



# Shipping Sentry

Armin Ronacher

# Armin Ronacher

@mitsuhiko

Flask / Sentry / Lektor

Find the Slides at  
[lucumr.pocoo.org/talks](http://lucumr.pocoo.org/talks)

*reach out to me!  
I want to talk :)*



[sentry.io](https://sentry.io)

# TypeError react/lib/ReactCompositeComponent in updateComponent

● JAVASCRIPT-R3 | Cannot read property 'componentWillReceiveProps' of null | javascript

ASSIGNED



EVENTS

8

USERS

6

[✓ Resolve](#) ▾ [Snooze](#) ▾ [★](#) [📄](#) [Create GitHub Issue](#)



[Details](#) [Comments](#) 0 [User Feedback](#) 0 [Tags](#) [Related Events](#)

[Share this event](#)

Event **97e62eee2b2d4506b4e7ea955054042b**

May 9 2016 21:39:57 CEST | [JSON \(60.5 KB\)](#)

[K](#) [Older](#) [Newer](#) [>](#)

Last 24 Hours

Last 30 Days

First seen

When: a month ago

Date: April 1 2016 14:51:54 CEST

Release: [6590d03f1e38](#)

Last seen

When: 2 hours ago

Date: May 9 2016 21:39:57 CEST

Release: [a89626174115](#)

**Message**

```
TypeError: Cannot read property 'componentWillReceiveProps' of null
```

**Tags**

browser = [Chrome 50.0](#) device = [Other](#) environment = [prod](#) level = [error](#) logger = [javascript](#)  
os = [Mac OS X 10.11.4](#) release = [a89626174115214fcf1e8d29bfc7018a287bfc64](#)  
sentry\_version = [1c5ae57c8a9c1dec5ebc83331d8e6572879ea2ad](#)  
url = <https://app.getsentry.com/make-me-up-co/> [🔗](#) user = [id:43428](#)

**User**

EXCEPTION (most recent call first)

Original

Minified

App Only

Full

Raw

## TypeError

Cannot read property 'id' of undefined

./app/views/projectDetails.jsx in **Constructor.onProjectChange** at line 90:59 ?

```
85.   onProjectChange(projectIds) {
86.     if (!this.state.project) return;
87.     if (!projectIds.has(this.state.project.id)) return;
88.
89.     this.setState({
90.       project: {...ProjectStore.getById(this.state.Project.id)}
91.     });
92.   },
93.
94.   identifyProject() {
95.     let {params} = this.props;
```

Called from: ~/reflux-core/lib/PublisherMethods.js in **EventEmitter.eventHandler** ?

./app/stores/projectStore.jsx in **Store.loadInitialData** at line 25:9 ?

./app/views/organizationDetails.jsx in **Request.success** at line 100:21 ?

./app/api.jsx in **Object.success** at line 61:20 ?

Called from: ~/jquery/dist/jquery.js in **fire** ?



84.114.93.8



iPod Touch 6G  
arm64



iOS  
Version: 10.1.1

### TAGS

device iPod Touch 6G    device.family iPod    level fatal    os iOS 10.1.1    os.name iOS    release 1.0

Thread #0 ▾ (most recent call first)

Symbolicated    Unsymbolicated    App Only    Full    Raw

id 0    name n/a    was active no    crashed yes

### EXC\_BREAKPOINT

fatal error: Index out of range  
Index out of range

mach exception EXC\_BREAKPOINT

SentryDemo	0x00071c7c	main (AppDelegate.swift:13)
Called from: UIKit UIApplicationMain		
SentryDemo	0x00070a4c	@objc SentryDemo.ViewController.CrashIt (protocol<>) -> () (ViewController.swift)
SentryDemo	0x00070940	SentryDemo.ViewController.CrashIt (protocol<>) -> () (ViewController.swift:25)



## ProviderNotRegistered

google

sentry/auth/manager.py in get at line 23

```
20.     try:
21.         cls = self.__values[key]
22.     except KeyError:
23.         raise ProviderNotRegistered(key)
24.     return cls(key=key, **kwargs)
25.
26.     def exists(self, key):
```

---

key u'google'

