

Fading_using_FOR_Loop | Arduino IDE 2.3.6

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Arduino Uno

Fading_using_FOR_Loop.ino

```
1  const int ledPin = 11;
2
3  void setup() {
4      pinMode(ledPin, OUTPUT);
5  }
6
7  void loop() {
8      for(int brightness = 0; brightness <= 255; brightness++){
9          analogWrite(ledPin, brightness);
10         delay(10);
11     }
12     for(int brightness = 255; brightness >= 0; brightness--){
13         analogWrite(ledPin, brightness);
14         delay(10);
15     }
16 }
17
```

Fading_using_IF_ELSE | Arduino IDE 2.3.6

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Arduino Uno

Fading_using_IF_ELSE.ino

```
1  int ledPin = 11;
2  int brightness = 0;
3  int fadeAmount = 5;
4  void setup() {
5      pinMode(ledPin, OUTPUT);
6  }
7
8  void loop() {
9      analogWrite(ledPin, brightness);
10     if(brightness <= 0){
11         fadeAmount = 5;
12     } else if (brightness >= 255){
13         fadeAmount = -5;
14     }
15     brightness += fadeAmount;
16     delay(30);
17 }
18
```

Fading_using_WHILE_Loop | Arduino IDE 2.3.6

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Arduino Uno

Fading_using_WHILE_Loop.ino

```
1  const int ledPin = 11;
2  int brightness = 0;
3  int fadeAmount = 5;
4
5  void setup() {
6      pinMode(ledPin, OUTPUT);
7  }
8
9  void loop() {
10     do {
11         analogWrite(ledPin, brightness);
12         brightness += fadeAmount;
13         delay(50);
14     } while (brightness <= 255);
15
16     do {
17         analogWrite(ledPin, brightness);
18         brightness -= fadeAmount;
19         delay(50);
20     } while (brightness >= 0);
21 }
22
```

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