Gura モジュールリファレンス - opengl

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Official site: <http://www.gura-lang.org/>

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3.1. 命名規則 18

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このリファレンスについて

本リファレンスはGuraのopenglモジュールおよびgluモジュールで定義されている関数の一覧を掲載しています。関数の詳細な動作は、OpenGLのドキュメントを参照ください。

OpenGLのオフィシャルサイトはhttp://www.opengl.org/ です。

opengl モジュール

命名規則

OpenGLのC言語の関数はすべてglで始まる名前がつけられており、openglモジュールの関数も同じ名前を割り当てています。この関数名はベースの名前空間で他の要素と衝突する可能性が小さいため、以下のようにインポートして使用するとモジュール名をつける必要がなくなり便利です。

|  |
| --- |
| import(opengl) {\*} |

モジュール関数

glAccum(op:number, value:number):map:void

glAlphaFunc(func:number, ref:number):map:void

glAreTexturesResident(textures[]:number)

glArrayElement(i:number):map:void

glBegin(mode:number):void {block?}

glBindTexture(target:number, texture:number):map:void

glBitmap(width:number, height:number, xorig:number, yorig:number, xmove:number, ymove:number, bitmap:binary):void

glBlendFunc(sfactor:number, dfactor:number):map:void

glCallList(list:number):map:void

glCallLists(type:number, lists[]:number):void

glClear(mask:number):map:void

glClearAccum(red:number, green:number, blue:number, alpha:number):map:void

glClearColor(red:number, green:number, blue:number, alpha:number):map:void

glClearDepth(depth:number):map:void

glClearIndex(c:number):map:void

glClearStencil(s:number):map:void

glClipPlane(plane:number, equation[]:number):map:void

glColor3b(red:number, green:number, blue:number):map:void

glColor3bv(v[]:number):map:void

glColor3d(red:number, green:number, blue:number):map:void

glColor3dv(v[]:number):map:void

glColor3f(red:number, green:number, blue:number):map:void

glColor3fv(v[]:number):map:void

glColor3i(red:number, green:number, blue:number):map:void

glColor3iv(v[]:number):map:void

glColor3s(red:number, green:number, blue:number):map:void

glColor3sv(v[]:number):map:void

glColor3ub(red:number, green:number, blue:number):map:void

glColor3ubv(v[]:number):map:void

glColor3ui(red:number, green:number, blue:number):map:void

glColor3uiv(v[]:number):map:void

glColor3us(red:number, green:number, blue:number):map:void

glColor3usv(v[]:number):map:void

glColor4b(red:number, green:number, blue:number, alpha:number):map:void

glColor4bv(v[]:number):map:void

glColor4d(red:number, green:number, blue:number, alpha:number):map:void

glColor4dv(v[]:number):map:void

glColor4f(red:number, green:number, blue:number, alpha:number):map:void

glColor4fv(v[]:number):map:void

glColor4i(red:number, green:number, blue:number, alpha:number):map:void

glColor4iv(v[]:number):map:void

glColor4s(red:number, green:number, blue:number, alpha:number):map:void

glColor4sv(v[]:number):map:void

glColor4ub(red:number, green:number, blue:number, alpha:number):map:void

glColor4ubv(v[]:number):map:void

glColor4ui(red:number, green:number, blue:number, alpha:number):map:void

glColor4uiv(v[]:number):map:void

glColor4us(red:number, green:number, blue:number, alpha:number):map:void

glColor4usv(v[]:number):map:void

glColorMask(red:boolean, green:boolean, blue:boolean, alpha:boolean):map:void

glColorMaterial(face:number, mode:number):map:void

glCopyPixels(x:number, y:number, width:number, height:number, type:number):map:void

glCopyTexImage1D(target:number, level:number, internalFormat:number, x:number, y:number, width:number, border:number):map:void

glCopyTexImage2D(target:number, level:number, internalFormat:number, x:number, y:number, width:number, height:number, border:number):map:void

glCopyTexSubImage1D(target:number, level:number, xoffset:number, x:number, y:number, width:number):map:void

