vec2str(vec)

LEGEND color: Color(r.9.b.a=255) vec: Vector3 / Vector4 mat: Matrix tex: Material / RTT / texture handle rtt: Render Target texHandle: texture handle eyelatium: Vector3 key: "a" or KEY_SPACE etc. su.tv: UV coordinates (floats) nx.ny.nz: normals: EVENTS _init() _shutdown() Lupdate(dt) _render() _render2DO BASE ShowMessage(caption, text) LogString(text) ExitGame() RestartGame() IsDebu9Mode() SetFPS(fps) dofile(scriptName) loadfile(fileName) 9etTime() MATH Color(r.9.b.a=255) ColorLinear(r.9.b.a=1.0) str2vec(text)

MATRIX Matrix() translate(x.y.z) rotate(x,y,z) scale(x,9,z) inverse() shadow(planeVec.li9htVec) reflect(planeVec) lookAt(eye.at.up) m(row.col) row(index) col(index) bind(kind) VECTOR Vector3(x,y,z) Vector4(x,9,z,w) cross(vec) get() colorO ma9O ma9590 lere(b.t) ne9() normalize() m(index.val) x0,90,z0,w0 RENDERER ClearScene(color) CameraPerspective(fov.near.far.flipLH) CameraOrthographic(w.h.near.fart.flipLH) BindTexture(tex) GetResolution() GetMatrix(kind) RenderState(kind.state) ToggleWireframe(state)

SetFog(color.kind.start.end)

SetFog(color.kind.density) 9etMeshes() ClearFo9() getMeshParts() SamplerState(stage.kind.state) 9etLi9hts() EnableLighting(state) 9etTar9ets() AmbientColor(color) 9etNodes() ClearTar9et() findMesh(name) DrawBox(mat.dims.color) findLight(name) DrawQuad(x1.x2.91.92.color.flipY) findTar9et(name) CullMode(mode) findNode(name) FillScreen(color,flipY) 9etMeta(name) RegisterFontFile(path) MESH SCENE Mesh() Scene(modelName.loadMaterials=true.optimizeMesh=false) addFGroup(part) draw(mat) addPart(part) drawSubset(index.mat) draw(mat) loadModel(modelName.loadMaterials=true.optimizeMesh=false) cloneO loadScene(modelName.loadMaterials=true.optimizeMesh=false) 9etFGroups() 9etMeshes() 9etParts() getLights() clear() getFlattenNodes() setName(name) 9etTar9ets() 9etName() findMesh(name) setMaterial(stage.tex) findLight(name) 9etMaterial(stage) findTar9et(name) PART / FACEGROUP getRootNode() FaceGroup() NODE cloneO NodeO addVertex(vert) cloneO addIndex(index) 9etName() 9etTransform() addTrian9le(a,b,c) setMaterial(sta9e.mat) setTransform(mat) 9etMaterial(stage) 9etFinalTransform() 9etMaterialStage() addNode(node) draw(mat) addMesh(mesh) buildO draw(mat) calcNormals() drawSubset(index, mat)

clearO getVertices() 9etIndices() MATERIAL Material() Material(textureName) Material(w.h) setSamplerState(sampler.state) 9etSamplerState(sampler) loadFile(textureName) res() dataO getHandle(slot) setHandle(slot.texHandle) setDiffuse(color) setAmbient(color) setSpecular(color) setEmission(color) setPower(val) setOpacity(val) alphaIsTransparency(state) setShaded(state) VERTEX Vertex(x,y,z,su,tv,color,nx,ny,nz) get() FONT Font(fontFamily) drawText(color,text,x,9,w=0,h=0) RENDER TARGET RenderTar9et() RenderTar9et(w.h) RenderTar9et(w.h.hasDepth=false) 9etHandle() bindO EFFECT Effect(effectPath) begin(technique)

endO.flushO beginPass(pass) endPass() commitO setBool(name.val) setFloat(name.val) setMatrix(name,mat) setVector3(name.vec) setVector4(name,vec) setInteger(name,val) setTexture(name.texHandle) setTexture(name.slot.mat) setTexture(name,rtt) LIGHT Light(slot) enable(state.slot) setPosition(vec) setDirection(vec) setDiffuse(color) setSpecular(color) setAmbient(color) setRange(val) setFalloff(val) setAttenuation(a.b.c) setInnerAngle(val) setOuterAn9le(val) setType(kind) setSlot(slot) 9etType() getSlot()

