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# **aiosignal Documentation**

***Release 1.3.1***

**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 `aiosignal:aiosignal-web-signals` section of the `aiosignal:web_advanced` chapter of the `aiosignal` documentation.



**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.





## INSTALLATION

```
$ pip install aiosignal
```

The library requires Python 3.6 or newer.



## DEPENDENCIES

aiosignal depends on the [frozenlist](#) library.



## DOCUMENTATION

<https://aiosignal.readthedocs.io/>



## 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>





## REQUIREMENTS

- Python  $\geq 3.6$
- `frozenset`  $\geq 1.0.0$



## LICENSE

`aiosignal` is offered under the Apache 2 license.



## 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.



## 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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