



CHA OSS Tooling for OSPOs

how to build OSPO metrics in
GrimoreLab

Amsterdam, 2023

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CHA OSS Contributor & Bitergia co-founder



About Luis

Software Engineer who works with data

CHAOSS contributor (GrimoireLab)



About Luis

Software Engineer who works with

Conflict of
interest?

CHAOSS contributor (GrimoireLab)

Bitergia co-founder





Community Health Analytics

Open Source Software



Metrics

Software

Initiatives

OSPO working group



☰ README.md

OSPO Metrics Working Group

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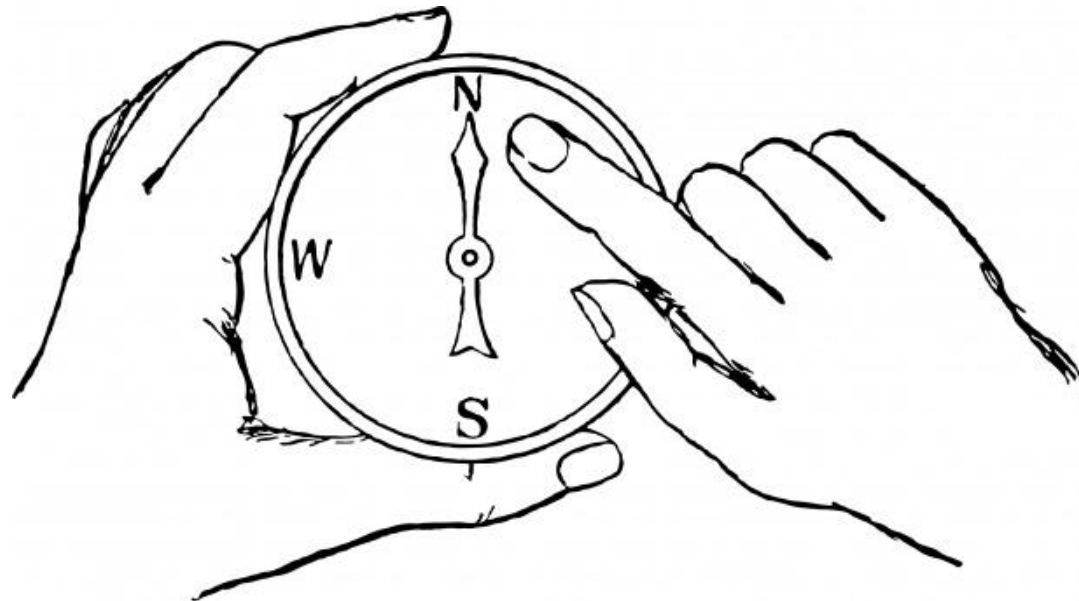
- [Introduction](#)
- [Participate](#)



Why do you need data?



What is your goal?





Metrics with no goal?



Metrics with no goal?

Streetlight effect





Example of goals



Example of goal #1

Adopt sustainable OSS

Adopt
sustainable
OSS

Pony Factor



Subject: “If Guido was hit by a bus?”



“I just returned from a meeting in which the major objection to using Python was its dependence on Guido. **They wanted to know if Python would survive if Guido disappeared.** This is an important issue for businesses that may be considering the use of Python in a product.”, said Michael McLay.

