

analogRead

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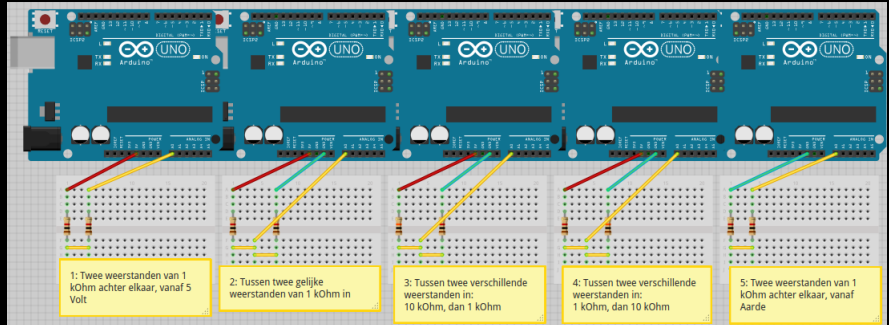
0.1 Overzicht

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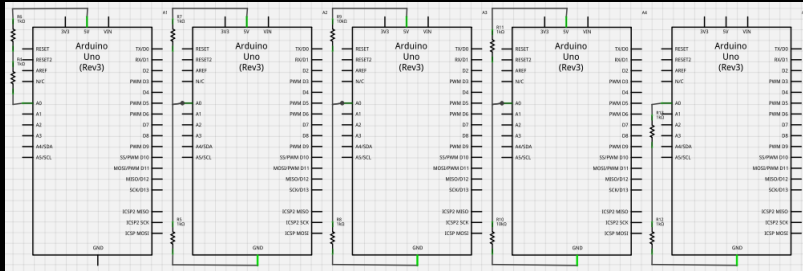
0.2 Doel

- Spanning meten met Arduino: `analogRead`
- Basisschakelingen herkennen
- Bouwen van minstens vijf schakelingen
- Dit niet kennen = domme fouten gaan maken: drukknop, sensor, etcetera

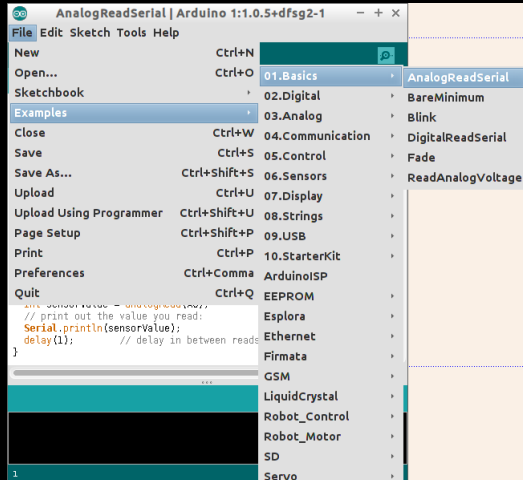
0.3 Opdracht



0.4 Opdracht



0.5 Programma



0.6 Programma



```
AnalogReadSerial | Arduino 1:1.0.5+dfsg2-1 - + x
File Edit Sketch Tools Help

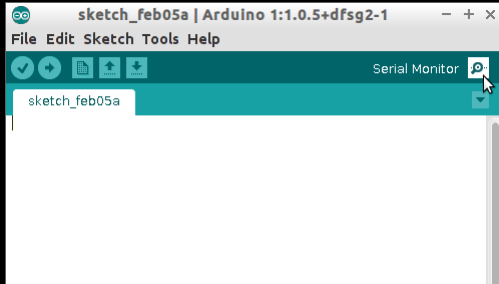
/*
 * AnalogReadSerial
 * Reads an analog input on pin 0, prints the result to the serial monitor.
 * Attach the center pin of a potentiometer to pin A0, and the outside pins
 * to ground and +5V.
 *
 * This example code is in the public domain.
 */

// the setup routine runs once when you press reset:
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
}

// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0:
  int sensorValue = analogRead(A0);
  // print out the value you read:
  Serial.println(sensorValue);
  delay(1);        // delay in between reads for stability
}
```

1 Arduino Uno on /dev/ttyACM0

0.7 Bekijken



0.8 Opschrijven

- Welke waarden meet je bij elk van de vijf schakelingen?
- Kun je voorspellingen maken? Maak gerust nieuwe schakelingen!
- Noteer! Deze schakelingen zul je vaak gaan bekijken!