

# AIOHTTP

*a lightning tour*

Created by [Simon Cross](#) / [@hodgestar](#)

**WHAT IS THIS THING?**

# AIO

asyncio

# HTTP

web

# CLIENT & SERVER

Think: requests & flask

# PYTHON 3.4 & 3.5

It's a brave new world.

# CLIENT REQUESTS







```
# URL params
params = {
    'hello': 'ctpug', 'year': '2016'}
response = await aiohttp.get(
    'http://requestb.in/1dbep2b1',
    params=params)
```

- `.text()` - unicode
- `.read()` - bytes
- `.json()`

all release the response

# RELEASING RESPONSES

```
async with client.get('http://requestb.in/1dbep2b1') as resp:  
    # ... do stuff with response here ..
```

# STREAMING

- `response.content.read(...)`

- Headers
- Cookies
- File uploads
- Streaming upload

- Connection pooling
- SSL
- Proxies
- WebSockets

# TIMEOUTS

```
asyncio.wait_for(  
    aiohttp.get('http://slow.example.com/'),  
    0.01)
```



**WHO IS BUILDING IT?**

# ANDREW SVETLOV

## 1 483 COMMITS

@asvetlov - [www.datarobot.com](http://www.datarobot.com)

# NIKOLAY KIM

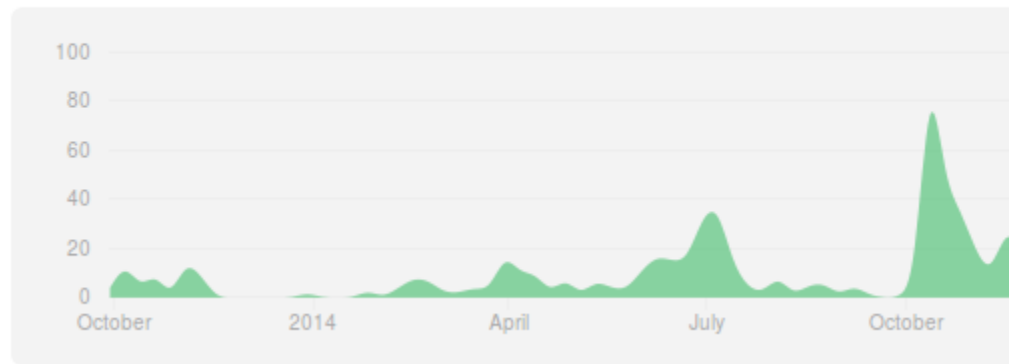
## 352 COMMITS

@fafhrd91 - [www.getkeepsafe.com](http://www.getkeepsafe.com)

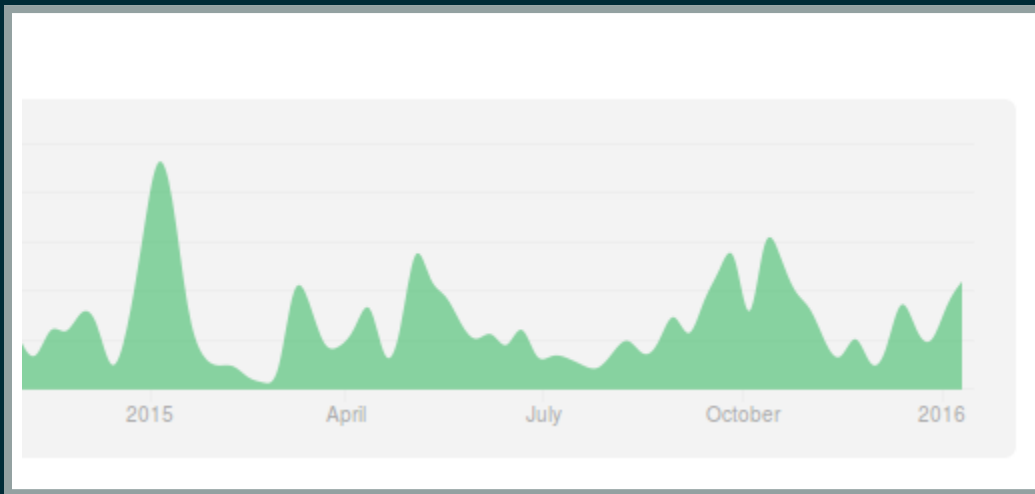
# CONTRIBUTIONS (PT 1)

Sep 29, 2013 – Jan 16, 2016

Contributions to master, excluding merge commits



# CONTRIBUTIONS (PT 2)



# AIO-LIBS

- GitHub organization
- Google Group

# TRAVIS

## 3.4 & 3.5

# SERVER



## Request handlers are straight forward:

```
import asyncio
from aiohttp import web

async def hello(request):
    return web.Response(body=b"Hello, %s" % request.match_info['name'])
```

Hooking up request handlers to URL routes is good:

```
app = web.Application()
app.router.add_route('GET', '/hello/{name}/', hello)
```

Running the server is not so good ...

**15 LINES >.<**

# SOLID BASE, NOT MUCH ELSE

Think: Very minimal version of flask

**QUESTIONS OR  
COMMENTS?**

# REFERENCES

- [aiohttp \(ReadTheDocs\)](#)  
<http://aiohttp.readthedocs.org/>
- [aiohttp \(GitHub\)](#)  
<https://github.com/KeepSafe/aiohttp>
- [aio-lib \(GitHub\)](#)  
<https://github.com/aio-lib>
- [aio-lib \(Google Groups\)](#)  
<https://groups.google.com/forum/#!forum/aio-lib>