

# ATS Summit Spring 2024

# Open Source Repo Analysis

Kit Chan / [kichan@apache.org](mailto:kichan@apache.org)

# TODO group

- Main site - <https://github.com/todogroup>
- Book - <https://ospobook.todogroup.org/>
- Landscape map - <https://landscape.todogroup.org/>

# CHAOSS / TODO group

- Organization recommending Software for analyzing open source repositories & define metrics / metric models for open source projects
- <https://chaoss.community>
- Open Source Tools
  - GrimoireLab
    - Collect data from variety of channels - i.e. git, slacks, emails, etc
    - pre-made visualizations
    - From Bitergia
    - An application on top of ElasticSearch
  - Augur / 8Knot
    - Data from github/git labs
    - 8Knot is the frontend. Augur is the DB.
    - customizable queries using python
    - An application on top of relational DB
- Free & Hosted
  - GrimoireLab - cauldron.io - ATS - <https://cauldron.io/project/8176>
  - 8Knot - eightknot.osci.io - ATS - [eightknot.osci.io](https://eightknot.osci.io) / [metrix.chaoss.io](https://metrix.chaoss.io)

# Categorizing Repositories: Maturity Model

- With maturity Model -

<https://github.com/DSACMS/repo-scaffolder/blob/main/maturity-model-tiers.pdf>

File	Ordinality of Documentation By Tier (M - Mandatory, R - Recommended, N - Not Recommended)				
	Tier 0: Private Repo	Tier 1: One-time Release	Tier 2: Close Collaboration	Tier 3: Working in Public	Tier 4: Community Governance
<a href="#">LICENSE</a>	M	M	M	M	M
<a href="#">SECURITY.md</a>	N	M	M	M	M
<a href="#">README.md</a>	M	M	M	M	M
<a href="#">CONTRIBUTING.md</a>	R	R	M	M	M
<a href="#">MAINTAINERS.md</a>	N	N	R	M	M
<a href="#">GOVERNANCE.md</a>	N	N	N	R	M
<a href="#">CODEOWNERS.md</a>	N	N	R	M	M
<a href="#">COMMUNITY_GUIDELINES.md</a>	N	N	M	M	M
<a href="#">CODE_OF_CONDUCT.md</a>	N	N	M	M	M

# Categorizing Repositories: Maturity Model

- Tool to identify - <https://github.com/DSACMS/repo-scaffolder/tree/main>
  - With repolinter config file
- Lint tool (from TODO group) - <https://github.com/todogroup/repolinter>
  - Can be used to define “cohorts”
  - And used to categorize repositories
- More information on categorizing repositories
  - [https://static.sched.com/hosted\\_files/ossna2024/20/repository\\_cohorts\\_ossna24.pdf](https://static.sched.com/hosted_files/ossna2024/20/repository_cohorts_ossna24.pdf)
  - [https://static.sched.com/hosted\\_files/ossna2024/d4/CMS\\_OSPO\\_Baseline\\_Presentation\\_OSSNA24.pdf](https://static.sched.com/hosted_files/ossna2024/d4/CMS_OSPO_Baseline_Presentation_OSSNA24.pdf)

Demo



**Authors** 1

Creation date: 2nd May 2024

**Authors** 273 193 160

Creation date: 16th Feb 2024

**Authors** 124 85 85

Creation date: 16th Feb 2024

**Arkime**

**Data sources** 5 5

	Commits	Issues	Reviews
<b>Items</b>	6267	1447	1417
<b>Authors</b>	137	427	157

Creation date: 16th Feb 2024

**Yavin**

**Data sources** 6 6

	Commits	Issues	Reviews
<b>Items</b>	2494	436	1404
<b>Authors</b>	77	18	38

Creation date: 16th Feb 2024

**Bullet-db**

**Data sources** 15 15

	Commits	Issues	Reviews
<b>Items</b>	1506	117	517
<b>Authors</b>	20	6	12

Creation date: 16th Feb 2024

**Yahoo**

**Data sources** 195 195

	Commits	Issues	Reviews
<b>Items</b>	37931	4204	13383
<b>Authors</b>	2045	2094	1163

Creation date: 14th Feb 2024

**Athenz**

**Data sources** 17 17

	Commits	Issues	Reviews
<b>Items</b>	4208	314	2680
<b>Authors</b>	162	69	109

Creation date: 30th Jan 2024

**ATS**

**Data sources** 1 1

	Commits	Issues	Reviews
<b>Items</b>	20854	2158	9082
<b>Authors</b>	569	339	304

Creation date: 29th Jan 2024



We regret to inform you that as of **May 15**, we will shut down our [Support forum](#). For any inquiries regarding the usage of Cauldron, please reach out to us at [contact@cauldron.io](mailto:contact@cauldron.io) or open an issue in our [GitLab issue tracker](#).

