aiosignal Documentation

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aiosignal contributors

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A project to manage callbacks in *asyncio* projects.

`Signal` is a list of registered asynchronous callbacks.

The signal's life-cycle has two stages: after creation its content could be filled by using standard list operations: `sig.append()` etc.

After you call `sig.freeze()` the signal is *frozen*: adding, removing and dropping callbacks is forbidden.

The only available operation is calling the previously registered callbacks by using `await sig.send(data)`.

For concrete usage examples see the aiohttp:aiohttp-web-signals section of the aiohttp:web_advanced chapter of the aiohttp documentation.

CHAPTER

ONE

API

class aiosignal.**Signal**(*owner*)

The signal, implements the `collections.abc.MutableSequence` interface. The *owner* object is shown in the signal representation, and is there to make debugging easier.

async send(**args*, ***kwargs*)

Call all registered callbacks one by one starting from the beginning of the list.

frozen

`True` if *freeze()* was called, read-only property.

freeze()

Freeze the list. After calling, any content modification is forbidden.

CHAPTER

TWO

INSTALLATION

```
$ pip install aiosignal
```

The library requires Python 3.6 or newer.

CHAPTER

THREE

DEPENDENCIES

aiosignal depends on the frozenlist library.

CHAPTER

FOUR

DOCUMENTATION

https://aiosignal.readthedocs.io/

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FIVE

COMMUNICATION CHANNELS

aio-libs discourse group: https://aio-libs.discourse.group

Feel free to post your questions and ideas here.

gitter chat https://gitter.im/aio-libs/Lobby

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REQUIREMENTS

- Python >= 3.6
- frozenlist >= 1.0.0

CHAPTER

SEVEN

LICENSE

`aiosignal` is offered under the Apache 2 license.

CHAPTER

EIGHT

SOURCE CODE

The project is hosted on GitHub

Please file an issue in the bug tracker if you have found a bug or have some suggestions to improve the library.

CHAPTER

NINE

AUTHORS AND LICENSE

The `aiosignal` package was originally part of the aiohttp project, written by Nikolay Kim and Andrew Svetlov. It is now being maintained by Martijn Pieters.

It's *Apache 2* licensed and freely available.

Feel free to improve this package and send a pull request to GitHub.

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