



CHAOSS & AUGUR



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Initiative ©



D&I Event Badging

Free for Communities

Brings together metrics and software

<https://chaoss.community/diversity-and-inclusion-badging/>

The screenshot shows the CHAOS website with a navigation bar at the top. The main content area features a heading for the 'Diversity & Inclusion Event Badging Form'. Below the heading, there is a section about the goal of the program, followed by a 'Motivation to Apply' section. At the bottom, there is a 'Before You Start' section with links to additional information.

CHAOS

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The Badging Program is new, launching in September of 2020. While we hope to have worked out many of the details, please help us as we work through the process. We suggest that you submit a badging request at least two months prior to your event so that we can provide a timely and thoughtful review. We really hope to improve diversity and inclusion efforts for everyone!

Diversity & Inclusion Event Badging Form

Thank you for showing interest in D&I Badging for your event! The Event Badging section of CHAOS Badging is about measuring inclusivity of different technical events through human reviews.

The goal of the Diversity & Inclusion Badging Program is to encourage events to obtain D&I badges for reasons of leadership, self-reflection, and self-improvement on issues critical to building the Internet as a social good.

Motivation to Apply

The primary motivation to apply for a CHAOS D&I Badge is the badge itself! The awarded event can show the open source community that they foster healthy D&I practices with a CHAOS badge.

[D&I Badging](#)

Applying for a badge supports D&I efforts within an open source community by expressing that your event is willing to improve the ways the work. These efforts can have affects to D&I practices in your event and even outside of your project space.

Before You Start

For additional information, please visit the official [CHAOS D&I Badging Repository](#)

In order to submit an application for a project, review the following documents:

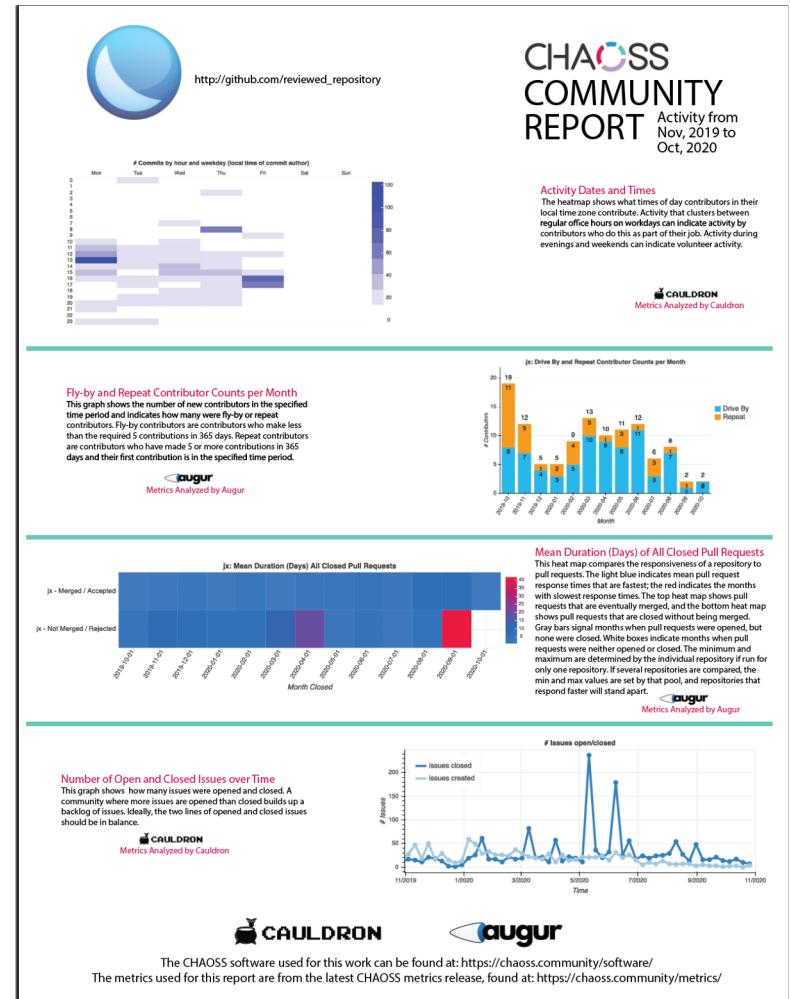
- [Applicant role](#) - This document describes the GitHub permissions and the responsibilities of a CHAOS Badging Applicant.
- [Event submission requirements](#) - Minimum requirements for a Event to be eligible for participation in CHAOS Badging process.
- [Event submission guidelines](#) - Guidelines and steps on how a Event can gain a badge under the CHAOS Badging program.

