

Joystick Experiment

Overview







This lesson will teach you how to use Joystick module, which is simple and easy to use.

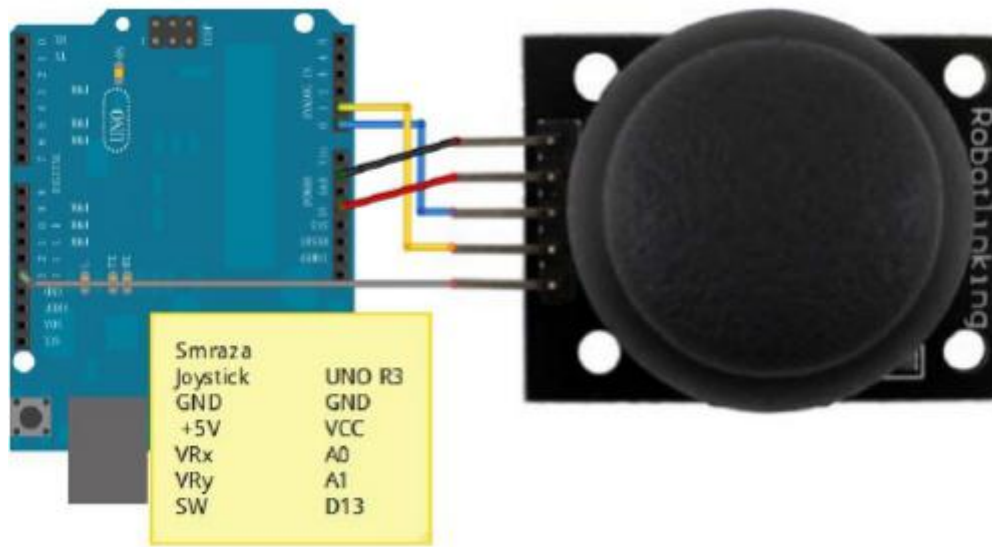
Pin definition

UNO R3	Joystick module
GND	GND
5V	+5V
A0	VRx
A1	VRy
D13	SW

Hardware required

Material diagram	Material name	Number
	Joystick module	1
	UNO R3	1
	USB Cable	1
	Male to Female Jumper wires	several