INPUT

GetKey(key) GetKeyDown(key) GetKeyUr(key) GetMouseXY()



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_TEXTURE0
MATRIXKIND_TEXTURE1
MATRIXKIND_TEXTURE3
MATRIXKIND_TEXTURE4
MATRIXKIND_TEXTURE5
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
CULLKIND_CW
CULLKIND_CCW

LIGHTKIND_DIRECTIONAL LIGHTKIND_POINT LIGHTKIND_SPOT

RENDERSTATE_ALPHAREF

RENDERSTATE_ALPHAFUNC

RENDERSTATE_ZENABLE
RENDERSTATE_FILLMODE
RENDERSTATE_SHADEMODE
RENDERSTATE_ZWRITEENABLE
RENDERSTATE_ALPHATESTENABLE
RENDERSTATE_LASTPIXEL
RENDERSTATE_SRCBLEND
RENDERSTATE_DESTBLEND
RENDERSTATE_CULLMODE
RENDERSTATE_ZFUNC



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

RENDERSTATELEMISSIVEMATERIALSOURCE

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



TEXF_ANISOTROPIC

TEXF_PYRAMIDALQUAD

TEXF_GAUSSIANQUAD RENDERSTATE_COLORWRITEENABLE3 RENDERSTATE_BLENDFACTOR RENDERSTATE_SRGBWRITEENABLE TEXA_WRAP RENDERSTATE_DEPTHBIAS TEXA_MIRROR RENDERSTATE_WRAP8 TEXA_CLAMP RENDERSTATE_WRAP9 TEXA_BORDER RENDERSTATE_WRAP10 TEXA_MIRRORONCE RENDERSTATE_WRAP11 INPUT <u>MOUSE_LEFT_BUTTON</u> RENDERSTATE_WRAP12 RENDERSTATE_WRAP13 MOUSE_MIDDLE_BUTTON MOUSE_RIGHT_BUTTON RENDERSTATE_WRAP14 RENDERSTATE_WRAP15 MOUSE_WHEEL_UP MOUSE_WHEEL_DOWN RENDERSTATE_SEPARATEALPHABLENDENABLE RENDERSTATE_SRCBLENDALPHA RENDERSTATE_DESTBLENDALPHA CURSORMODE_DEFAULT CURSORMODE_CENTERED RENDERSTATE_BLENDOPALPHA CURSORMODE_WRAPPED SAMPLERSTATE_ADDRESSU SAMPLERSTATE_ADDRESSV KEY_LBUTTON SAMPLERSTATE_ADDRESSW KEY_RBUTTON SAMPLERSTATE_BORDERCOLOR KEYLCANCEL KEY_MBUTTON SAMPLERSTATE_MAGFILTER KEY_XBUTTON1 SAMPLERSTATE_MINFILTER KEY_XBUTTON2 SAMPLERSTATE_MIPFILTER KEY_BACK SAMPLERSTATE_MIPMAPLODBIAS SAMPLERSTATE_MAXMIPLEVEL KEY_TAB SAMPLERSTATE_MAXANISOTROPY KEY_CLEAR KEY_RETURN SAMPLERSTATE_SRGBTEXTURE **KEY_SHIFT** SAMPLERSTATE_ELEMENTINDEX SAMPLERSTATE_DMAPOFFSET KEY_CONTROL KEY_MENU TEXF_NONE KEY_PAUSE TEXF_POINT KEY_CAPITAL KEY_KANA TEXF_LINEAR

