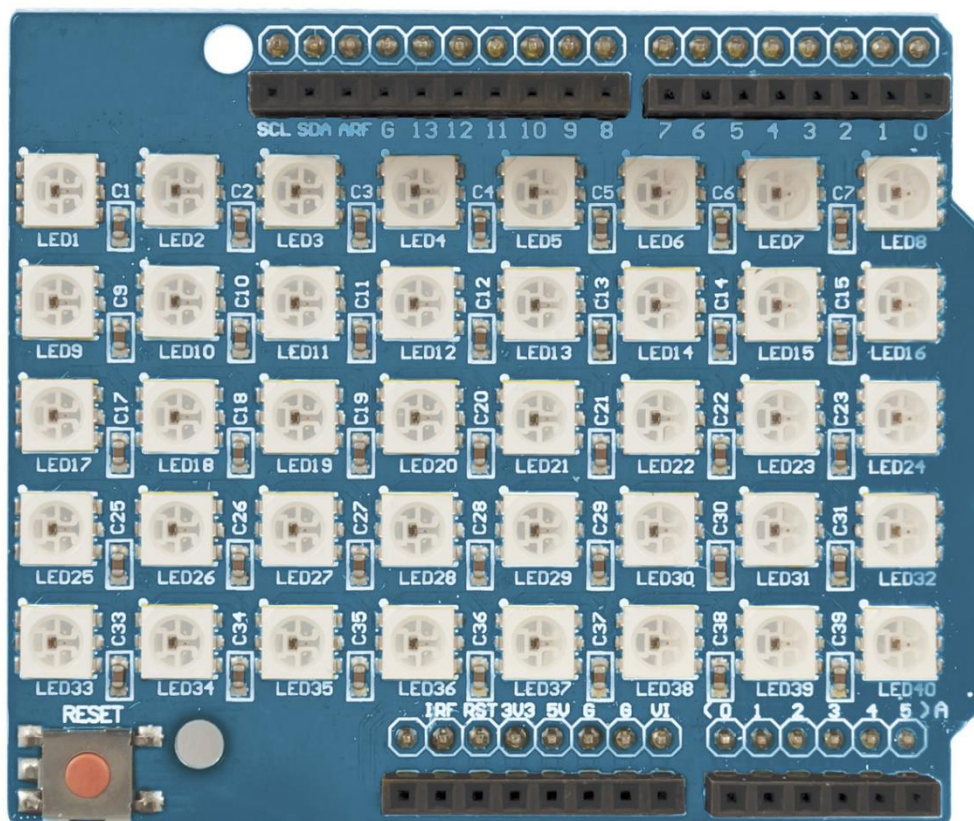


# XC3730 Sample Project



## Required Parts

Part	Description	Quantity
XC4410	Duinodech Arduino Compatible Uno	1
XC3730	40 RGB LED Shield	1

## Required Libraries

Adafruit NeoPixel

Australia  
[www.jaycar.com.au](http://www.jaycar.com.au)  
[techstore@jaycar.com.au](mailto:techstore@jaycar.com.au)  
 1800 022 888

New Zealand  
[www.jaycar.co.nz](http://www.jaycar.co.nz)  
[techstore@jaycar.co.nz](mailto:techstore@jaycar.co.nz)  
 0800 452 922



## Code

```
#include <Adafruit_NeoPixel.h>

#define PIN      13

#define N_LEDS   40

Adafruit_NeoPixel strip = Adafruit_NeoPixel(N_LEDS, PIN, NEO_GRB + NEO_KHZ800);

void setup() {
    strip.begin();
}

void loop() {
    chase(strip.Color(255, 0, 0)); // Red
    chase(strip.Color(0, 255, 0)); // Green
    chase(strip.Color(0, 0, 255)); // Blue
}

static void chase(uint32_t c) {
    for(uint16_t i=0; i<strip.numPixels()+4; i++) {
        strip.setPixelColor(i, c); // Draw new pixel
        strip.setPixelColor(i-4, 0); // Erase pixel a few steps back
        strip.show();
        delay(25);
    }
}
```