
Adafruitdebouncer Library Documentation

Release 1.0

Dave Astels

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Debounces an arbitrary predicate function (typically created as a lambda) of 0 arguments. The constructor also accepts a digital pin as a convenience.

CHAPTER 1

Dependencies

This driver depends on:

- [Adafruit CircuitPython](#)

Please ensure all dependencies are available on the CircuitPython filesystem. This is easily achieved by downloading the [Adafruit library and driver bundle](#).

CHAPTER 2

Usage Example

```
import board
import digitalio
from adafruit_debouncer import Debouncer

pin = digitalio.DigitalInOut(board.D12)
pin.direction = digitalio.Direction.INPUT
pin.pull = digitalio.Pull.UP
switch = Debouncer(pin)

while True:
    switch.update()
    if switch.fell:
        print('Just pressed')
    if switch.rose:
        print('Just released')
    if switch.value:
        print('not pressed')
    else:
        print('pressed')
```


CHAPTER 3

Contributing

Contributions are welcome! Please read our [Code of Conduct](#) before contributing to help this project stay welcoming.

CHAPTER 4

Documentation

For information on building library documentation, please check out [this guide](#).

5.1 Simple test

Ensure your device works with this simple test.

Listing 1: examples/debouncer_simpletest.py

```
1  """
2  The MIT License (MIT)
3
4  Copyright (c) 2019 Dave Astels for Adafruit Industries
5
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7  of this software and associated documentation files (the "Software"), to deal
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20 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
21 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
22 THE SOFTWARE.
23 """
24
25 # pylint: disable=invalid-name
26
27 import board
```

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```
28 import digitalio
29 from adafruit_debouncer import Debouncer
30
31 pin = digitalio.DigitalInOut(board.D12)
32 pin.direction = digitalio.Direction.INPUT
33 pin.pull = digitalio.Pull.UP
34 switch = Debouncer(pin)
35
36 while True:
37     switch.update()
38     if switch.fell:
39         print("Just pressed")
40     if switch.rose:
41         print("Just released")
42     if switch.value:
43         print("not pressed")
44     else:
45         print("pressed")
```

5.2 adafruit_debouncer

Debounces an arbitrary predicate function (typically created as a lambda) of 0 arguments. Since a very common use is debouncing a digital input pin, the initializer accepts a pin number instead of a lambda.

- Author(s): Dave Astels

5.2.1 Implementation Notes

Hardware:

Software and Dependencies:

- Adafruit CircuitPython firmware for the supported boards: <https://github.com/adafruit/circuitpython/releases>

class `adafruit_debouncer.Debouncer` (*io_or_predicate, interval=0.01*)

Debounce an input pin or an arbitrary predicate

current_duration

Return the time since the most recent transition.

fell

Return whether the debounced value went from high to low at the most recent update.

last_duration

Return the amount of time the state was stable prior to the most recent transition.

rose

Return whether the debounced value went from low to high at the most recent update.

update()

Update the debouncer state. MUST be called frequently

value

Return the current debounced value.

CHAPTER 6

Indices and tables

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