

Interface to animator

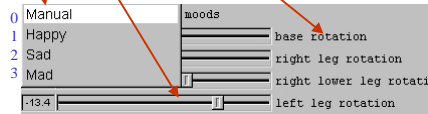
Create control

scale(id, name, min, max, res, start)

checkbox(id, name, start)

menu(interp, id, name, start, ...)

curve(id, name, min, max, start)



Access control value

get_control_d(id) : float

get_control_i(id) : int

get_control_b(id) : bool

get_time() : float (current time in animation)

OpenGL-related functions

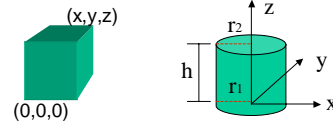
(You don't need to call them if you can program in OpenGL)

sphere(r)

triangle(x1, y1, z1, x2, y2, z2, x3, y3, z3)

box(x, y, z)

cylinder(h, r1, r2)



ambient_color(r, g, b);

diffuse_color(r, g, b);

specular_color(r, g, b);

shininess(s);

```
#include <modelerdl.h>
```

```
#define SPHERE_RADIUS 1
```

```
MODEL("sphere");
```

Announce your model name.

EXTREMELY IMPORTANT

```
bool init(void *args)
```

argument string passed in. "
" for single object.

```
    scale( SPHERE_RADIUS, "radius", 0.1f, 3.0f, 0.01f, 1.0f );
```

Create a slider widget

```
    return true;
```

```
}
```

```
void redraw(int drawmode) {
```

```
    glMatrixMode( GL_MODELVIEW );
```

```
    glLoadIdentity();
```

reset modelview matrix

```
    glTranslatef( 0.0, 0.0, -15.0 );
```

```
    ambient_color( 0.0, 0.0, 0.2 );
```

set material

```
    diffuse_color( 0.0, 0.3, 0.8 );
```

```
    sphere( get_control_d( SPHERE_RADIUS ) );
```

```
}
```

Draw a sphere

Radius is set by current value
Kept by the corresponding widget

Add curve types

1. Add the evaluator in CurveEditor.cpp
2. Add a class which inherits from CurveEvaluator
void evaluateCurve(const vector<Point> & control_points,
vector<Point> & evaluated_curve_points,
const double & animation_time,
const bool & wrap_control_points);

