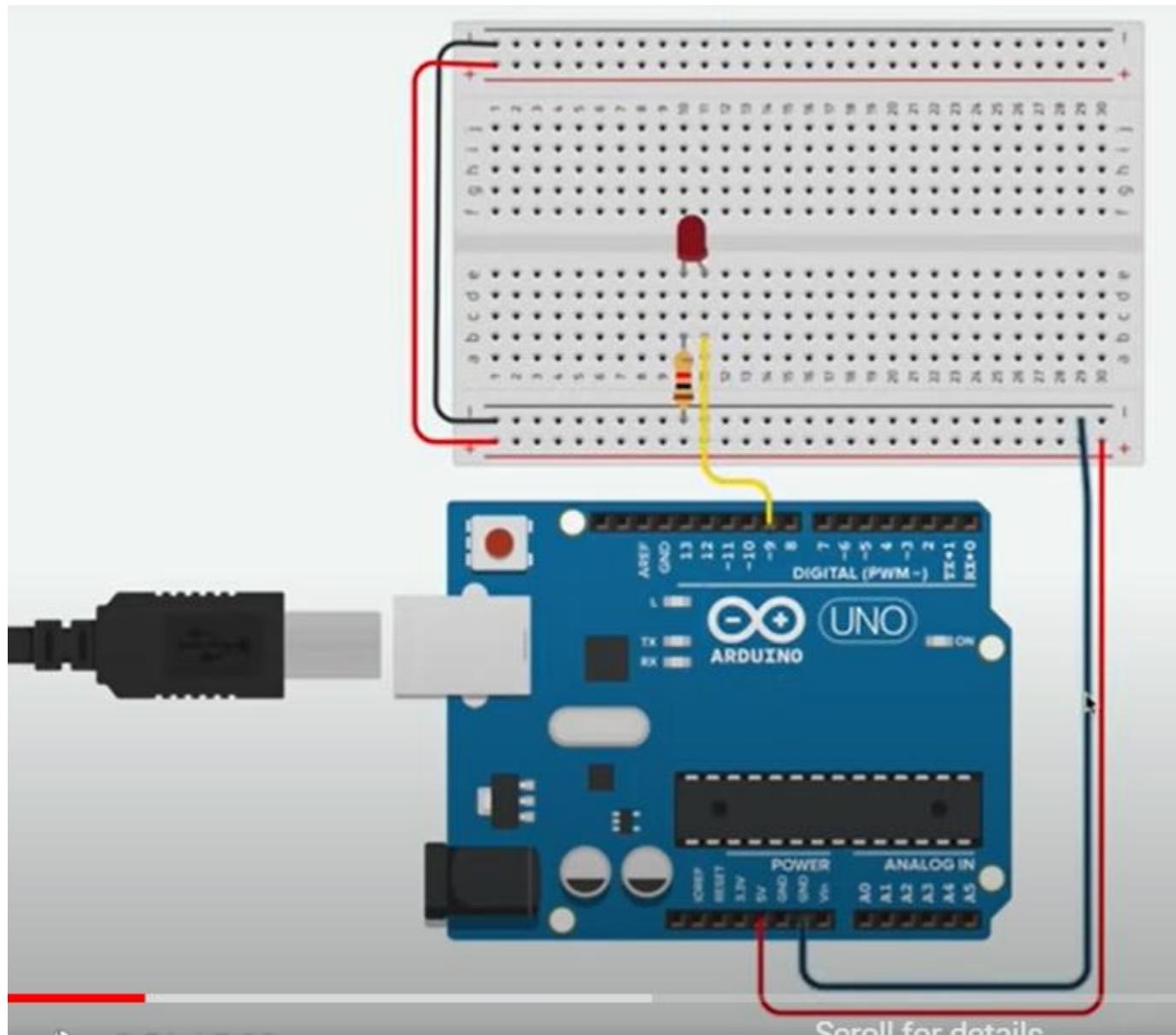


# Fade

Video: <https://www.youtube.com/watch?v=X8dHbdhnGKY>



title block comment ( Fade \nThis example shows how to fade an LED o... )

count up by 5 for brightness from 0 to 255 do

set pin 9 to brightness

wait 30 milliseconds

count down by 5 for brightness from 255 to 0 do

set pin 9 to brightness

wait 30 milliseconds

```
1  /*
2   * Fade
3   * This example shows how to fade an LED on pin 9
4   * using the analogWrite() function.
5
6   * The analogWrite() function uses PWM, so if you
7   * want to change the pin you're using, be sure to
8   * use another PWM capable pin. On most Arduino,
9   * the PWM pins are identified with a "-" sign,
10  * like ~3, ~5, ~6, ~9, ~10 and ~11.
11 */
12
13 int brightness = 0;
14
15 void setup()
16 {
17   pinMode(9, OUTPUT);
18 }
19
20 void loop()
21 {
22   for (brightness = 0; brightness <= 255; brightness += 5) {
23     analogWrite(9, brightness);
24     delay(30); // Wait for 30 millisecond(s)
25   }
26   for (brightness = 255; brightness >= 0; brightness -= 5) {
27     analogWrite(9, brightness);
28     delay(30); // Wait for 30 millisecond(s)
29   }
30 }
```