Adopt
sustainable
OSS

Pony Factor





Pony Factor

Adopt
sustainable
OSS

Git: 1

Wordpress: 2

Nginx: 1



Pony Factor

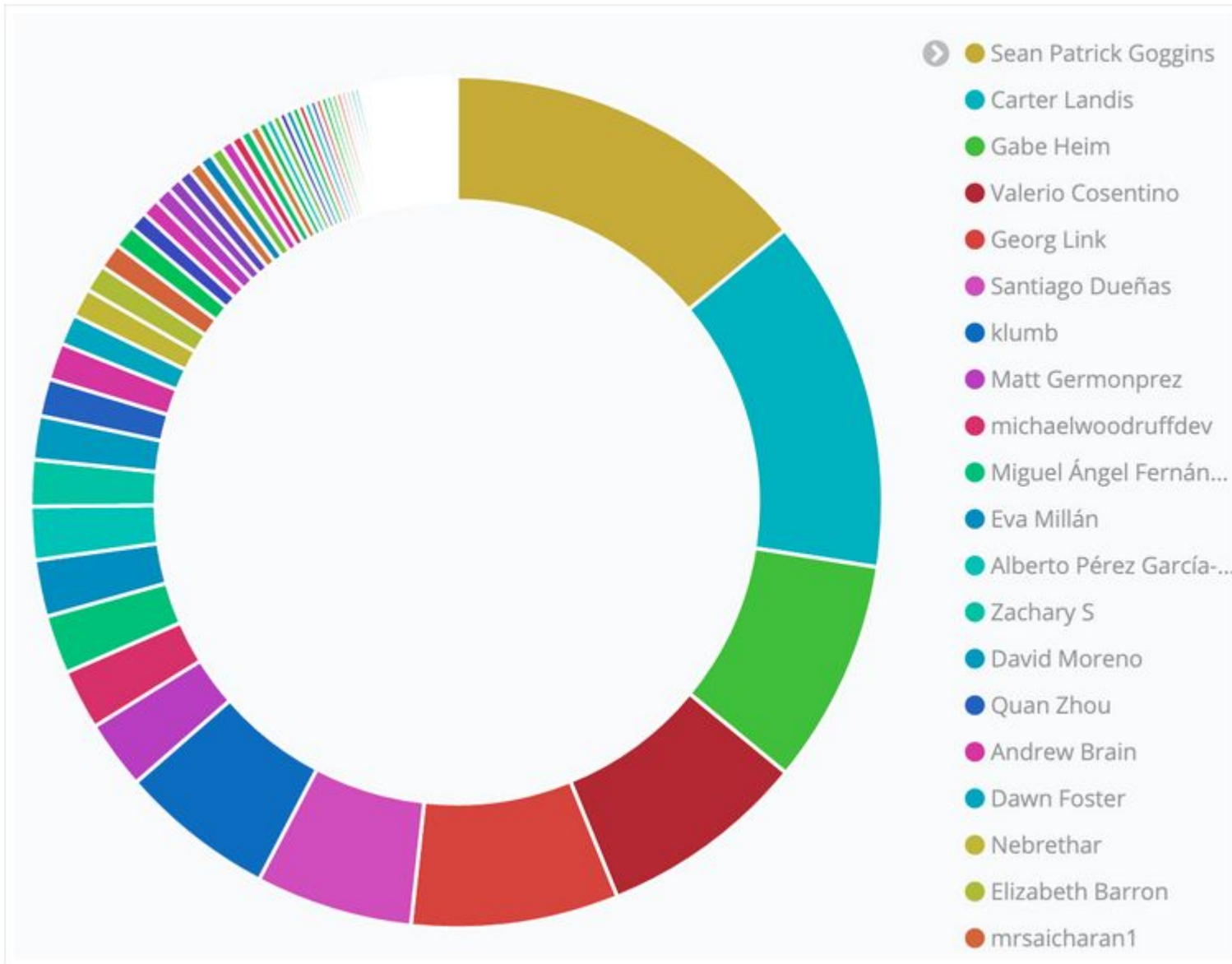
Adopt
sustainable
OSS

Git: 1

Wordpress: 2

Nginx: 1

OpenSSL: 2

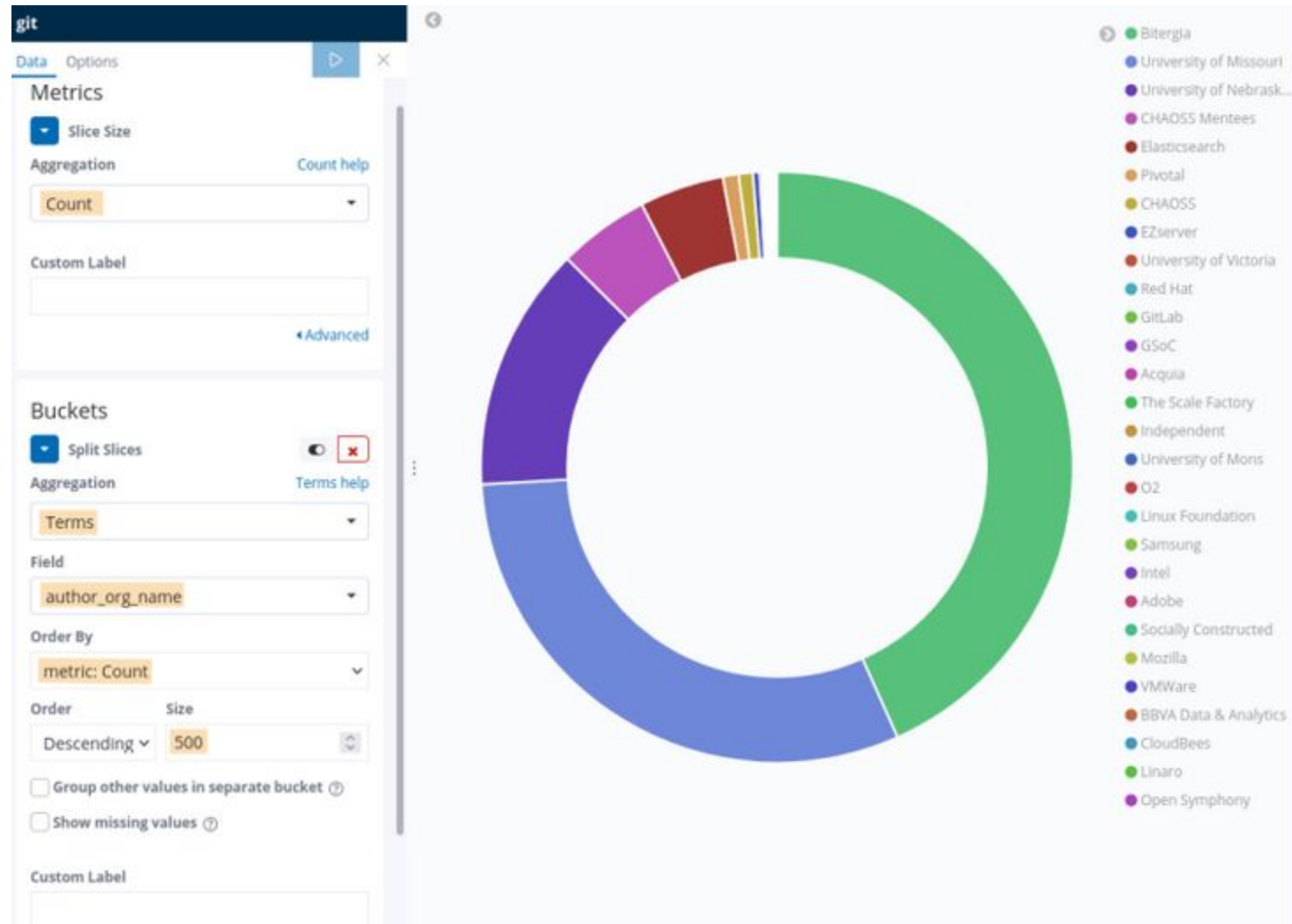


Adopt
