Building a profitable business around your open source project

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- Software Engineer at Zulip (2017 -)
- Mentor in Google Summer of Code

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Why open source projects needs a business model?

- Maintainers need to spend a significant amount of time reviewing pull requests, working on new issues etc.
- Hard to manage when you are working on a full time job.

- You can't rely only on unpaid volunteers to drive the development of the project.
- Most big open source projects needs multiple people working on it full time to be successful.
- And to hire them you need a sustainable source of income.

For example, most of the Linux Kernel contributors are employed by companies like Intel, Red Hat, Samsung etc to contribute to kernel full time.

Also, the revenue incentivizes you to work on the project more and make it even better.

If it's not fun anymore, you get literally nothing from maintaining a popular package.

Dominic Tarr @dominictarr



Having a sustainable source of revenue help you plan ahead of time.

Also helps you compete with proprietary software projects from big companies by hiring better engineers.

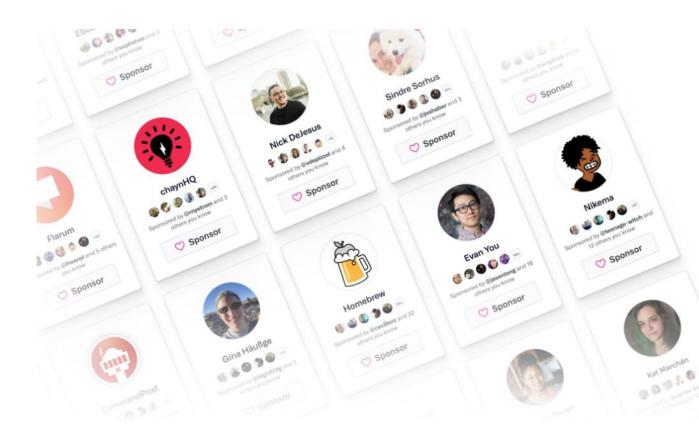
Revenue can be also used as a good matrix of how well the project is doing.

GitHub stars doesn't convey much other than popularity.

Common Open Source Business Models

Donations

Accept recurring or one time donations from users.



GitHub sponsors

Pros

- Super easy to set up.
- No additional effort required for making this work.

Cons

.....

Very little money in donations.

Hard to convince companies to donate than buying the software.

About Sindre Sorhus

Hey, I'm Sindre

I love open source. For more than 4 years I've been working on open source full-time, 8-12 hours a day, while living off savings. I'm on Patreon now as my savings are slowly running out and I need your help to continue my open source efforts.

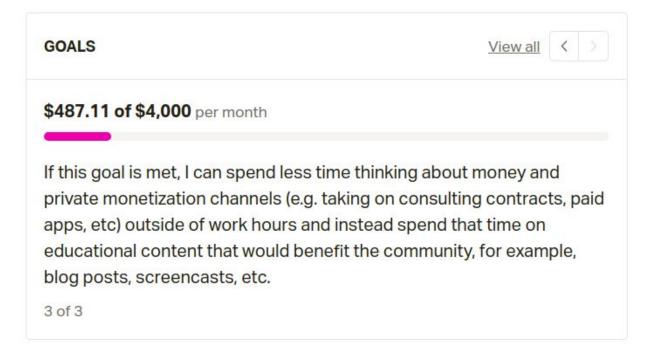
I actively maintain 1100+ npm packages (2 billion downloads a month) and many popular projects. You're probably depending on some of my packages in your dependency

Show more





\$487/72 = \$6.76 per contributor



210 sponsors



Approximate revenue

\$487 (Patreon)

