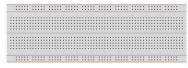


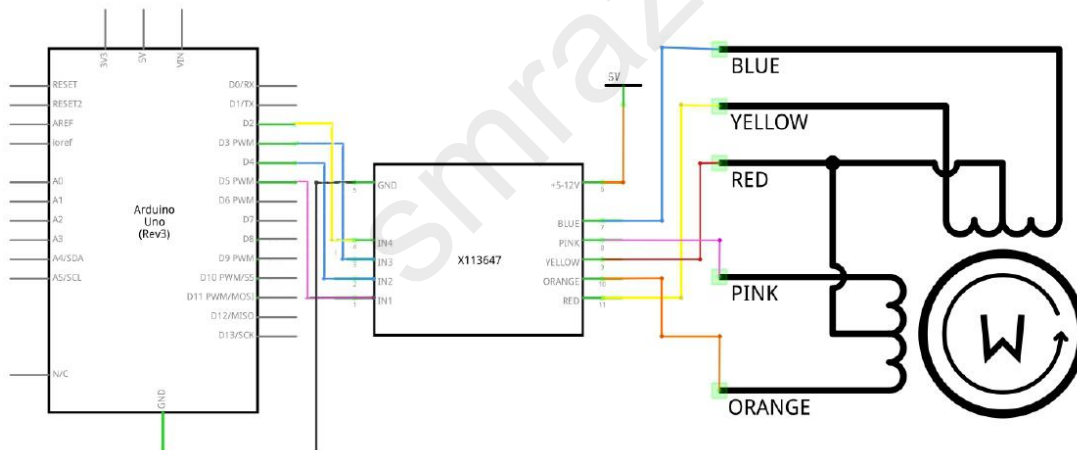


## Hardware required

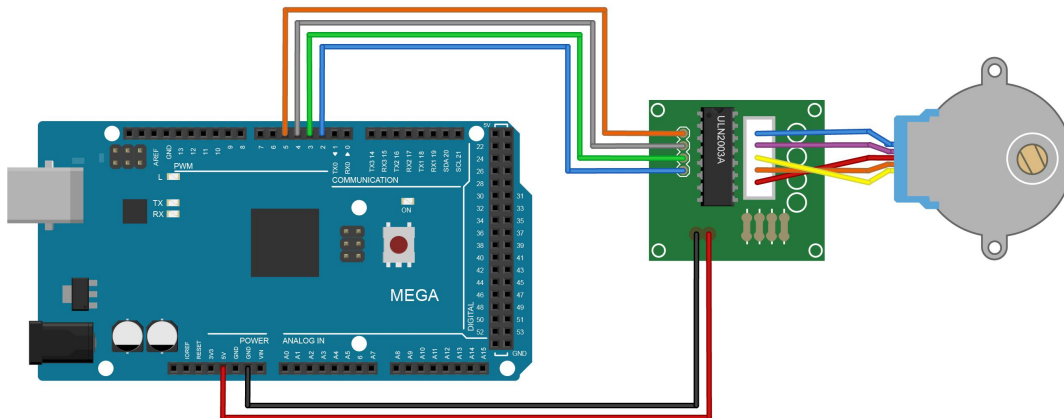
Material diagram	Material name	Number
	Step motor	1
	ULN2003 step motor driver board	1
	USB Cable	1
	MEGA 2560	1
	Breadboard	1
	Female to male Jumper	6
	Jumper wires	Several

## Connection

### Schematic



### Connection diagram



## Connection:

ULN2003	Arduino
IN4	-> D2
IN3	-> D3
IN2	-> D4
IN1	-> D5
'-'	-> GND
'+'	-> +5V

## Sample code

Note: sample code under the **Sample code** folder

```
#include <Stepper.h>
```

```
const int stepsPerRevolution = 200; // change this to fit the number of steps per  
revolution
```

```
// for your motor
```

```
// initialize the stepper library on pins 2 through 5:
```

```
Stepper myStepper(stepsPerRevolution, 2, 3, 4, 5);
```

```
int stepCount = 0;           // number of steps the motor has taken
```

```
void setup() {
```

```
    // initialize the serial port:
```

```
    Serial.begin(9600);
```

```
}
```

```
void loop() {
```

```
    // step one step:
```

```
    myStepper.step(1);
```

```
    Serial.print("steps:");
```

