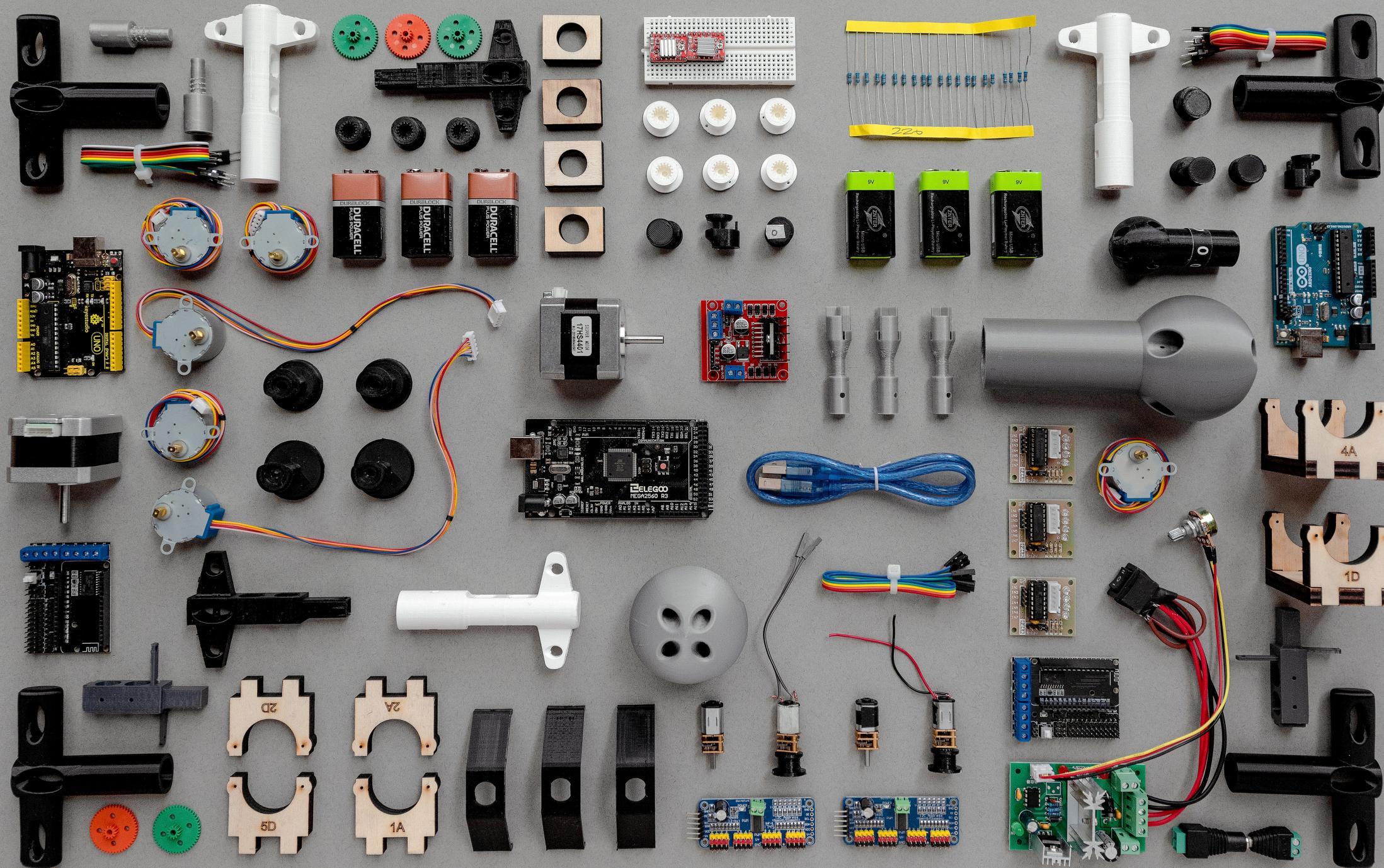




Arduino Skill Module

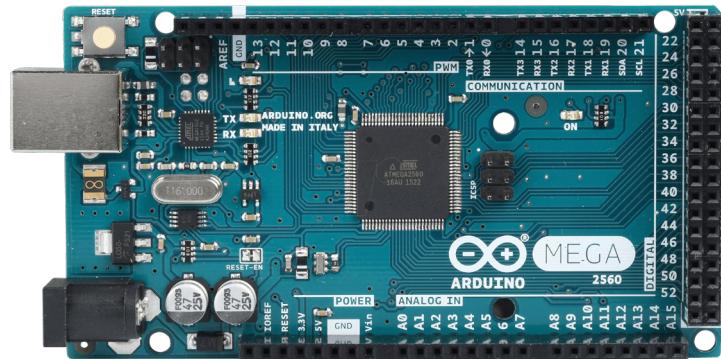
RC3 2018



Hardware



Ardiuno UNO

