

Model, Camera and Texture Mapping

Obj Format

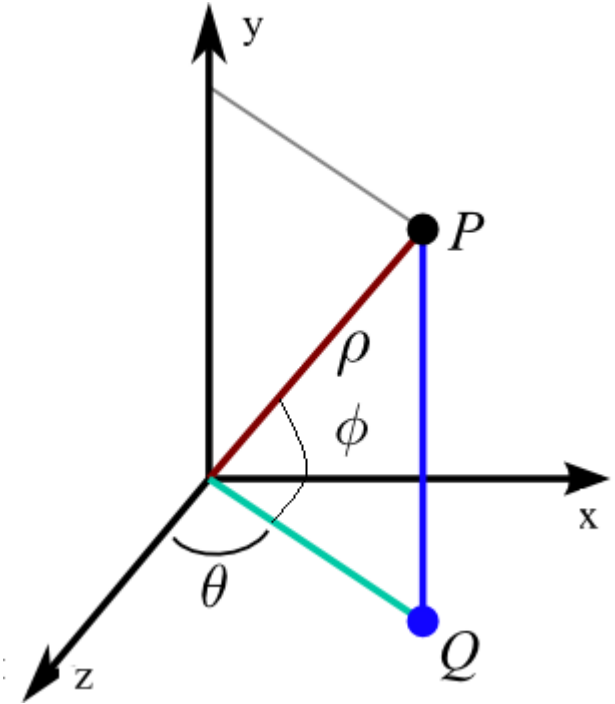
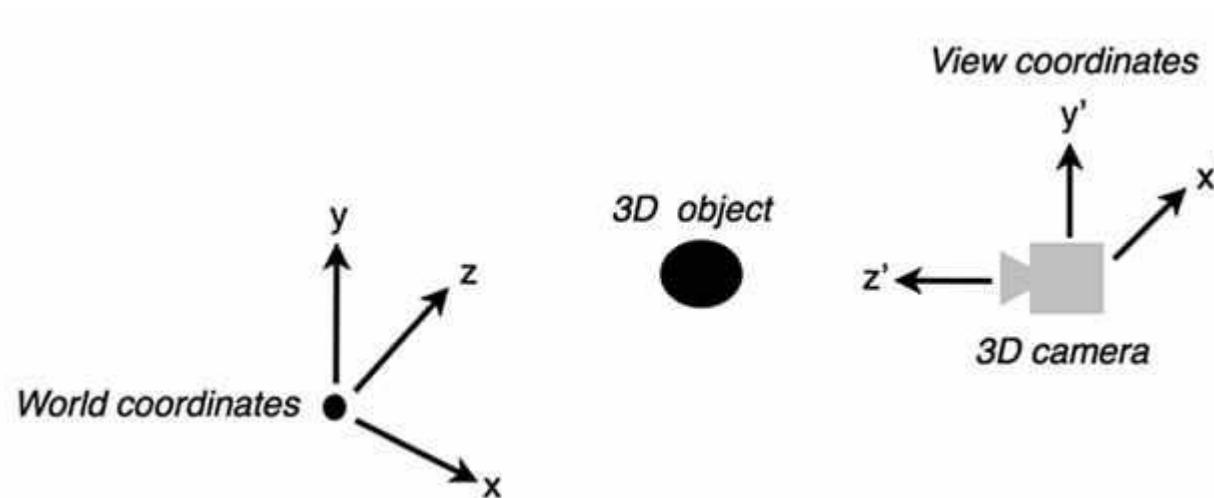
# cube	vt 0.748573 0.750412	vn 0.000000 0.000000 -1.000000	f 5/1/1 1/2/1 4/3/1
v 1.000000 -1.000000 -1.000000	vt 0.749279 0.501284	vn -1.000000 -0.000000 -0.000000	f 5/1/1 4/3/1 8/4/1
v 1.000000 -1.000000 1.000000	vt 0.999110 0.501077	vn -0.000000 -0.000000 1.000000	f 3/5/2 7/6/2 8/7/2
v -1.000000 -1.000000 1.000000	vt 0.999455 0.750380	vn -0.000000 -0.000000 1.000000	f 3/5/2 8/7/2 4/8/2
v -1.000000 -1.000000 -1.000000	vt 0.250471 0.500702	vn -0.000001 0.000000 1.000000	f 2/9/3 6/10/3 3/5/3
v 1.000000 1.000000 -1.000000	vt 0.249682 0.749677	vn 1.000000 -0.000000 0.000000	f 6/10/4 7/6/4 3/5/4
v 1.000000 1.000000 1.000001	vt 0.001085 0.750380	vn 1.000000 0.000000 0.000001	f 1/2/5 5/1/5 2/9/5
v -1.000000 1.000000 1.000000	vt 0.001517 0.499994	vn 0.000000 1.000000 -0.000000	f 5/1/6 6/10/6 2/9/6
v -1.000000 1.000000 -1.000000	vt 0.499422 0.500239	vn -0.000000 -1.000000 0.000000	f 5/1/7 8/11/7 6/10/7
	vt 0.500149 0.750166		f 8/11/7 7/12/7 6/10/7
	vt 0.748355 0.998230		f 1/2/8 2/9/8 3/13/8
	vt 0.500193 0.998728		f 1/2/8 3/13/8 4/14/8
	vt 0.498993 0.250415		
	vt 0.748953 0.250920		

Interpretation

- # is a comment, just like // in C++
 - v is a vertex
 - vt is the texture coordinate of one vertex
 - vn is the normal of one vertex
 - f is a face
- F 8/11/7 7/12/7 6/10/7 :
 - 8/11/7 describes the first vertex of the triangle
 - 7/12/7 describes the second vertex of the triangle
 - 6/10/7 describes the third vertex of the triangle (duh)
 - For the first vertex, 8 says which vertex to use. So in this case, -1.000000 1.000000 -1.000000 (index start to 1, not to 0 like in C++)
 - 11 says which texture coordinate to use. So in this case, 0.748355 0.998230
 - 7 says which normal to use. So in this case, 0.000000 1.000000 -0.000000

Camera

- Keyboard: camera position
- Mouse: camera orientation



UV Coordinates