---

kwargs {
 u'domain': u'getsentry.com'
 }

[Show more](#)

sentry/models/authprovider.py in get\_provider at line 47

sentry/web/frontend/auth\_organization\_login.py in handle\_sso at line 95

sentry/web/frontend/auth\_organization\_login.py in handle at line 135

Called from: django/db/transaction.py in inner

sentry/web/frontend/base.py in dispatch at line 186

Called from: django/utils/decorators.py in bound\_func

## Breadcrumbs



Show 11 collapsed crumbs



xhr

GET `/api/0/subscriptions/make-me-up-co/` [200]

21:39:46



sentry

TypeError: Cannot read property `'_currentElement'` of null

21:39:46



xhr

GET [https://t687h3m0nh65.statuspage.io/api/v2/incidents/unresolved.json?\\_=1462822786179](https://t687h3m0nh65.statuspage.io/api/v2/incidents/unresolved.json?_=1462822786179) [200]

21:39:46



ui.click

`div.col-md-2.org-sidebar > div > ul.nav.nav-stacked > li > a`

21:39:51



navigation

to

`/organizations/make-me-up-co/teams/`

from

`/make-me-up-co/`

21:39:51



sentry

TypeError: Cannot read property `'_currentElement'` of null

21:39:51



ui.click

`span.pull-right.org-selector.dropdown > a.dropdown-toggle > span`

21:39:54



ui.click

`ul.dropdown-menu-right.dropdown-menu > li.active > a`

21:39:56



navigation

to

`/make-me-up-co/`

from

`/organizations/make-me-up-co/teams/`

21:39:56



error

TypeError: Cannot read property `'componentWillReceiveProps'` of null

21:39:57

# 「 THE TWO PRODUCTS 」



sentry **vs** 'getsentry'

**sentry**

open source repo

on-premise

monthly releases

**'getsentry'**

billing & quotas

depends on sentry

hourly deploys

# 「 GROWING THE TEAM 」



**2.5 to 25**

more process

keep processes light

keep developers happy



## **2 locations**

process in code

natural for us because of  
the Open Source nature

# 「 THE GOALS 」



deploy in seconds  
be unable to screw up  
and if you do: instant rollbacks

tag a release once a month

# 「WORKFLOW」



commit



review



integration



deploy

requires good test coverage  
requires good local setup  
makes it easier for newcomers

「 COMMITTING 」





# lint on commit!

```
mitsuhiko at herzog in ~/Development/sentry on git:master+? workon sentry  
$ git ci -am 'Performance improvements to the data scrubber.'  
src/sentry/utils/data_scrubber.py:147:1: F401 'unused' imported but unused
```