glCopyTexSubImage2D(target:number, level:number, xoffset:number, yoffset:number, x:number, y:number, width:number, height:number):map:void

glCullFace(mode:number):map:void

glDeleteLists(list:number, range:number):map:void

glDeleteTextures(textures[]:number):void

glDepthFunc(func:number):map:void

glDepthMask(flag:boolean):map:void

glDepthRange(zNear:number, zFar:number):map:void

glDisable(cap:number):map:void

glDisableClientState(array:number):map:void

glDrawArrays(mode:number, first:number, count:number):map:void

glDrawBuffer(mode:number):map:void

glDrawPixels(image:image):void

glEdgeFlag(flag:boolean):map:void

glEdgeFlagv(flag[]:boolean):map:void

glEnable(cap:number):map:void

glEnableClientState(array:number):map:void

glEnd():void

glEndList():void

glEvalCoord1d(u:number):map:void

glEvalCoord1dv(u[]:number):map:void

glEvalCoord1f(u:number):map:void

glEvalCoord1fv(u[]:number):map:void

glEvalCoord2d(u:number, v:number):map:void

glEvalCoord2dv(u[]:number):map:void

glEvalCoord2f(u:number, v:number):map:void

glEvalCoord2fv(u[]:number):map:void

glEvalMesh1(mode:number, i1:number, i2:number):map:void

glEvalMesh2(mode:number, i1:number, i2:number, j1:number, j2:number):map:void

glEvalPoint1(i:number):map:void

glEvalPoint2(i:number, j:number):map:void

glFeedbackBuffer(size:number, type:number, buffer[]:number):void

glFinish():void

glFlush():void

glFogf(pname:number, param:number):map:void

glFogfv(pname:number, params[]:number):map:void

glFogi(pname:number, param:number):map:void

glFogiv(pname:number, params[]:number):map:void

glFrontFace(mode:number):map:void

glFrustum(left:number, right:number, bottom:number, top:number, zNear:number, zFar:number):map:void

glGenLists(range:number):map

glGenTextures(n:number)

glGetBooleanv(pname:number):map

glGetClipPlane(plane:number):map

glGetDoublev(pname:number):map

glGetError()

glGetFloatv(pname:number):map

glGetIntegerv(pname:number):map

glGetLightfv(light:number, pname:number):map

glGetLightiv(light:number, pname:number):map

glGetMapdv(target:number, query:number)

glGetMapfv(target:number, query:number)

glGetMapiv(target:number, query:number)

glGetMaterialfv(face:number, pname:number)

glGetMaterialiv(face:number, pname:number)

glGetPixelMapfv(map:number, values[]:number)

glGetPixelMapuiv(map:number, values[]:number)

glGetPixelMapusv(map:number, values[]:number)

glGetPointerv(pname:number, params[]:number)

glGetPolygonStipple(mask[]:number)

glGetString(name:number):map

glGetTexEnvfv(target:number, pname:number, params[]:number)

glGetTexEnviv(target:number, pname:number, params[]:number)

glGetTexGendv(coord:number, pname:number, params[]:number)

glGetTexGenfv(coord:number, pname:number, params[]:number)

glGetTexGeniv(coord:number, pname:number, params[]:number)

glGetTexImage(target:number, level:number, format:number, type:number, pixels[]:number)

glGetTexLevelParameterfv(target:number, level:number, pname:number, params[]:number)

glGetTexLevelParameteriv(target:number, level:number, pname:number, params[]:number)

glGetTexParameterfv(target:number, pname:number, params[]:number)

glGetTexParameteriv(target:number, pname:number, params[]:number)

