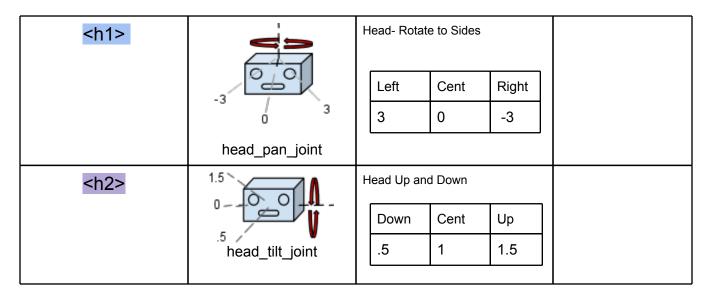
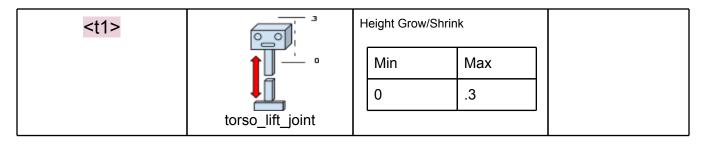
Head

head.look_at(1.0, <h1> ,<h2>)
head.wait_for()



Torso

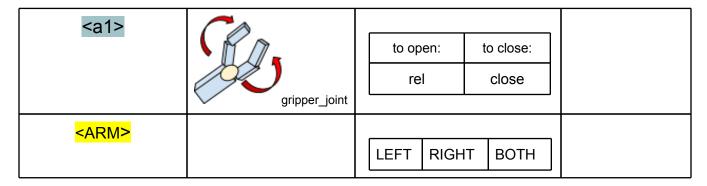
torso.set(<t1>) #Determines relative height of PR2 in meters



Grippers

gripper.<a1>(<ARM>)
gripper.wait_for(<ARM>)

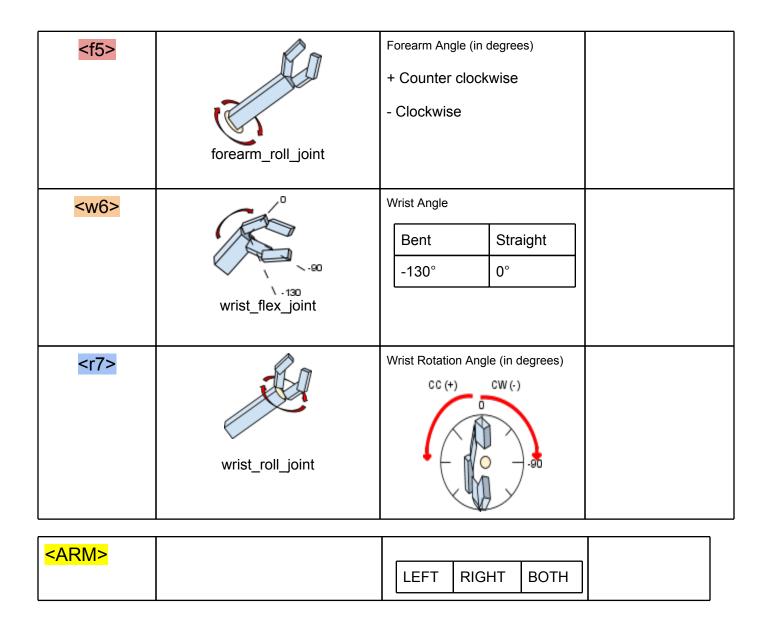
#opens or closes the grippers



Arms

 $arm.move_to([\color="line"] < \color="line"] < \color=$

<p1></p1>	-130 -80 — 90	Shoulder- Forward and Back		
		R <mark>ight</mark>		
		Back	Front	
	shoulder_pan_joint	-130°	0°	
	Silouidei_paii_joilit	Left		
		Back	Front	
		130°	0°	
<l2></l2>	30	p and down		
		Down	Up	
		80°	-30°	
	,80			
	shoulder_lift_joint			
<u3></u3>	44 0 0 0 0 .44	Right		
		Back	Front	
		44°	-224°	
	-90 90	Left		
	upper_arm_roll_joint	Back	Front	
		-44°	224°	
<e4></e4>	·130 -90 🖉 📶	Arm Angle		
		Bent	Straight	
		-130°	0°	
	elbow_flex_joint			



Sensors and Other Features

Wait for Gripper Slap

gripper.wait_for_slap(<ARM>)



If Else Statement

if (gripper.determine_slap() == LEFT):
 <Insert commands here>
else:
 <Insert commands here>

Wait for Time (in seconds)

rospy.sleep(2.0)

Robot Speak

sound.say("Something")

Quick Tip for common Arm Direction and Mirroring

	<u>p1</u>	<u>12</u>	<u>u3</u>	<u>e4</u>	<u>f5</u>	<u>w6</u>	<u>r7</u>
Right	-	+	+	-	+	-	ı
Left	+	+	-	-	_	-	+
	ор	S	ор	S	ор	S	ор

Beginning of the PR2 Code

#!/usr/bin/env python

import roslib

 $roslib.load_manifest('pr2_simple_interface')$

#import rospy

#rospy.init_node('steve_demo')

from pr2_simple_interface import *

start()

gripper = Gripper()

arm = RobotArm()

head = Head()

torso = Torso()

Code Tips:

at the beginning of a line will comment code. Commented code will not run.