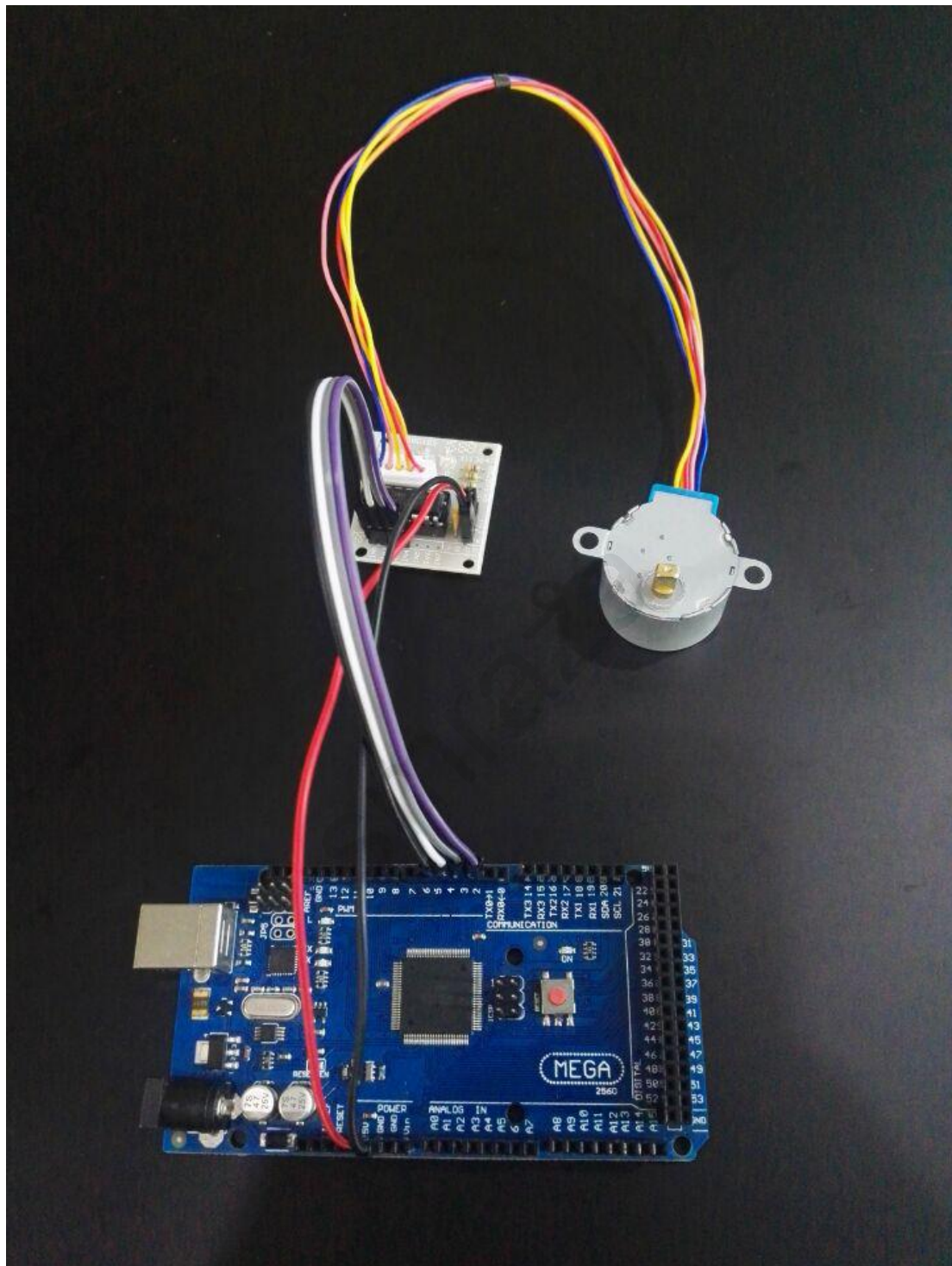
```
    Serial.println(stepCount);
```

```
    stepCount++;
```

