

## RGB LED Light Controller

U1 PIC 12F675 or 12F629

LED1,2,3 5mm High Brightness Red

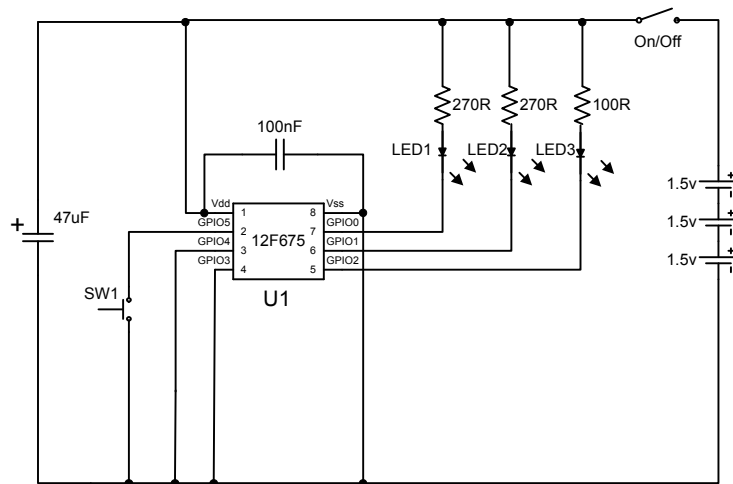
LED4,5,6 5mm High Brightness Green

LED7,8,9 5mm High Brightness Blue

*You may need to adjust the LED series resistors to suit the forward voltage of the particular LEDs you are using.*

*D1 is not strictly needed but provides protection against accidental reversal of supply connections.*

*GPIO4 is internally pulled up by the 'weak internal pull-up' function configured in the firmware.*



## Simple RGB Light

This version of the RGB light uses the same firmware as the version above. Grounding GPIO4 tells the software to invert the output drives so that they become active low. In this configuration the GPIO pins can sink 25mA each. This circuit should operate from 3 x 1.5v AA batteries

LED1 high brightness red  
LED2 high brightness green  
LED3 high brightness blue

*You may need to adjust the LED series resistors to suit the forward voltage of the particular LEDs you are using. Remember that each GPIO pin can sink a maximum of 25mA.*