Community Health Reports

Free for Communities

Brings together metrics and software

<https://chaoss.community/community-reports/>

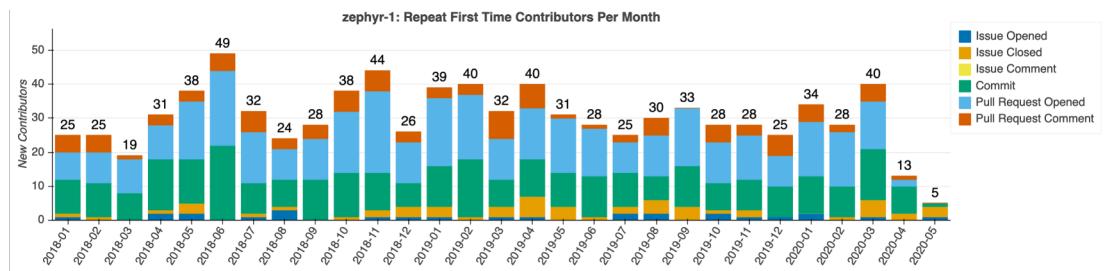




<https://github.com/chaoss/augur>

<https://github.com/chaoss/augur-community-reports>

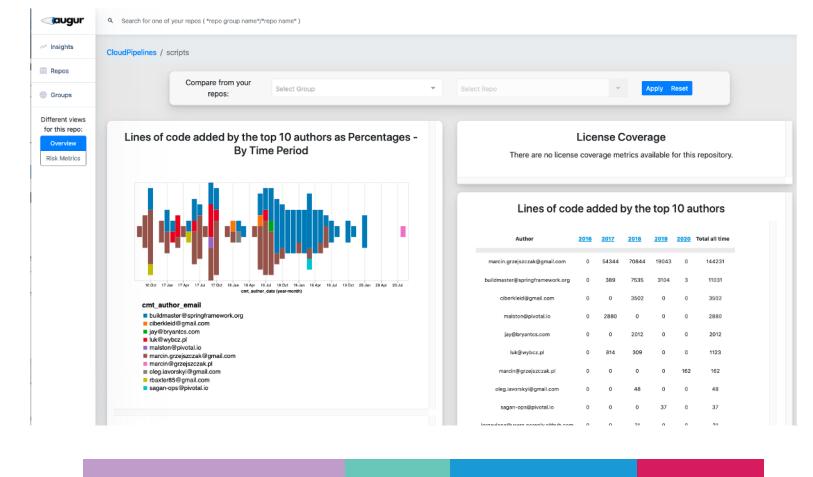
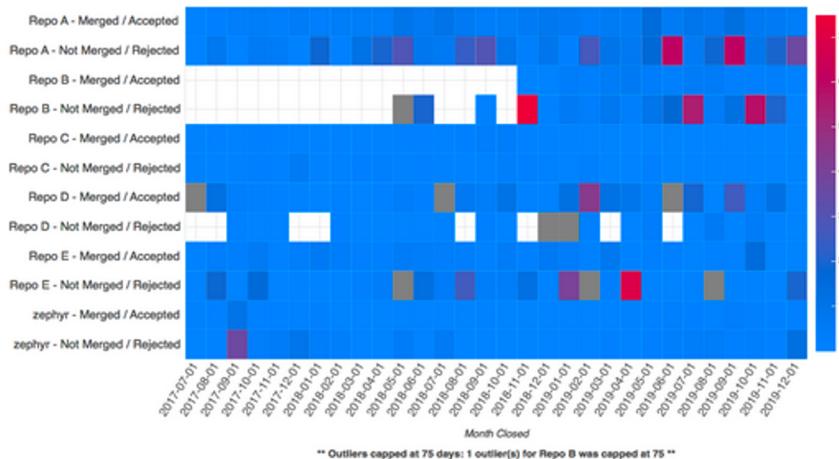
<http://www.augurlabs.io>

