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| Nanyang Technological University |
| Lab 4 Report: Implicit Solids |
| CZ2003 Computer Graphics and Visualization |



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SSP5

Brief description of the penguin:

The flippers and torso is made up of ellipsoids, cylinders for 2 eyes, 2 legs and beak, a cone for tail and a sphere for its head. To merge the parts, min and max functions on four plane halfspaces (z=0; z=-2; z=1.2; z=-0.5) are used. In FMaterial field, a variable diffuse colour for the whole figure. a parameter t is used which is used to animate the color, r=sin(t\*pi\*u\*1);g= 1-sin(t\*pi);b=sin(0.5\*w);. A bounded box [ 11 11 11 ] is used.

Screenshots:



