



What are all these metrics telling me?

August 20, 2019



# Agenda

- Community metrics at our disposal
- What makes sense for my community?
- Do these metrics still make sense?
- Our job as a community manager



## Evolution

Evolution Repository: <https://github.com/chaoss/wg-evolution>

Scope: Aspects related to how the source code changes over time, and the mechanisms that the project has to perform and control those changes.

### Focus Area - Code Development

**Goal:**

Activity - Learn about activity involved in changing (or adding) code.

Question: How many **changes** are happening to the source code, during a certain time period?

Metric	Question
<a href="#">Code Changes</a>	What changes were made to the source code during a specified period?
<a href="#">Code Changes Lines</a>	What is the sum of the number of lines touched (lines added plus lines removed) in all changes to the source code during a certain period?

Question: How many **reviews** to proposed changes to the source code are happening during a certain time period?

Metric	Question
<a href="#">Reviews</a>	What new review requests for changes to the source code occurred during a certain period?
<a href="#">Reviews Accepted</a>	How many accepted reviews are present in a code change?
<a href="#">Reviews Declined</a>	What reviews of code changes ended up declining the change during a certain period?

Question: How many **issues** related to the source code are happening during a certain time period?

Metric	Question
<a href="#">Issues New</a>	What are the number of new issues created during a certain period?
<a href="#">Issues Active</a>	What is the count of issues that showed activity during a certain period?
<a href="#">Issues Closed</a>	What is the count of issues that were closed during a certain period?

**Goal:**

Efficiency - Learn how effective new code is merged into the code base.

Question: How efficient is the project in **reviewing** proposed changes to the code, during a certain time period?

Metric	Question
<a href="#">Reviews Accepted</a>	How many accepted reviews are present in a code change?
<a href="#">Review Duration</a>	What is the duration of time between the moment a code review starts and moment it is accepted?

## Risk

Risk Repository: <https://github.com/chaoss/wg-risk>

### Focus Area - Business Risk

**Goal:**

Understand how active a community exists around/to support a given software package.

Metric	Question
<a href="#">Elephant Factor</a>	What is the distribution of work in the community?
<a href="#">Committers</a>	How robust and diverse are the contributors to a community?

### Focus Area - Code Quality

**Goal:**

Understand the quality of a given software package.

Metric	Question
<a href="#">Test Coverage</a>	How well is the code tested?

### Focus Area - Licensing

**Goal:**

Understand the potential intellectual property(IP) issues associated with a given software package's use.

Metric	Question
<a href="#">License Count</a>	How many different licenses are there?
<a href="#">License Coverage</a>	How much of the code base has declared licenses?
<a href="#">License Declared</a>	What are the declared software package licenses?

### Focus Area - Transparency

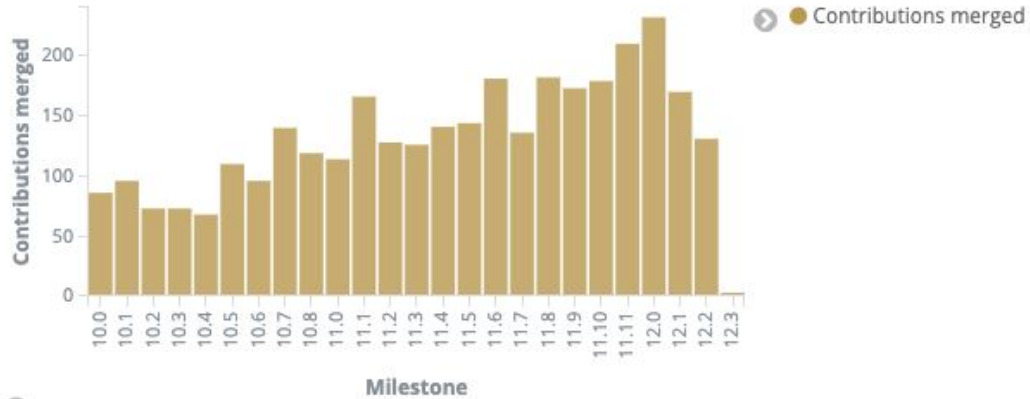
**Goal:**

Understand how transparent a given software package is with respect to dependencies, licensing (?), security processes, etc.