sustainable
OSS

Pony Factor

Elephant Factor





**Adopt
sustainable
OSS**

Pony Factor

Elephant Factor

Active Contributors





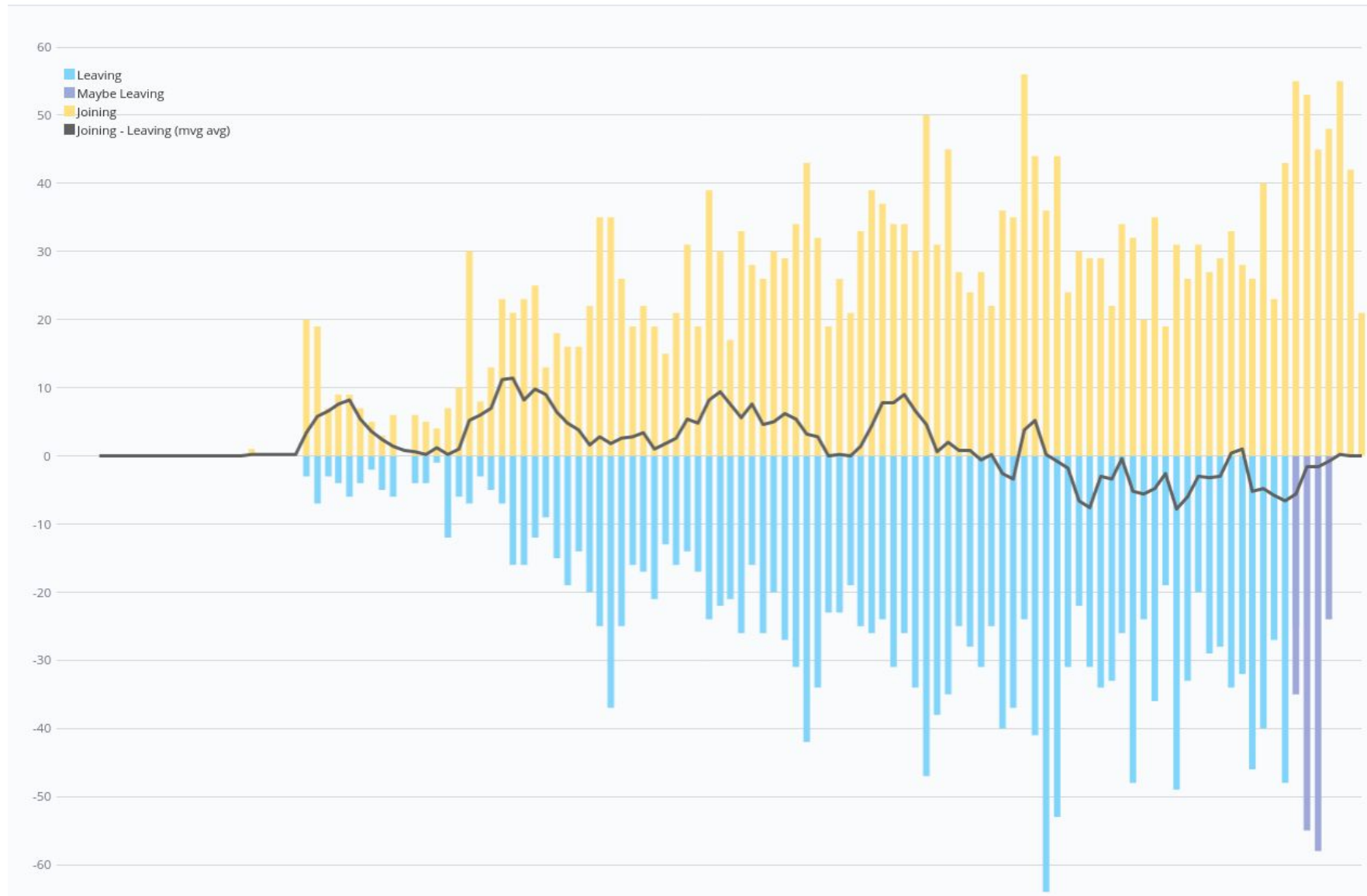
Example of goal #2

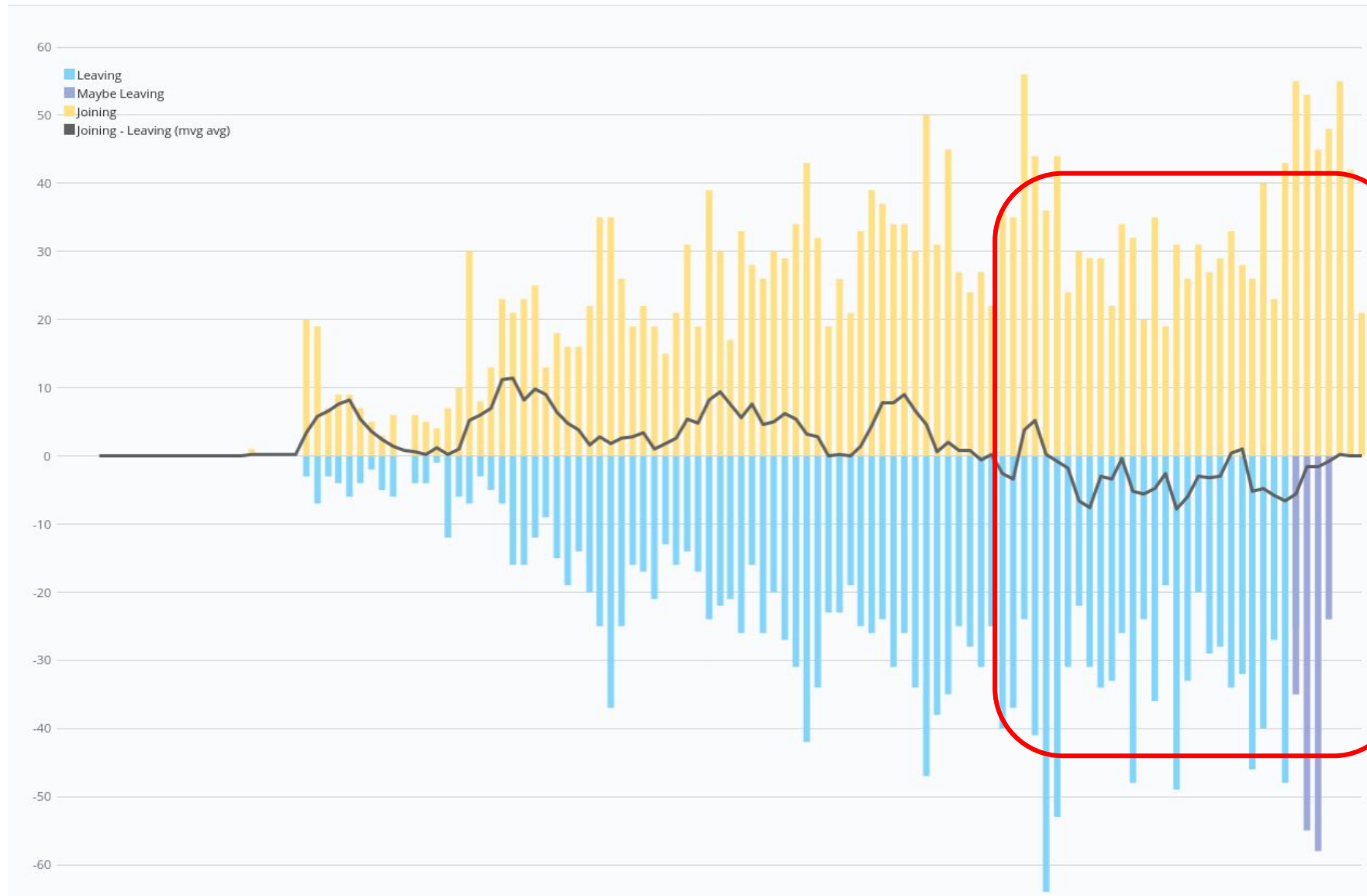
Community Growth

Community
Growth

