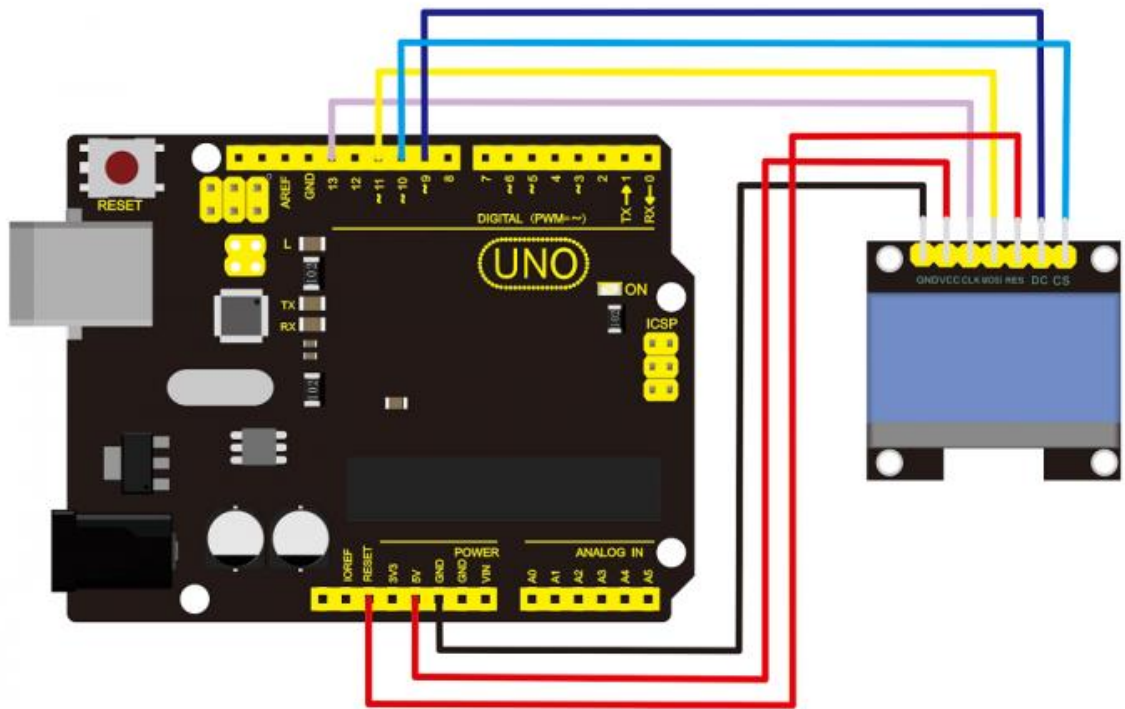


# XC3728 Sample Project



## Required Parts

Part	Description	Quantity
XC4410	DuinoTech Arduino Compatible Uno	1
XC3728	1.3" Monochrome OLED Screen	1
WC6028	Plug to Socket Jumper Wires	7

## Required Libraries

U8glib

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 "U8glib.h"
U8GLIB_SH1106_128X64 u8g(13, 11, 10, 9); // SCK = 13, MOSI = 11, CS = 10, A0 = 9
void draw(void) {
    // graphic commands to redraw the complete screen should be placed here
    u8g.setFont(u8g_font_unifont);
    //u8g.setFont(u8g_font_osb21);
    u8g.drawStr( 0, 22, "Hello World!");
}
void setup(void) {
    // flip screen, if required
    u8g.setRot180();
    // set SPI backup if required
    //u8g.setHardwareBackup(u8g_backup_avr_spi);
    // assign default color value
    if ( u8g.getMode() == U8G_MODE_R3G3B2 ) {
        u8g.setColorIndex(255);    // white
    }
    else if ( u8g.getMode() == U8G_MODE_GRAY2BIT ) {
        u8g.setColorIndex(3);      // max intensity
    }
    else if ( u8g.getMode() == U8G_MODE_BW ) {
        u8g.setColorIndex(1);      // pixel on
    }
    else if ( u8g.getMode() == U8G_MODE_HICOLOR ) {
        u8g.setHiColorByRGB(255,255,255);
    }
}
void loop(void) {
    // picture loop
    u8g.firstPage();
    do {
        draw();
    } while( u8g.nextPage() );
    // rebuild the picture after some delay
    delay(50);
}
```