Metric	Question
<a href="#">Bill of Materials</a>	Does the software package have a standard expression of dependencies, licensing, and security-related issues?

# My early days at GitLab...

Contributions merged per milestone



Milestone numbers

Milestone	Merge Requests	Submitters	Repositories	Median Open Days
11.0	114	42	4	3.01
11.1	166	53	5	2.005
11.2	128	56	6	3.01
11.3	126	64	5	3.36
11.4	141	70	5	3.78
11.5	144	63	5	2.88
11.6	181	78	6	4.305

Submitter	Merge Requests	Repositories	Avg. Open Days
George Tsiolis	332	9	14.202
Takuya Noguchi	264	12	29.897
Marcel Amirault	257	7	6.959
Vitaliy Klachkov	219	4	6.942
Ben Bodenmiller	149	8	25.66
Jasper Maes	127	2	2.348
Jacopo Beschi	100	3	16.005
Winnie Hellmann	98	2	29.478
gfyong	70	2	3.369
Robert Schilling	66	3	15.32

# Community members led me to...



But, I'm not a Ruby expert...

My reasons for repeat contributions are...

Who can I contact for questions (or escalations)?

Is it OK for me to contact the reviewer(s)?

What can I work on/ contribute?

It'd be nice to feel like a community member (vs. a contributor)...

Some reviewers are responsive, but...

# Top Annual Contributors

As an open source project, GitLab has thousands of contributions from the wider community. This page will highlight top contributors starting with 2018.

## 2018 top contributors

Number of wider community contributors: 443

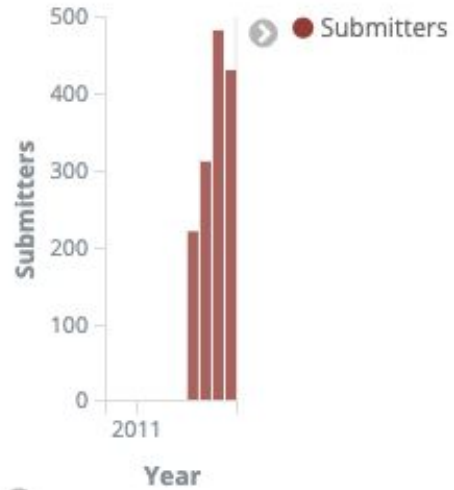
Number of merged MR's: 1,517

Category*	Contributors	Merged MRs
🌟 SuperStar	George Tsiolis	226
🌟 SuperStar	Vitaliy Klachkov	117
🌟 SuperStar	Jasper Maes	109
🌟 SuperStar	Takuya Noguchi	88
⭐ Star	gfyoun	63
⭐ Star	Jacopo Beschi	53
⭐ Star	Marcel Amirault	50
⭐ Star	Ben Bodenmiller	49
⭐ Star	Praveen Arimbrathodiyil	25
⭐ Star	Semyon Pupkov	24
⭐ Star	Jan Beckmann	18
⭐ Star	Johann Hubert Sonntagbauer	15
⭐ Star	Tao Wang	12
👤 Enthusiast	Alexis Reigel	9
👤 Enthusiast	Matthias van de Meent	9
👤 Enthusiast	Maxime	7
👤 Enthusiast	Riccardo Padovani	7
👤 Enthusiast	Edwin Torres	6
👤 Enthusiast	Elan Ruusamäe	6
👤 Enthusiast	J.D. Bean	6
👤 Enthusiast	Jamie Schembri	6
👤 Enthusiast	Marc Schwede	6
👤 Enthusiast	Robert Schilling	6