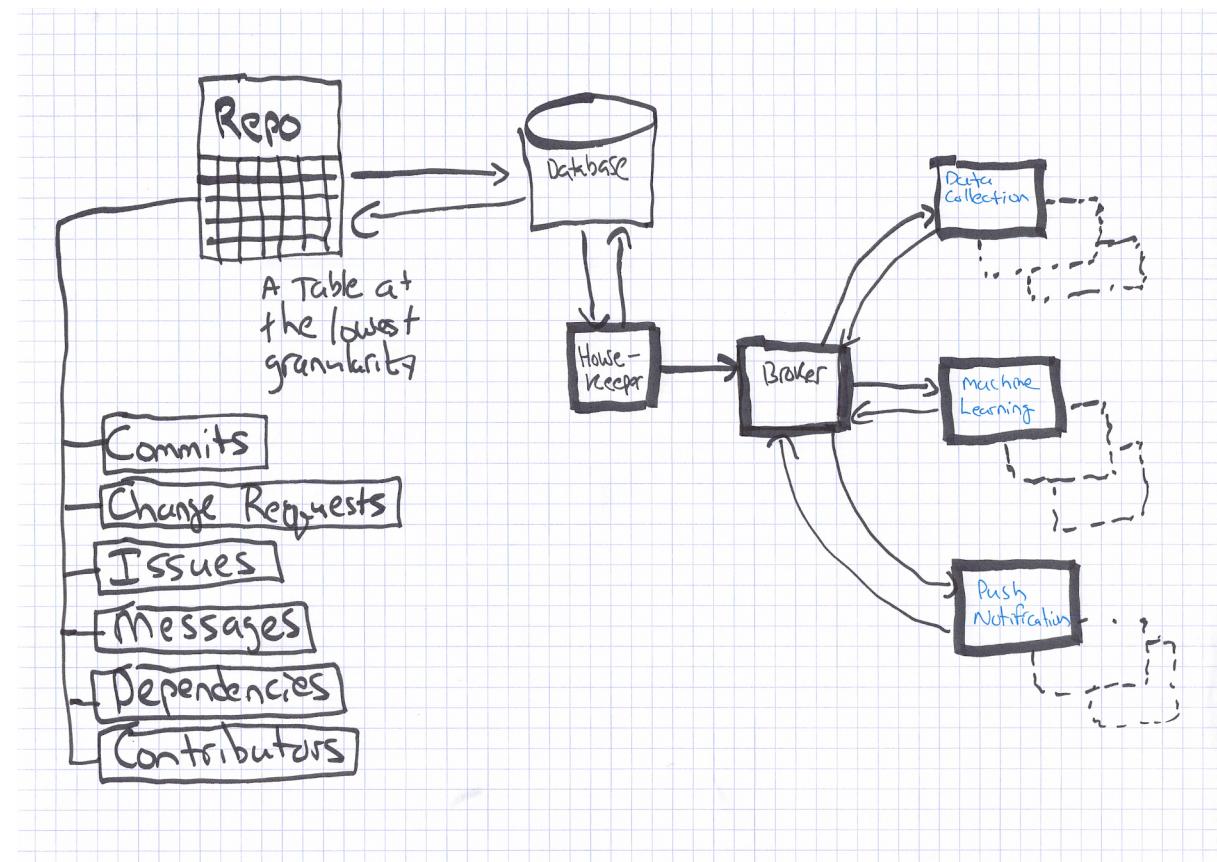


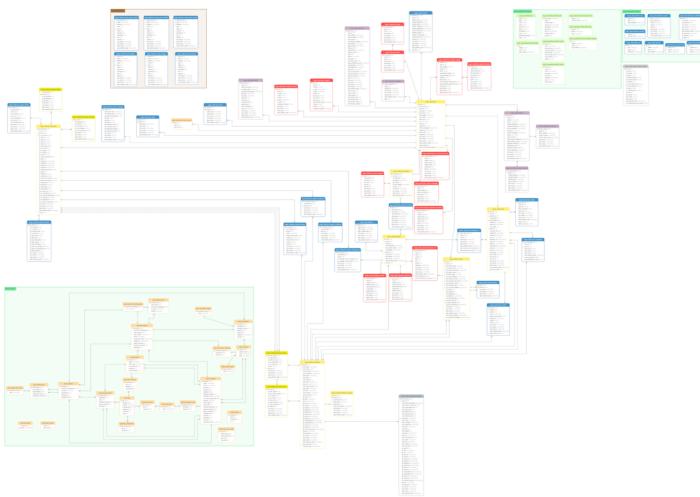
This graph shows repeat contributors in the specified time period, and indicates the kind of contribution they made. Repeat contributors are contributors who have made more than one contribution to the repository and their first contribution is in the specified time period. New contributors are individuals who make their first contribution in the specified time period.

Other RTOS Repositories: Mean Days to First Response for Closed Pull Requests

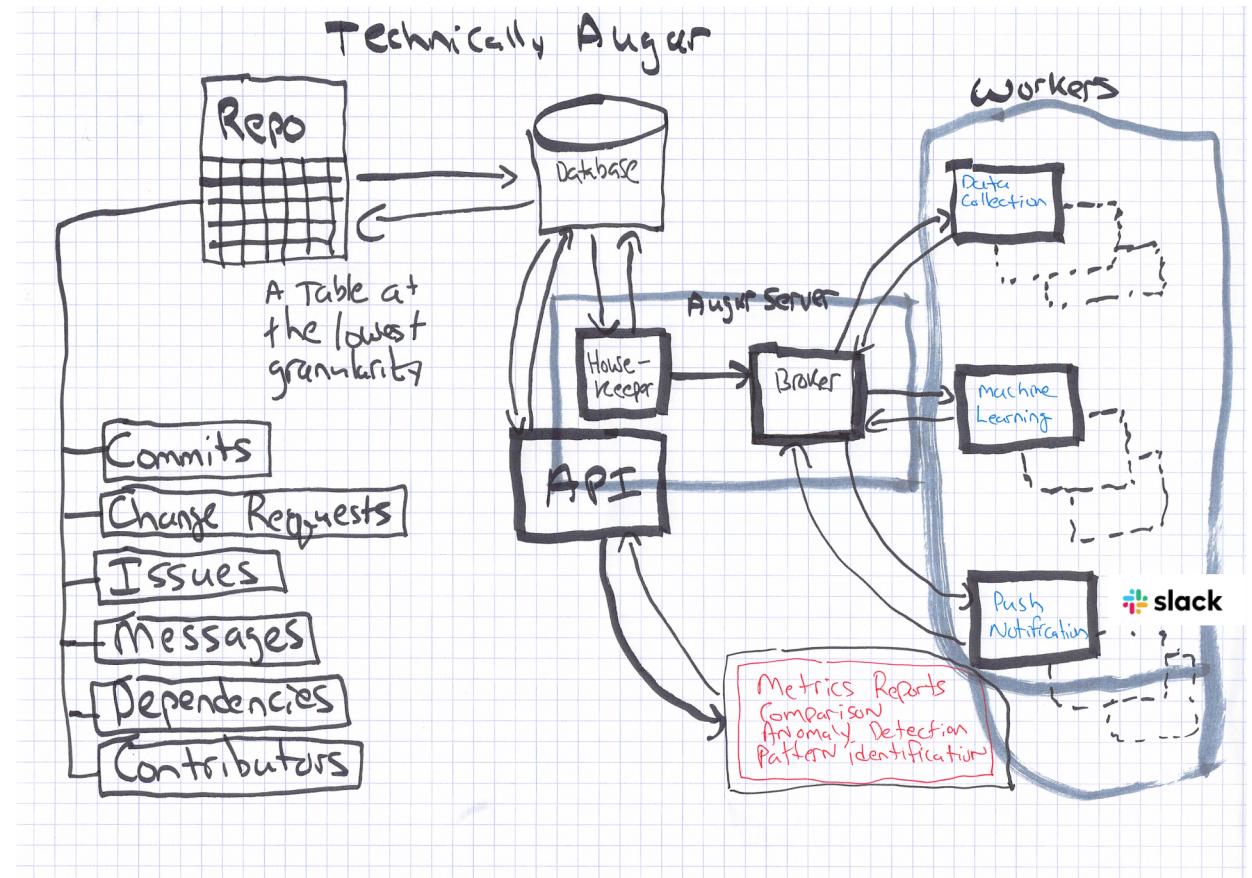
Some Internal Slowing, But Outperforming Other Repositories