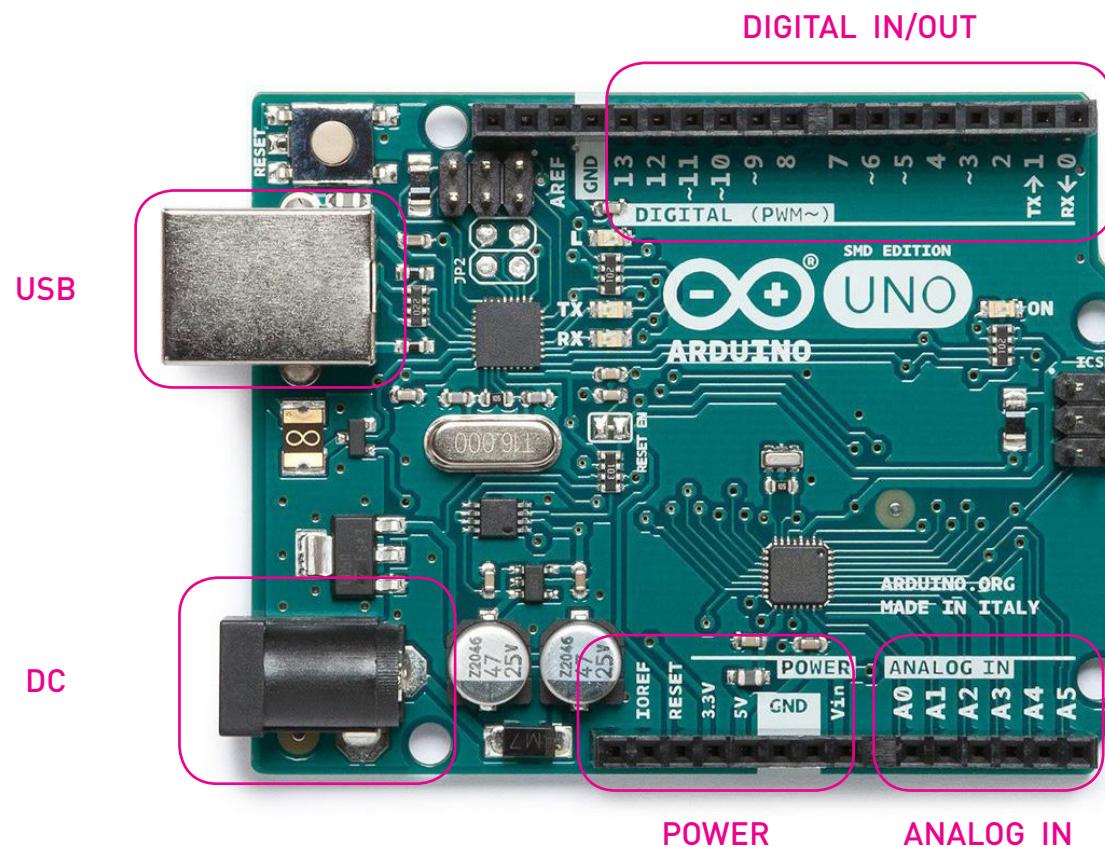


Ardiuno MEGA 2560

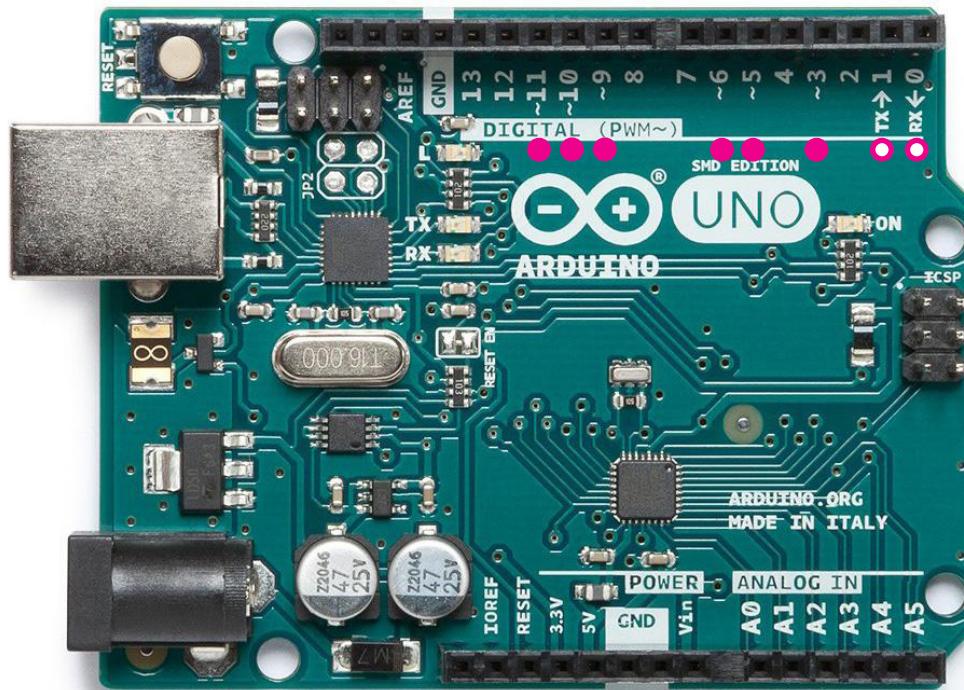


Ardiuno NANO

Arduino UNO MAP