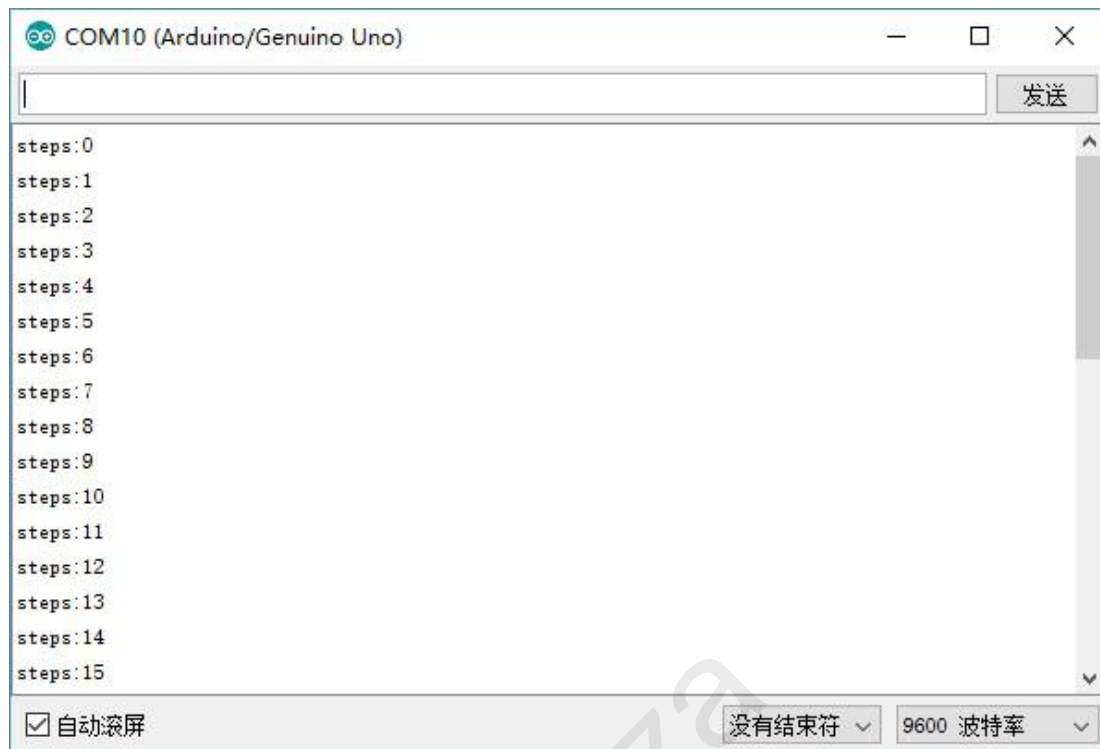
```
    delay(500);
```

```
}
```

## Example picture



## Result



## Language reference

Note : click on the following name to jump to the web page.

If you fail to open, use the Adobe reader to open this document.

[Stepper myStepper = Stepper](#)(steps, pin1, pin2, pin3, pin4)

[stepper.setSpeed\(\)](#)

[stepper.step\(\)](#)

## Application effect

The motor will step one step at a time, very slowly.

\*\*\*\*\*

\* About Smraza:

\* We are a leading manufacturer of electronic components for Arduino and Raspberry Pi.

\* Official website: <http://www.smraza.com/>

\* We have a professional engineering team dedicated to providing tutorials and support to help you get started.

\* If you have any technical questions, please feel free to contact our support staff via email at [support@smraza.com](mailto:support@smraza.com)

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