# NEON<mark>86</mark>

play()

#### Pause() LEGEND stopO color: Color(n.g.b.a=255) setVolume(vol) vec: Vector3 / Vector4 setPan(val) mat: Matrix setCursor(val) tex: Material / RTT / texture handle loop(state) rtt: Render Target isLoopin90 texHandle: texture handle isPlayin9() eyelatium: Vector3 9etVolume() key: "a" or KEY\_SPACE etc. 9etPan() su.tv: UV coordinates (floats) 9etCursor() nx.ny.nz: normal 9etData() 01.02.03: Ventex MATH **EVENTS** Color(r,9,b,a=255) LimitO ColorLinear(r.9.b.a=1.0) str2vec(text) \_shutdown() vec2str(vec) \_update(dt) MATRIX \_render() \_render2DO MatrixO. \_charInput(letter) translate(x.y.z) rotate(x,y,z) scale(x,y,z) ShowMessage(caption, text) inverse() LogString(text) shadow(planeVec.li9htVec) ExitGame() reflect(planeVec) RestartGame() lookAt(eye.at.up) IsDebu9Mode() m(row.col) SetFPS(fps) row(index) dofile(scriptName) col(index) loadfile(fileName) bind(kind) 9etTime() VECTOR Vector3(x,y,z) AUDIO Vector4(x,9,z,w) cross(vec) SOUND Sound(wavPath) get()

colorO

# NEON<mark>86</mark>

draw(mat)

drawSubset(index.mat)

loadModel(modelName.loadMaterials=true.optimizeMesh=false) ma9() ma9590 loadScene(modelName.loadMaterials=true.optimizeMesh=false) lerp(b,t) 9etMeshes() ne90 9etLi9hts() normalize() 9etFlattenNodes() m(index.val) 9etTar9ets() findMesh(name) x0,90,z0,w0 findLight(name) RENDERER findTar9et(name) ClearScene(color) getRootNode() CameraPerspective(fov.near.far.flipLH) NODE CameraOrtho9raphic(w.h.near.fart.flipLH) Node() BindTexture(tex) cloneO GetResolution() 9etName() GetMatrix(kind) setName(name) IsFocused() getTransform() RenderState(kind.state) setTransform(mat) ToggleWireframe(state) 9etFinalTransform() SetFog(color.kind.start.end) addNode(node) SetFog(color.kind.density) addMesh(mesh) ClearFo9() draw(mat) SamplerState(stage.kind.state) drawSubset(index, mat) 9etMeshes() EnableLi9htin9(state) AmbientColor(color) 9etMeshParts() ClearTar9et() 9etLi9hts() DrawBox(mat.dims.color) 9etTar9ets() DrawQuad(x1,x2,91,92,color,flipY) 9etNodes() DrawQuad3D(x1,x2,91,92,z1,z2,color) findMesh(name) DrawPoly9on(v1.v2.v3) findLight(name) CullMode(mode) findTar9et(name) FillScreen(color,flipY) findNode(name) RegisterFontFile(path) 9etMeta(name) SCENE

Scene(modelName.loadMaterials=true.optimizeMesh=false)

MESH

Mesh()

addFGroup(part)



addPart(part)	setAmbient(color)
draw(mat)	setSpecular(color)
clone()	setEmission(color)
getFGroups()	setPower(val)
getParts()	setOpacity(val)
clear()	alphaIsTransparency(state)
setName(name)	alrhaïsh ahsrakencessaces alrhaTest(state)
getName()	setAlphaRef(val)
setMaterial(stage.tex)	setShaded(state)
getMaterial(stage)	VERTEX
ART / FACEGROUP	Vertex(x,y,z,su,tv,color,nx,ny,nz)
FaceGroup()	9et()
clone()	FONT
addVertex(vert)	Font(fontFamily,size,boldness,italic
addIndex(index)	drawText(color.text.x.9.w=0.h=0.flag
addTrian9le(a.b.c)	measureText(text.fla9s.width)
setMaterial(sta9e.mat)	RENDER TARGET
getMaterial(stage)	RenderTar9et()
getMaterialStage()	RenderTar9et(w.h)
draw(mat)	RenderTar9et(w.h.hasDepth=false)
build()	9etHandle()
calcNormals()	bindO
clear()	EFFECT
getVertices()	Effect(effectPath)
9etIndices()	begin(technique)
ATERIAL	endO.flushO
Material()	beginPass(pass)
Material(textureName)	endPass()
Material(w.h)	commit()
setSamplerState(sampler.state)	setBool(name,val)
9etSamplerState(sampler)	setFloat(name,val)
loadFile(textureName)	setMatrix(name.mat)
res()	setVector3(name,vec)
data()	setVector4(name,vec)
9etHandle(slot)	setInte9er(name.val)
setHandle(slot,texHandle)	setTexture(name.texHandle)
setDiffuse(color)	



setTexture(name.slot.mat) setTexture(name.rtt) LIGHT Light(slot) enable(state.slot) setPosition(vec) setDirection(vec) setDiffuse(color) setSpecular(color) setAmbient(color) setRan9e(val) setFalloff(val) setAttenuation(a,b,c) setInnerAn9le(val) setOuterAngle(val) setType(kind) setSlot(slot) 9etType() 9etSlot() GetKey(key)