glHint(target:number, mode:number):map:void

glIndexMask(mask:number):map:void

glIndexd(c:number):map:void

glIndexdv(c[]:number):map:void

glIndexf(c:number):map:void

glIndexfv(c[]:number):map:void

glIndexi(c:number):map:void

glIndexiv(c[]:number):map:void

glIndexs(c:number):map:void

glIndexsv(c[]:number):map:void

glIndexub(c:number):map:void

glIndexubv(c[]:number):map:void

glInitNames():void

glIsEnabled(cap:number):map:void

glIsList(list:number):map:void

glIsTexture(texture:number):map:void

glLightModelf(pname:number, param:number):map:void

glLightModelfv(pname:number, params[]:number):map:void

glLightModeli(pname:number, param:number):map:void

glLightModeliv(pname:number, params[]:number):map:void

glLightf(light:number, pname:number, param:number):map:void

glLightfv(light:number, pname:number, params[]:number):map:void

glLighti(light:number, pname:number, param:number):map:void

glLightiv(light:number, pname:number, params[]:number):map:void

glLineStipple(factor:number, pattern:number):map:void

glLineWidth(width:number):map:void

glListBase(base:number):map:void

glLoadIdentity():void

glLoadMatrixd(m[]:number):map:void

glLoadMatrixf(m[]:number):map:void

glLoadName(name:number):map:void

glLogicOp(opcode:number):map:void

glMap1d(target:number, u1:number, u2:number, stride:number, order:number, points[]:number):map:void

glMap1f(target:number, u1:number, u2:number, stride:number, order:number, points[]:number):map:void

glMap2d(target:number, u1:number, u2:number, ustride:number, uorder:number, v1:number, v2:number, vstride:number, vorder:number, points[]:number):map:void

glMap2f(target:number, u1:number, u2:number, ustride:number, uorder:number, v1:number, v2:number, vstride:number, vorder:number, points[]:number):map:void

glMapGrid1d(un:number, u1:number, u2:number):map:void

glMapGrid1f(un:number, u1:number, u2:number):map:void

glMapGrid2d(un:number, u1:number, u2:number, vn:number, v1:number, v2:number):map:void

glMapGrid2f(un:number, u1:number, u2:number, vn:number, v1:number, v2:number):map:void

glMaterialf(face:number, pname:number, param:number):map:void

glMaterialfv(face:number, pname:number, params[]:number):map:void

glMateriali(face:number, pname:number, param:number):map:void

glMaterialiv(face:number, pname:number, params[]:number):map:void

glMatrixMode(mode:number):map:void

glMultMatrixd(m[]:number):map:void

glMultMatrixf(m[]:number):map:void

glNewList(list:number, mode:number):map:void {block?}

glNormal3b(nx:number, ny:number, nz:number):map:void

glNormal3bv(v[]:number):map:void

glNormal3d(nx:number, ny:number, nz:number):map:void

glNormal3dv(v[]:number):map:void

glNormal3f(nx:number, ny:number, nz:number):map:void

glNormal3fv(v[]:number):map:void

glNormal3i(nx:number, ny:number, nz:number):map:void

glNormal3iv(v[]:number):map:void

glNormal3s(nx:number, ny:number, nz:number):map:void

glNormal3sv(v[]:number):map:void

glOrtho(left:number, right:number, bottom:number, top:number, zNear:number, zFar:number):map:void

