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\* \* Example sketch RGB LED

\*

\* Make an RGB LED display a different colors

\* HOOK UP YOUR COMMON (LONG PIN) TO 5V NOT GND)

\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

const int RED\_PIN = 9;

const int GREEN\_PIN = 10;

const int BLUE\_PIN = 11;

const int DISPLAY\_TIME = 1000; // used in mainColors() to determine the

// length of time each color is displayed.

void setup() //Configure the Arduino pins to be outputs to drive the LEDs

{

pinMode(RED\_PIN, OUTPUT);

pinMode(GREEN\_PIN, OUTPUT);

pinMode(BLUE\_PIN, OUTPUT);

}

void loop()

{

mainColors(); // Red, Green, Blue, Yellow, Cyan, Purple, White

}

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\* void mainColors()

\* This function displays the eight "main" colors that the RGB LED

\* can produce. If you'd like to use one of these colors in your

\* own sketch, you can copy and paste that section into your code.

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void mainColors()

{

// all LEDs off

digitalWrite(RED\_PIN,HIGH);

digitalWrite(GREEN\_PIN,HIGH);

digitalWrite(BLUE\_PIN, HIGH);

delay(DISPLAY\_TIME);

// Red

digitalWrite(RED\_PIN,LOW);

digitalWrite(GREEN\_PIN, HIGH);

digitalWrite(BLUE\_PIN, HIGH);

delay(DISPLAY\_TIME);

// Green

digitalWrite(RED\_PIN, HIGH);

digitalWrite(GREEN\_PIN,LOW);

digitalWrite(BLUE\_PIN, HIGH);

delay(DISPLAY\_TIME);

// Blue

digitalWrite(RED\_PIN, HIGH);

digitalWrite(GREEN\_PIN, HIGH);

digitalWrite(BLUE\_PIN, LOW);

delay(DISPLAY\_TIME);

// Yellow (Red and Green)

digitalWrite(RED\_PIN, LOW);

digitalWrite(GREEN\_PIN, LOW);

digitalWrite(BLUE\_PIN, HIGH);

delay(DISPLAY\_TIME);

// Cyan (Green and Blue)

digitalWrite(RED\_PIN, HIGH);

digitalWrite(GREEN\_PIN, LOW);

digitalWrite(BLUE\_PIN, LOW);

delay(DISPLAY\_TIME);

// Purple (Red and Blue)

digitalWrite(RED\_PIN, LOW);

digitalWrite(GREEN\_PIN, HIGH);

digitalWrite(BLUE\_PIN, LOW);

delay(DISPLAY\_TIME);

// White (turn all the LEDs on)

digitalWrite(RED\_PIN, LOW);

digitalWrite(GREEN\_PIN, LOW);

digitalWrite(BLUE\_PIN, LOW);

delay(DISPLAY\_TIME);

}