+

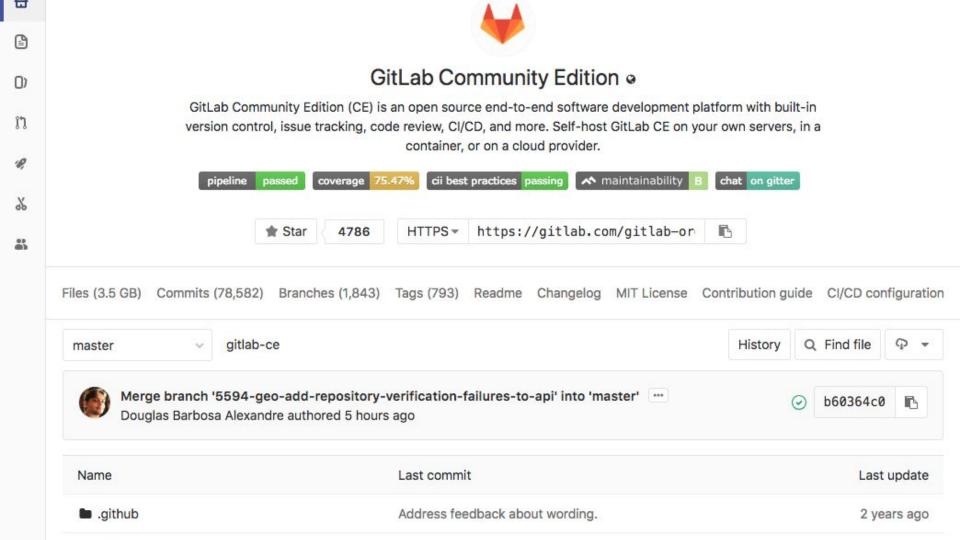
\$6.76 * 210 (GitHub sponsors)

=

\$1888.96 < \$4,000

Open Core

- Core functionality is available for free and open source.
- Additional features are released as paid proprietary software.



- Valued over \$6 Billion.
- 1000+ employees
- VC funded

Some other notable companies

- Neo4j
- Redis
- Elastic
- MySQL
- Cassandra



- Easy to scale with more customers.
- Possibility to charge per user in a company. (Additional revenue without any marketing or sales)
- Recurring revenue.

Cons

- Not really open source.
- Disincentivized to add important features to the open source version.

SaaS (Software as a Service)

- Charge customers for hosting the online web service of the product.
- Typically also provides customer support
- Usually prioritizes feature requests from paying customers.

Companies

- Zulip
- Automattic (\$3 billion valuation)
- Ghost.org (Non profit)
- Sentry (\$100 million+ valuation)

Pros

- Recurring revenue
- Easy to scale to large number of customers.
- Can charge per user.
- Aligned with the development of the open source project.

Cons

- Other companies can offer the SaaS offering of your open source project.
- Sometimes it's hard to convince users to pay for the SaaS service than hosting it by themselves.

BLOG

ARCHIVE







November 6, 2019



Re-Licensing Sentry



DAVID CRAMER

More than a decade ago, a small piece of code that would eventually be called Sentry was born. When I wrote this code, I didn't know much about open-source, so when it came down to licensing, I just grabbed the first reasonable suggestion thrown my way. That suggestion happened to be the BSD 3-Clause License.

Fast forward to today, and a lot has changed. Sentry is far more than that original 70-line snippet; it's a complex product made up of millions of lines of code that is used by tens of thousands of businesses around the world. It's also no longer a personal project; it now employs nearly 100 individuals who depend on it for their livelihood.

Sentry – both the project and the company – is large enough now to question whether the licensing decision made 11 years ago was the right one.

For example, this past year, we've had to deal with funded businesses plagiarizing or copying our work to directly compete with Sentry. This has included taking marketing content from our website, plagiarizing our documentation and framing it as their own, or straight-up copy/pasting our product visuals.

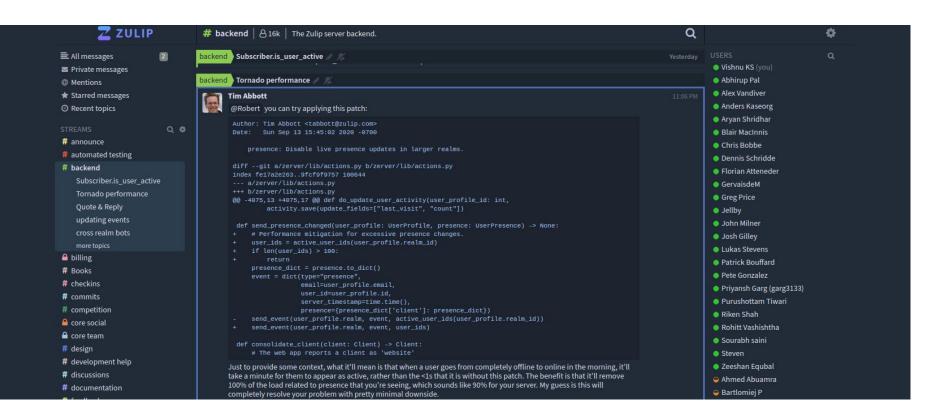
Sentry has now moved it's projects to **Business Source License** from Apache 2.0, MIT and BSD 3-Clause.