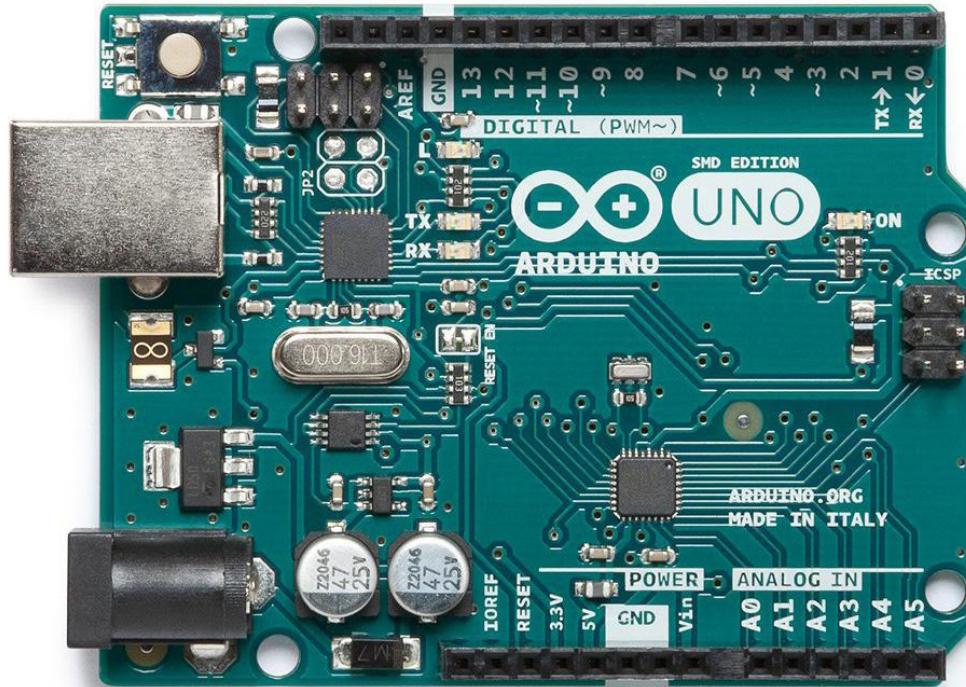
DIGITAL IN/OUT



REGULAR DIGITAL IN/OUT
HIGH/LOW

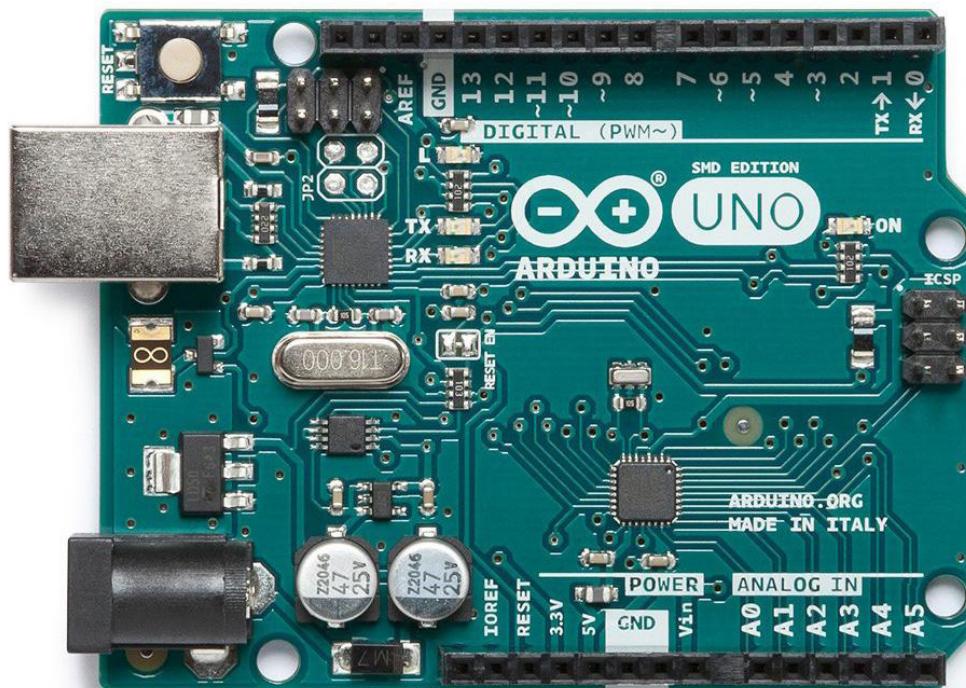
● PWM IN/OUT
HIGH/LOW, ANALOG(0~255)

