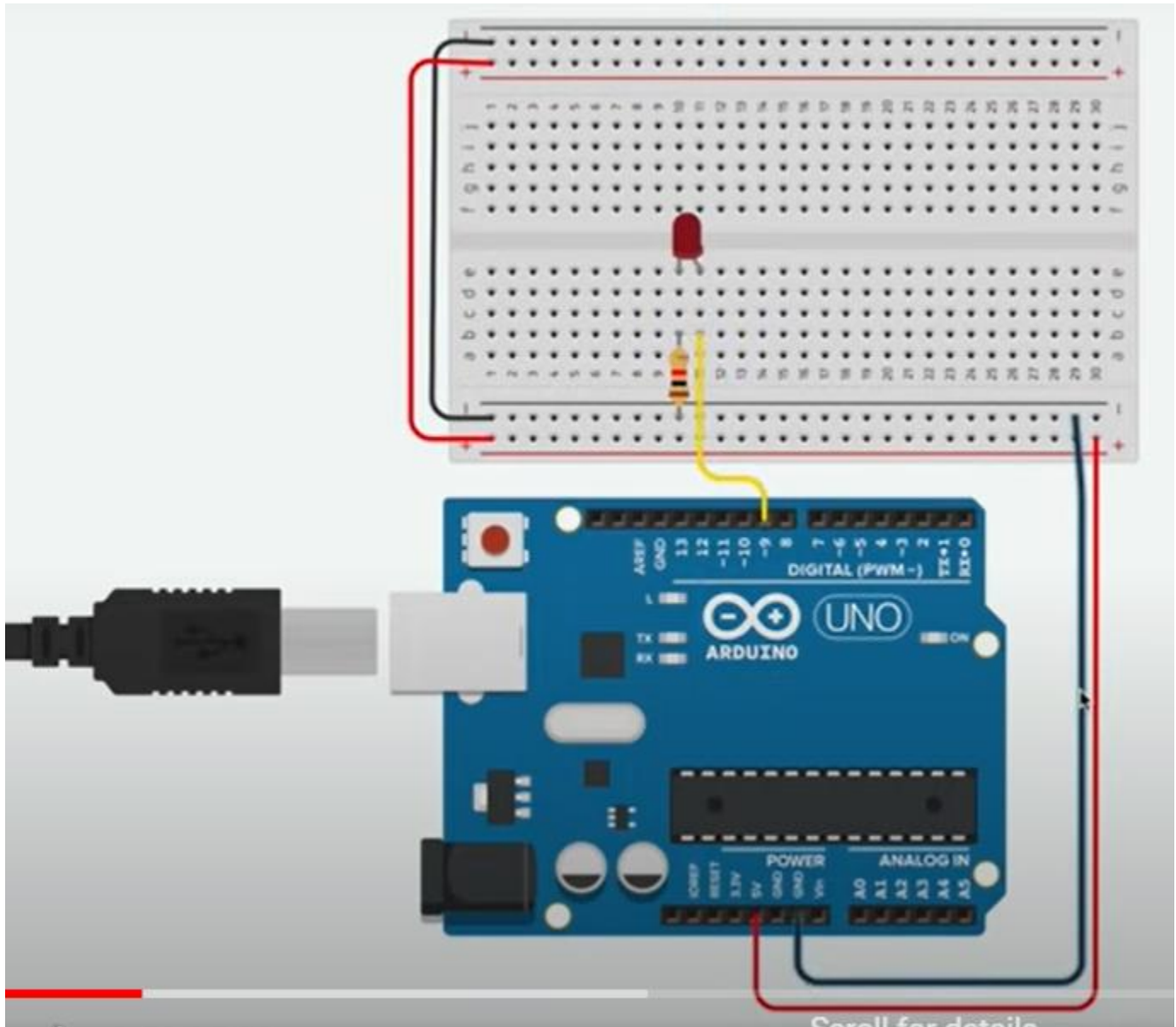


Fade

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  }
```