glPassThrough(token:number):map:void

glPixelMapfv(map:number, mapsize:number, values[]:number):map:void

glPixelMapuiv(map:number, mapsize:number, values[]:number):map:void

glPixelMapusv(map:number, mapsize:number, values[]:number):map:void

glPixelStoref(pname:number, param:number):map:void

glPixelStorei(pname:number, param:number):map:void

glPixelTransferf(pname:number, param:number):map:void

glPixelTransferi(pname:number, param:number):map:void

glPixelZoom(xfactor:number, yfactor:number):map:void

glPointSize(size:number):map:void

glPolygonMode(face:number, mode:number):map:void

glPolygonOffset(factor:number, units:number):map:void

glPolygonStipple(mask:binary):void

glPopAttrib():void

glPopClientAttrib():void

glPopMatrix():void

glPopName():void

glPrioritizeTextures(textures[]:number, priorities[]:number):void

glPushAttrib(mask:number):void {block?}

glPushClientAttrib(mask:number):void {block?}

glPushMatrix():void {block?}

glPushName(name:number):void {block?}

glRasterPos2d(x:number, y:number):map:void

glRasterPos2dv(v[]:number):map:void

glRasterPos2f(x:number, y:number):map:void

glRasterPos2fv(v[]:number):map:void

glRasterPos2i(x:number, y:number):map:void

glRasterPos2iv(v[]:number):map:void

glRasterPos2s(x:number, y:number):map:void

glRasterPos2sv(v[]:number):map:void

glRasterPos3d(x:number, y:number, z:number):map:void

glRasterPos3dv(v[]:number):map:void

glRasterPos3f(x:number, y:number, z:number):map:void

glRasterPos3fv(v[]:number):map:void

glRasterPos3i(x:number, y:number, z:number):map:void

glRasterPos3iv(v[]:number):map:void

glRasterPos3s(x:number, y:number, z:number):map:void

glRasterPos3sv(v[]:number):map:void

glRasterPos4d(x:number, y:number, z:number, w:number):map:void

glRasterPos4dv(v[]:number):map:void

glRasterPos4f(x:number, y:number, z:number, w:number):map:void

glRasterPos4fv(v[]:number):map:void

glRasterPos4i(x:number, y:number, z:number, w:number):map:void

glRasterPos4iv(v[]:number):map:void

glRasterPos4s(x:number, y:number, z:number, w:number):map:void

glRasterPos4sv(v[]:number):map:void

glReadBuffer(mode:number):map:void

glReadPixels(x:number, y:number, width:number, height:number, format:symbol)

glRectd(x1:number, y1:number, x2:number, y2:number):map:void

glRectdv(v1[]:number, v2[]:number):void

glRectf(x1:number, y1:number, x2:number, y2:number):map:void

glRectfv(v1[]:number, v2[]:number):void

glRecti(x1:number, y1:number, x2:number, y2:number):map:void

glRectiv(v1[]:number, v2[]:number):void

glRects(x1:number, y1:number, x2:number, y2:number):map:void

glRectsv(v1[]:number, v2[]:number):void

glRenderMode(mode:number):map:void

glRotated(angle:number, x:number, y:number, z:number):map:void

glRotatef(angle:number, x:number, y:number, z:number):map:void

glScaled(x:number, y:number, z:number):map:void

glScalef(x:number, y:number, z:number):map:void

glScissor(x:number, y:number, width:number, height:number):map:void

glSelectBuffer(size:number)

