

```
/*
```

```
Fade Spider right eye since it is a special PWM pin
```

This example shows how to fade LED on pin 3 using the analogWrite() function.

This is modified from the example code in the public domain.

```
*/
```

```
int led = 3;          // the pin that the LED is attached to that is PWM
```

```
int brightness = 0;  // how bright the LED is
```

```
int fadeAmount = 5;  // how many points to fade the LED by
```

```
// the setup routine runs once when you press reset:
```

```
void setup() {
```

```
  // declare pin to be an output:
```

```
  pinMode(led, OUTPUT);
```

```
}
```

```
// the loop routine runs over and over again forever:
```

```
void loop() {
```

```
  // set the brightness of pin:
```

```
  analogWrite(led, brightness);
```

```
  // change the brightness for next time through the loop:
```

```
  brightness = brightness + fadeAmount;
```

```
  // reverse the direction of the fading at the ends of the fade:
```

```
  if (brightness == 0 || brightness == 255) {
```

```
    fadeAmount = -fadeAmount ;
```

```
  }
```

```
  // wait for 30 milliseconds to see the dimming effect
```

```
  delay(30);
```

```
}
```