

```

0001 function [x, y, z]=fSphereData()
0002     u = linspace(-%pi/2, %pi/2, 100);
0003     v = linspace(0, 2*%pi, 100);
0004
0005     x = cos(u)'*cos(v);
0006     y = cos(u)'*sin(v);
0007     z = sin(u)'*ones(v);
0008 endfunction
0009
0010 // Test
0011
0012 [x,y,z]=fSphereData();
0013
0014 tic();
0015 f = scf();
0016 f.visible = "off";
0017 f.immediate_drawing = "off";
0018 clf(f);
0019
0020 plot3d2(x, y, z);
0021
0022 // graphic settings
0023 a = gca();
0024 a.axes_visible = ["off", "off", "off"];
0025 a.box = "off";
0026 a.x_label.text = "";
0027 a.y_label.text = "";
0028 a.z_label.text = "";
0029 a.isoview = "on";
0030
0031 e=gce();
0032 fcData=e.data;
0033 TL = tlist(["3d" "x" "y" "z" "color"],...
0034           fcData.x,fcData.y,fcData.z,10*(fcData.z)+1);
0035
0036 e.data=TL;
0037 e.color_flag=2; //'flat' color shading
0038
0039 f.immediate_drawing = "on";
0040 f.visible = "on";
0041
0042 dt = (0.8-toc()) * 1000;
0043 sleep(max(dt,1)); // sleeps at most 0.8 s

```