● COMMUNICATION IN/OUT
HIGH/LOW, RX/TX



ANALOG IN

ANALOG IN
ANALOG(0~1024)



POWER

Vin Power IN

5-12V

GND Ground

5V Power Out

3.3V Power Out

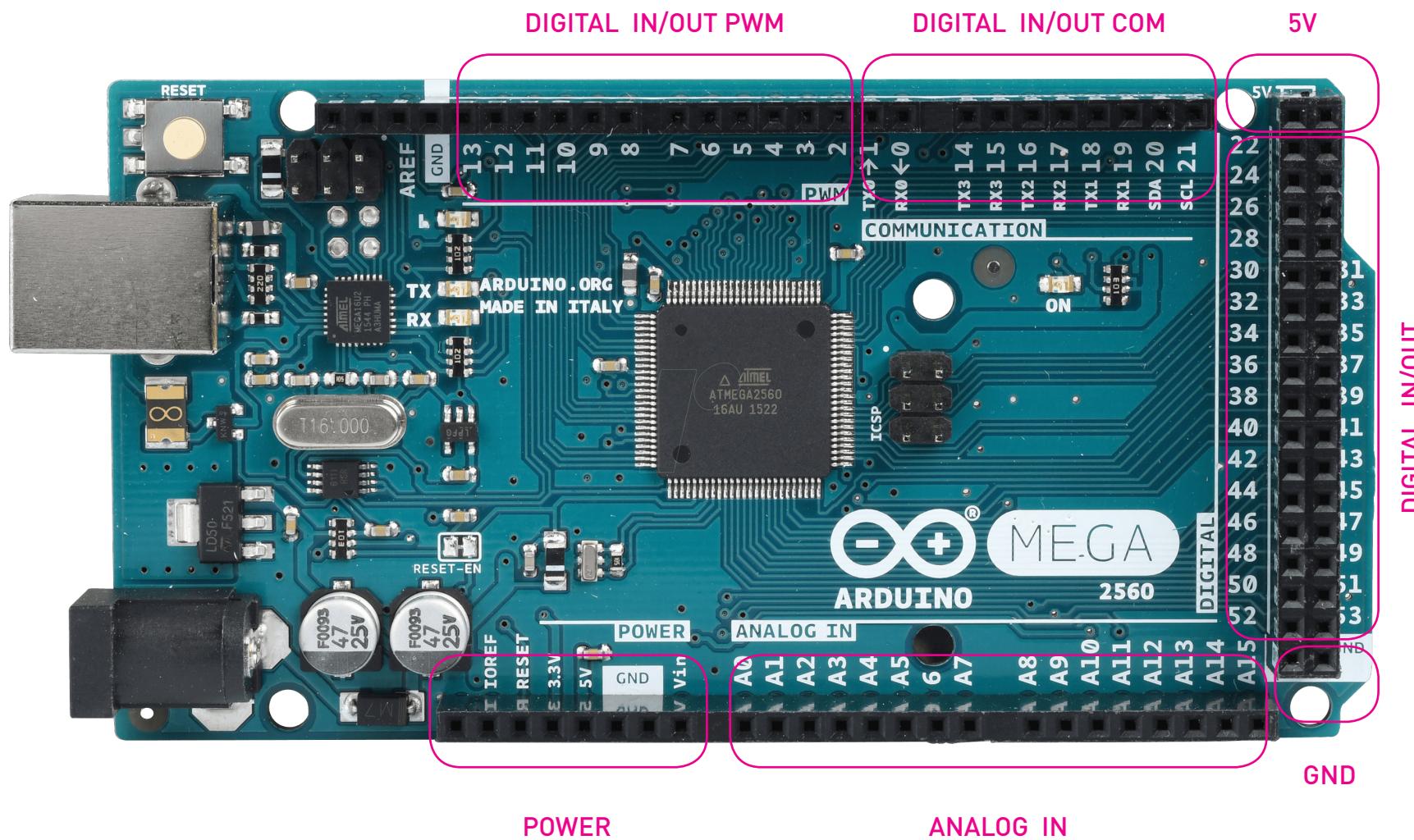
RESET

Reset The board when receive 5V

IOREF

The voltage level output for other devices

Arduino MEGA 2560 MAP



Motors

DC Motor



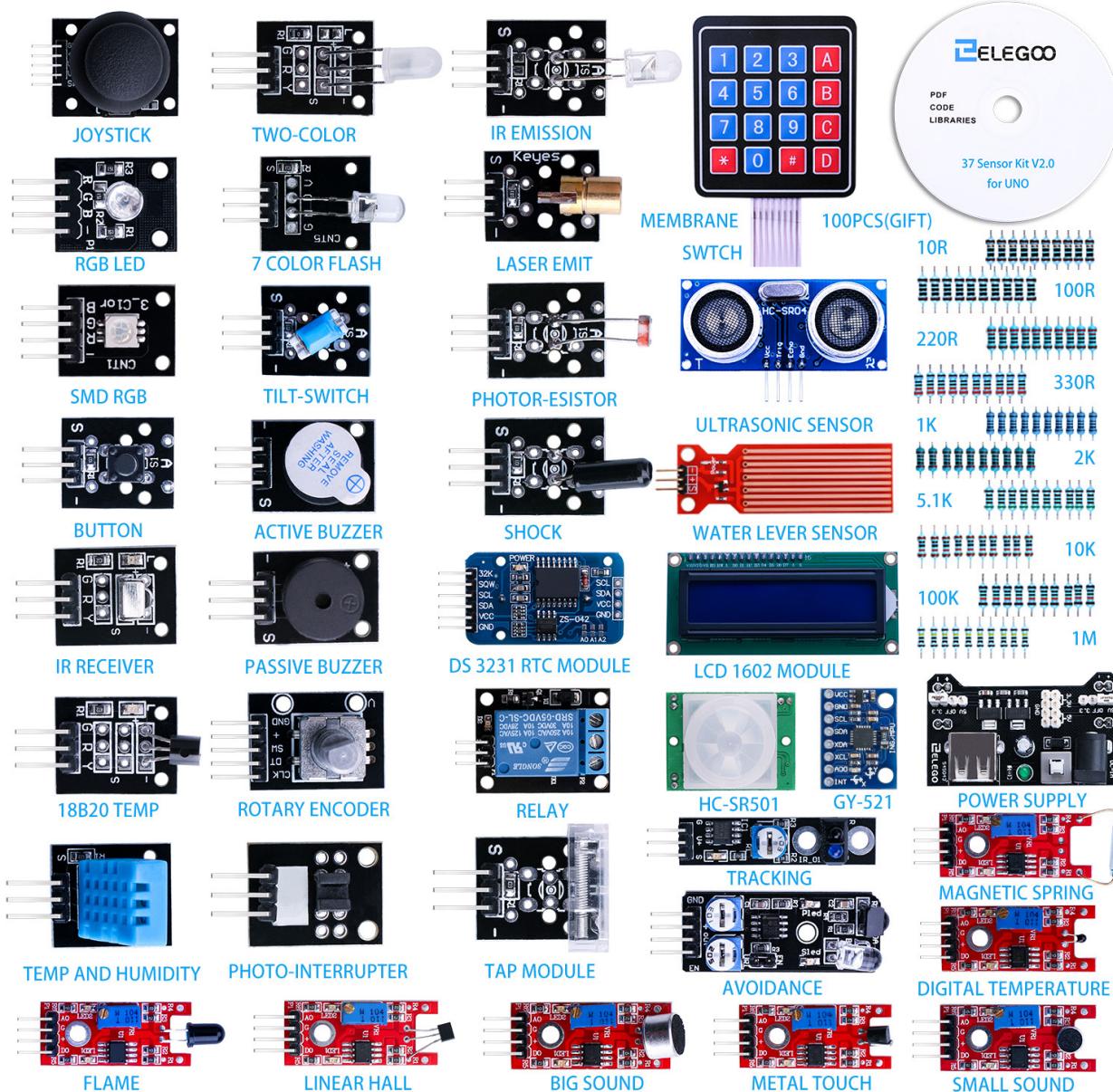
