

Unity3D - Uduino MQTT

Main Topic: Unity 3D – Sensor Input und MQTT Geschwindigkeitstest

Keywords: Uduino Analogdaten [A0], MQTT, senden/empfangen

```
C1
    Steuerungscode
01
     using System.Collections;
02
    using System.Collections.Generic;
03
    using UnityEngine;
04
    using UnityEngine.UI;
95
    using Uduino;
06
    using uPLibrary.Networking.M2Mqtt.Messages;
07
    using M2MqttUnity;
08
09
    public class GameLogicMove : M2MqttUnityClient
10
11
         private UduinoManager u;
12
         private M2MqttUnityClient mqtt;
13
         public GameObject ballUduino;
14
         public GameObject ballMQTT;
15
         private int drehOldPotiValue = 0;
16
17
         protected override void Start()
18
19
         {
20
                = UduinoManager.Instance;
21
                pinMode(AnalogPin.A0, PinMode.Input);
22
             brokerAddress = "dmt.fh-joanneum.at";
23
             mqttUserName = "dmt";
24
             mqttPassword = "xxxxxx";
25
             isEncrypted = false;
26
             autoConnect = true;
27
             base.Start();
28
29
         protected override void Update()
30
31
             int drehPotiValue = 0;
32
             base.Update();
33
             drehPotiValue = u.analogRead(AnalogPin.A0); // 0 to 1023
34
             ballUduino.transform.position =
35
               new Vector3(-14.0f * drehPotiValue / 1023.0f + 7.0f,-1.5f,0);
36
             if ( Mathf.Abs(drehOldPotiValue-drehPotiValue) > 3)
37
                 MQTTPublish("uduino/analogX", drehPotiValue.ToString());
38
39
             drehOldPotiValue = drehPotiValue;
40
41
         protected override void Awake()
42
43
             UduinoManager.Instance.alwaysRead = true;
44
             base.Awake();
45
46
         protected override void SubscribeTopics()
47
48
             client.Subscribe(new string[] { "uduino/analogX" },
49
               new byte[] { MqttMsgBase.QOS_LEVEL_EXACTLY_ONCE });
50
51
         protected override void DecodeMessage(string topic, byte[] message)
52
53
             string msg = System.Text.Encoding.UTF8.GetString(message);
54
             if (topic == "uduino/analogX")
55
                 ballMQTT.transform.position =
56
                   new Vector3(-14.0f * int.Parse(msg) / 1023.0f + 7.0f, -2.5f, 0);
57
58
         }
59
```