Connection diagram



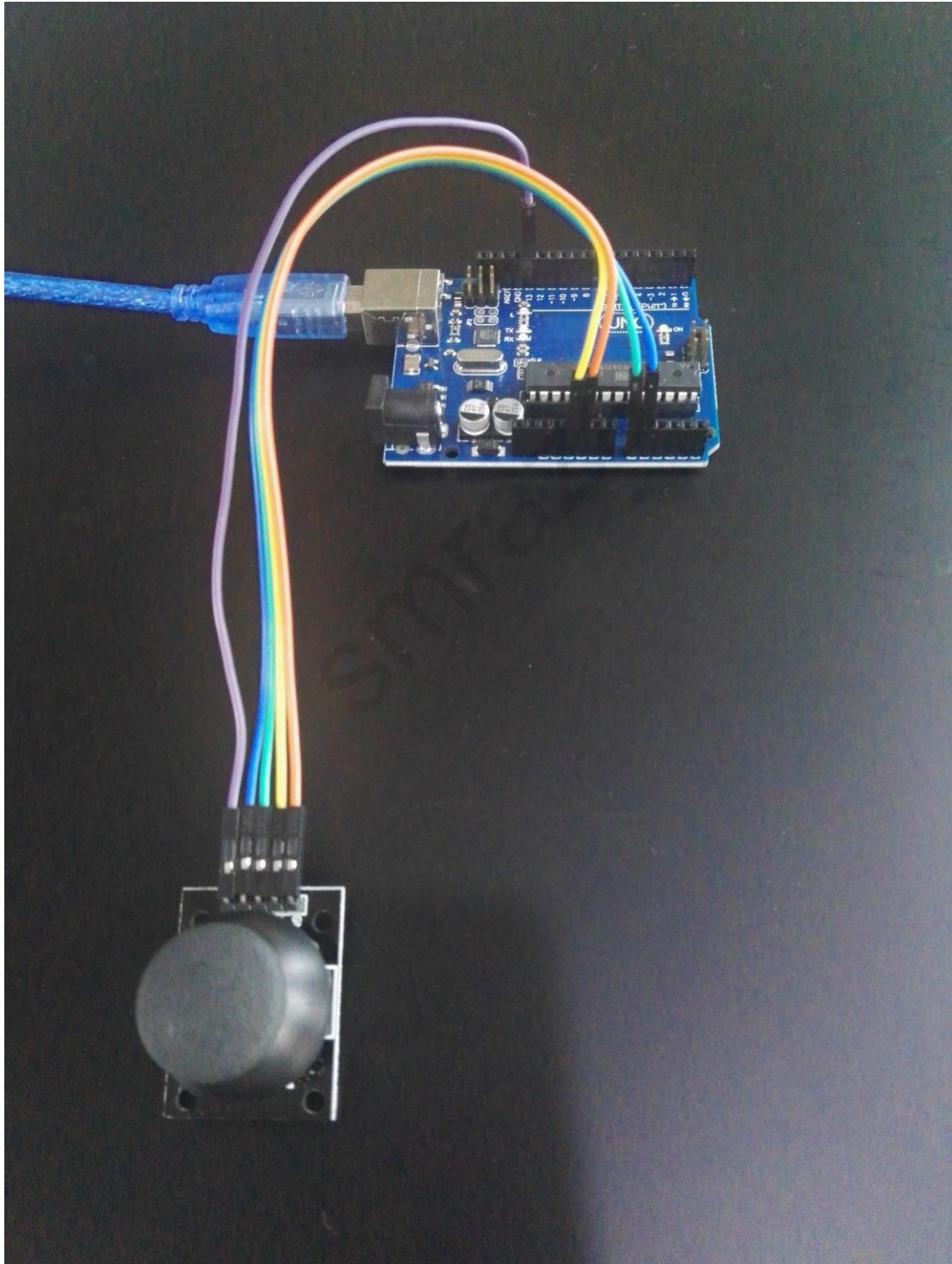
Sample code

Note: sample code under the Sample code folder

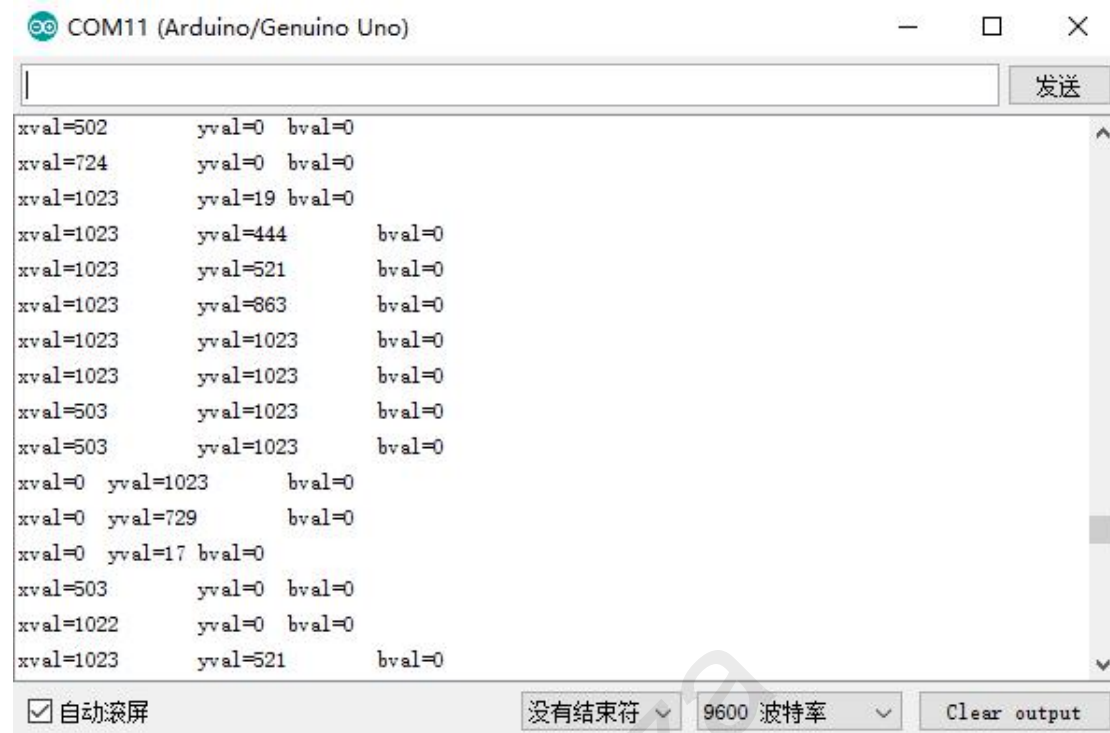
```
int xpotPin = A0; //Set port
int ypotPin = A1;
int bpotPin = 13;
int xval=0;    //Initialize a variable
int yval=0;
int bval=0;
void setup()
{
    pinMode(xpotPin,INPUT);
    pinMode(ypotPin,INPUT);
    pinMode(bpotPin,INPUT);
    Serial.begin(9600);
}
void loop()
{
    xval = analogRead(xpotPin); //Read Values from the xpotPin
    yval = analogRead(ypotPin);
    bval = digitalRead(bpotPin);
    Serial.print("xval=");
    Serial.print(xval);
    Serial.print("\t");
    Serial.print("yval=");
    Serial.print(yval);
    Serial.print("\t");
```

```
Serial.print("bval=");  
Serial.println(bval);  
delay(200);  
}
```

Example picture



Result



COM11 (Arduino/Genuino Uno)

发送

```
xval=502      yval=0      bval=0
xval=724      yval=0      bval=0
xval=1023     yval=19     bval=0
xval=1023     yval=444     bval=0
xval=1023     yval=521     bval=0
xval=1023     yval=863     bval=0
xval=1023     yval=1023    bval=0
xval=1023     yval=1023    bval=0
xval=503      yval=1023    bval=0
xval=503      yval=1023    bval=0
xval=0        yval=1023    bval=0
xval=0        yval=729     bval=0
xval=0        yval=17      bval=0
xval=503      yval=0      bval=0
xval=1022     yval=0      bval=0
xval=1023     yval=521     bval=0
```

☒ 自动滚屏 没有结束符 9600 波特率 Clear output

Language reference

Tips : Click on the following name to jump to the web page.

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

[pinMode\(\)](#)

[digitalRead\(\)](#)

[analogRead\(\)](#)

[Serial](#)

Application effect

Open the serial port monitor, and turning the joystick, you will see some different values by return.

* 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

* We truly hope you enjoy the product, for more great products please visit our

Amazon US store: <http://www.amazon.com/shops/smraza>

Amazon CA store: <https://www.amazon.ca/shops/AMIHZKLK542FQ>

Amazon UK store: <http://www.amazon.co.uk/shops/AVEAJYX3AHG8Q>

Amazon DE store: <http://www.amazon.de/shops/AVEAJYX3AHG8Q>

Amazon FR store: <http://www.amazon.fr/shops/AVEAJYX3AHG8Q>

Amazon IT store: <http://www.amazon.it/shops/AVEAJYX3AHG8Q>

Amazon ES store: <https://www.amazon.es/shops/AVEAJYX3AHG8Q>