Servo Motor

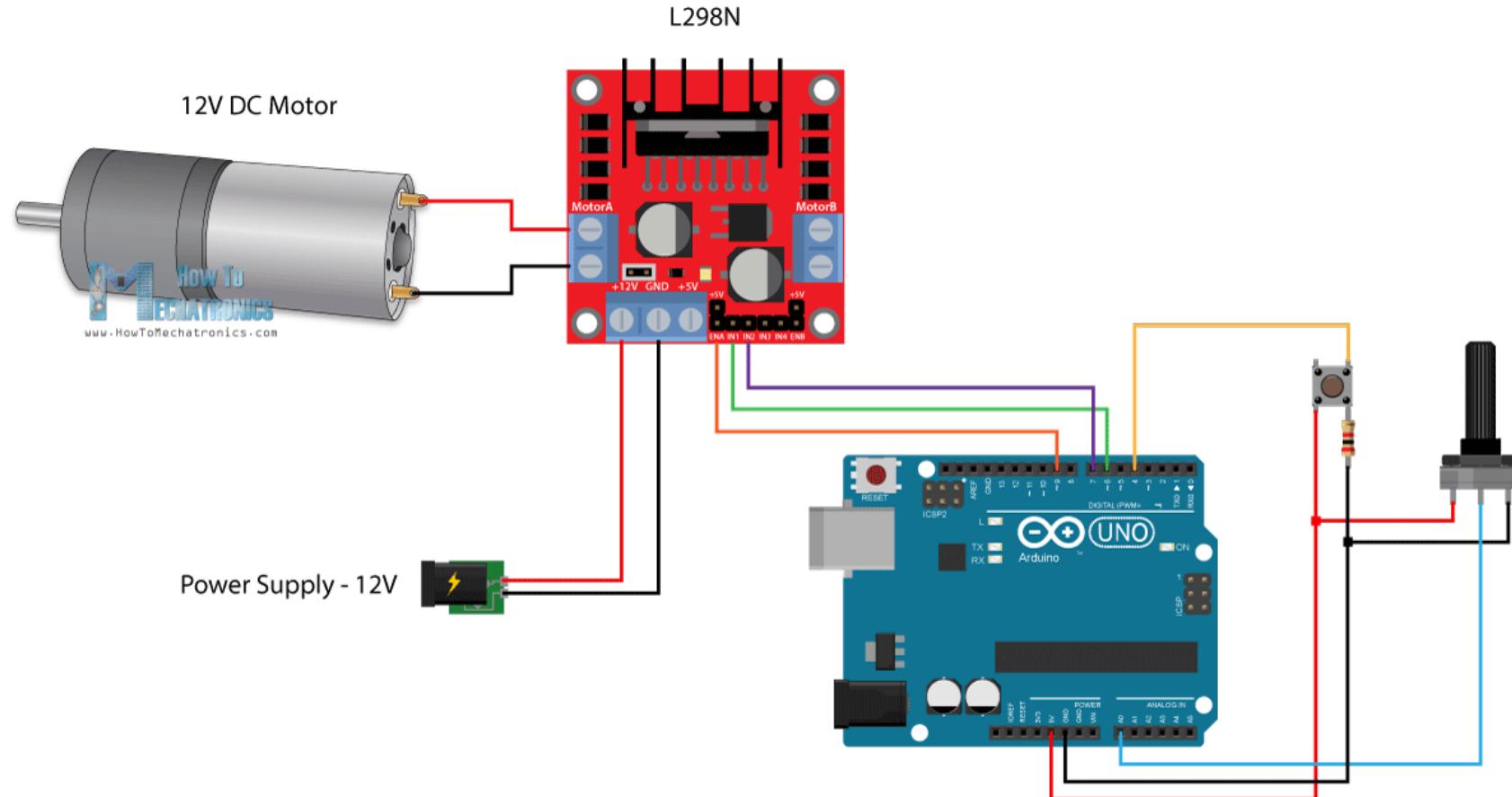


Stepper Motor



Sensors





Software



Arduino IDE



Fritzing



Ardiuno IDE

sketch_mar09a | Arduino 1.6.8

File Edit Sketch Tools Help

sketch_mar09a

```
void setup() {
  // put your setup code here, to run once:
}

void loop() {
  // put your main code here, to run repeatedly:
}
```