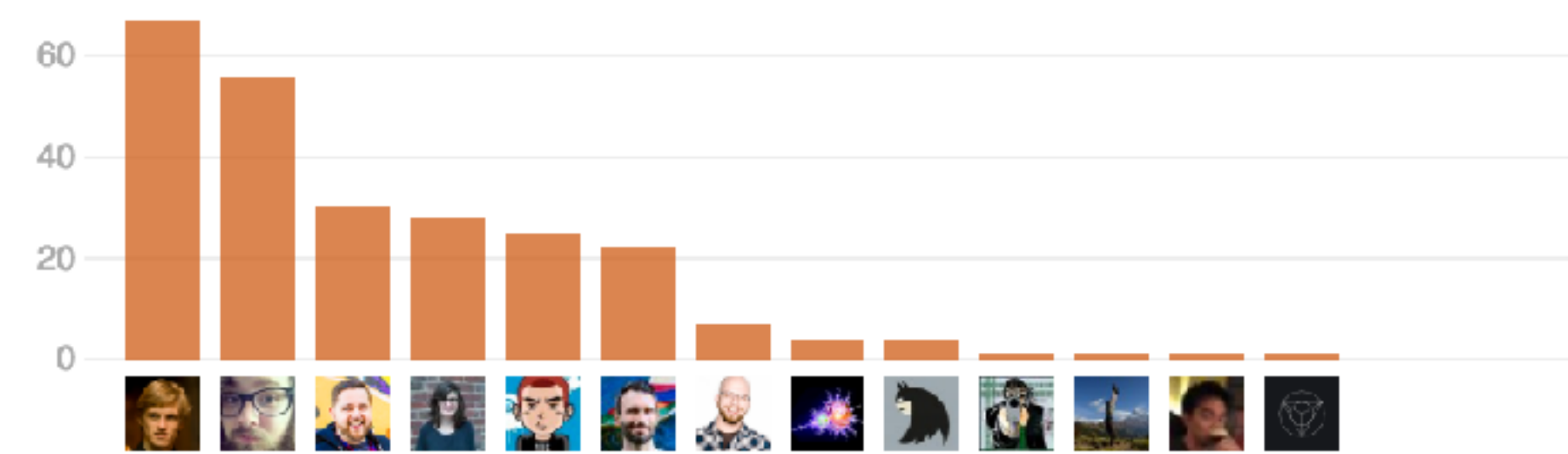
**On Prem:** 1 Release / Month

**Hosted:** 5 Deployments / Day

### Overview

<b>104</b> Merged Pull Requests	<b>7</b> Proposed Pull Requests	<b>46</b> Closed Issues	<b>31</b> New Issues

Excluding merges, **13 authors** have pushed **213 commits** to master and **247 commits** to all branches. On master, **251 files** have changed and there have been **8,385 additions** and **1,681 deletions**.



**4 Releases** published by **1 person**

**Published** 8.3.2 28 days ago

**Published** 8.2.5 12 days ago

**Published** 8.3.3 12 days ago

**Published** 8.4.0 7 days ago

**104 Pull requests** merged by **12 people**

**master is stable**



1. branch off master
2. pull request
3. merge

# all the pull requests

## fix letter avatars in email #3059

**Merged** macqueen merged 2 commits into `master` from `fix-email-avatars` 22 days ago

Conversation 2 Commits 2 Files changed 7



macqueen commented 22 days ago

Sentry member



@getsentry/ui

fix letter avatars in email

dfde8bc



mattrobenolt commented 22 days ago

Sentry member



It'd be worthwhile to probably add some tests for this template tag next. I wouldn't hold up this fix for it though.

Question: if it's simple to use HTML, is there a reason we want to use SVG elsewhere and not just use HTML all the time?

Fix the listing issue and it looks good to me.

add tests for html version of letter avatar

3898b7c

**!! AVOID DOWNTIME !!**

# postgres <3

transactional ddl, concurrent  
indexes, cheap alter table add  
nullable columns



**bidirectional compatibility**

separation of state and connections

# 「CONTINUOUS TESTING」



**sentry**

[travis-ci.org](https://travis-ci.org)

test all the code

**'getsentry'**

[travis-ci.com](https://travis-ci.com)

test code relevant for us

# 「CONTINUOUS DELIVERY」



# FREIGHT

wait for travis > build > ship

ACTIVE DEPLOYS

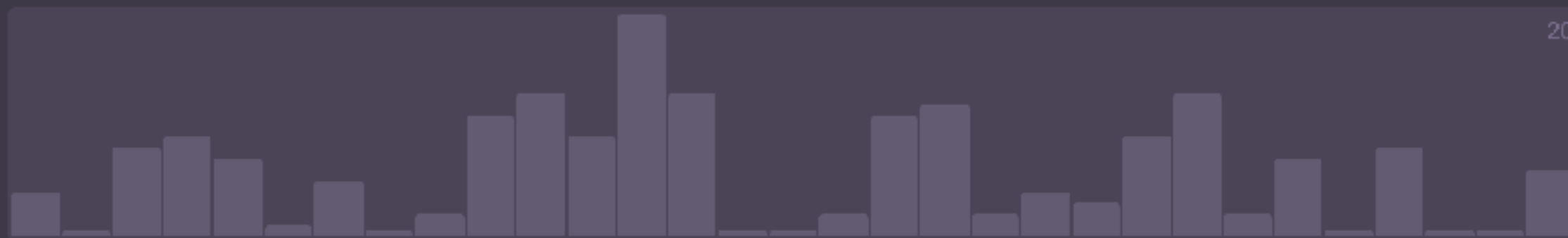
docs/production#440

Started a few seconds ago – by armin

5c0c97a

master

DEPLOY HISTORY



docs/production#439

Finished 2 hours ago – 6 min – by matt

5c0c97a

master

getsentry/production#2061

Finished 3 hours ago – 18 min – by matt

d3379cc

master

getsentry/production#2060

Finished 3 hours ago – 18 min – by matt

e9e7e4c

master

getsentry/production#2059

Finished 5 hours ago – 3 min – by david@getsentry.com

a896261

a89626174115214fcf1e8d29bfc7018a287bfc64

getsentry/production#2058

Failed 6 hours ago – 17 min – by dcramer

a896261

master

bidirectional communication with the main slack channel

00:48 ☆ armin hubot deploy docs

00:48 Freight BOT [docs/production] Starting deploy #440 (5c0c97a)