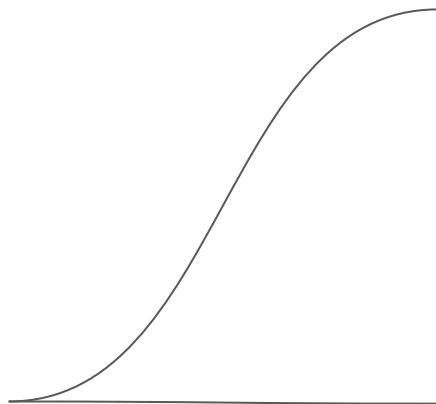
Attraction and
Retention







Community
Growth



Attraction and
Retention

Time to Review
External
Contributions



Community Growth

Attraction and
Retention

Time to Review
External
Contributions

Organizations involved

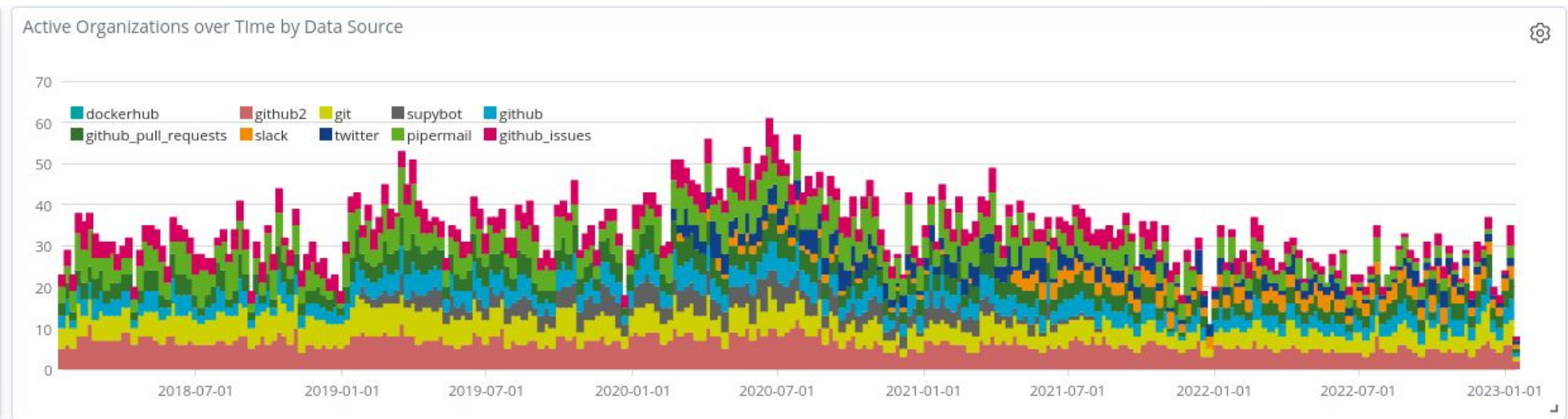