# ATS



Fork report

## Report information

Repositories: 2. Git: 1. GitHub: 1. Running: 0

Data from some repositories have not been refreshed since April 28, 2024. [Refresh all data sources](#)

Summary

Activity

Community

Performance

Repos

CHAOS

More details

Select a repository...

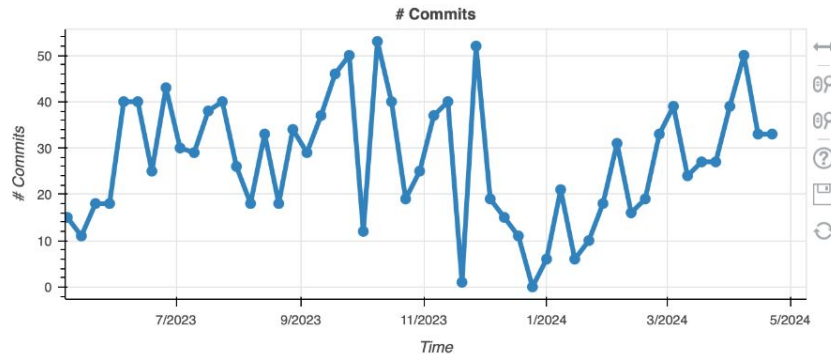
Apply filter

2023-05-08 - 2024-05-08



### Activity

	Commits	Issues	Reviews
Total	20854	2158	9082
Total (Last year)	1394	335	1270
Year-over-year	64.58 %	101.81 %	84.33 %



### Number of commits

Number of commits is the most common measure of activity in a git repository. To

compute it, we're considering all commits in all branches of all repositories in the report



NOT Empty Commits + Add filter

**Welcome**

# Public Overview Dashboard

This dashboard shows basic figures for git and Github data. There are more [public dashboards](#) available

If you want to create your own dashboards, join [Cauldron](#)

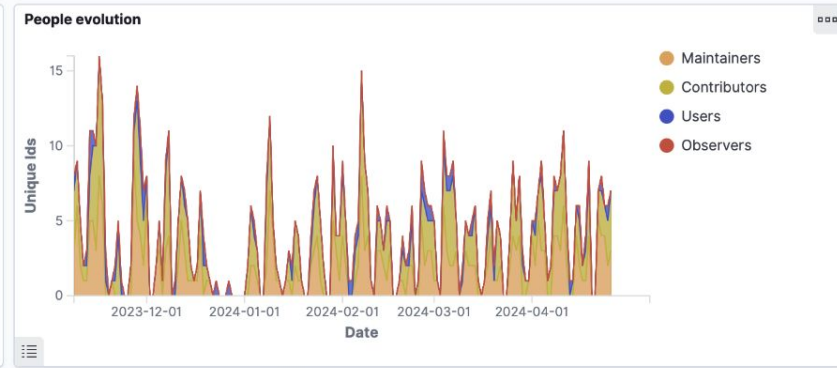
If you need any help with this dashboard or Cauldron in general, join [the Cauldron community](#) and feel free to ask