[docs/production] Deploy #440 (5c0c97a) was cancelled after 26.41s



**dev** never matches **prod** :(

thus: **fast rollbacks!**  
(backwards + forwards compatibility)

# 「CODE STRUCTURE」



large systems are organisms

not all things will run the  
same code at the same time

data schema ~ code behavior

break up larger features

feature flag it!

(we shipped some code to on-prem we backed out)



# 「REPO STRUCTURE」



move towards "monorepos"  
(but within what is possible with our tools)  
*{not as mono as we would like}*

# 「MOVING PARTS」



keep **dev** basic: fewer parts

do not diverge **dev** from **prod**  
too much

virtual machines and docker  
are not an acceptable dev  
environment

# 「REPRODUCIBLE BUILDS」



pip freeze / yarn



nothing is more frustrating than a failed deploy  
because a dependency of a dependency of a  
dependency of a dependency pushed out a  
broken release

build once > ship to many

# 「 BINARY DEPS 」



OS X & "manylinux"

C/C++/Rust Modules for Python

Build in Docker on old CentOS

Debian / RHEL / Ubuntu

# 「 MONITOR FAILURES 」





associate failures to users

map support requests to failures

use sentry :-)





# 「 FRIENDLY ROBOTS 」



replace yourself!

# bots and webhooks

🔗 Commits on May 10, 2016

-  **Use more efficient `sentry.utils.json` instead of `json`**  
mattrobenolt committed 8 minutes ago
-  **Handle non-string platform value**  
dcramer committed 10 minutes ago
-  **getsentry/sentry@94475ea**  
getsentry-bot committed 13 minutes ago
-  **getsentry/sentry@1f19a52**  
getsentry-bot committed 18 minutes ago

# github hooks

Add more commits by pushing to the `move-south-migrations` branch on `getsentry/sentry`.



## All checks have failed

2 failing checks

[Hide all checks](#)



**X** `continuous-integration/travis-ci/pr` — The Travis CI build failed

Required

[Details](#)



**X** `continuous-integration/travis-ci/push` — The Travis CI build failed

Required

[Details](#)



## Required statuses must pass before merging

All required [status checks](#) on this pull request must run successfully to enable automatic merging.

**As an administrator, you may still merge this pull request.**



**Merge pull request**

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

# notify to communication hub

21:44 **jtcunning** and seeing as how we have 500k+ pulls, we're probably part of that list

21:44 **Freight** BOT [getsentry/production] Successfully deployed [#2060](#) (e9e7e4c) after 1082.96s

21:44 **matt** Yeah, I have no way to gauge that scale.

21:45 ☆ Like, that seems like a super crazy amount, haha



testing danger.systems

「 BETTER CLIMATE 」



the more robots,  
the better the integration,  
the smaller the fear of doing damage

If you can launch a feature on your first  
day of work that's motivating

# also: happy customers

**Philipp Krenn** @xeraa 

.@getsentry is a great tool to keep your sanity and is very responsive  
bug report to fix within 3h on friday night:  
[github.com/getsentry/sent...](https://github.com/getsentry/sentry)

LIKES 4 


8:51 PM - 13 Nov 2015

 Reply to @xeraa @getsentry

**Alex MacCaw** @maccaw 

.@getsentry just implemented a feature request in under an hour. That's got to be a record!

RETWEETS 4 LIKES 14 

2:12 AM - 3 Feb 2016

 Reply to @maccaw @getsentry

**David Cramer** @zeeg · Feb 3  
@maccaw dat continuous deployment 

   1 



@ProductHunt [producthunt.com/tech/sentry](https://producthunt.com/tech/sentry) h/t @ckj 🙌

*reach out to me!  
I want to talk :)*