

```

// color swirl! connect an RGB LED to the PWM pins as indicated
// in the #defines
// public domain, enjoy!

#define REDPIN 5
#define GREENPIN 3
#define BLUEPIN 6

#define FADESPEED 5 // make this higher to slow down

void setup() {
pinMode(REDPIN, OUTPUT);
pinMode(GREENPIN, OUTPUT);
pinMode(BLUEPIN, OUTPUT);
pinMode(4, OUTPUT);
}

void loop() {
int r, g, b;

digitalWrite(4, HIGH);
// fade from blue to violet
for (r = 0; r < 256; r++) {
analogWrite(REDPIN, r);
delay(FADESPEED);
}
// fade from violet to red
for (b = 255; b > 0; b--) {
analogWrite(BLUEPIN, b);
delay(FADESPEED);
}
// fade from red to yellow
for (g = 0; g < 256; g++) {
analogWrite(GREENPIN, g);
delay(FADESPEED);
}
// fade from yellow to green
for (r = 255; r > 0; r--) {
analogWrite(REDPIN, r);
delay(FADESPEED);
}
// fade from green to teal
for (b = 0; b < 256; b++) {
analogWrite(BLUEPIN, b);
delay(FADESPEED);
}
// fade from teal to blue
for (g = 255; g > 0; g--) {
analogWrite(GREENPIN, g);
delay(FADESPEED);
}
}

```