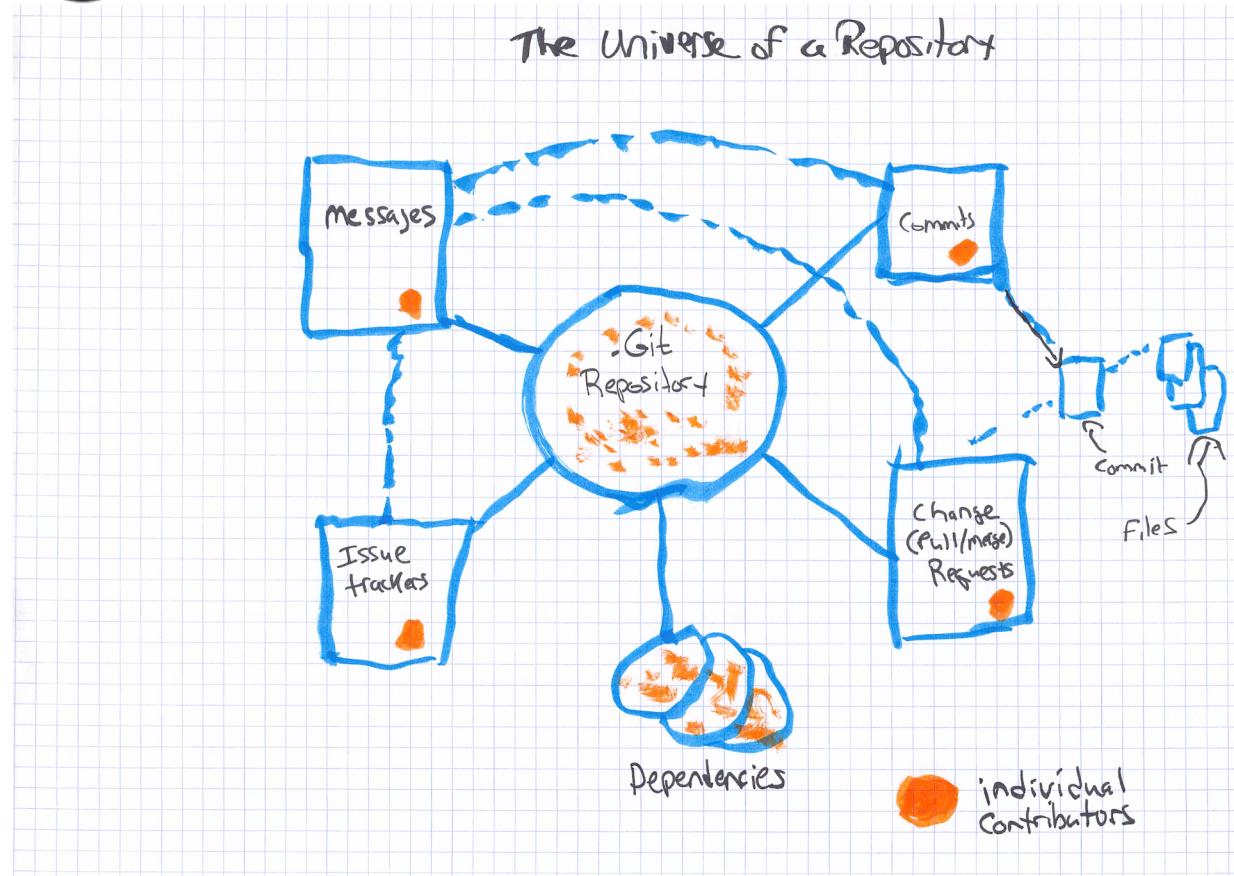


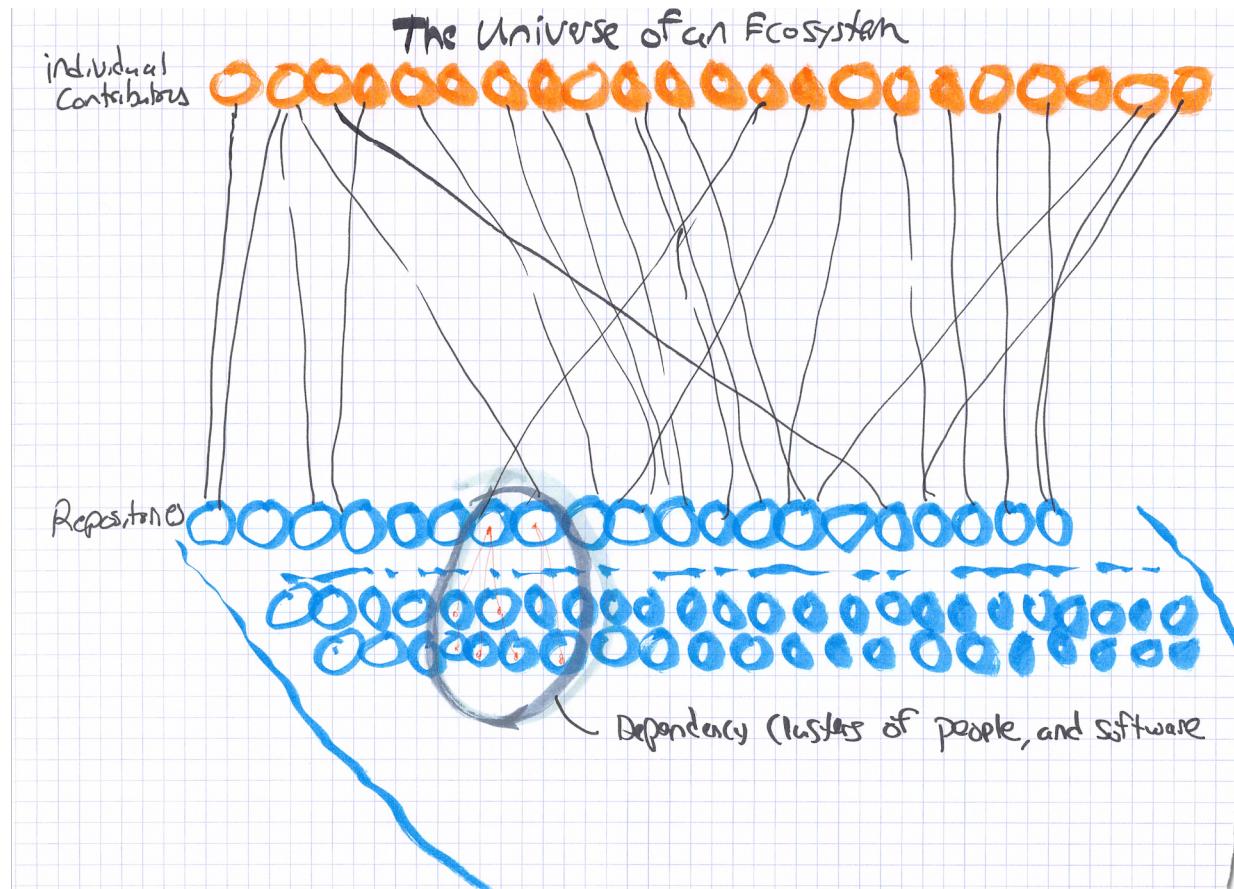




CHAOS



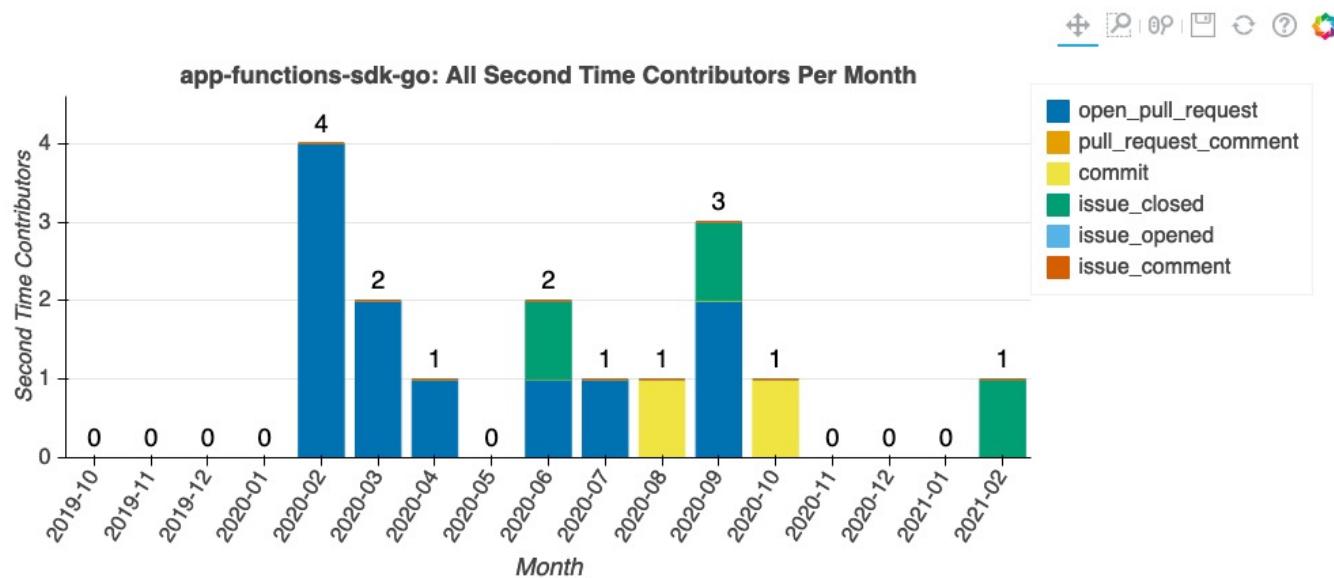




Augur Workers

- **Data Collection Workers**
 - Contributor Breadth Worker
 - Façade Worker
 - Github Worker (Issues)
 - Gitlab_issues_worker
 - Linux_badge_Worker
 - Pull_request_worker
 - Gitlab_merge_request_worker
 - Release_worker
 - Repo_info_worker
- **Analysis Workers**
 - Contributor Worker
 - Identity resolution for contributors
 - Value worker
 - Calculates LOC, programming language, and program complexity for each file in a repository
- **Machine Learning Works**
 - Clustering Worker
 - Discourse Analysis Worker
 - Insight Worker
 - Message_insights_worker
 - Pull_request_analysis_worker