## INPUT

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\_TEXTURE@ 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
CULLKIND\_CW
CULLKIND\_CCW

LIGHTKIND\_DIRECTIONAL

LIGHTKIND\_POINT

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 KEY\_HOME **KEY\_LEFT** CURSORMODE\_DEFAULT **KEY\_UP** KEY\_RIGHT CURSORMODE\_CENTERED KEY\_DOWN CURSORMODE\_WRAPPED KEY\_SELECT **KEY\_PRINT KEY\_LBUTTON** KEYLRBUTTON KEYLEXECUTE KEY\_CANCEL KEY\_SNAPSHOT KEY\_MBUTTON **KEY\_INSERT** KEY\_XBUTTON1 KEY\_DELETE KEY\_XBUTTON2 KEY\_HELP KEY\_BACK **KEY\_LWIN** KEY\_TAB **KEY\_RWIN** KEY\_CLEAR KEY\_APPS **KEY\_RETURN** KEY\_SLEEP **KEY\_SHIFT** KEY\_NUMPAD0 **KEY\_CONTROL** KEY\_NUMPAD1 **KEY\_MENU** KEY\_NUMPAD2 KEY\_NUMPAD3 **KEY\_PAUSE** KEY\_CAPITAL KEY\_NUMPAD4 KEY\_KANA KEY\_NUMPAD5 **KEY\_HANGEUL** KEY\_NUMPAD6 KEY\_NUMPAD7 **KEY\_HANGUL KEYLJUNJA** KEY\_NUMPAD8 KEY\_FINAL KEY\_NUMPAD9 KEY\_HANJA **KEY\_MULTIPLY** KEY\_KANJI KEY\_ADD **KEYLESCAPE** KEY\_SEPARATOR **KEY\_CONVERT** KEY\_SUBTRACT KEY\_NONCONVERT KEY\_DECIMAL KEY\_DIVIDE KEY\_ACCEPT KEY\_F1 KEY\_MODECHANGE KEY\_F2 KEY\_SPACE KEY\_F3 KEY\_PRIOR KEY\_F4 KEY\_NEXT KEY\_F5 **KEY\_END** 

# NEON<mark>86</mark>

	VELL L'EQUEDOL
KEY_F6	KEY_LCONTROL
KEY_F7	KEY_RCONTROL
KEY_F8	KEY_LMENU
KEY_F9	KEY_RMENU
KEY_F10	KEY_BROWSER_BACK
KEY_F11	KEY_BROWSER_FORWARD
KEY_F12	KEYLBROWSER_REFRESH
KEY_F13	KEY_BROWSER_STOP
KEY_F14	KEY_BROWSER_SEARCH
KEY_F15	KEY_BROWSER_FAVORITES
KEY_F16	KEY_BROWSER_HOME
KEY_F17	KEY_VOLUME_MUTE
KEY_F18	KEY_VOLUME_DOWN
KEY_F19	KEY_VOLUME_UP
KEY_F20	KEY_MEDIA_NEXT_TRACK
KEY_F21	KEY_MEDIA_PREV_TRACK
KEY_F22	KEY_MEDIA_STOP
KEY_F23	KEY_MEDIA_PLAY_PAUSE
KEY_F24	KEY_LAUNCH_MAIL
KEY_NAVIGATION_VIEW	KEY_LAUNCH_MEDIA_SELECT
KEY_NAVIGATION_MENU	KEY_LAUNCH_APP1
KEY_NAVIGATION_UP	KEY_LAUNCH_APP2
KEY_NAVIGATION_DOWN	KEY_OEM_1
KEY_NAVIGATION_LEFT	KEY_OEM_PLUS
KEY_NAVIGATION_RIGHT	KEY_OEM_COMMA
KEY_NAVIGATION_ACCEPT	KEYLOEM_MINUS
KEY_NAVIGATION_CANCEL	KEY_OEM_PERIOD
KEY_NUMLOCK	KEY_OEM_2
KEY_SCROLL	KEYLOEML3
KEY_OEM_NEC_EQUAL	KEY_GAMEPAD_A
KEYLOEM_FJ_JISHO	KEY_GAMEPAD_B
KEYLOEM_FJ_MASSHOU	KEY_GAMEPAD_X
KEYLOEM_FJ_TOUROKU	KEY_GAMEPAD_Y
KEY_OEM_FJ_LOYA	KEY_GAMEPAD_RIGHT_SHOULDER
KEY_OEM_FJ_ROYA	KEY_GAMEPAD_LEFT_SHOULDER
KEY_LSHIFT	KEY_GAMEPAD_LEFT_TRIGGER
KEY_RSHIFT	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

KEY\_OEM\_5

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

KEYLOEM\_PA1

KEY\_OEM\_PA2

KEY\_OEM\_PA3

KEYLOEMLWSCTRL

KEY\_OEM\_CUSEL

KEYLOEMLATTN

KEY\_OEM\_FINISH

KEY\_OEM\_COPY

KEY\_OEM\_AUTO

KEY\_OEM\_ENLW

KEY\_OEM\_BACKTAB

KEY\_ATTN

**KEYLCRSEL** 

**KEYLEXSEL** 

**KEYLEREOF** 

KEY\_PLAY

KEY\_ZOOM

KEY\_NONAME

KEY\_PA1

KEY\_OEM\_CLEAR