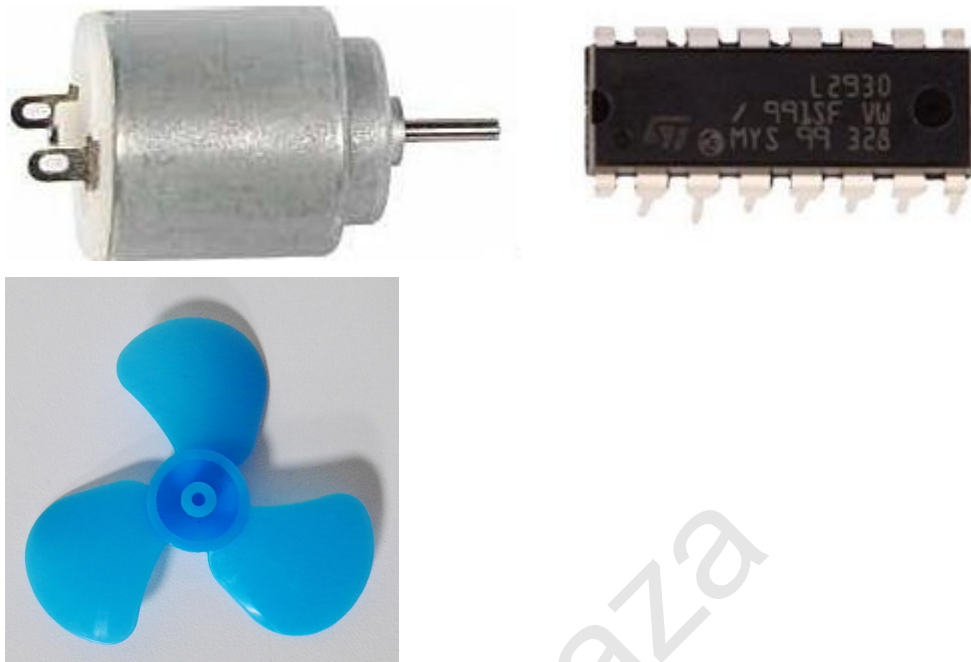


DC Motor Fan

Overview



This lesson will teach you how to control the DC motor and fan.

Specification

Motor:

Rated Voltage: DC 6V

Speed: 5000 RPM

L293d:





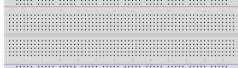


Please view L293d-datasheet.pdf.

