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 Blink

 Turns on an LED on for one second, then off for one second, repeatedly.

 This example code is in the public domain.

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// Pin 13 has an LED connected on most Arduino boards.

// give it a name:

int led = 9;

int speed = 10;

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

void setup() {

 // initialize the digital pin as an output.

 pinMode(led, OUTPUT);

}

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

void loop() {

 for( int x = 0; x<255; x++) {

 analogWrite(led, x); // turn the LED on (HIGH is the voltage level)

 delay(speed); // wait for a second

 }

 for( int x = 255; x >= 0; x--) {

 analogWrite(led, x); // turn the LED on (HIGH is the voltage level)

 delay(speed); // wait for a second

 }

}