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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: normal 01.02.03: Ventex Sound support: WAV. OGG **EVENTS** _initO _shutdown() _update(dt) _render() _render2DO _charInput(letter) ShowMessage(caption, text) LogString(text) ExitGame() RestartGame() IsDebu9Mode() SetFPS(fps) dofile(scriptName) loadfile(fileName) 9etTime()/GetTime() SaveState(data)

LoadState()

AUDIO

SOUND

```
Sound(path)
    play()
    pause()
    stop()
    setVolume(vol)
    setPan(val)
    setFrequency(val = -1)
    setCursor(val)
    loop(state)
    isLoopin9()
    isPlayin90
    9etVolume()
    9etPan()
    9etFrequency()
    9etCursor()
    9etData()
MATH
   Color(r,9,b,a=255)
   ColorLinear(r.9.b.a=1.0)
   str2vec(text)
   vec2str(vec)
 MATRIX
    MatrixO
    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)
```

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bind(kind)
persp(eye.atpos.up)
ortho(w.h.near.far.flipLH)
orthoEx(l.r.t.b.near.far.flipLH)
VECTOR
Vector3(x.y.z)
Vector4(x.y.z.ω)
cross(vec)
get()
colorO
ma9O
ma9590
lerp(b,t)
ne9O
normalizeO
m(index.val)
x0,90,z0,60
RENDERER
ClearScene(color)
CameraPerspective(fov.near.far.flipLH)
CameraOrtho9raphic(w.h.near.far.flipLH)
CameraOrthographicEx(l.r.t.p.near.far.flipLH)
BindTexture(tex)
GetResolution()
GetMatrix(kind)
IsFocused()
RenderState(kind.state)
ToggleWireframe(state)
SetFo9(color.kind.start.end)
SetFo9(color.kind.density)
ClearFo9()
SamplerState(stage.kind.state)
EnableLi9htin9(state)
ToggleDepthTest(state)
AmbientColor(color)
ClashTangat ()

```
DrawBox(mat.dims.color)
 DrawQuad(x1,x2,91,92,color,flipY)
 DrawQuad3D(x1,x2,91,92,z1,z2,color)
 DrawQuadEx(vec3.color.usesDepth.flipY)
 DrawPolygon(v1.v2.v3)
 CullMode(mode)
 FillScreen(color,flipY)
 RegisterFontFile(path)
SCENE
  Scene(modelName.loadMaterials=true.optimizeMesh=false)
  draw(mat)
  drawSubset(index.mat)
  loadModel(modelName.loadMaterials=true.optimizeMesh=false)
  loadScene(modelName.loadMaterials=true.optimizeMesh=false)
  9etMeshes()
  9etLi9hts()
  9etFlattenNodes()
  9etTar9ets()
  findMesh(name)
  findLi9ht(name)
  findTar9et(name)
  9etRootNode()
NODE
  NodeO
  clone()
  9etName()
  setName(name)
  9etTransform()
  setTransform(mat)
  9etFinalTransform()
  addNode(node)
  addMesh(mesh)
  draw(mat)
  drawSubset(index, mat)
```

9etMeshes()

9etMeshParts()

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9etLi9hts()	MATERIAL	
9etTar9ets()	Material()	
9etNodes()	Material(textureName)	
findMesh(name)	Material(w.h)	
findLi9ht(name)	setSamplerState(sampler.state)	
findTar9et(name)	9etSamplerState(sampler)	
findNode(name)	loadFile(textureName)	
9etMeta(name)	resO	
MESH	dataO	
MeshO	9etHandle(slot)	
addFGroup(part)	setHandle(slot.texHandle)	
addPart(part)	setDiffuse(color)	
draw(mat)	setAmbient(color)	
cloneO	setSpecular(color)	
9etFGroups()	setEmission(color)	
9etParts()	setPower(val)	
clearO	setOpacity(val)	
setName(name)	alphaIsTransparency(state)	
9etName()	alphaTest(state)	
setMaterial(tex)	setAlphaRef(val)	
9etMaterial(matId)	setShaded(state)	
PART / FACEGROUP	VERTEX	
FaceGroup()	Vertex(x.y.z.su.tv.color.nx.ny.nz)	
cloneO	9et()	
addVertex(vert)	FONT	
addIndex(index)	Font(fontFamily,size,boldness,italic)	
addTrian9le(a.b.c)	drawText(color.text.x.9.w=0.h=0.fla9s)	
setMaterial(mat)	measureText(text.fla9s.width)	
9etMaterial()	RENDER TARGET	
draw(mat)	RenderTar9et()	
buildO	RenderTar9et(w,h)	
calcNormals()	RenderTar9et(w.h.hasDerth=false)	
clearO	9etHandle()	
9etVertices()	bindO	
9etIndices()	EFFECT	
	Effect(effectPath)	

begin(technique)

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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) setInnerAn9le(val) setOuterAngle(val) setType(kind) setSlot(slot) 9etType() getSlot()

INPUT

GetKey(key) GetKeyDown(key) GetKeyUp(key) GetMouseXYO

GetMouseDelta() SetMouseXY(x,y) GetMouse(button) GetMouseDown(button) GetMouseUp(button) IsCursorVisible() ShowCursor(state) GetCursorMode() SetCursorMode(mode) ShowCursor(state)

GL OBAL S

RENDERER

PRIMITIVEKIND_POINTLIST PRIMITIVEKIND_LINELIST PRIMITIVEKIND_LINESTRIP PRIMITIVEKIND_TRIANGLELIST PRIMITIVEKIND_TRIANGLESTRIP PRIMITIVEKIND_TRIANGLEFAN

