

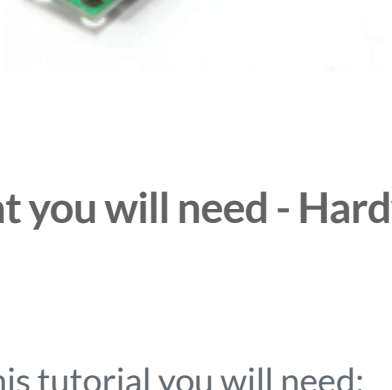
Arduino Tutorials

How to use an LCD display

8-Digit Seven Segment Display with MAX7219

Available Languages  

Introduction



In this tutorial we will show you how to use the 8-Digit seven segment display with MAX-7219 IC, with the Arduino uno board.

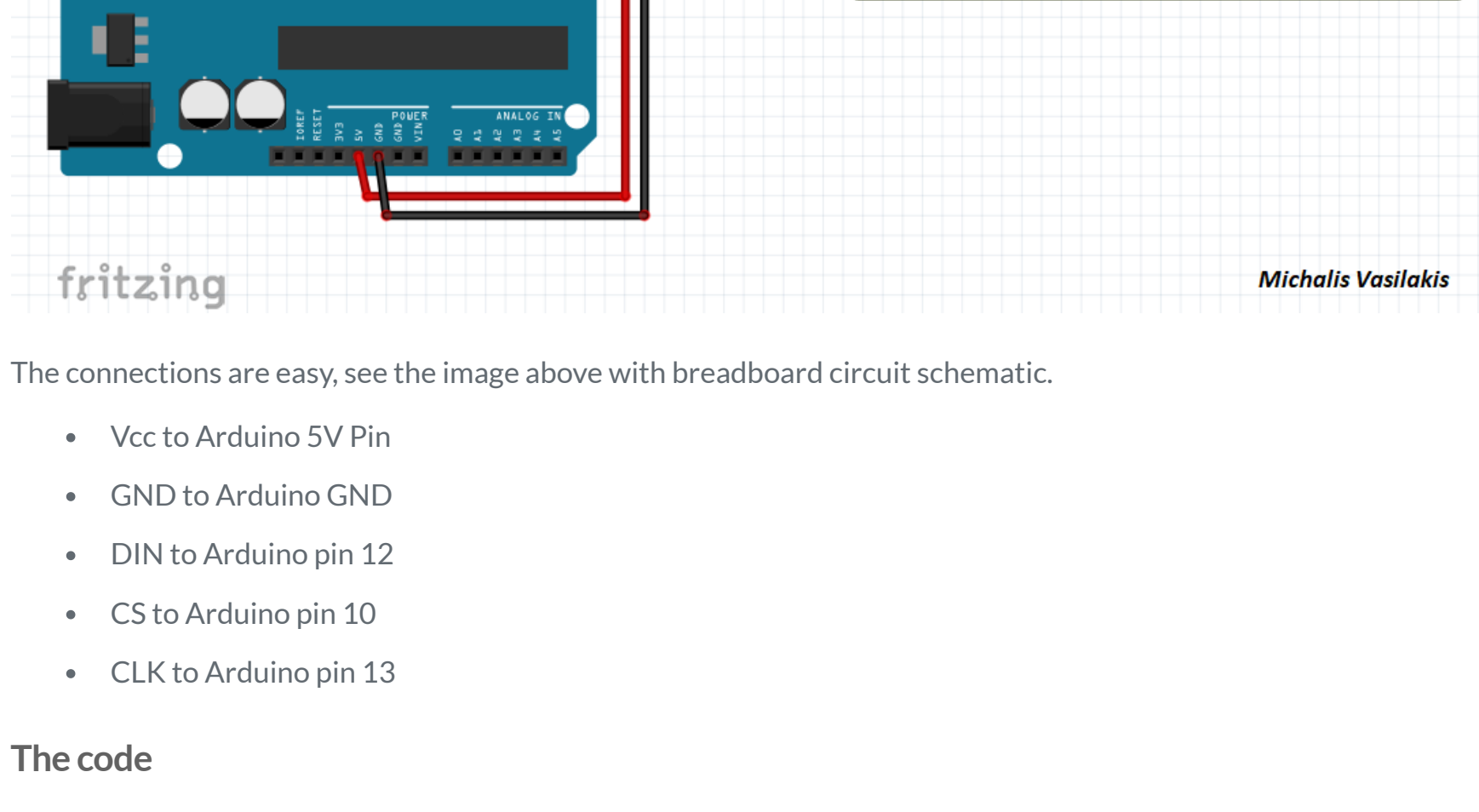
Let's get started!

What you will need - Hardware

For this tutorial you will need:

- [Arduino uno](#)
- [8-Digit Seven Segment Display Module](#)

The Circuit



The connections are easy, see the image above with breadboard circuit schematic.