**People**

**30**  
Maintainers - Unique Ids

**30** **31**  
Contributors - Unique Ids Users - Unique Ids

**0**  
Observers - Unique Ids



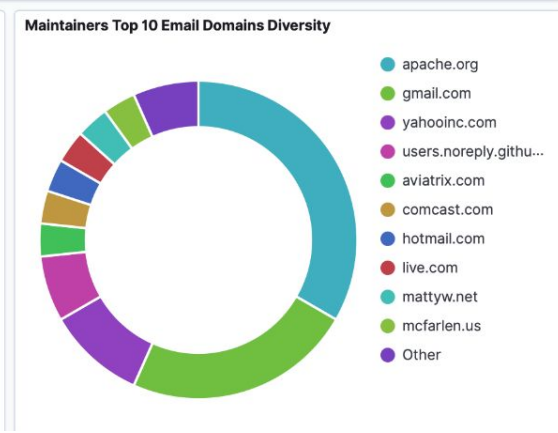
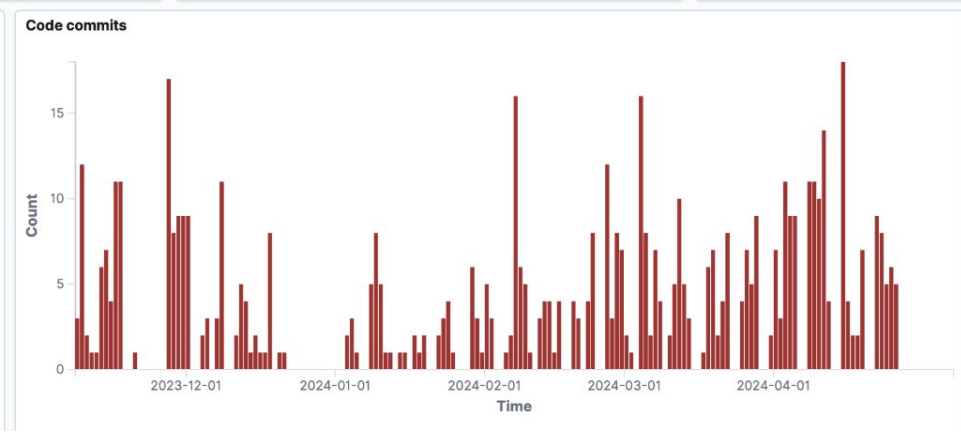
**Code Activity**

**1**  
# Repositories

**588**  
Code commits

**163,948**  
Added LoC

**147,061**  
Removed LoC





Select GitHub repos or orgs:

https://github.com/apache/trafficserver x

Search

Help

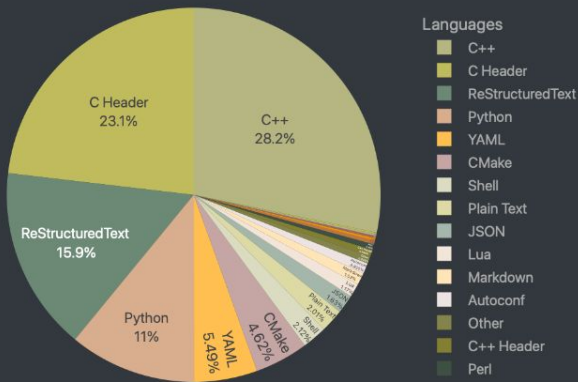
Repo List

GitHub Bot Filter

Data Ready

# Search Bar Populated Analysis

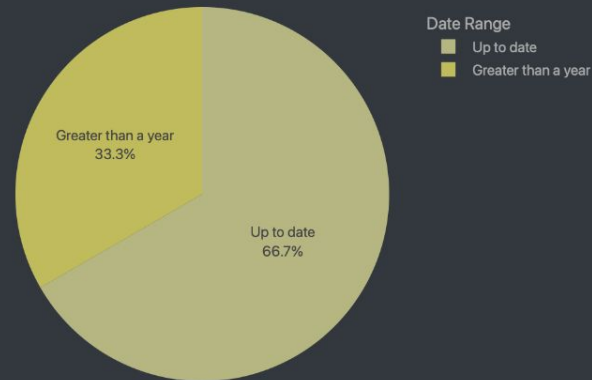
## File Language by File



Graph View:  Files  Lines of Code

About Graph

## Package Version Updates



About Graph



## OSSF Scorecard

Check Type	Score
Aggregate Score	7.2
Binary-Artifacts	9
Branch-Protection	8
CI-Tests	10
CI-Best-Practices	0
Code-Review	10
Contributors	10
Dangerous-Workflow	10
Dependency-Update-Tool	0
Fuzzing	10
License	10
Maintained	10
Packaging	-1
Pinned-Dependencies	0
SAST	7
Security-Policy	10
Signed-Releases	-1

## Repo General Info

Section	Info
License	Apache License 2.0
Code of Conduct	File found
Contributor Guidelines	File found
Security Policy	File found
Number of Releases	0
Last Release Date	No Releases Found
Avg Time Between Releases	No Releases Found
Star Count	1727
Fork Count	777
Watcher Count	166
Issues Enabled	True