PyBlinkM Documentation

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CONTENTS

Drive a BlinkM with **Python** via I2C using python-smbus on Raspberry Pi.

```
$ sudo apt-get install python-smbus
$ sudo pip install pyblinkm
$ python
>>> from pyblinkm import BlinkM, Scripts
>>> blinkm = BlinkM()
>>> blinkm.reset()
>>> blinkm.play_script(Scripts.THUNDERSTORM)
>>> blinkm.reset()
>>> blinkm.fade_to(255, 0, 0)
>>> blinkm.fade_to_hex("ff0000")
>>> blinkm.go_to(0, 255, 0)
```

Contents: module(name[, doc])

Create a module object. The name must be a string; the optional doc argument can have any type.

class pyblinkm.**BlinkM**(*bus=1*, *addr=9*)

Drop dead simple BlinkM control.

Parameters

- **bus** – I2C Bus
- **addr** – I2C address

fade_to(*r=0*, *g=0*, *b=0*)

Fade to RGB Color.

fade_to_hex(*hex_color*)

Fade to Hexadecimal Color.

fade_to_hsb(*h=0*, *s=0*, *b=0*)

Fade to HSB Color.

Parameters

- **h** – Hue (0-360°)
- **s** – Saturation (0-100%)
- **b** – Brightness (0-100%)

fade_to_percent(*percent=0*)

Fade to color from Blue (Cold) to Red (Hot).

Takes an input from 0-100 and convert it to HSB from 180/100/100 to 0/100/100.

fade_to_random_rgb(*r=0*, *g=0*, *b=0*)

Fade to Random RGB Color.

get_rgb_color()

Get Current RGB Color.

Returns current red, green and blue channels.

go_to(*r=0*, *g=0*, *b=0*)

Go to RGB Color Now.

go_to_hex(*hex_color*)

Go to Hexadecimal Color Now.

play_script(*script_number*, *repeat=0*, *start_line=0*)

Play Light Script.

reset()
Stop script and fade to black.

set_fade_speed(*fade_speed*)
Set Fade Speed.

Parameters **fade_speed** – fade speed from 1-255.

set_time_adjust(*adjust*)
Set Time Adjust.

Adjusts the playback speed of a light script.

Parameters **adjust** – Relative adjustement between -128 and 127.

stop_script()
Stop playing script.

class pyblinkm.**I2C**(*bus=1*, *addr=9*)
I2C Connection Manager

Parameters

- **bus** – I2C Bus
- **addr** – I2C address

class pyblinkm.**Scripts**
Default BlinkM Scripts Reference.

CHAPTER

ONE

INDICES AND TABLES

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- *modindex*
- *search*

PYTHON MODULE INDEX

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