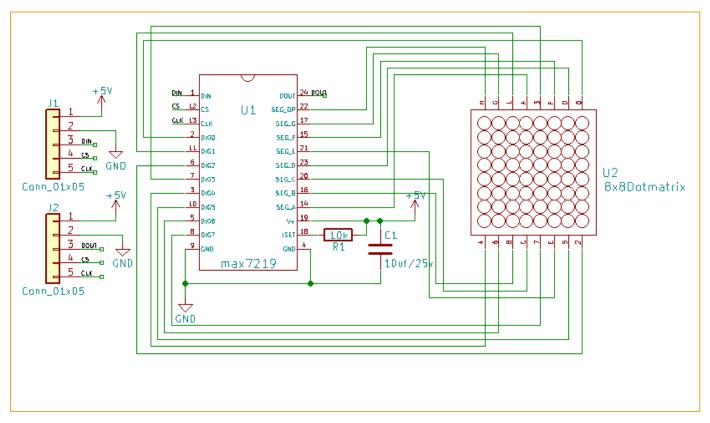


8x8 Dot-matrix with max7219

Introduction

Remember the heart-running 8*8 dot-matrix experiment you did before? Many small partners will feel that the socket is used up and other functions can be used? Now use the MAX7219 driver module.

MAX7219 Module schematic diagram



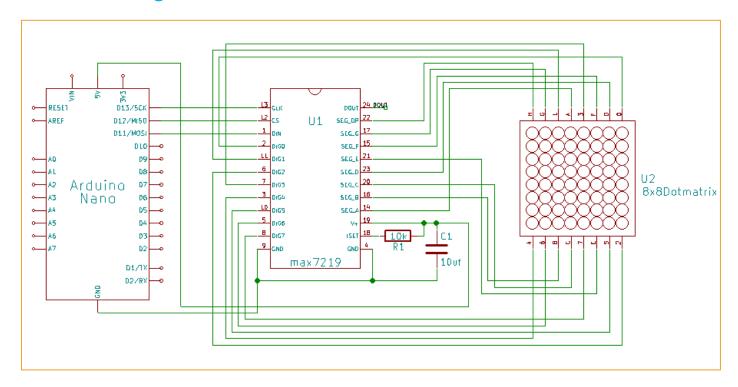
This figure shows the appearance of the MAX7219 and the 8x8 LED dot matrix and their connections. The MAX7219 receives data via the DIN, CLK, and CS pins and outputs the data to an 8×8 LED dot matrix for display.

Component List

- Arduino Nano R3 Mainboard
- Breadboard
- USB cable
- ◆ MAX7219 *1
- Several jumper wires



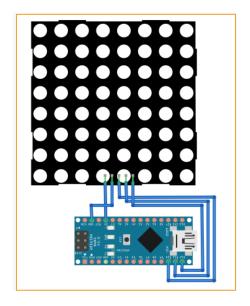
Schematic Diagram



Wiring of Circuit

Arduino Nano	8x8 Dot-matrix
5V	VCC
GND	GND
D10	DIN
D11	CS
D12	CLK





Code

```
#include "MaxMatrix.h"
#include "mouths.h"
#include "gestures.h"
#define PIN DIN 10
                      //max 7219
#define PIN CS
                  11
#define PIN CLK
                 12
MaxMatrix ledmatrix = MaxMatrix(PIN DIN, PIN CS, PIN CLK, 1); //PIN
10=DIN, PIN 11=CS, PIN 12=CLK
void setup() {
   Serial.begin (9600);
   // set up Matrix display
  ledmatrix.init();
   ledmatrix.setIntensity(1);
  ledmatrix.writeFull(neutral);//display
  delay(1000);
  ledmatrix.writeFull(smile);
  delay(1000);
}
void loop() {
   ledmatrix.writeFull(Tears); //display
  delay(500);
  //ledmatrix.clearMatrix();
  //delay(500);
                           //Clear screen
}
```



Experiment Result

