

03 Arduino

PWM, WDT

```
int brightness = 0;
int fadeAmount = 1;

void setup() {
  pinMode(LED_BUILTIN, OUTPUT);
  Serial.begin(115200);
  Serial.println("Setup()");
}

void loop() {
  analogWrite(LED_BUILTIN,
              brightness+=fadeAmount);
  if (brightness == 0 ||
      brightness == 255)
    fadeAmount = -fadeAmount ;
  delay(20);
}
```

WDT

- `#include <avr/wdt.h>`
- `wdt_enable(WDTO_15MS);`
- `wdt_reset();`

15 ms	WDTO_15MS	ATMega 8, 168, 328, 1280, 2560
30 ms	WDTO_30MS	ATMega 8, 168, 328, 1280, 2560
60 ms	WDTO_60MS	ATMega 8, 168, 328, 1280, 2560
120 ms	WDTO_120MS	ATMega 8, 168, 328, 1280, 2560
250 ms	WDTO_250MS	ATMega 8, 168, 328, 1280, 2560
500 ms	WDTO_500MS	ATMega 8, 168, 328, 1280, 2560
1 s	WDTO_1S	ATMega 8, 168, 328, 1280, 2560
2 s	WDTO_2S	ATMega 8, 168, 328, 1280, 2560
4 s	WDTO_4S	ATMega 168, 328, 1280, 2560
8 s	WDTO_8S	ATMega 168, 328, 1280, 2560

- <http://forum.arduino.cc/index.php?action=dlattach;topic=63651.0;attach=3585>

H Híd (pl. L298)