MATRIXKIND_VIEW MATRIXKIND_PROJECTION MATRIXKIND_TEXTURE0 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

LIGHTKIND_DIRECTIONAL LIGHTKIND_POINT LIGHTKIND_SPOT

RENDERSTATE_ZENABLE
RENDERSTATE_SHADEMODE
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_STENCILREF
RENDERSTATE_STENCILWASK
RENDERSTATE_STENCILWRITEMASK

RENDERSTATE_WRAP1
RENDERSTATE_WRAP2
RENDERSTATE_WRAP3
RENDERSTATE_WRAP4
RENDERSTATE_WRAP5
RENDERSTATE_WRAP6
RENDERSTATE_WRAP7
RENDERSTATE_WRAP7
RENDERSTATE_CLIPPING
RENDERSTATE_LIGHTING
RENDERSTATE_AMBIENT

RENDERSTATE_TEXTUREFACTOR

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

KENDEKSTITTE WKIII 12

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

TEXALBORDER

TEXA_MIRRORONCE

FONTFLAG_TOP

FONTFLAG_LEFT

FONTFLAG_CENTER

FONTFLAG_RIGHT

FONTFLAG_VCENTER

FONTFLAG_BOTTOM

FONTFLAG_WORDBREAK

FONTFLAG_SINGLELINE

FONTFLAG_EXPANDTABS

FONTFLAG_NOCLIP

FF_TOP

FF_LEFT

FF_CENTER

FF_RIGHT

FF_VCENTER

FF_BOTTOM

FF_WORDBREAK

FF_SINGLELINE

FF_EXPANDTABS

FF_NOCLIP

RTKINDLCOLOR

RTKIND_DEPTH

RTKIND_COLOR16

RTKIND_COLOR32

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

KEY_MENU

KEY_PAUSE KEY_CAPITAL

KEY_KANA

KEY_HANGEUL

KEY_HANGUL

.....

KEY_JUNJA

KEY_FINAL

KEY_HANJA

KEY_KANJI

KEYLESCAPE

KEY_CONVERT

KEY_NONCONVERT

KEY_MODECHANGE

KEYLACCEPT

KET THOOLIT

KEY_SPACE

KEY_PRIOR

NEON86

KEY_NEXT	KEY_F4
KEY_END	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	KEYLF13
KEY_SNAPSHOT	KEY_F14
KEY_INSERT	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_NUMPAD2	KEY_F24
KEY_NUMPAD3	KEY_NAVIGATION_VIEW
KEY_NUMPAD4	KEY_NAVIGATION_MENU
KEY_NUMPAD5	KEY_NAVIGATION_UP
KEY_NUMPAD6	KEY_NAVIGATION_DOWN
KEY_NUMPAD7	KEY_NAVIGATION_LEFT
KEY_NUMPAD8	KEY_NAVIGATION_RIGHT
KEY_NUMPAD9	KEY_NAVIGATION_ACCEPT
KEY_MULTIPLY	KEY_NAVIGATION_CANCEL
KEY_ADD	KEYLNUMLOCK
KEY_SEPARATOR	KEY_SCROLL
KEY_SUBTRACT	KEYLOEM_NECLEQUAL
KEYLDECIMAL	KEYLOEMLFJLJISHO
KEY_DIVIDE	KEY_OEM_FJ_MASSHOU
KEY_F1	KEYLOEMLFJLTOUROKU
KEY_F2	KEYLOEMLFJLLOYA
KEY_F3	KEYLOEMLFJLROYA



KEY_GAMEPAD_RIGHT_SHOULDER

KEY_GAMEPAD_LEFT_SHOULDER

KEY_LSHIFT KEY_GAMEPAD_LEFT_TRIGGER 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_BROWSER_BACK KEY_GAMEPAD_MENU KEY_BROWSER_FORWARD KEY_GAMEPAD_VIEW KEY_BROWSER_REFRESH KEY_GAMEPAD_LEFT_THUMBSTICK_BUTTON KEY_BROWSER_STOP KEY_GAMEPAD_RIGHT_THUMBSTICK_BUTTON KEY_GAMEPAD_LEFT_THUMBSTICK_UP KEY_BROWSER_SEARCH KEY_BROWSER_FAVORITES KEY_GAMEPAD_LEFT_THUMBSTICK_DOWN KEY_GAMEPAD_LEFT_THUMBSTICK_RIGHT KEY_BROWSER_HOME 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 KEYLOEM_4 KEY_MEDIA_PLAY_PAUSE KEYLOEML5 KEY_LAUNCH_MAIL KEYLOEML6 KEY_LAUNCH_MEDIA_SELECT KEYLOEML7 KEY_OEM_8 KEY_LAUNCH_APP1 KEY_LAUNCH_APP2 KEY_OEM_AX KEYLOEM_1 KEYLOEM_102 KEY_OEM_PLUS KEY_ICO_HELP KEYLOEMLCOMMA KEY_ICO_00 KEY_OEM_MINUS KEY_PROCESSKEY KEY_OEM_PERIOD KEY_ICO_CLEAR KEYLOEML2 KEY_PACKET KEY_OEM_3 KEY_OEM_RESET KEY_GAMEPAD_A KEY_OEM_JUMP KEY_GAMEPAD_B KEY_OEM_PA1 KEY_GAMEPAD_X KEYLOEMLPA2 KEY_GAMEPAD_Y KEYLOEMLPA3

KEY_OEM_WSCTRL

KEYLOEMLCUSEL



KEYLOEMLATTN

KEYLOEMLFINISH

KEYLOEMLCOPY

KEYLOEMLAUTO

KEYLOEMLENLW

KEY_OEM_BACKTAB

KEY_ATTN

KEY_CRSEL

KEY_EXSEL

KEY_EREOF

KEY_PLAY

KEY_ZOOM

KEY_NONAME

KEY_PA1

KEYLOEMLCLEAR