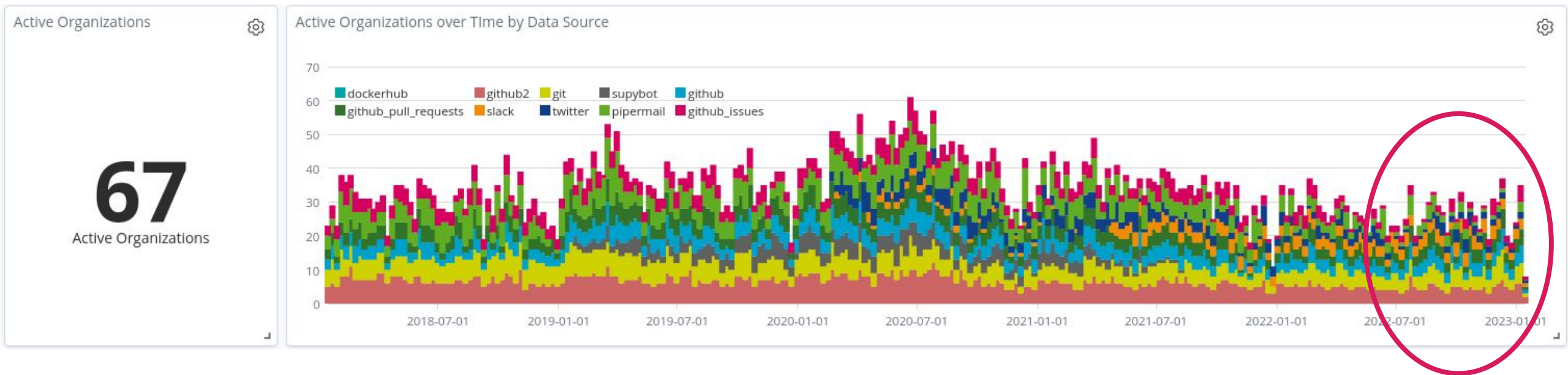


Active Organizations

67

Active Organizations





19 in the last 6 months



CHAOSS Software



MIT License

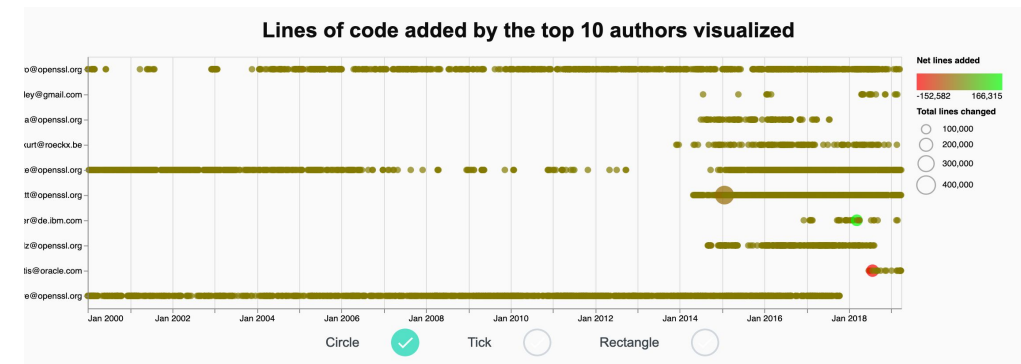
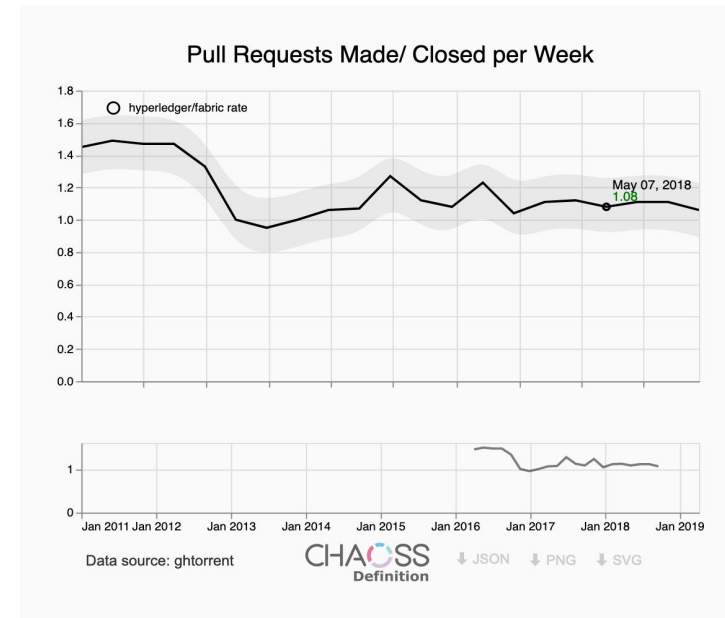
Python, PostgreSQL

GitHub data

Project benchmark

<https://github.com/chaoss/augur>

<http://zephyr.osshealth.io/>





Python, Django, Opensearch
GPLv3
GitHub, GitLab, Gerrit, Discourse
StackOverflow and many more.

Cauldron.io - SaaS GrimoireLab

Bitergia Analytics Platform

[The Document Foundation](#)

[Mystic by RIT](#)

