

## Sources for the tutorial

Circuito for the schematics and code for certain builds:

<https://www.circuito.io/>

IBM Cloud guide:

[https://console.bluemix.net/docs/services/iot/getting\\_started/quickstart/index.html#mosquitto-demonstration](https://console.bluemix.net/docs/services/iot/getting_started/quickstart/index.html#mosquitto-demonstration)

Program for MQTT connection:

[https://github.com/yvesdebeer/IoT-Workshop-2019/blob/master/mqtt\\_esp8266\\_basic.ino](https://github.com/yvesdebeer/IoT-Workshop-2019/blob/master/mqtt_esp8266_basic.ino)

Datasheet for the KY-038 sound sensor:

<http://www.datasheetcafe.com/ky-038-pdf-arduino/>

Some more info + program for decibel conversion:

<https://blog.yavilevich.com/2016/08/arduino-sound-level-meter-and-spectrum-analyzer/>

<https://github.com/ayavilevich/ArduinoSoundLevelMeter/blob/master/ArduinoSoundLevelMeter.ino>

[https://raw.githubusercontent.com/RuiSantosdotme/Random-Nerd-Tutorials/master/Projects/Arduino\\_microphone\\_sensor.ino](https://raw.githubusercontent.com/RuiSantosdotme/Random-Nerd-Tutorials/master/Projects/Arduino_microphone_sensor.ino)

MQ-7:

<https://cdn.sparkfun.com/datasheets/Sensors/Biometric/MQ-7%20Ver1.3%20-%20Manual.pdf>

MCP3008:

<https://github.com/nodesign/MCP3008>

[arduinolearning.com/code/arduino-and-mcp3008.php](http://arduinolearning.com/code/arduino-and-mcp3008.php)

<https://learn.adafruit.com/raspberry-pi-analog-to-digital-converters/mcp3008>

<http://www.learningaboutelectronics.com/Articles/MCP23008-IO-port-expander-circuit-with-arduino.php>

<http://www.noveldevices.co.uk/es-mcp3008>