- You cannot offer a commercial version of Sentry's service (the license grant restriction)
- After 36 months, the code becomes Apache-2.0 licensed (the conversion period)



- Zulip is an open source group chat application.
- Focuses heavily on topics.



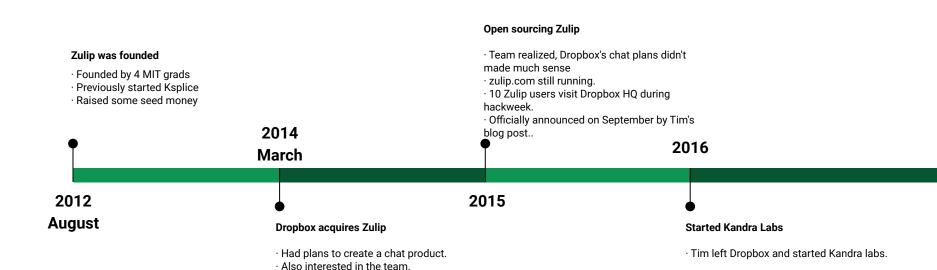


- Clients in Windows, Linux, Mac, Android, and iOS
- Either self host the Zulip server or use the SaaS offering in zulip.com

History

```
commit ea43d2e40e59cb0240ea362fe30f9a435a4a2a1f
Author: Tim Abbott <tabbott@zulip.com>
Date: Tue Aug 28 12:41:50 2012 -0400
    Initial commit of sqlalchemy models.
    (imported from commit 8f4763da55bd3f2bbea090d196c6d7850e2b2c71)
diff --git a/models.py b/models.py
new file mode 100644
index 0000000000..8462595e16
--- /dev/null
+++ b/models.pv
@@ -0,0 +1,142 @@
+from sqlalchemy import create engine
+engine = create engine('sqlite:///tmp/humbug.db', echo=False)
+from sqlalchemy import Column, Integer, String, ForeignKey
+from sqlalchemy.ext.declarative import declarative base
+Base = declarative base()
+class User(Base):
     tablename = 'users'
    id = Column(Integer, primary key=True)
    username = Column(String)
    realm id = Column(Integer)
    email = Column(String)
     password = Column(String) # obviously going to be replaced with Django stuff here
     def init (self, username, realm id, email, password):
        self.username = username
        self.email = email
        self.realm id = realm id
         self.password = password
```

History of Zulip Inc





- · Hired Christie to improve documentation.
- · Hired Sumana to build community.
- · Rishi, Steve joined full time in Engineering.
- · Started process to acquire trademarks.
- · Participated in Google Summer of Code
- · Received SBIR grant.

Started charging customers

- · Started charging customers for SaaS
- Standard plan.
- · 4x year over growth in daily active users.
- · Participated in GSoC and GCI.



Re launched zulip.com

- · 1000+ PRs/150+ contributors
- · SaaS offering and Enterprise contracts
- · Largest PyCon sprint ever in Portland with 75+ contributors
- · Google Code in, Outreachy and GSoC

Current state

- · 11000+ pull requests.
- · 650+ contributors
- · 10 full time employees.





Zulip Business Model

SaaS

Free plan

- Limited storage (5GB for entire organization)
- Limited message history (10k messages)
- Some enterprise features like guest users, user groups etc are limited.

SaaS

Standard plan

- \$8/user/month or \$80/user/year
- No message history limit
- Increased storage (10GB per user)
- Full access to enterprise features.
- Priority support

- Free for open source projects and events.
- Heavily discounted (85% 100%) for
 - Educational institutions
 - Non profits
 - Group of friends
 - etc

Enterprise support for on premise installations

- Support response SLAs
- High availability assistance
- Input to Zulip roadmap

Charging for the push notification forwarding service

- iOS and Android apps will only allow trusted servers mentioned in the app to send push notification.
- This means self hosted servers have to recompile the app and publish it on their own.
- As a better alternative, Zulip runs a central push notification forwarding service on behalf of self hosted servers.
- We currently give away the service for free, but has plans to charge companies which sends a lot of push notifications.

Grants

Zulip has received nearly 1 million dollars in **SBIR** grants from the **US National Science Foundation**.



Donations

- Has GitHub sponsors enabled.
- Not much success from the model.

Consulting

- We often get requests to customize Zulip specifically for a company.
- But have not pursued that direction since it's not aligned with best interest of open source project.
- Also super hard to scale since the company specific customizations in most cases are useless for other customers.

Questions?