



ArduLED and ArduRGB

 ArduLED is a SMD Soldering Kit

 developped by Boxtec, with a choice of

 colors, eg blue LEDs under number [48864]

 ArduRGB is also a SMD Soldering Kit sold

 by Boxtec, with 6 RGB leds

Both kits are simple to assemble, and simple to program on a first level. They allow many programming exercises that helps discovering C instructions and the differences between programming using the Arduino facilities for handling pins, and the power of handling directly the AVR ports of the Uno

```
//TestArduColor.ino one led one color at a
                                                 void loop()
time
                                                     PORTD= 0x3F;
                                                     PORTB = 0xF3;
void setup() {
                                                     DelMs (500);
 DDRB |= 0x3F;
                                                         while (1);
 DDRD |= 0 \times FC;
                                                     PORTD= 0x00;
// cli ();
                                                     PORTB = 0 \times 00;
                                                     DelMs (500);
// pinMode (3,1); pinMode (2,1);
                                                 byte motif = 0b00100100;
                                                     while (1) {
}
void DelMs(unsigned int dd) {
                                                       PORTB = motif;
                                                       PORTD = motif<<2;</pre>
    volatile unsigned int i, j;
    for (i=0; i<dd; i++) {
                                                       DelMs (500);
        for (j=0; j<900; j++); // ok328
                                                       PORTB = motif>>1;
                                                       PORTD = motif<<1;</pre>
    }
}
                                                       DelMs (500);
                                                       PORTB = motif>>2;
                                                       PORTD = motif;
                                                       DelMs (500);
```



jdn 140630/141206