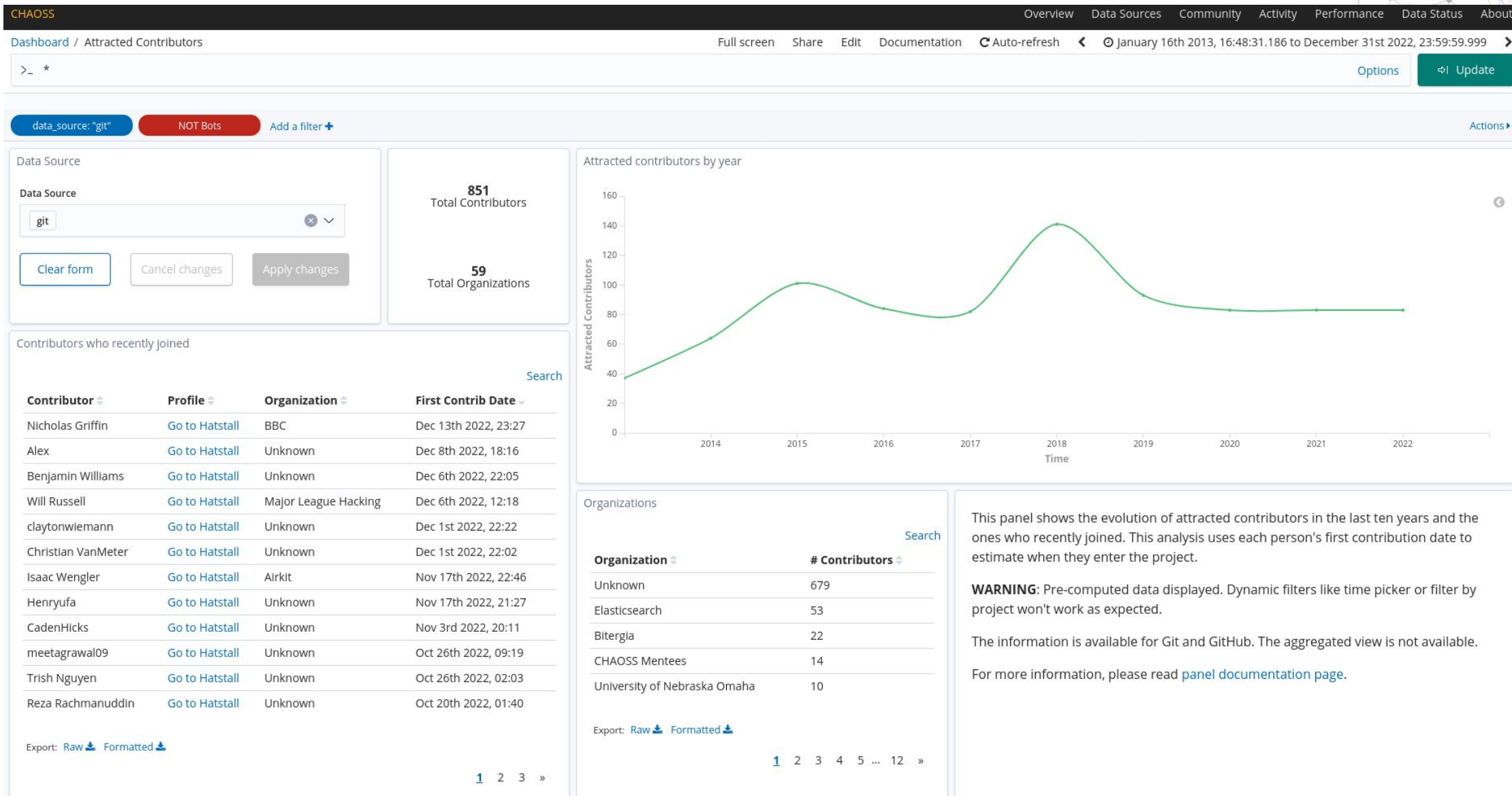
LFX Insights (**proprietary** solution)

Dashboards

[Create new dashboard](#)

<input type="checkbox"/> Title ↑	Description	Actions
<input type="checkbox"/> About	About panel by Bitergia	Edit
<input type="checkbox"/> Affiliations	Affiliations panel by Bitergia	Edit
<input type="checkbox"/> Attracted Contributors	Attracted Contributors dashboard by Bitergia	Edit
<input type="checkbox"/> C_JBC	Custom dashboard with some basic metrics defined by J. Manrique for Jono Bacon	Edit
<input type="checkbox"/> Community Structure by Organization	Community Structure by Organization panel by Bitergia (aka Onion Analysis by Organization)	Edit
<input type="checkbox"/> Community Structure by Project	Community Structure by Project panel by Bitergia (aka Onion Analysis by Project)	Edit
<input type="checkbox"/> Contributors Growth	Contributors Growth Panel by Bitergia	Edit
<input type="checkbox"/> Data Status	Data Status panel by Bitergia	Edit
<input type="checkbox"/> Demo: UC4		Edit
<input type="checkbox"/> Demographics	Demographics panel by Bitergia	Edit
<input type="checkbox"/> Docker	Docker dependencies and smells obtained with Jadolin	Edit
<input type="checkbox"/> DockerHub	DockerHub panel by Bitergia	Edit







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hello@jndoe.es

jndoe@gmail.com

jndoe

02/2005 - 12/2010 Volunteer
01/2010 - 12/2012 Bitergia
01/2013 - 06/2013 Gitlab
07/2013 - now Bitergia



Identities data set is essential

- Real activity of a contributor
- When a contributor joined the project
- Number of contributors of a community
- Actual activity for an organization



Profiles

Show 10 entries

Search to SH: luis

<input type="checkbox"/>	Name	email	Enrollments	Bot?	Country	Last Modified	ids.
<input type="checkbox"/>	Javier Luis Cánovas Izquierdo	None	UOC	False		Jan. 13, 2023, 2:49 p.m.	3
<input type="checkbox"/>	Luis GC (at 🏠)	None		False		Nov. 16, 2020, 7:44 p.m.	1
<input type="checkbox"/>	lluismf	lluismf@gmail.com		False		Aug. 24, 2021, 6:12 p.m.	3
<input type="checkbox"/>	Luis Cañas-Díaz	None	Bitergia, Universidad Rey Juan Carlos	False		Jan. 13, 2023, 2:50 p.m.	14
<input type="checkbox"/>	Luis Villa	luis@tidelift.com		False		March 28, 2019, 10:44 a.m.	1
<input type="checkbox"/>	Luis Pallares	thepanchi@gmail.com		False		March 9, 2020, 2:05 p.m.	1

