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# **AdafruitCursorControl Library Documentation**

*Release 1.0*

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## Contents

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<b>1</b>	<b>Dependencies</b>	<b>3</b>
<b>2</b>	<b>Installing from PyPI</b>	<b>5</b>
<b>3</b>	<b>Usage Example</b>	<b>7</b>
<b>4</b>	<b>Contributing</b>	<b>9</b>
<b>5</b>	<b>Documentation</b>	<b>11</b>
<b>6</b>	<b>Table of Contents</b>	<b>13</b>
6.1	Simple test . . . . .	13
6.2	API . . . . .	14
<b>7</b>	<b>Indices and tables</b>	<b>15</b>
	<b>Python Module Index</b>	<b>17</b>
	<b>Index</b>	<b>19</b>



Mouse cursor for interaction with CircuitPython UI elements such as [buttons](#).



# CHAPTER 1

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## Dependencies

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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

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### Installing from PyPI

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On supported GNU/Linux systems like the Raspberry Pi, you can install the driver locally [from PyPI](#). To install for current user:

```
pip3 install adafruit-circuitpython-cursorcontrol
```

To install system-wide (this may be required in some cases):

```
sudo pip3 install adafruit-circuitpython-cursorcontrol
```

To install in a virtual environment in your current project:

```
mkdir project-name && cd project-name  
python3 -m venv .env  
source .env/bin/activate  
pip3 install adafruit-circuitpython-cursorcontrol
```



## CHAPTER 3

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### Usage Example

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See examples in examples/ folder.



## CHAPTER 4

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### Contributing

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



## CHAPTER 5

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### Documentation

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





## 6.1 Simple test

Ensure your device works with this simple test.

Listing 1: examples/cursorcontrol\_simpletest.py

```
1  # SPDX-FileCopyrightText: 2021 ladyada for Adafruit Industries
2  # SPDX-License-Identifier: MIT
3
4  import time
5  import board
6  import displayio
7  from adafruit_cursorcontrol.cursorcontrol import Cursor
8  from adafruit_cursorcontrol.cursorcontrol_cursormanager import CursorManager
9
10 # Create the display
11 display = board.DISPLAY
12
13 # Create the display context
14 splash = displayio.Group(max_size=5)
15
16 # initialize the mouse cursor object
17 mouse_cursor = Cursor(display, display_group=splash)
18
19 # initialize the cursormanager
20 cursor = CursorManager(mouse_cursor)
21
22 # show displayio group
23 display.show(splash)
24
25 while True:
26     cursor.update()
27     if cursor.is_clicked:
```

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```
28     if mouse_cursor.hidden:  
29         mouse_cursor.show()  
30     else:  
31         mouse_cursor.hide()  
32     time.sleep(0.01)
```

## 6.2 API

## CHAPTER 7

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### Indices and tables

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- `genindex`
- `modindex`
- `search`



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adafruit\_cursorcontrol, 14



## A

adafruit\_cursorcontrol (*module*), 14