Signals of a Welcoming Project: Getting that Second Time Contributor

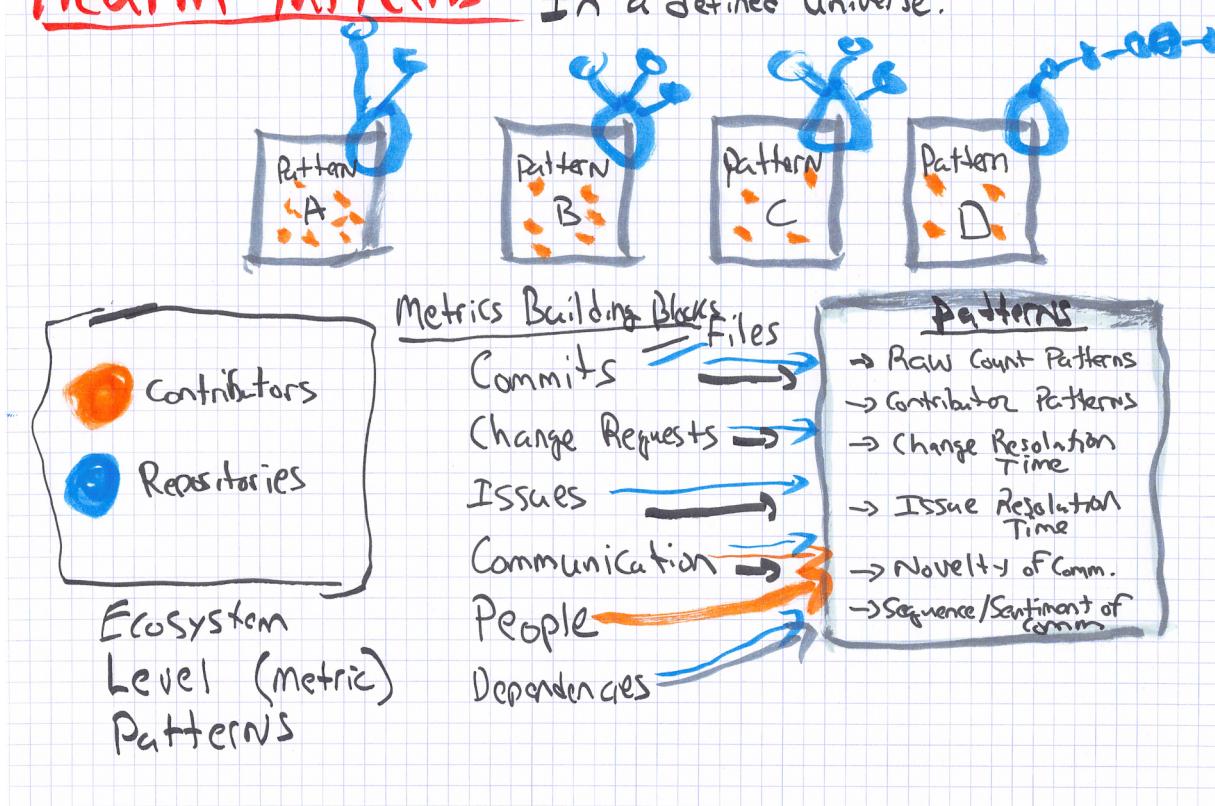


This graph shows the second contribution of all first time contributors in the specified time period.

This is for one repository, but analysis could be performed across a larger set of repositories.



Health Patterns



Message Analysis:

- Sentiment
- Novelty
- High Activity
- Highly Active, negatively balanced threads

Discourse Analysis

- The Type of Communication (Question, answer, assertion, announcement, support, agreement, etc.)
- Sequence of Communication

