
aiohttp Documentation

Release 2.3.7-

aiohttp contributors

Dec 27, 2017

Contents

1	Key Features	3
2	Library Installation	5
3	Getting Started	7
4	Tutorial	9
5	Source code	11
6	Dependencies	13
7	Communication channels	15
8	Contributing	17
9	Authors and License	19
10	Policy for Backward Incompatible Changes	21
11	Table Of Contents	23

HTTP client/server for asyncio and Python.

CHAPTER 1

Key Features

- Supports both aiohttp-client and HTTP Server.
- Supports both Server WebSockets and Client WebSockets out-of-the-box.
- Web-server has aiohttp-web-middlewares, aiohttp-web-signals and pluggable routing.

CHAPTER 2

Library Installation

```
$ pip install aiohttp
```

You may want to install *optional* cchardet library as faster replacement for chardet:

```
$ pip install cchardet
```

For speeding up DNS resolving by client API you may install aiodns as well. This option is highly recommended:

```
$ pip install aiodns
```


CHAPTER 3

Getting Started

Client example:

```
import aiohttp
import asyncio
import asyncio_timeout

async def fetch(session, url):
    with asyncio_timeout.timeout(10):
        async with session.get(url) as response:
            return await response.text()

async def main():
    async with aiohttp.ClientSession() as session:
        html = await fetch(session, 'http://python.org')
        print(html)

loop = asyncio.get_event_loop()
loop.run_until_complete(main())
```

Server example:

```
from aiohttp import web

async def handle(request):
    name = request.match_info.get('name', "Anonymous")
    text = "Hello, " + name
    return web.Response(text=text)

app = web.Application()
app.router.add_get('/', handle)
app.router.add_get('/{name}', handle)

web.run_app(app)
```

Note: Throughout this documentation, examples utilize the *async/await* syntax introduced by [PEP 492](#) that is only valid for Python 3.5+.

If you are using Python 3.4, please replace `await` with `yield from` and `async def` with a `@coroutine` decorator. For example, this:

```
async def coro(...):
    ret = await f()
```

should be replaced by:

```
@asyncio.coroutine
def coro(...):
    ret = yield from f()
```

CHAPTER 4

Tutorial

Polls tutorial

CHAPTER 5

Source code

The project is hosted on [GitHub](#)

Please feel free to file an issue on the [bug tracker](#) if you have found a bug or have some suggestion in order to improve the library.

The library uses [Travis](#) for Continuous Integration.

- Python 3.4.2+
- *chardet*
- *multidict*
- *async_timeout*
- *yaml*
- *Optional* cchardet as faster replacement for chardet.

Install it explicitly via:

```
$ pip install cchardet
```

- *Optional* aiodns for fast DNS resolving. The library is highly recommended.

```
$ pip install aiodns
```


CHAPTER 7

Communication channels

aio-libs google group: <https://groups.google.com/forum/#!forum/aio-libs>

Feel free to post your questions and ideas here.

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

We support [Stack Overflow](#). Please add *aiohttp* tag to your question there.

CHAPTER 8

Contributing

Please read the instructions for contributors before making a Pull Request.

CHAPTER 9

Authors and License

The `aiohttp` package is written mostly by Nikolay Kim and Andrew Svetlov.

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

Feel free to improve this package and send a pull request to [GitHub](#).

Policy for Backward Incompatible Changes

aiohttp keeps backward compatibility.

After deprecating some *Public API* (method, class, function argument, etc.) the library guaranties the usage of *deprecated API* is still allowed at least for a year and half after publishing new release with deprecation.

All deprecations are reflected in documentation and raises `DeprecationWarning`.

Sometimes we are forced to break the own rule for sake of very strong reason. Most likely the reason is a critical bug which cannot be solved without major API change, but we are working hard for keeping these changes as rare as possible.

CHAPTER 11

Table Of Contents

To see the full table of contents open the link.

P

Python Enhancement Proposals

PEP 492, 8