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# How to create gestures for InMoov

There is a function, in MyRobotLab, with the InMoov service called "capture gesture" which lets you create any gestures you want.

This is how to do it:

- -Set the servos at the positions you like using the cursors in MRL.
- -Create a new python file on MRL.
- -Say in your microphone "capture gesture".
- -Confirm with "okay".
- -This will create a text with all the positions of your servos in the new python file.

It should look like this:

inMoov.moveHead(79,100)

inMoov.moveArm("left",0,119,28,15)

inMoov.moveArm("right",0,111,28,15)

inMoov.moveHand("left",42,58,87,55,71,35)

inMoov.moveHand("right",81,20,82,60,105,113)

- -Copy it and past it at the end of your InMoov full script.
- -Give it a name.
- -Add a ear command using the same name.

In this exemple, I called the gesture "hands flat":

ear.addCommand("hand flat", "python", "handflat")

# def handflat():

inMoov.setHandSpeed("left", 1.0, 1.0, 1.0, 1.0, 1.0, 1.0)

inMoov.setHandSpeed("right", 1.0, 1.0, 1.0, 1.0, 1.0, 1.0)

inMoov.setArmSpeed("right", 0.85, 0.85, 0.85, 0.85)

inMoov.setArmSpeed("left", 1.0, 1.0, 1.0, 1.0)

inMoov.setHeadSpeed(0.65, 0.65)

inMoov.moveHead(79,100)

inMoov.moveArm("left",0,119,28,15)

inMoov.moveArm("right",0,111,28,15)

"left",10,10,10,10,10,35) inMoov "right",10,10,10,10,10,113) inMoov

You car ous speeds and servos positions. "Capture gesture" doesn't create the speeds, Like you ne aste them if you want to change the speeds in your gesture, if you don't, your gesture last speeds called with the previous gesture invoked. 0

e same order as servo to pins connections.

Tweet inmoov.full script in which I have added the "hands flat" captured gesture.

# So, her #file:I

Speeds



# a bas g+1

# and a # an Ar # with

arting the InMoov service

right hand

ired, additionally a computer e and speakers is needed for voice



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### **MEMBER ACTIVITIES**



Dwayne Williams uploaded a new picture: opencv\_fd\_1.jpg



standing proud as a Grog. He is very

pleased to be a part of enhancing the Inmoov Nation.



Fred uploaded a new picture: Possible spring for... 1 day, 16 hours ago



Maybe a possible spring for tendons?



h synthesis

# ADD SECOND STAGE CONFIRMATION

# instead of saying: you said... it would say: did you say...? and I would confirm with yes or give the v oice command again

# face tracking in InMoov ... activated by voice ...

inMoov = Runtime.createAndStart("inMoov", "InMoov")

rightSerialPort = "COM8" leftSerialPort = "COM7" cameraIndex = 1

# attach an arduinos to InMoov

# possible board types include uno atmega168 atmega328p atmega2560 atmega1280 atmega32u4 # the MRLComm.ino sketch must be loaded into the Arduino for MyRobotLab control inMoov.attachArduino("right","uno",rightSerialPort)

inMoov.attachHand("right") inMoov.attachArm("right")

inMoov.attachArduino("left","atmega1280", leftSerialPort) inMoov.attachHand("left") inMoov.attachArm("left") inMoov.attachHead("left")

# system check inMoov.systemCheck() inMoov.setCameraIndex(cameraIndex)

# new process for verbal commands

ear = inMoov.getEar()

ear.addCommand("rest", inMoov.getName(), "rest")

ear.addCommand("open hand", inMoov.getName(), "handOpen", "both")

ear.addCommand("close hand", inMoov.getName(), "handClose", "both")

ear.addCommand("camera on", inMoov.getName(), "cameraOn")

# ear.addCommand("off camera", inMoov.getName(), "cameraOff") - needs fixing

ear.addCommand("capture gesture", inMoov.getName(), "captureGesture")

ear.addCommand("track", inMoov.getName(), "track")

ear.addCommand("freeze track", inMoov.getName(), "clearTrackingPoints")

ear.addCommand("hello", inMoov.getName(), "hello")

ear.addCommand("giving", inMoov.getName(), "giving")

ear.addCommand("fighter", inMoov.getName(), "fighter")

ear.addCommand("fist hips", inMoov.getName(), "fistHips")

ear.addCommand("look at this", inMoov.getName(), "lookAtThis")

ear.addCommand("victory", inMoov.getName(), "victory")

ear.addCommand("arms up", inMoov.getName(), "armsUp")

ear.addCommand("arms front", inMoov.getName(), "armsFront")

ear.addCommand("da vinci", inMoov.getName(), "daVinci")

ear.addCommand("manual", ear.getName(), "lockOutAllGrammarExcept", "voice control") ear.addCommand("voice control", ear.getName(), "clearLock") ear.addCommand("stop listening", ear.getName(), "stopListening")

ear.addCommand("ok", "python", "ok")

ear.addCommand("hand flat", "python", "handflat")

ear.addComfirmations("yes","correct","yeah","ya") ear.addNegations("no","wrong","nope","nah")

ear.startListening()

def ok():

inMoov.setHandSpeed("left", 0.30, 0.30, 1.0, 1.0, 1.0, 1.0) inMoov.setHandSpeed("right", 1.0, 1.0, 1.0, 1.0, 1.0, 1.0) inMoov.setArmSpeed("left", 0.75, 0.75, 0.75, 0.95) inMoov.setArmSpeed("right", 1.0, 1.0, 1.0, 1.0) inMoov.setHeadSpeed(0.65, 0.75)

inMoov.moveHead(88,79)

inMoov.moveArm("left",89,75,93,11)

inMoov.moveArm("right",0,91,28,17)



lack Phillips posted an update 2 days, 11 hours ago

Head Connect to Torso. Using EZ Robot for programing interface for now. Printing arms and hands next. Not sure how to post video so here is the link.

https://www.youtube.com/wat

v=czMIEDz9804&feature=c4overview&list=UUNwIfeO7cu4UbOx3bcqJHQ



Gael Langevin posted an update 2 days, 17 hours ago

To Fred and others:

https://groups.google.com/gro a4108f0/spring%20tensioner1.j pg?part=4&authuser=0

This is how I see a spring added to the retraction tendon. In this set up we avoid forcing on the servo either way of rotation and it also avoid losing tension in the tendons.



Fred uploaded a new picture: 69.jpg 3 days, 17 hours ago





Fred uploaded a new picture: 71.jpg 3 days, 17 hours ago



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December 11, 2013 2:46 am Log in to Reply

New wiring design for the hand

inMoov.moveHand("left",92,106,4,0,0,34) inMoov.moveHand("right",86,51,133,162,153,180)

#### def handflat():

inMoov.setHandSpeed("left", 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0) inMoov.setHandSpeed("right", 1.0, 1.0, 1.0, 1.0, 1.0, 1.0) inMoov.setArmSpeed("right", 0.85, 0.85, 0.85, 0.85) inMoov.setArmSpeed("left", 1.0, 1.0, 1.0, 1.0) inMoov.setHeadSpeed(0.65, 0.65) inMoov.moveHead(79,100) inMoov.moveArm("left",0,119,28,15) inMoov.moveArm("right",0,111,28,15) inMoov.moveHand("left",10,10,10,10,10,35) inMoov.moveHand("right",10,10,10,10,10,113)

Look out for indentation, python is very strict about that. Hope this helps

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