_LAUNCH_MAIL

KEY_LAUNCH_MEDIA_SELECT

KEY_LAUNCH_APP1

KEY_LAUNCH_APP2

KEYLOEM_1

KEY_OEM_PLUS

KEY_OEM_COMMA

KEY_OEM_MINUS

KEY_OEM_PERIOD

KEYLOEML2

KEYLOEML3

KEY_GAMEPAD_A

KEY_GAMEPAD_B

KEY_GAMEPAD_X

KEY_GAMEPAD_Y

KEY_GAMEPAD_RIGHT_SHOULDER

KEY_GAMEPAD_LEFT_SHOULDER

KEY_GAMEPAD_LEFT_TRIGGER

KEY_GAMEPAD_RIGHT_TRIGGER

KEY_GAMEPAD_DPAD_UP

KEY_GAMEPAD_DPAD_DOWN

KEY_GAMEPAD_DPAD_LEFT

KEY_GAMEPAD_DPAD_RIGHT

KEY_GAMEPAD_MENU

KEY_GAMEPAD_VIEW

KEY_GAMEPAD_LEFT_THUMBSTICK_BUTTON

KEY_GAMEPAD_RIGHT_THUMBSTICK_BUTTON

KEY_GAMEPAD_LEFT_THUMBSTICK_UP

KEY_GAMEPAD_LEFT_THUMBSTICK_DOWN

KEY_GAMEPAD_LEFT_THUMBSTICK_RIGHT

KEY_GAMEPAD_LEFT_THUMBSTICK_LEFT

KEY_GAMEPAD_RIGHT_THUMBSTICK_UP

KEY_GAMEPAD_RIGHT_THUMBSTICK_DOWN

KEY_GAMEPAD_RIGHT_THUMBSTICK_RIGHT

KEY_GAMEPAD_RIGHT_THUMBSTICK_LEFT

KEY_OEM_4

KEYLOEML5



KEYLOEML6

KEYLOEML7

KEY_OEM_8

KEYLOEMLAX

KEYLOEM_102

KEY_ICO_HELP

KEY_ICO_00

KEY_PROCESSKEY

KEY_ICO_CLEAR

KEY_PACKET

KEY_OEM_RESET

KEY_OEM_JUMP

KEY_OEM_PA1

KEY_OEM_PA2

KEY_OEM_PA3

KEYLOEMLWSCTRL

KEYLOEMLCUSEL

KEYLOEMLATTN

KEY_OEM_FINISH

KEY_OEM_COPY

KEY_OEM_AUTO

KEYLOEMLENLW

KEY_OEM_BACKTAB

KEY_ATTN

KEY_CRSEL

KEY_EXSEL

KEY_EREOF

KEY_PLAY

KEY_ZOOM

KEY_NONAME

KEY_PA1

KEY_OEM_CLEAR