KEY_HANGEUL

KEY_HANGUL

KEY_JUNJA

KEY_HINIA KEY_MULTIPLY KEY_KRNJI KEY_MOD KEY_ESCAPE KEY_SPRATTOR KEY_COMERT KEY_SUBTRACT KEY_NONCONVERT KEY_DECIMAL KEY_ACCEPT KEY_DIVIDE KEY_MODECHANGE KEY_F1 KEY_ARCE KEY_F2 KEY_ARCE KEY_F3 KEY_ARCE KEY_F7 KEY_ARCE KEY_F7 KEY_ARCE KEY_F7 KEY_ARCE KEY_F8 KEY_ARCE KEY_F9 KEY_ARCE KEY_F1 KEY_ARCE KEY_F1 KEY_ARCE KEY_F1 KEY_ARCE KEY_F1 KEY_ARCE KEY_F1 KEY_ARCE KEY_F1 <	KEY_FINAL	KEH NUMBOBO
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KEY_RWINKEY_F19KEY_APPSKEY_F20KEY_SLEEPKEY_F21KEY_NUMPAD0KEY_F22KEY_NUMPAD1KEY_F23KEY_NUMPAD2KEY_F24KEY_NUMPAD3KEY_NAVIGATION_VIEWKEY_NUMPAD4KEY_NAVIGATION_MENUKEY_NUMPAD5KEY_NAVIGATION_UPKEY_NUMPAD6KEY_NAVIGATION_DOWNKEY_NUMPAD7KEY_NAVIGATION_LEFT	KEY_HELP	KEY_F17
KEY_APPSKEY_F20KEY_SLEEPKEY_F21KEY_NUMPAD0KEY_F22KEY_NUMPAD1KEY_F23KEY_NUMPAD2KEY_F24KEY_NUMPAD3KEY_NAVIGATION_VIEWKEY_NUMPAD4KEY_NAVIGATION_MENUKEY_NUMPAD5KEY_NAVIGATION_UPKEY_NUMPAD6KEY_NAVIGATION_DOWNKEY_NUMPAD7KEY_NAVIGATION_LEFT	KEY_LWIN	KEY_F18
KEY_SLEEPKEY_F21KEY_NUMPAD0KEY_F22KEY_NUMPAD1KEY_F23KEY_NUMPAD2KEY_F24KEY_NUMPAD3KEY_NAVIGATION_VIEWKEY_NUMPAD4KEY_NAVIGATION_MENUKEY_NUMPAD5KEY_NAVIGATION_UPKEY_NUMPAD6KEY_NAVIGATION_DOWNKEY_NUMPAD7KEY_NAVIGATION_LEFT	KEY_RWIN	KEY_F19
KEY_NUMPAD0KEY_F22KEY_NUMPAD1KEY_F23KEY_NUMPAD2KEY_F24KEY_NUMPAD3KEY_NAVIGATION_VIEWKEY_NUMPAD4KEY_NAVIGATION_MENUKEY_NUMPAD5KEY_NAVIGATION_UPKEY_NUMPAD6KEY_NAVIGATION_DOWNKEY_NUMPAD7KEY_NAVIGATION_LEFT	KEY_APPS	KEY_F20
KEY_NUMPAD1KEY_F23KEY_NUMPAD2KEY_F24KEY_NUMPAD3KEY_NAVIGATION_VIEWKEY_NUMPAD4KEY_NAVIGATION_MENUKEY_NUMPAD5KEY_NAVIGATION_UPKEY_NUMPAD6KEY_NAVIGATION_DOWNKEY_NUMPAD7KEY_NAVIGATION_LEFT	KEY_SLEEP	KEY_F21
KEY_NUMPAD2KEY_F24KEY_NUMPAD3KEY_NAVIGATION_VIEWKEY_NUMPAD4KEY_NAVIGATION_MENUKEY_NUMPAD5KEY_NAVIGATION_UPKEY_NUMPAD6KEY_NAVIGATION_LEFTKEY_NUMPAD7KEY_NAVIGATION_LEFT	KEY_NUMPAD0	KEY_F22
KEY_NUMPAD3KEY_NAVIGATION_VIEWKEY_NUMPAD4KEY_NAVIGATION_MENUKEY_NUMPAD5KEY_NAVIGATION_UPKEY_NUMPAD6KEY_NAVIGATION_DOWNKEY_NUMPAD7KEY_NAVIGATION_LEFT	KEY_NUMPAD1	KEY_F23
KEY_NUMPAD4 KEY_NUMPAD5 KEY_NUMPAD6 KEY_NAVIGATION_DOWN KEY_NUMPAD7 KEY_NAVIGATION_LEFT	KEY_NUMPAD2	KEY_F24
KEY_NUMPAD5 KEY_NUMPAD6 KEY_NUMPAD7 KEY_NAVIGATION_LEFT	KEY_NUMPAD3	KEY_NAVIGATION_VIEW
KEY_NUMPAD6 KEY_NAVIGATION_DOWN KEY_NUMPAD7 KEY_NAVIGATION_LEFT	KEY_NUMPAD4	KEY_NAVIGATION_MENU
KEY_NUMPAD7 KEY_NAVIGATION_LEFT	KEY_NUMPAD5	KEY_NAVIGATION_UP
	KEY_NUMPAD6	KEY_NAVIGATION_DOWN
KEY_NUMPAD8 KEY_NAVIGATION_RIGHT	KEY_NUMPAD7	KEY_NAVIGATION_LEFT
	KEY_NUMPAD8	KEY_NAVIGATION_RIGHT