3 Arduino Due (Programming Port) on COM1

The screenshot shows the Arduino IDE interface with the title bar "Blink | Arduino 1.0.3". The code editor displays the "Blink" sketch. The code is as follows:

```
/*
Blink
Turns on an LED on for one second, then off for one second, repeatedly.

This example code is in the public domain.
*/

// Pin 13 has an LED connected on most Arduino boards.
// give it a name:
int led = 13;

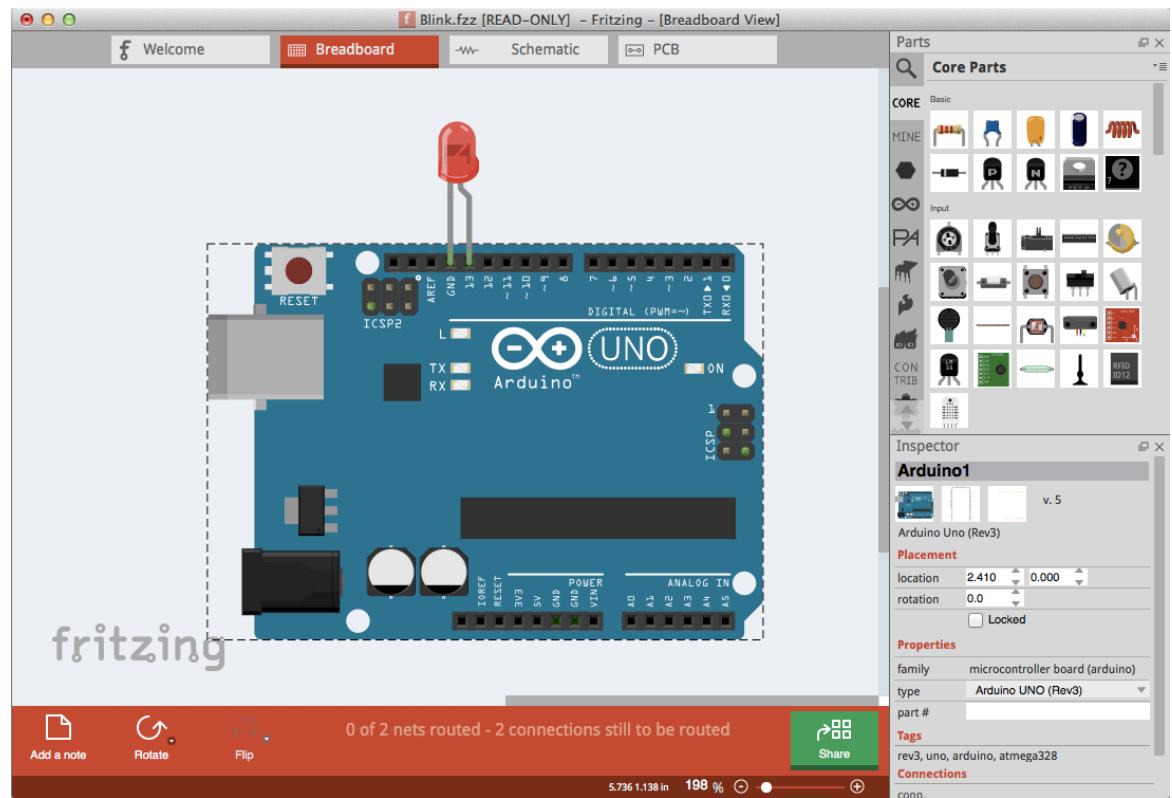
// the setup routine runs once when you press reset:
void setup() {
    // initialize the digital pin as an output.
    pinMode(led, OUTPUT);
}

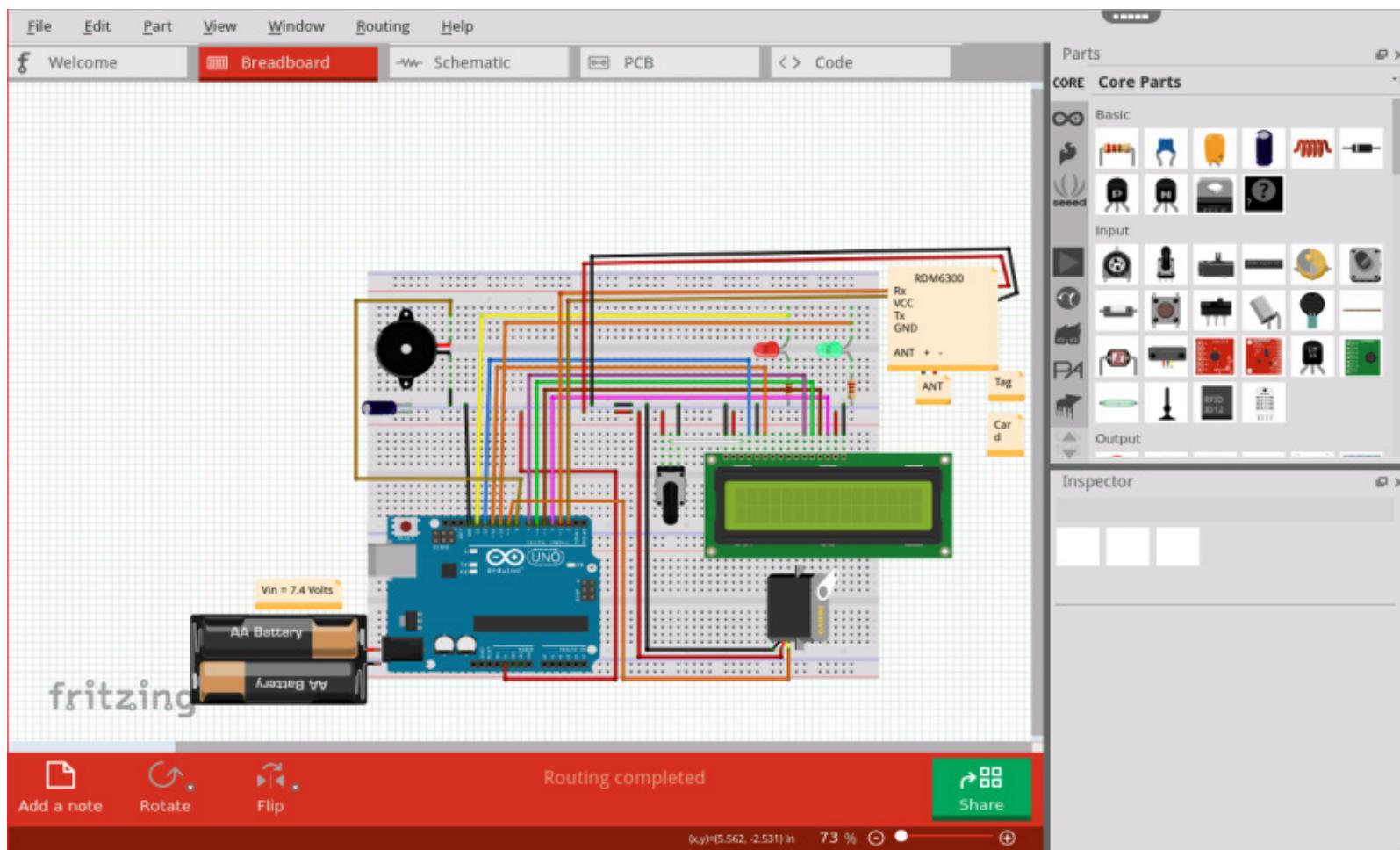
// the loop routine runs over and over again forever:
void loop(){
    digitalWrite(led, HIGH);      // turn the LED on (HIGH is the voltage level)
    delay(1000);                // wait for a second
    digitalWrite(led, LOW);       // turn the LED off by making the voltage LOW
    delay(1000);                // wait for a second
}
```