- Vcc to Arduino 5V Pin
- GND to Arduino GND
- DIN to Arduino pin 12
- CS to Arduino pin 10
- CLK to Arduino pin 13

The code

```
1//We always have to include the library
2#include "LedControl.h"
3
4/*
5 Now we need a LedControl to work with.
6 ***** These pin numbers will probably not work with your hardware *****
7 pin 12 is connected to the datain
8 pin 13 is connected to the CLK
9 pin 10 is connected to LOAD
10 We have only a single MAX72XX.
11 */
12 LedControl lc=LedControl(12,13,10,1);
13
14/* we always wait a bit between updates of the display */
15 unsigned long delaytime=250;
16
17 void setup() {
18   /*
19    The MAX72XX is in power-saving mode on startup,
20    we have to do a wakeup call
21   */
22   lc.shutdown(0,false);
23   /* Set the brightness to a medium values */
24   lc.setIntensity(0,8);
25   /* and clear the display */
26   lc.clearDisplay(0);
27 }
28
29 /*
30 */
31 This method will display the characters for the
32 word "Arduino" one after the other on digit 0.
33 */
34 void writeArduinoOn7Segment() {
35   lc.setChar(0,0,'a',false);
36   delay(delaytime);
37   lc.setRow(0,0,0x05);
38   delay(delaytime);
39   lc.setChar(0,0,'i',false);
40   delay(delaytime);
41   lc.setRow(0,0,0x1C);
42   delay(delaytime);
43   lc.setRow(0,0,0x0010000);
44   delay(delaytime);
45   lc.setRow(0,0,0x15);
46   delay(delaytime);
47   lc.setRow(0,0,0x10);
48   delay(delaytime);
49   lc.clearDisplay(0);
50   delay(delaytime);
51 }
52
53 /*
54 This method will scroll all the hexa-decimal
55 numbers and letters on the display. You will need at least
56 four 7-Segment digits. otherwise it won't really look that good.
57 */
58 void scrollDigits() {
59   for(int i=0;i<13;i++) {
60     lc.setDigit(0,3,1,false);
61     lc.setDigit(0,2,i+1,false);
62     lc.setDigit(0,1,i+2,false);
63     lc.setDigit(0,0,i+3,false);
64     delay(delaytime);
65   }
66   lc.clearDisplay(0);
67   delay(delaytime);
68 }
69
70 void loop() {
71   writeArduinoOn7Segment();
72   scrollDigits();
73 }
```

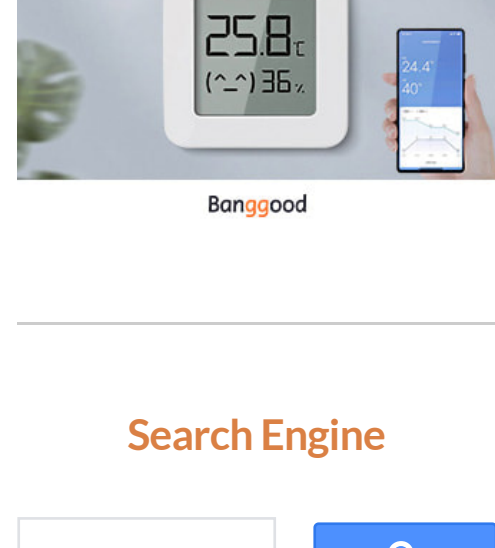
Download the code from here and open it with Arduino IDE.



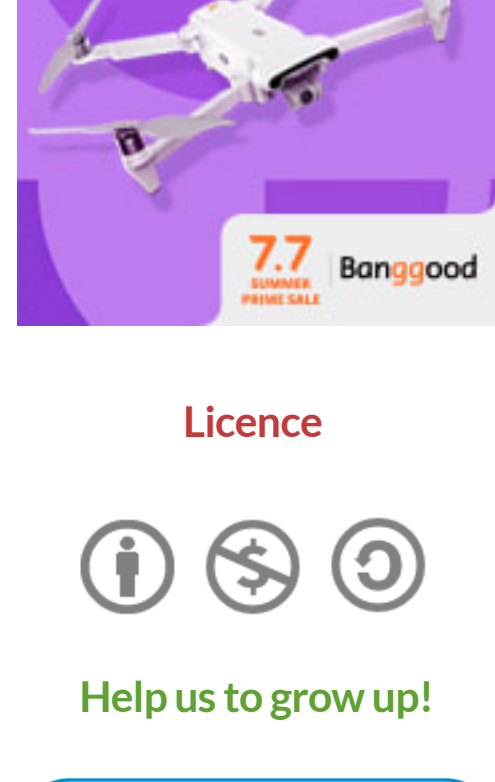
Well done!

You have successfully completed one more Arduino "How to" tutorial and you learned how to use the 8-Digit Seven Segment Display with MAX7219.

I hope you liked this, let me know in the comments.



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