KEY_OEM_PLUS

KEYLOEMLCOMMA

KEY_NAVIGATION_ACCEPT KEYLOEM_MINUS KEY_NAVIGATION_CANCEL KEY_OEM_PERIOD KEY_NUMLOCK KEYLOEML2 KEY_SCROLL KEYLOEML3 KEYLOEM_NECLEQUAL KEY_GAMEPAD_A KEY_OEM_FJ_JISHO KEY_GAMEPAD_B KEYLOEM_FJ_MASSHOU KEY_GAMEPAD_X KEY_OEM_FJ_TOUROKU KEY_GAMEPAD_Y KEY_OEM_FJ_LOYA KEY_GAMEPAD_RIGHT_SHOULDER KEY_GAMEPAD_LEFT_SHOULDER KEY_OEM_FJ_ROYA KEY_GAMEPAD_LEFT_TRIGGER KEYLLSHIFT KEY_RSHIFT KEY_GAMEPAD_RIGHT_TRIGGER KEYLLCONTROL KEY_GAMEPAD_DPAD_UP KEY_RCONTROL KEY_GAMEPAD_DPAD_DOWN KEY_LMENU KEY_GAMEPAD_DPAD_LEFT KEY_RMENU KEY_GAMEPAD_DPAD_RIGHT KEY_GAMEPAD_MENU KEY_BROWSER_BACK KEY_BROWSER_FORWARD KEY_GAMEPAD_VIEW KEY_BROWSER_REFRESH KEY_GAMEPAD_LEFT_THUMBSTICK_BUTTON KEY_BROWSER_STOP KEY_GAMEPAD_RIGHT_THUMBSTICK_BUTTON KEY_BROWSER_SEARCH KEY_GAMEPAD_LEFT_THUMBSTICK_UP KEY_BROWSER_FAVORITES KEY_GAMEPAD_LEFT_THUMBSTICK_DOWN KEY_BROWSER_HOME KEY_GAMEPAD_LEFT_THUMBSTICK_RIGHT KEY_VOLUME_MUTE KEY_GAMEPAD_LEFT_THUMBSTICK_LEFT KEY_VOLUME_DOWN KEY_GAMEPAD_RIGHT_THUMBSTICK_UP KEY_VOLUME_UP KEY_GAMEPAD_RIGHT_THUMBSTICK_DOWN KEY_MEDIA_NEXT_TRACK KEYLGAMEPADLRIGHT_THUMBSTICK_RIGHT KEY_MEDIA_PREV_TRACK KEY_GAMEPAD_RIGHT_THUMBSTICK_LEFT KEY_MEDIA_STOP KEYLOEML4 KEY_MEDIA_PLAY_PAUSE KEYLOEML5 KEY_LAUNCH_MAIL KEYLOEML6 KEY_LAUNCH_MEDIA_SELECT KEYLOEML7 KEYLOEML8 KEY_LAUNCH_APP1 KEY_LAUNCH_APP2 KEY_OEM_AX KEYLOEM_1 KEYLOEM_102

KEY_ICO_HELP

KEY_ICO_00



KEY_PROCESSKEY

KEY_ICO_CLEAR

KEY_PACKET

KEYLOEMLRESET

KEYLOEMLJUMP

KEY_OEM_PA1

KEY_OEM_PA2

KEY_OEM_PA3

KEYLOEMLWSCTRL

KEYLOEMLCUSEL

KEYLOEMLATTN

KEYLOEMLFINISH

KEYLOEMLCOPY

KEY_OEM_AUTO

KEY_OEM_ENLW

KEYLOEM_BACKTAB

KEY_ATTN

KEY_CRSEL

KEYLEXSEL

KEY_EREOF

KEY_PLAY

KEY_ZOOM

KEY_NONAME

KEY_PA1

KEYLOEMLCLEAR