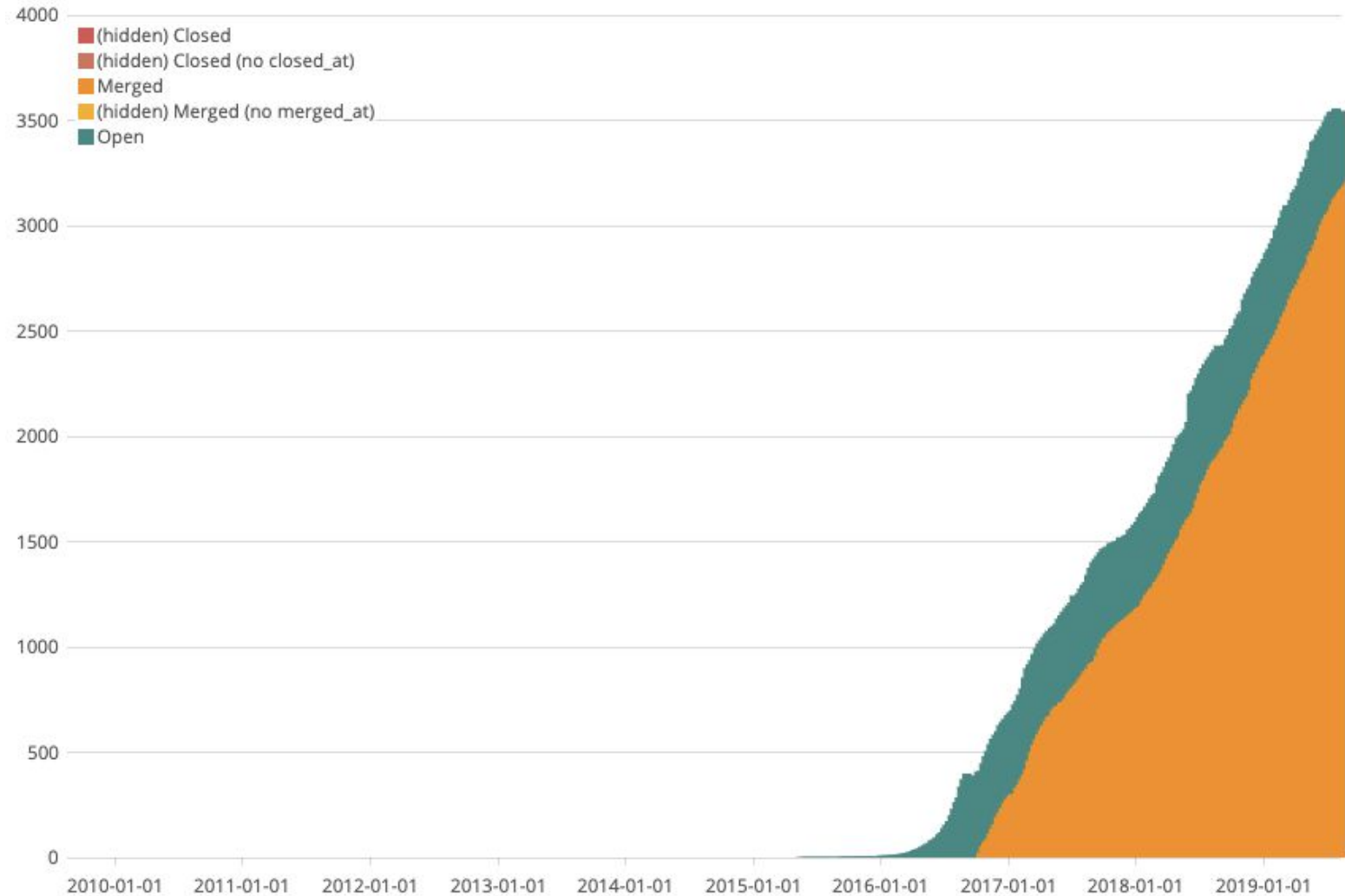
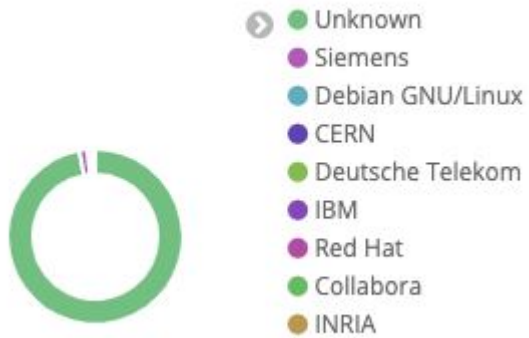
# Areas of focus today...



Community Contributors (yearly)



Submissions by Organization



# Things I try to keep in mind



Expect fluctuations

CONTEXT  
MATTERS



This sometimes will happen...

We become leaders the day we decide to help people grow, not numbers.

Simon Sinek