Message Clustering

- Similar Repository message patterns

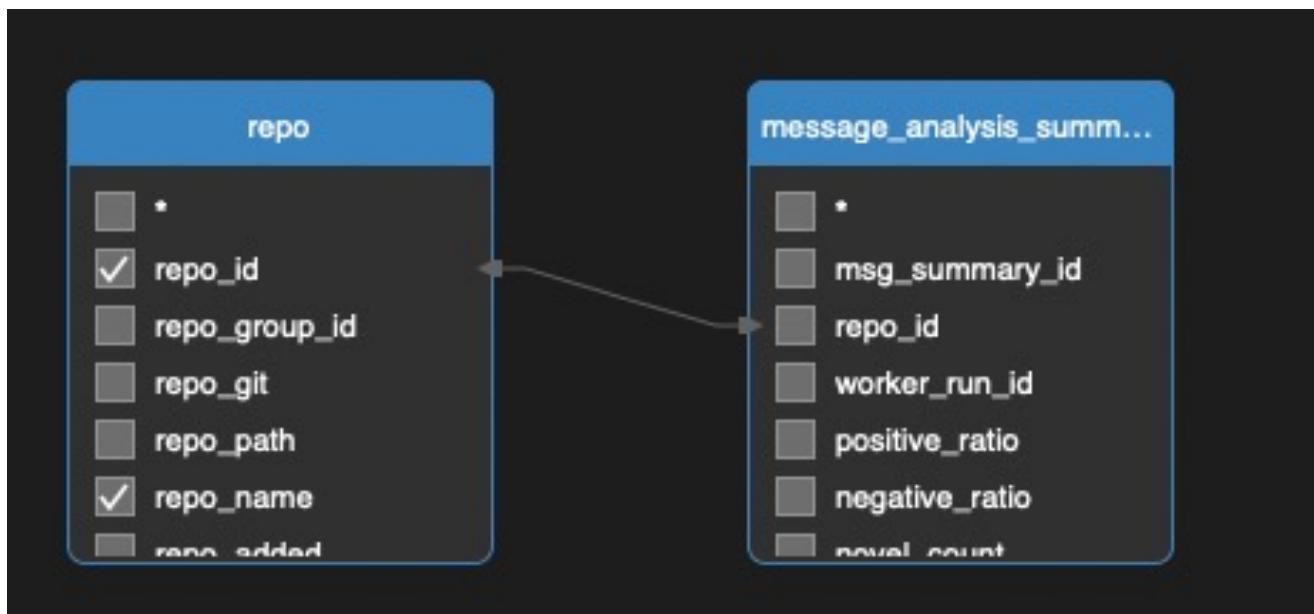


Identifying Toxic Messages with Augur

Characteristics of Toxic Messages or Chains

- Message Analysis:
 - - Sentiment
 - - Novelty
 - - High Activity
 - - Highly Active, negatively valanced threads

Valanced Messages



Scientific Repositories

- Monthly

Repositories among a collection of 2,200 scientific open source projects with recent, negatively balanced imbalanced messaging

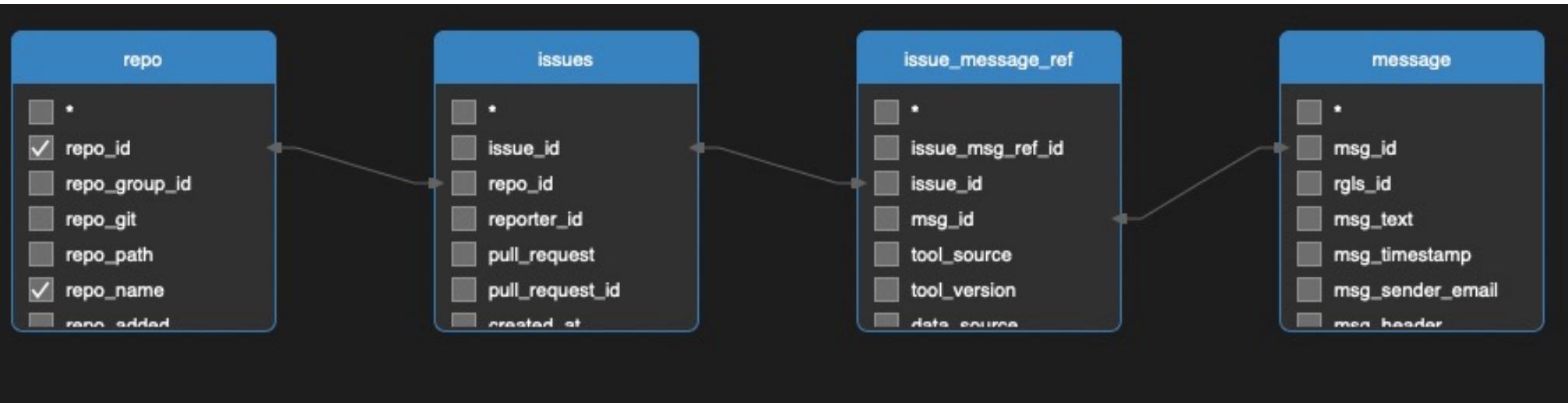
repo_id	repo_name	message_month	negative_ratio	positive_ratio	novelty_ave	repo_id(1)	repo_name(1)	message_month(1)	issue_message_coun
25997	bokeh	12/1/20 0:00	0.128205128	0.12820513	1	25997	bokeh	12/1/20 0:00	141
26112	numpy	11/1/20 0:00	0.13897281	0.1570997	19	26112	numpy	11/1/20 0:00	58
ASPIRE-						ASPIRE-			
26022	Python	11/1/20 0:00	0.112280702	0.0748538	1.5	26022	Python	11/1/20 0:00	88
26139	OpenRefine	10/1/20 0:00	0.564102564	0.01282051	2	26139	OpenRefine	10/1/20 0:00	51
26061	Apollo	10/1/20 0:00	0.291666667	0.191666667	0.5	26061	Apollo	10/1/20 0:00	54
26006	matplotlib	10/1/20 0:00	0.136892666	0.13460375	31.5	26006	matplotlib	10/1/20 0:00	1183
26006	matplotlib	9/1/20 0:00	0.128727738	0.12453731	49.5	26006	matplotlib	9/1/20 0:00	1035
ASPIRE-						ASPIRE-			
26022	Python	9/1/20 0:00	0.083600642	0.0978348	1.5	26022	Python	9/1/20 0:00	130
26117	mrtrix3	9/1/20 0:00	0.070719603	0.06761787	1.5	26117	mrtrix3	9/1/20 0:00	52
26006	matplotlib	8/1/20 0:00	0.13718874	0.13929178	30	26006	matplotlib	8/1/20 0:00	1257

Corporate Repositories

- Monthly

Repositories among a collection of 4,200 corporate open source projects with recent, negatively balanced imbalanced messaging

repo_id	repo_name	message_month	negative_ratio	positive_ratio	novelty_aver	repo_id(1)	repo_name(1)	message_month(1)	issue_message_count
25435	rabbitmq-dotnet-client	1/1/21 0:00	0.175	0.15	2	25435	rabbitmq-dotnet-client	1/1/21 0:00	64
27950	datalog-differential	1/1/21 0:00	0.128947368	0.07894737	0.5	27950	datalog-differential	1/1/21 0:00	57
30833	reactor-core	1/1/21 0:00	0.103146853	0.10104895	1.5	30833	reactor-core	1/1/21 0:00	81
30578	spring-cloud-gateway	1/1/21 0:00	0.083193277	0.10042017	1.5	30578	spring-cloud-gateway	1/1/21 0:00	121
30648	spring-cloud-aws	12/1/20 0:00	0.502764977	0.17004608	1	30648	spring-cloud-aws	12/1/20 0:00	53
28046	velero-plugin-for-vsphere	12/1/20 0:00	0.404654169	0.00420168	0	28046	velero-plugin-for-vsphere	12/1/20 0:00	90