Path: \Public_materials\Datasheet\ L293d -datasheet.pdf

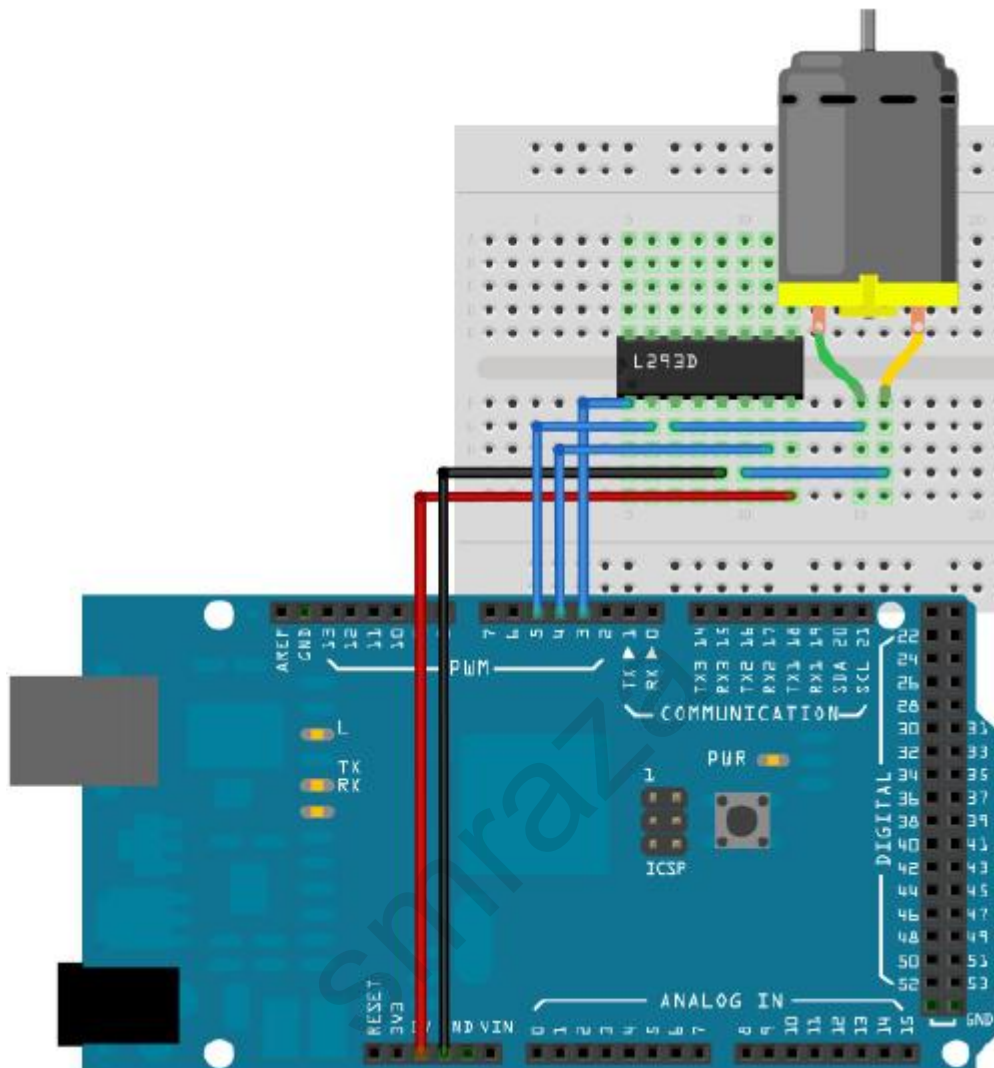
Pin definition



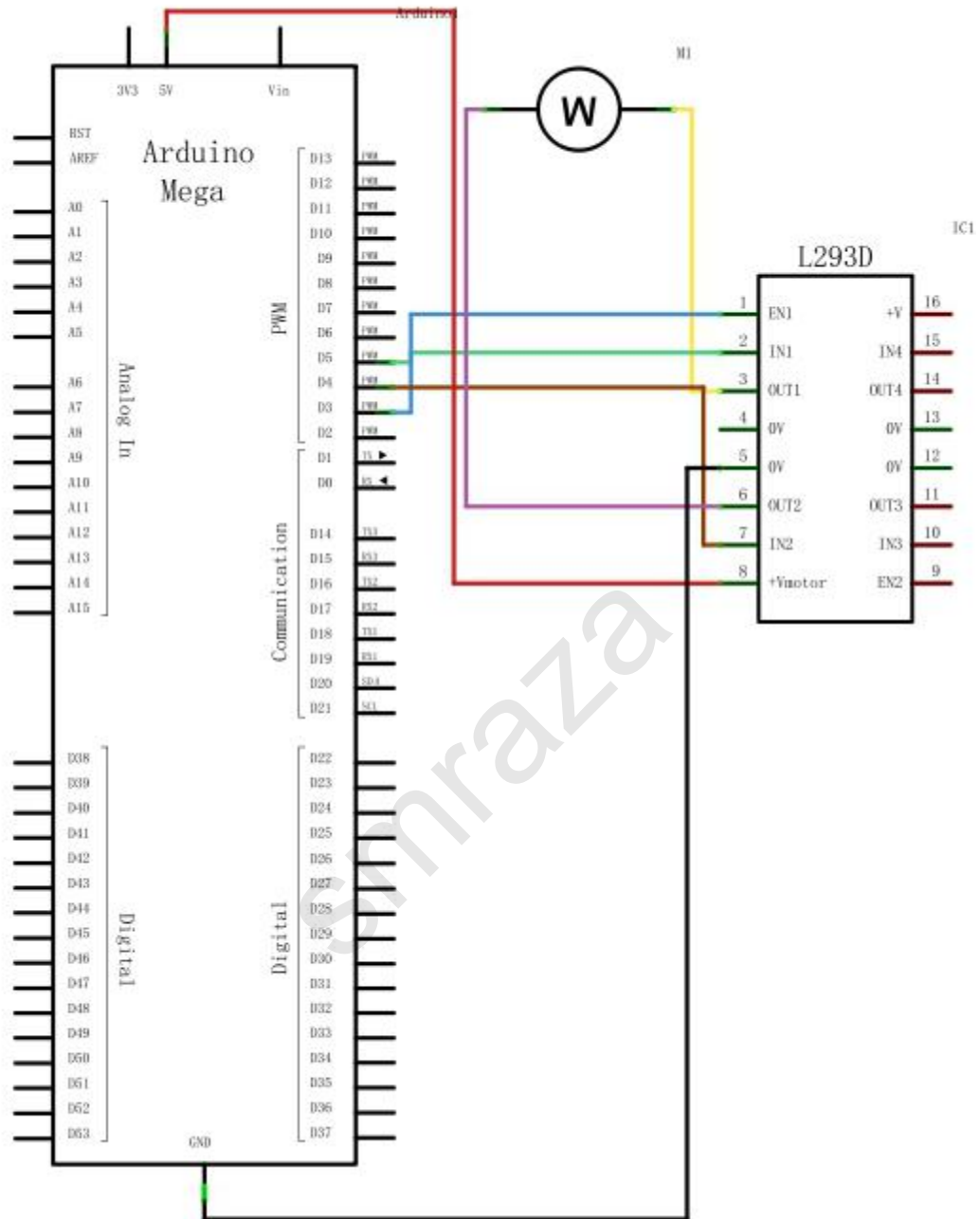
Hardware required

Material diagram	Material name	Number
	DC Motor	1
	IC L293D	1
	USB Cable	1
	MEGA 2560	1
	Breadboard	1
	Jumper wires	Several
	Fan	1

Connection diagram



Connection:



Note:

Pay attention to the direction of the IC L293D.

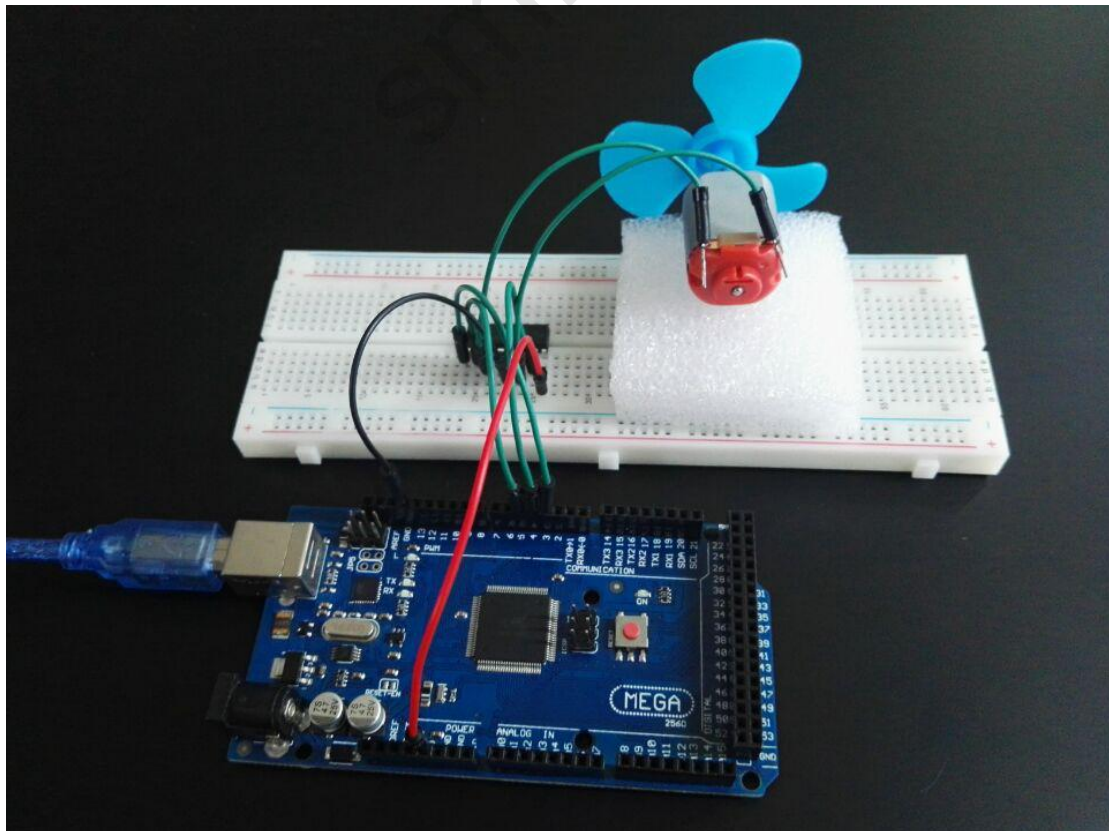
Sample code

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

```
#define ENABLE 3
#define DIRB 4
#define DIRA 5
int i;
void setup()
{
  //---set pin direction
  pinMode(ENABLE,OUTPUT);
  pinMode(DIRA,OUTPUT);
  pinMode(DIRB,OUTPUT);
  Serial.begin(9600);
}

void loop()
{
  Serial.println("fast Slow example");
  //---fast/slow stop example
  digitalWrite(ENABLE,HIGH); //enable on
  digitalWrite(DIRA,HIGH); //one way
  digitalWrite(DIRB,LOW);
}
```

Example picture



Language reference

Null

Application effect

You will see the DC motor will be turning, turning and stopping.

* About Smraza:

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

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

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* If you have any technical questions, please feel free to contact our support staff via email at support@smraza.com

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