

```
1  from machine import Pin, PWM
2
3  class DRV8833:
4
5      def __init__(self, pinA, pinB, frequency=10000):
6          '''Instantiate controller for one motor.
7          pinA: pin connected to AIN1 or BIN1
8          pinB: pin connected to AIN2 or BIN2
9          frequency: pwm frequency
10         '''
11         self.pin1 = PWM(Pin(pinA), freq=frequency, timer=2)
12         self.pin2 = PWM(Pin(pinB), freq=frequency, timer=3)
13
14     def set_speed(self, value):
15         '''value: -100 ... 100 sets speed (duty cycle) and direction'''
16         if value > 0:
17             self.pin1.duty(100)
18             self.pin2.duty(value)
19         else if value < 0:
20             self.pin1.duty(value)
21             self.pin2.duty(100)
22         else:
23             self.pin1.duty(value)
24             self.pin2.duty(value)
25
```