

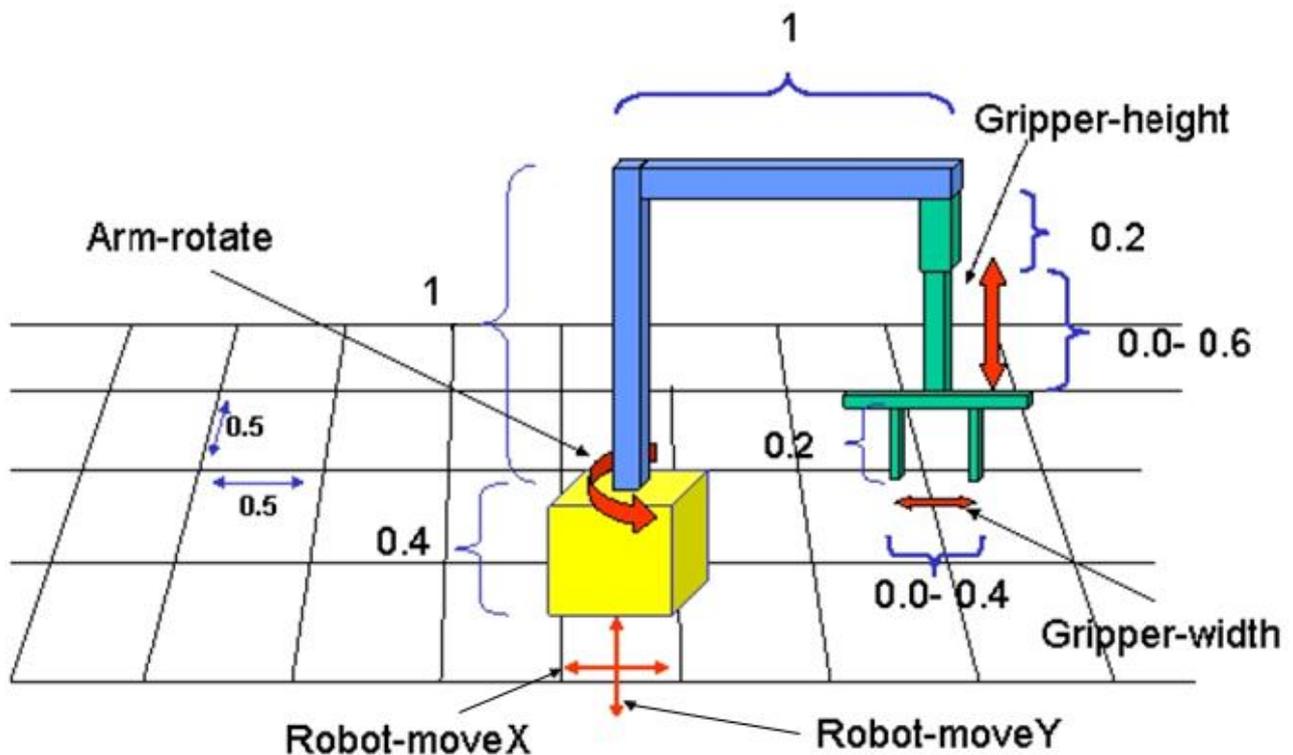
CAD 2009

Homework #1

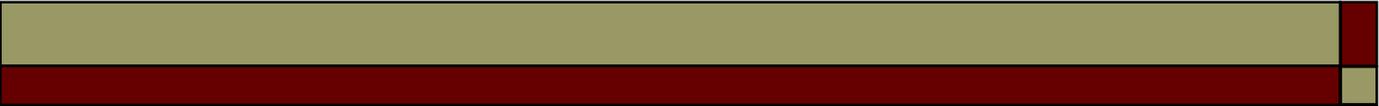
OpenGL with MFC

Due Date : 2009.04.23. 23:00:00

Scene and Object



- The floor is on the **XY plane**, and **white grid** (0.5x0.5 each square) should be drawn.
- Moving parts with **colors** should respect the **dimension** limits indicated in the picture.
- Making a one **function** which draws cube with input dimensions will be useful to generate multiple cube parts of the robot.



Robot & View Interface

□ Robot Interface

- **Make a menu or tool-bar buttons** with the 'name of the DOF' and a 'select none' to select or deselect a certain DOF.
- If nothing selected, all colors are normal. Once a DOF is selected, all the **affected robot parts** should be colored **red**.
- Certain DOF will be moved or rotated by pressing and moving the **left mouse button** when wanted DOF is selected.

□ View Interface

- Implement **zooming, rotating, and panning** functions for the interactive user interface.

Submission Details

□ Object on demand

■ Source Code

- Make the program in any version of **Visual Studio** environment.
- Compile the program in '**Release**' mode and empty 'Debug' and 'Release' folders **except a executable file**.
- Compress all source files as a '**Zip**' file.

■ Comments

- Make a '**README.txt**' file for very short comments about the homework.
- Make a 'Zip' file name of '**HW1_(StudentID)_(NAME).zip**' which includes the **source code zip file** and **README.txt** file.

□ Submit – <http://etl.snu.ac.kr>

- Due : April 23, 2009, 23:00:00
- Upload to Assignment Board