Merge

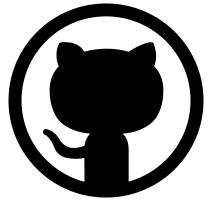
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GrimoireLab

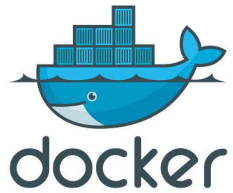


- Collects data from 30+ different platforms
- It is 100% OSS
- Out-of-the-box dashboards
- Identities management
- All the goodies of OpenSearch:
 - Security
 - Pseudonymization
 - Roles based access
 - Drill-down / Search
 - Tenants
 - Export / Sharing
 - On the fly calculation

GrimoreLab: How to start



<https://github.com/chaoss/grimoirelab>



/docker (version 0.7.1)



chaoss.community/software

CHAOSS in Industry

Bitergia in Action: Mozilla Rebel Alliance



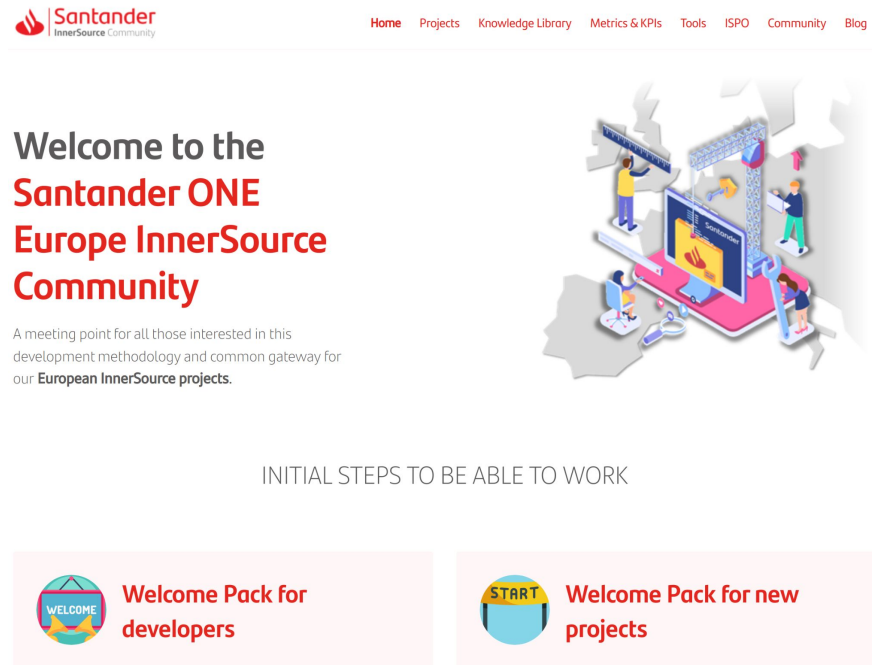
“[...] holistic view of our contributor ecosystem’s network structure, health and impact [...]”

“[...] we’re able to visually describe these distinct contributor communities as well as how they are interconnected [...]”

<https://report.mozilla.community/>

CHAOSS in Industry

Bitergia in Action: Santander Bank InnerSource Metrics



“Breaking down silos, empower developers and create friendly collaboration spaces, share a similar culture across the organization, and share homogenous / standardize processes and tools

“Real collaboration happens now at the European level across countries and hundred of developers”

How to Participate



[About](#) [Community](#) [Events](#) [Software](#) [Metrics](#) [DEI Event Badging](#) [Participate](#)

[Donate](#)

Community Health Analytics Open Source Software

CHA OSS is a Linux Foundation project focused on creating analytics and metrics to help define community health

Discussion: Mailing Lists, Meetings, Slack. **Meetings:** CHA OSScon

Source Code: GitHub. **Podcast:** CHA OSSCast

chaoss.community/about

chaoss.community/participate



Q&A



Luis Cañas-Díaz lcanas@bitergia.com // Twitter: @sanaci

Useful links



- CHAOSS community: <https://chaoss.community/>
- OSPO working group in CHAOSS: <https://github.com/chaoss/wg-ospo>
- Bitergia blog post series - Metric of the Month:
<https://blog.bitergia.com/category/metrics/metric-of-the-month/>
- Augur: <https://github.com/chaoss/augur>
- Augur demo with the Zephyr project: <http://zephyr.osshealth.io/>
- GrimoireLab: <https://github.com/chaoss/grimoirelab>
- GrimoireLab run by the TDF: <https://dashboard.documentfoundation.org/>