

Receive data from Arduino in Isadora

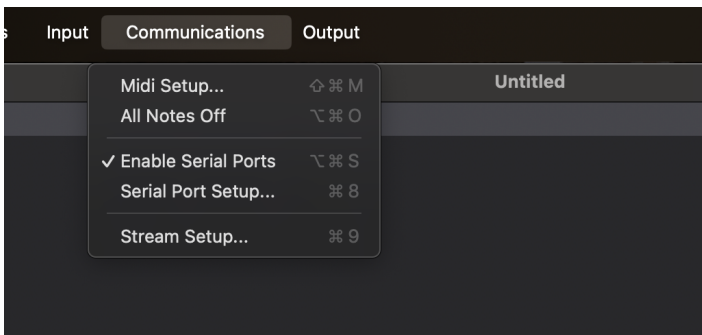
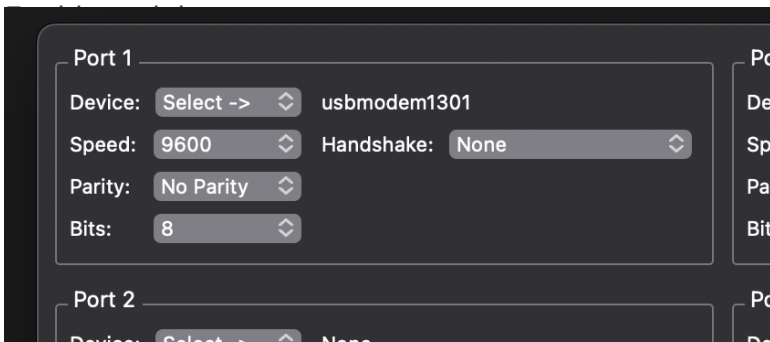
Isadora settings

Communications:> Serial port setup

Port 1

Device: select -> usbmodem

Communications>



NB! If you have this on, close the serial monitor in Arduino,

If the serial monitor is on, Isadora cannot connect to the Arduino.

This also works the other way around. If you want to adjust your code in Arduino and you want to test the code, you must turn off the serial monitor in Isadora.

Open serial monitor in isadora:

windows > show monitor

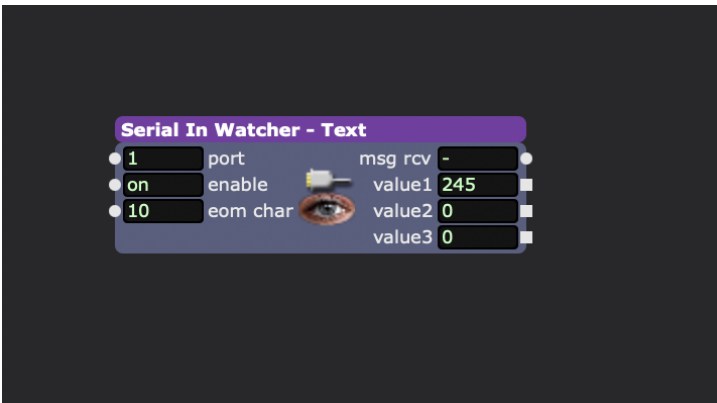
Here you can see that the data is coming in from the Arduino. On the far right you can see that the value changes from 0 to 400(or more depending on the sensor). The serial monitor is for

monitoring purposes only. You can turn it off when you see that the connection works.

In the Serial in watcher actor you see that the value changing. You can use that output for your patch.

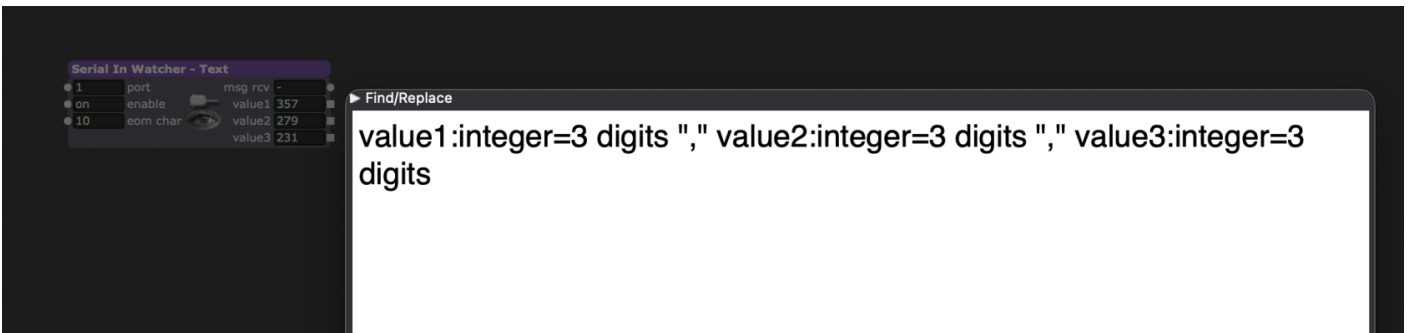
Example with 3 LDR light sensors + code

A sensor usually outputs a range of data. In that case use the Serial in watcher - Text



open the actor by double klikking it and fill in this code : **value:int=eol**
in actor put **eom char** on **10**

Double click on the actor and fill in : **value1:integer=3 digits "," value2:integer=3 digits "," value3:integer=3 digits**



[you could folow this tutorial](#) for connecting the LDR sensor

I used this arduino code for 3 LDR light sensors:

```
void setup() {  
  
Serial.begin(9600); // Start seriële communicatie
```

```
}  
  
void loop() {  
  
int ldr1 = analogRead(A0);  
  
int ldr2 = analogRead(A1);  
  
int ldr3 = analogRead(A2);  
  
    Serial.print("value1=");  
  
Serial.print(ldr1);  
  
Serial.print(" value2=");  
  
Serial.print(ldr2);  
  
Serial.print(" value3=");  
  
Serial.println(ldr3);  
  
  
    delay(100);  
  
}
```

Example file:

download Isadora example file:

[Arduino sensors LDR.izz](#)

Touchdesigner tutorial: <https://www.youtube.com/watch?v=4dO7Q5oQbRg>

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