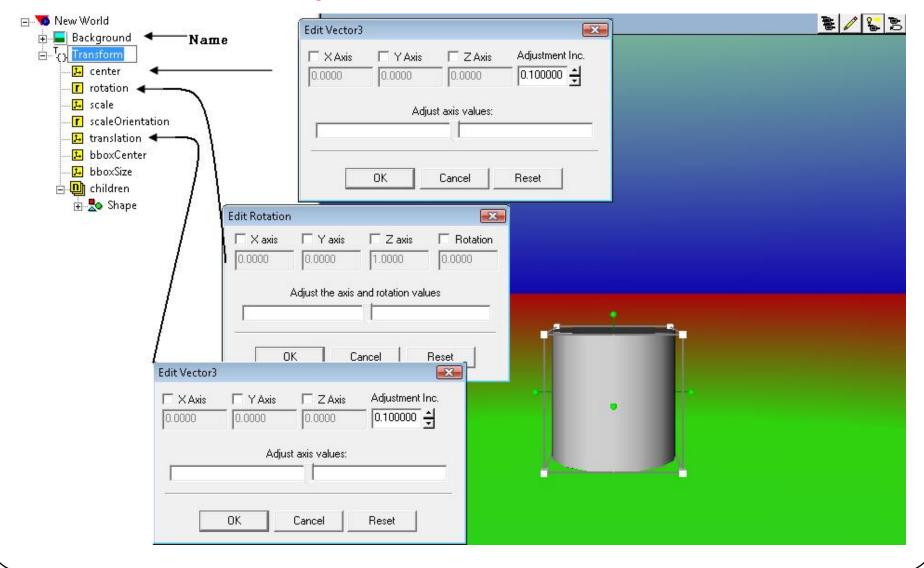
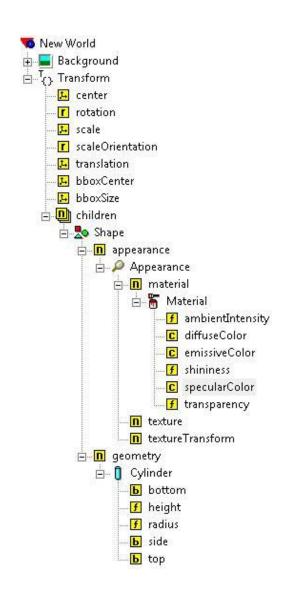
3D-Virtual Reality

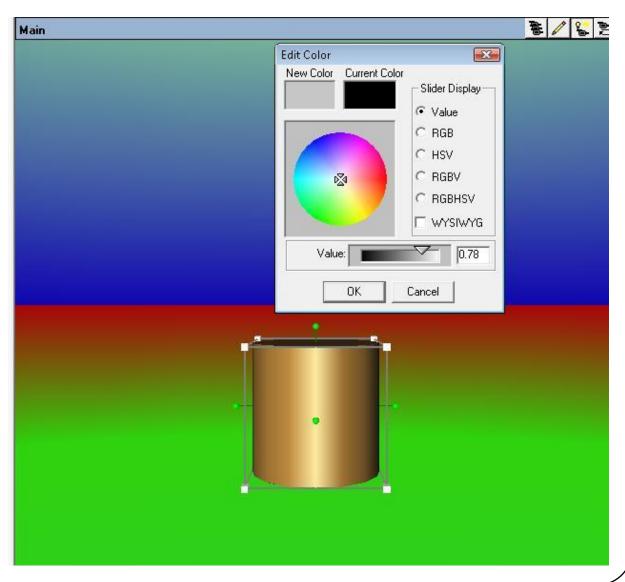
Who do I Direct MATLAB to use OpenGL on MATLAB environment

