

# Using a Soil Moisture Sensor

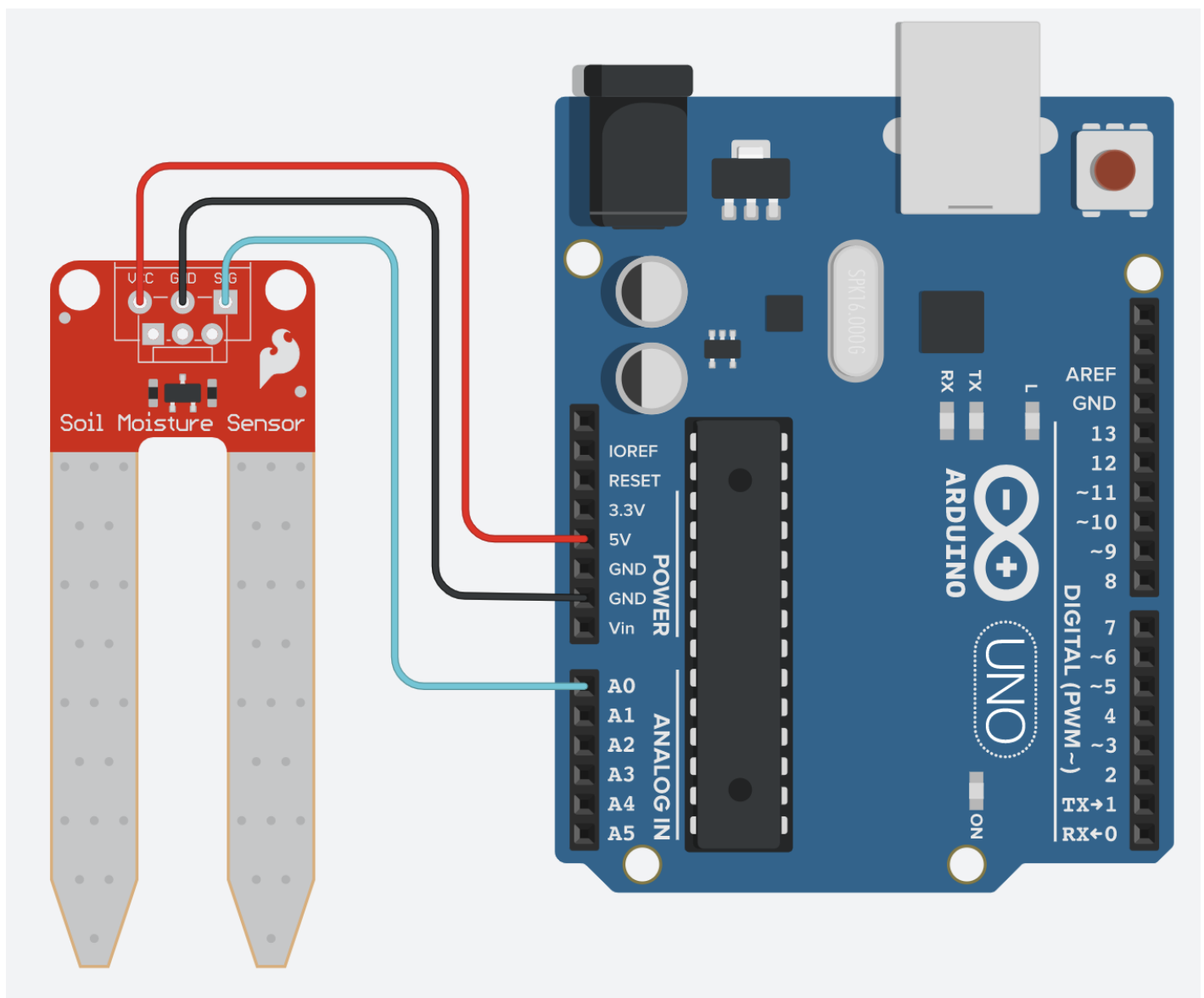
## What is a Soil Moisture Sensor?

The Soil Moisture Sensor measures soil moisture grace to the changes in electrical conductivity of the earth (soil resistance increases with drought).

## Wiring

Wiring up the sensors is simple:

1. Power (VCC to 5V)
2. Ground (GND to GND)
3. Signal (SIG to A0)



# Getting started

This example turns on the built-in LED when the soil is dry.

```
int sensorPin = A0;
int sensorValue;
int limit = 300; //300-600 is a good range of moisture generally

void setup() {
  Serial.begin(9600);
  pinMode(13, OUTPUT);
}

void loop() {

  sensorValue = analogRead(sensorPin);
  Serial.print("Moisture Level: ");
  Serial.println(sensorValue);

  if (sensorValue < limit) {
    digitalWrite(13, HIGH);
  }
  else {
    digitalWrite(13, LOW);
  }

  delay(100);
}
```

---

Revision #2

Created 24 June 2022 10:27:13 by Joanne Leung

Updated 16 December 2024 10:30:07 by Joanne Leung