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/*
 * Arduino tutorial: color (RGB LEDs)
 *
 * Uses a RGB LED module to play with
 * dynamic colored light. See this web color chart
 * for the (Red,Green,Blue) values of different colors:
 * http://www.visibone.com/colorlab/
 */

int redPin = 9; // R pin on RGB LED module connected to digital pin 11
int greenPin = 6; // G pin on RGB LED module connected to digital pin 9
int bluePin = 3; // B pin on RGB LED module connected to digital pin 10

void setup()
{
    pinMode(redPin, OUTPUT); // sets the redPin to be an output
    pinMode(greenPin, OUTPUT); // sets the greenPin to be an output
    pinMode(bluePin, OUTPUT); // sets the bluePin to be an output
}

void loop() // run over and over again
{
    // Basic colors:
    color(255, 0, 0); // turn the RGB LED red
    delay(1000); // delay for 1 second
    color(0,255, 0); // turn the RGB LED green
    delay(1000); // delay for 1 second
    color(0, 0, 255); // turn the RGB LED blue
    delay(1000); // delay for 1 second

    // Example blended colors:
    color(255,255,0); // turn the RGB LED yellow
    delay(1000); // delay for 1 second
    color(255,255,255); // turn the RGB LED white
    delay(1000); // delay for 1 second
    color(128,0,255); // turn the RGB LED purple
    delay(1000); // delay for 1 second
    color(0,0,0); // turn the RGB LED off
    delay(1000); // delay for 1 second
}

void color (unsigned char red,unsigned char green,unsigned char blue)// the color g
{
    analogWrite(redPin, red);
    analogWrite(bluePin, blue);
    analogWrite(greenPin, green);
}

```