Sensores y Actuadores

Clase 9



Crear paquete "sensactu"

```
■ □ alex@alex-VirtualBox:-/catkin_ws/src
alex@alex-VirtualBox:-$ cd catkin_ws/src/
alex@alex-VirtualBox:-$ cd.catkin_ws/src/
alex@alex-VirtualBox:-catkin_ws/src$ catkin_create_pkg sensactu rospy
Created file sensactu/cfx
created file sensactu/src
successfully created files in /hone/alex/catkin_ws/src/sensactu. Please adjust t
he values in packep.xnl
alex@alex-VirtualBox:-/catkin_ws/src
alex@alex-VirtualBox:-/catkin_ws/scatkin_ws/src
successfully hone/alex/catkin_ws/scatkin_make
Base path: hone/alex/catkin_ws/src
Bulld space: /hone/alex/catkin_ws/src
Bulld space: /hone/alex/catkin_ws/lnstall
Greater_alex_catkin_ws/src
Bulld space: /hone/alex/catkin_ws/lnstall
Greater_alex_catkin_ws/src
Bulldspace: /hone/alex/catkin_ws/src
Bulldspace:
```

Compilación del paquete

Habilitar la librería FakeSensor

- → Descargamos el archivo "fake_sensor.py".
- → Se copia el archivo en la dirección indicada en la figura.
- → Se da los permisos necesarios para trabajar con el archivo.
- → Luego se importará algunos sensores o actuadores.

Obtener las medidas del sensor #!/usr/bin/env python from math import pi Se importa la librería from fake_sensor import FakeSensor FakeSensor import rospy Tipo de dato para from geometry_msgs.msg import Quaternion ubicación de un móvil def make_quaternion(angle): Cambio de tipo de q = tf.transformations.quaternion_from_euler(0, 0, angle) dato, de ángulos a return Quaternion(*q) Quaternion if __name__ == '__main__': sensor = FakeSensor() Variable tipo FakeSensor rospy.init_node('fake_sensor') pub = rospy.Publisher('angle', Quaternion, queue_size=10) rate = rospy.Rate(10.0) while not rospy.is_shutdown(): angle = sensor.sensor.value() * 2 * pi / 100.0 q = make_quaternion(angle) pub.publish(q) rate.sleep()

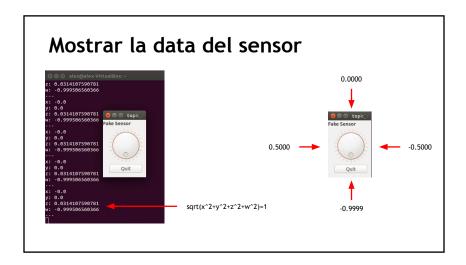
Obtener las medidas del sensor #!/usr/bin/env python from math import pi from fake_sensor import FakeSensor import rospy import tf from geometry_msgs.msg import Quaternion def make_quaternion(angle): q = tf.transformations.quaternion_from_euler(0, 0, angle) return Quaternion(*q) if __name__ == '__main__': sensor = FakeSensor() rospy.init_node('fake_sensor') pub = rospy.Publisher('angle', Quaternion, queue_size=10) Se muestre recibe el valor rate = rospy.Rate(10.0) del sensor cada 10 hz while not rospy.is_shutdown(): angle = sensor.sensor.value() * 2 * pi / 100.0 q = make_quaternion(angle) Se hace la transformación pub.publish(q) del ángulo rate.sleep()



Lista de los tópicos Press ctrl.c to Interrupt Done startalex/alex-virtualBox:-5 rosrun sensactu topic_sensor.py ros_charning: Qappication was not created in the main() thread. SUMMA alex@alex-virtualBox:-5 rostopic list /nosut /rossut /rossu





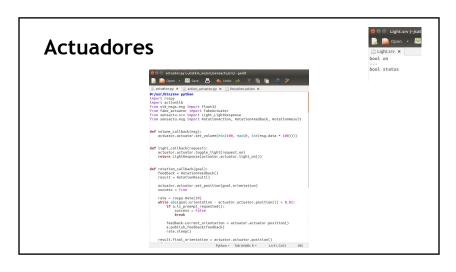


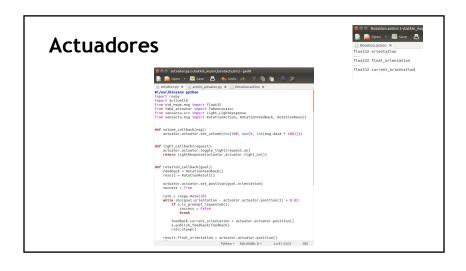


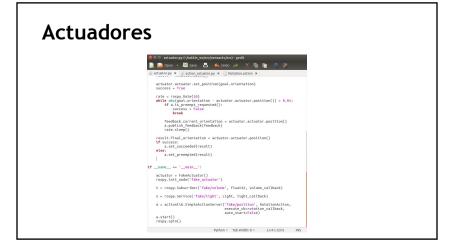




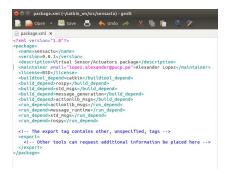




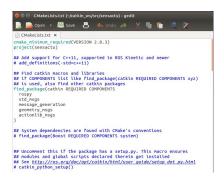




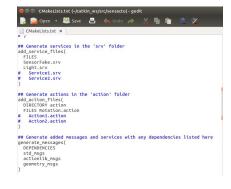
Implementar configuraciones



Implementar configuraciones

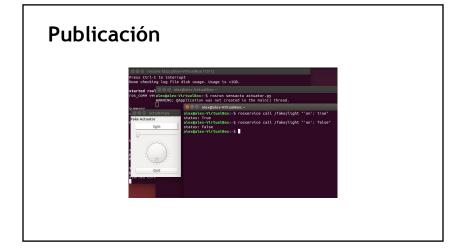


Implementar configuraciones



Implementar configuraciones

Publicación Press tr.L. to interrupt Done checking log file disk usage. Usage is <id. **strefe real** of stretulation: frost usage is <id. **stretulation: frost usage is <id. **stre

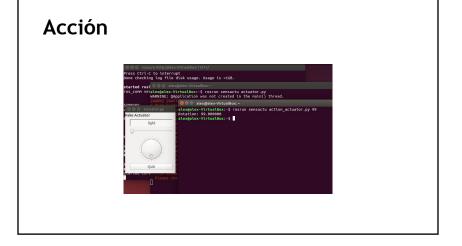












¡Gracias!

¡La única pregunta tonta es la que no se hace!