Scientific Issues

- Message Threads with Negative Valancing in Prior Collection

repo_id	repo_name	issue_title	message_month	message_count
25997	bokeh	Add support for Less/CSS to extensions	12/1/20 0:00	5
25997	bokeh	Add support for Tool.description property	12/1/20 0:00	4
25997	bokeh	Add visual tests for Legend annotation	12/1/20 0:00	6
25997	bokeh	Annotation docs edits	12/1/20 0:00	5
25997	bokeh	[BUG] DataTable documentation suggestions	12/1/20 0:00	4
25997	bokeh	[BUG] Jitter caching too aggressively	12/1/20 0:00	4
25997	bokeh	examples/webgl/marker_compare doesn't actually use webgl	12/1/20 0:00	4
25997	bokeh	Implement views for arrow head models	12/1/20 0:00	9
25997	bokeh	Legend by glyph size	12/1/20 0:00	10
25997	bokeh	Make figure a class?	12/1/20 0:00	4
25997	bokeh	Only use SRI hashes in template when available	12/1/20 0:00	9
25997	bokeh	Update Bokeh milestone process	12/1/20 0:00	4
26006	matplotlib	axisartist documentation missing for classes and functions, and has typos	12/1/20 0:00	4
26006	matplotlib	Backport PR #19108 on branch v3.3.x	12/1/20 0:00	7
26006	matplotlib	BLD: sync build and run time numpy pinning	12/1/20 0:00	5
26006	matplotlib	Calling animation from a function	12/1/20 0:00	8
26006	matplotlib	Crash when plotting scatterplot	12/1/20 0:00	4
26006	matplotlib	ENH: allow passing a scale instance to set_scale	12/1/20 0:00	6
26006	matplotlib	Events break in jupyter notebook when calling clear_output()	12/1/20 0:00	8
26006	matplotlib	Examples that use private APIs	12/1/20 0:00	4

Corporate Issues

- Message Threads with Negative Valancing in Prior Collection

repo_id	repo_name	issue_title	Message month	Message count
25435	rabbitmq-dotnet-client	added basic networking benchmarks	1/1/21 0:00	4
25435	rabbitmq-dotnet-client	Consumer dispatcher improvements	1/1/21 0:00	11
25435	rabbitmq-dotnet-client	Reduce close / abort methods in public API	1/1/21 0:00	9
25435	rabbitmq-dotnet-client	Reducing string allocations when reading BasicProperties.	1/1/21 0:00	5
25435	rabbitmq-dotnet-client	Remove Experimental from EventingBasicConsumer doc	1/1/21 0:00	5
25435	rabbitmq-dotnet-client	Simplify connection recovery	1/1/21 0:00	4
25435	rabbitmq-dotnet-client	Simplify recordings in AutorecoveringConnection	1/1/21 0:00	7
25435	rabbitmq-dotnet-client	Structify the FramingImpl methods	1/1/21 0:00	6
27950	differential-datalog	Added ddlog benchmarks	1/1/21 0:00	10
27950	differential-datalog	Hygiene improvements to Mutator	1/1/21 0:00	5
27950	differential-datalog	Replace arc-interner crate with internment.	1/1/21 0:00	18
27950	differential-datalog	Support for ephemeral streams.	1/1/21 0:00	8
27950	differential-datalog	Tests failing on OSX	1/1/21 0:00	5
28046	vsphere	Updated docs to reflect requirement on PodVMs / NSX-T in vSphere with Tanzu	1/1/21 0:00	10
		Update README to point to Backward Compatibility docs		

Now you can direct your inquiry where there's a higher probability of “toxic” messaging.

The screenshot shows a GitHub repository page for `matplotlib/matplotlib`. The main navigation bar includes links for Code, Issues (1.4k), Pull requests (323), Actions, Projects (6), Wiki, Security, and Insights. The Issues tab is currently selected. A prominent red banner at the top of the issue list reads "Now you can direct your inquiry where there's a higher probability of ‘toxic’ messaging." Below this, a specific issue titled "Crash when plotting scatterplot #19058" is shown as closed. The issue was opened by `justingruenberg` on Dec 2, 2020, with 8 comments. The issue details section contains a comment from `justingruenberg` dated Dec 2, 2020, describing a bug where a scatter plot script crashes. It includes a code snippet for reproduction:

```
import matplotlib.pyplot as plt

xs = [1, 2, 3]
ys = [1, 2, float("nan")]

plt.plot(xs, ys)
plt.show() # works as expected, third point (3, NaN) isn't displayed
```

On the right side of the issue page, there are sections for Assignees (No one assigned), Labels (GUI/Qt, OS/Microsoft), Projects (None yet), and Milestone (No milestone).

Additional Analysis to Release

- Discourse Analysis
 - - The Type of Communication (Question, answer, assertion, announcement, support, agreement, etc.)
 - - Sequence of Communication
- Message Clustering
 - - Similar Repository message patterns
- Combining Multiple Models for Better Identification and Notification