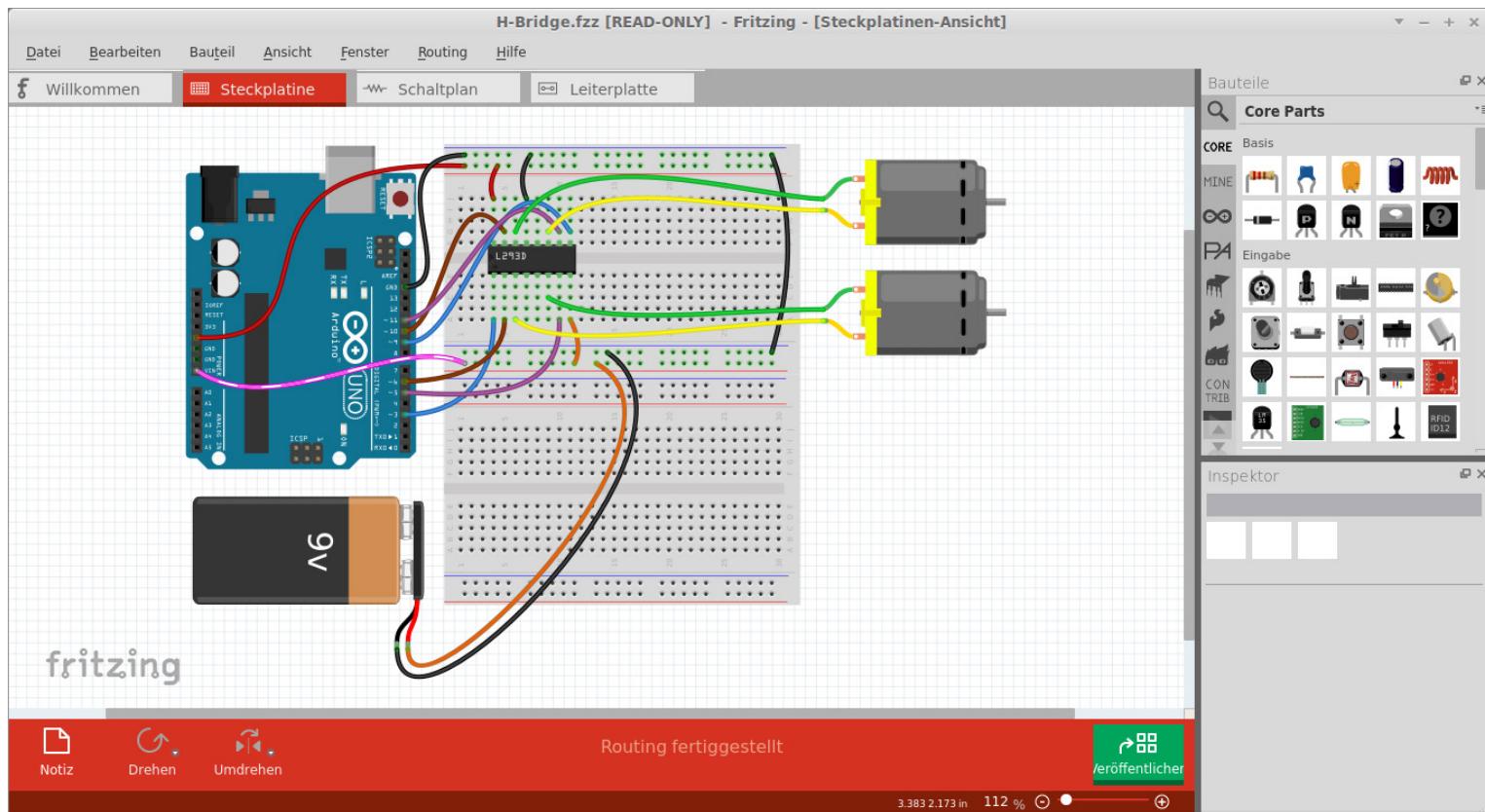
The status bar at the bottom indicates "Arduino Mega (ATmega1280) on /dev/tty.usbserial-A600enbz".



Fritzing







<https://www.youtube.com/watch?v=BSTygwGNtc4>

<https://www.youtube.com/watch?v=usJ8yeD-aC4&t=80s>