Add an Object TO VR Environment

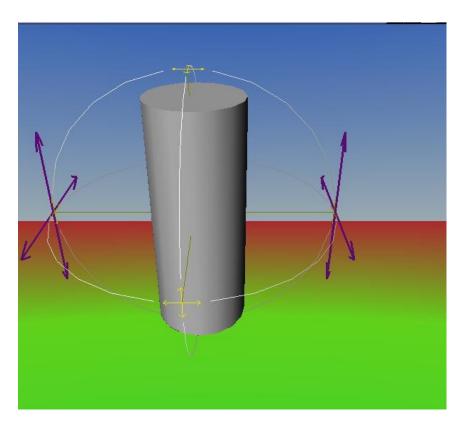


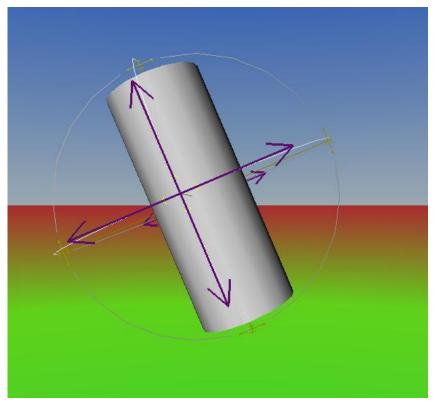
SpecularColor and DifuseColor Property





X,Y, and Z axes of Rotation

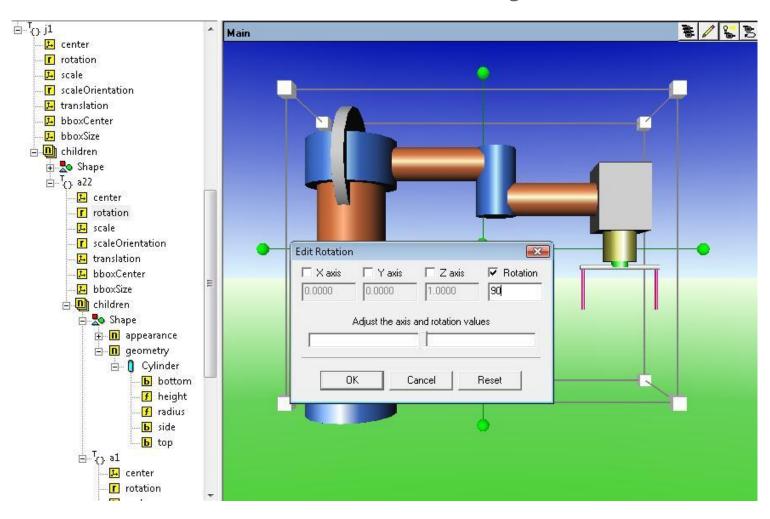




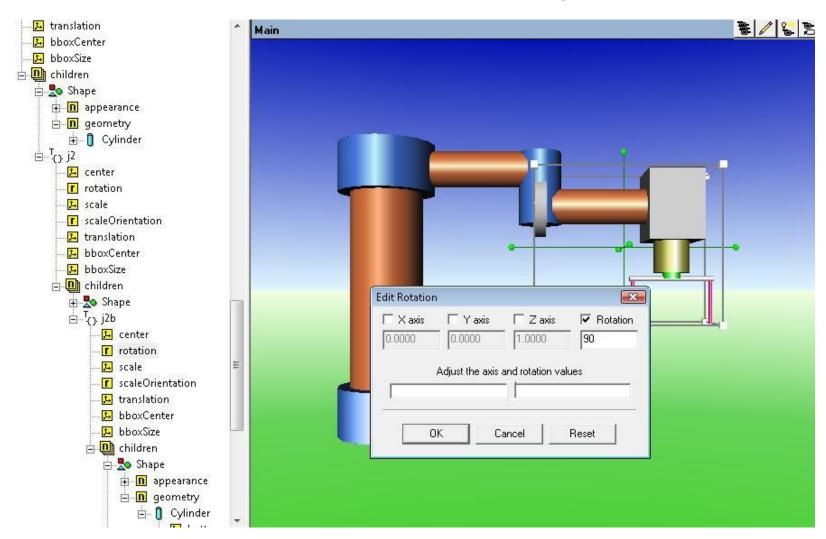
Rotation about X-Axis

Rotation about Z-Axis

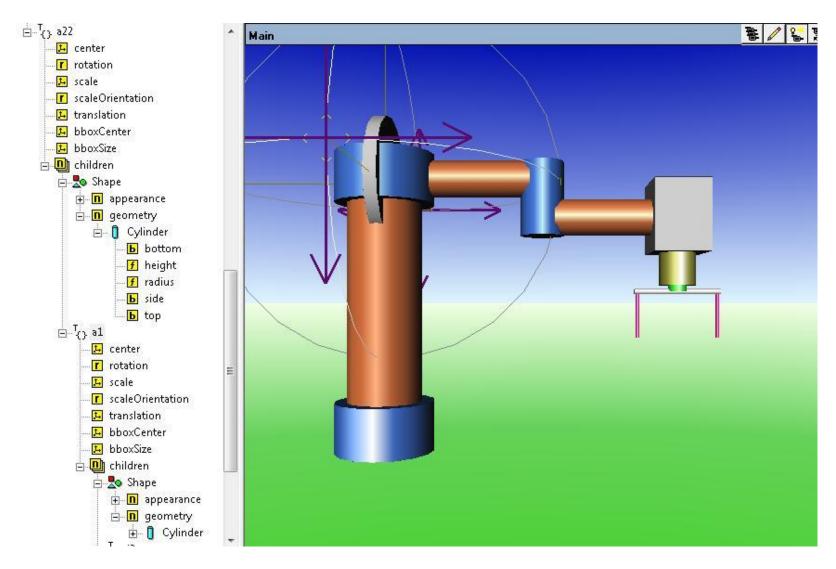
Rotation's hidden object for a1



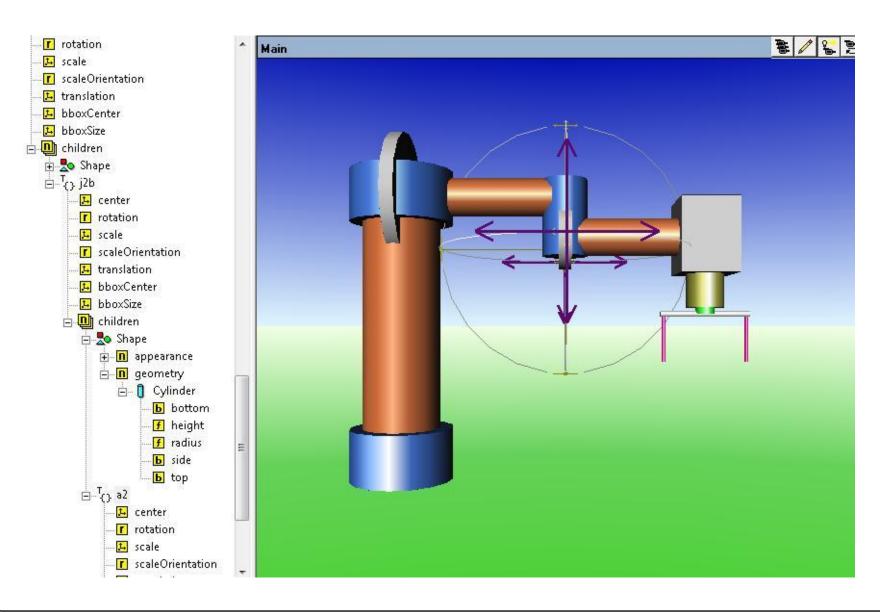
Rotation's hidden object for a2



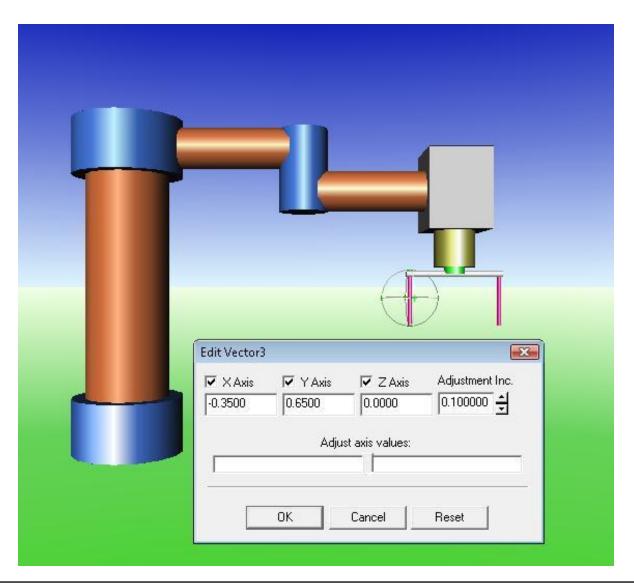
Axis of rotation for a1



Axis of Rotation for a2



EndEffector



Controlling by commands

- SCARA30 = vrworld('SCARA30.wrl');
- open(SCARA30)
- View(SCARA30)
- radian=T1*pi/180, radian=-T2*pi/180, radian=T4*pi/180;
- SCARA30.a1.rotation = [1, 0, 0, radian]
- SCARA30.a2.rotation = [1, 0, 0, radian];
- SCARA30.d4b.rotation = [0, 1, 0, radian]
- SCARA30.d4b.translation = [0, d4b, 0];
- EndV1=SCARA30.EndV1.translation;
- EndV2=SCARA30.EndV2.translation;
- x1=EndV1(1);
- x2=EndV2(1);
- y1=-.5*dist;
- y2=.5*dist;
- SCARA30.EndV1.translation = [x1, y1, 0];
- SCARA30.EndV2.translation = [x2, y2, 0];

