Interactive program to adjust frustum, near, and far clipping planes.

Interactive frustum program

Interactive program to adjust near and far clipping planes: <u>http://www.songho.ca/opengl/files/matrixModelView.zip</u>

Note: This program will only run under Microsoft's Windows operating system. It uses a combination of OpenGL as well as Windows API. However, you can still read the code.

The "take away" from reading the code: Linear transformations are used to adjust camera view when near or far clipping planes are adjusted. This is how we compute the view from the camera!























	View (Camera)			
	X 0 🜩	Reset	OpenGL Functions	
	Position Y 2 + Z 10 +		glRotatef(-0, 0, 0, 1); glRotatef(-0, 0, 1, 0); glRotatef(-0, 1, 0, 0); glRotatef(-0, 1, 0, 0);	
	Pitch (X) 0 € Heading (Y) 0 € Roll (Z) 0 €		g111ah51a611(0, 1, 16),	
	Model			
	x 0	Reset	OpenGL Functions	
	Position Y 0 🗘		<pre>glTranslatef(0, 0, 3); glRotatef(0, 1, 0, 0); glRotatef(0, 0, 1, 0); glRotatef(0, 0, 0, 1);</pre>	
	x 0 🜩			
	Rotation y 0			
	Z 0 🗘			
	ModelView Matrix		View Matrix Model	Matrix
	1.00 0.00 0.00 0.00	1.00	0.00 0.00 0.00 1.00 0.00	0.00 0.00
	0.00 1.00 0.00 -2.00	= 0.00	1.00 0.00 -2.00 X 0.00 1.00	0.00 0.00
	0.00 0.00 1.00 -7.00	0.00	0.00 1.00 -10.00 0.00 0.00	1.00 3.00
	0.00 0.00 0.00 1.00	0.00	0.00 0.00 1.00 0.00 0.00	0.00 1.00
Camera perspective view	<i>N</i> matrix is co	ompr	ISEC	
of comore location from	tion matrix a	nd m		
or camera location/ lota				
location/rotation matrix	(