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import viz
import vizact
import hand

viz.setMultiSample(4)
viz.fov(60)
viz.go()

#Identify the data glove's port.
PORT_5DT_USB = 0
#Add the 5DT sensor
sensor1 = viz.addSensor('5dt.dls')
#Create a hand object from the data glove
glove1 = hand.add(sensor1,hand.GLOVE_5DT)

#Place the hand in front of the user
glove1.setEuler([0,-90,0])
viz.MainView.setPosition([0,0.02,-0.4])

#Identify the data glove's port.
PORT_5DT_USB = 1
#Add the 5DT sensor
sensor2 = viz.addSensor('5dt.dls')
#Create a hand object from the data glove
glove2 = hand.add(sensor2,hand.GLOVE_5DT)

#Place the hand in front of the user
glove2.setPosition([0.25,0,0])
glove2.setEuler([0,-90,0])
viz.MainView.setPosition([0,0.02,-0.4])

#Add an array with all the gesture names from the 5DT user's manual.
gestureName = ['Fist', 'Index finger point', 'Middle finger point',
'Two finger point', 'Ring finger point', 'Ring-Index finger point',
'Ring-middle finger point', 'Three finger point', 'Little finger point',
'Index and little finger point', 'Little-middle finger point',
'Not ring finger point', 'Little-ring finger point',
'Not middle finger point', 'Not index finger point',
'Flat hand', 'Undefined']

gestureText = viz.addText( '', viz.SCREEN )
gestureText.setPosition(0.5,0.1)
gestureText.alignment(viz.ALIGN_CENTER)

def getGesture():
    gesture = int(sensor1.get()[-1])
    gestureText.message(gestureName[gesture])

vizact.ontimer(0, getGesture)

```