
Makersremote*controlLibraryDocumentation*

Release 1.0

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CircuitPython helper for remote controls

Examples of products to use this library with:

- [Circuit Playground Express](#)
- [Mini Remote Control](#)

CHAPTER 1

Dependencies

This driver depends on:

- [Adafruit CircuitPython](#)
- [Adafruit CircuitPython drivers for IR remote send and receive](#)

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 time
import makers_remote_control

remote_control = makers_remote_control.RemoteControl(debug=False)

while True:
    code = remote_control.code()

    if code == remote_control.UP:
        print("Faster")
    elif code == remote_control.DOWN:
        print("Slower")
    elif code == remote_control.LEFT:
        print("Left")
    elif code == remote_control.RIGHT:
        print("Right")
    elif code == 4:
        print("Something for Four")
    elif code == 6:
        print("Something for Six")
    elif code != remote_control.UNKNOWN:
        print("Code: ", code)

    time.sleep(0.1)
```


CHAPTER 3

Contributing

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

4.1 Zip release files

To build this library locally you'll need to install the `circuitpython-build-tools` package.

```
python3 -m venv .env
source .env/bin/activate
pip install circuitpython-build-tools
```

Once installed, make sure you are in the virtual environment:

```
source .env/bin/activate
```

Then run the build:

```
circuitpython-build-bundles --filename_prefix makers-circuitpython-remote_control --
↳library_location .
```

4.2 Sphinx documentation

Sphinx is used to build the documentation based on rST files and comments in the code. First, install dependencies (feel free to reuse the virtual environment from above):

```
python3 -m venv .env
source .env/bin/activate
pip install Sphinx sphinx-rtd-theme
```

Now, once you have the virtual environment activated:

```
cd docs
sphinx-build -E -W -b html . _build/html
```

This will output the documentation to `docs/_build/html`. Open the `index.html` in your browser to view them. It will also (due to `-W`) error out on any warning like Travis will. This is a good way to locally verify it will pass.

5.1 Simple test

Ensure your device works with this simple test.

Listing 1: examples/remote_control_simpletest.py

```
1 import time
2 import makers_remote_control
3
4 remote_control = makers_remote_control.RemoteControl(debug=False)
5
6 while True:
7     code = remote_control.code()
8
9     if code == remote_control.UP_:
10         print("Faster")
11     elif code == remote_control.DOWN_:
12         print("Slower")
13     elif code == remote_control.LEFT_:
14         print("Left")
15     elif code == remote_control.RIGHT_:
16         print("Right")
17     elif code == 4:
18         print("Something for Four")
19     elif code == 6:
20         print("Something for Six")
21     elif code != remote_control.UNKNOWN_:
22         print("Code: ", code)
23
24     time.sleep(0.1)
```

5.2 makers_remote_control

- Author(s): Frank Morton for Neighborhood Makers Inc

5.2.1 Implementation Notes

Hardware:

- [Circuit Playground Express](#)
- [Mini Remote Control](#)

Software and Dependencies:

- Adafruit CircuitPython firmware for the supported boards: <https://github.com/adafruit/circuitpython/releases>
- Adafruit CircuitPython drivers for IR remote send and receive https://github.com/adafruit/Adafruit_CircuitPython_IRRemote

class makers_remote_control.RemoteControl (*debug=False*)

Remote control helper class

code (*blocking=False*)

Return the decoded remote control code value

debug_print (**message*)

Print a debug message

CHAPTER 6

Indices and tables

- `genindex`
- `modindex`
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