

 $/\!/$ the setup function runs once when you press reset or power the board

```
void setup() {
```

```
// initialize digital pin 13 as an output.
```

```
pinMode(2, OUTPUT);
```

}

// the loop function runs over and over again forever

```
void loop() {
```

digitalWrite(2, HIGH); // turn the LED on (HIGH is the voltage level)

```
delay(1000); // wait for a second
```

digitalWrite(2, LOW); // turn the LED off by making the voltage LOW

```
delay(1000); // wait for a second
```

}

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int led = 2; // the PWM pin the LED is attached to

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 9 to be an output:
```

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

}

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

void loop() {

```
// set the brightness of pin 9:
```

```
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);
```

}