glShadeModel(mode:number):map:void

glStencilFunc(func:number, ref:number, mask:number):map:void

glStencilMask(mask:number):map:void

glStencilOp(fail:number, zfail:number, zpass:number):map:void

glTexCoord1d(s:number):map:void

glTexCoord1dv(v[]:number):map:void

glTexCoord1f(s:number):map:void

glTexCoord1fv(v[]:number):map:void

glTexCoord1i(s:number):map:void

glTexCoord1iv(v[]:number):map:void

glTexCoord1s(s:number):map:void

glTexCoord1sv(v[]:number):map:void

glTexCoord2d(s:number, t:number):map:void

glTexCoord2dv(v[]:number):map:void

glTexCoord2f(s:number, t:number):map:void

glTexCoord2fv(v[]:number):map:void

glTexCoord2i(s:number, t:number):map:void

glTexCoord2iv(v[]:number):map:void

glTexCoord2s(s:number, t:number):map:void

glTexCoord2sv(v[]:number):map:void

glTexCoord3d(s:number, t:number, r:number):map:void

glTexCoord3dv(v[]:number):map:void

glTexCoord3f(s:number, t:number, r:number):map:void

glTexCoord3fv(v[]:number):map:void

glTexCoord3i(s:number, t:number, r:number):map:void

glTexCoord3iv(v[]:number):map:void

glTexCoord3s(s:number, t:number, r:number):map:void

glTexCoord3sv(v[]:number):map:void

glTexCoord4d(s:number, t:number, r:number, q:number):map:void

glTexCoord4dv(v[]:number):map:void

glTexCoord4f(s:number, t:number, r:number, q:number):map:void

glTexCoord4fv(v[]:number):map:void

glTexCoord4i(s:number, t:number, r:number, q:number):map:void

glTexCoord4iv(v[]:number):map:void

glTexCoord4s(s:number, t:number, r:number, q:number):map:void

glTexCoord4sv(v[]:number):map:void

glTexEnvf(target:number, pname:number, param:number):map:void

glTexEnvfv(target:number, pname:number, params[]:number):map:void

glTexEnvi(target:number, pname:number, param:number):map:void

glTexEnviv(target:number, pname:number, params[]:number):map:void

glTexGend(coord:number, pname:number, param:number):map:void

glTexGendv(coord:number, pname:number, params[]:number):map:void

glTexGenf(coord:number, pname:number, param:number):map:void

glTexGenfv(coord:number, pname:number, params[]:number):map:void

glTexGeni(coord:number, pname:number, param:number):map:void

glTexGeniv(coord:number, pname:number, params[]:number):map:void

glTexImage1D(target:number, level:number, internalformat:number, border:number, image:image):void

glTexImage2D(target:number, level:number, internalformat:number, border:number, image:image):void

glTexParameterf(target:number, pname:number, param:number):map:void

glTexParameterfv(target:number, pname:number, params[]:number):map:void

glTexParameteri(target:number, pname:number, param:number):map:void

glTexParameteriv(target:number, pname:number, params[]:number):map:void

glTexSubImage1D(target:number, level:number, xoffset:number, image:image):void

glTexSubImage2D(target:number, level:number, xoffset:number, yoffset:number, image:image):void

glTranslated(x:number, y:number, z:number):map:void

glTranslatef(x:number, y:number, z:number):map:void

glVertex2d(x:number, y:number):map:void

glVertex2dv(v[]:number):map:void

glVertex2f(x:number, y:number):map:void

glVertex2fv(v[]:number):map:void

glVertex2i(x:number, y:number):map:void

glVertex2iv(v[]:number):map:void

glVertex2s(x:number, y:number):map:void

glVertex2sv(v[]:number):map:void

glVertex3d(x:number, y:number, z:number):map:void

glVertex3dv(v[]:number):map:void

glVertex3f(x:number, y:number, z:number):map:void

glVertex3fv(v[]:number):map:void

glVertex3i(x:number, y:number, z:number):map:void

glVertex3iv(v[]:number):map:void

glVertex3s(x:number, y:number, z:number):map:void

glVertex3sv(v[]:number):map:void

glVertex4d(x:number, y:number, z:number, w:number):map:void

glVertex4dv(v[]:number):map:void

glVertex4f(x:number, y:number, z:number, w:number):map:void

glVertex4fv(v[]:number):map:void

glVertex4i(x:number, y:number, z:number, w:number):map:void

glVertex4iv(v[]:number):map:void

glVertex4s(x:number, y:number, z:number, w:number):map:void

glVertex4sv(v[]:number):map:void

glViewport(x:number, y:number, width:number, height:number):map:void

# gluモジュール

命名規則

GLUライブラリのC言語の関数はすべてgluで始まる名前がつけられており、gluモジュールの関数も同じ名前を割り当てています。この関数名はベースの名前空間で他の要素と衝突する可能性が小さいため、以下のようにインポートして使用すると便利です。

|  |
| --- |
| import(glu) {\*} |

## モジュール関数

gluBuild1DMipmaps(target:number, internalFormat:number, image:image):map

gluBuild2DMipmaps(target:number, internalFormat:number, image:image):map

gluErrorString():void

gluErrorStringWIN():void

gluErrorUnicodeStringEXT():void

gluGetString():void

gluLookAt(eyex:number, eyey:number, eyez:number,  
centerx:number, centery:number, centerz:number,  
upx:number, upy:number, upz:number):void

gluNewNurbsRenderer()

gluNewQuadric()

gluNewTess()

gluOrtho2D(left:number, right:number, bottom:number, top:number):void

gluPerspective(fovy:number, aspect:number, zNear:number, zFar:number):void

gluPickMatrix(x:number, y:number, width:number, height:number, viewport[]:number):void

gluProject(objX:number, objY:number, objZ:number, model:number, proj:number, view:number)

gluScaleImage(image:image, w:number, h:number)

gluUnProject(winX:number, winY:number, winZ:number, model:number, proj:number, view:number)