

Community Health Analytics Open Source Software

-  <https://chaoss.community/>
-  <https://github.com/chaoss>
-  @chaossasia



Hi, I'm Divya!

- Principal Technology Advocate @ SUSE
- Kubernetes Maintainer (Docs)
- Co-chair for WebAssembly community @ Bytecode Alliance
- Regional Lead for CHAOSs Asia



Divya Mohan

SUSE

@Divya_Mohan02

What is CHAOSS?



CHAOSS

This is chaos.

But we are CHAOSS.

(The extra S makes all the difference.)

Photo by [Markus Spiske](#) on [Unsplash](#)



Community
Health
Analytics
Open
Source
Software



CHAOSS is:

- Part of the Linux Foundation
- Funded by grants from Sloan and Ford Foundations
- Globally distributed with 2000 members in Slack
- A super fun place to spend your time



CHAOSS is not:

- Concerned with physical health (like vaccines)
- A for-profit organization
- Mandated to take any action
- Able to only accept code contributions



We care about open source community health

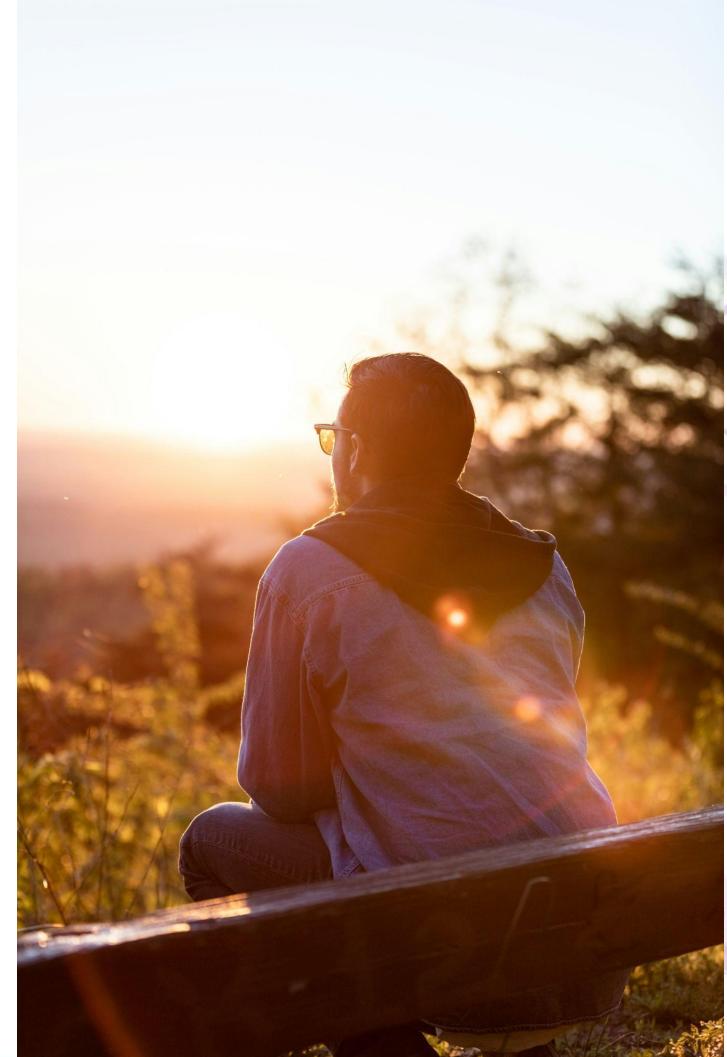
Healthy open source communities:

- More **sustainable**
- Better center **Diversity, Equity, Inclusion**
- **Less risky** to depend on
- Have a better chance of receiving **financial support**
- **Better for everyone** - contributors, companies, foundations, maintainers, users



We spend a lot of time thinking about:

- How to **define** components of “open source community health”
- How to **track and measure** those components
- How to **collect data** to track and measure
- How to **interpret** the collected data
- How to include folks from different contexts and perspectives to **broaden our understanding**
- How to help others **broaden their understanding**
- Our **own community health**



CHAOSS has a lot of moving parts

- **Context Working Groups**
 - Metric and Metric Model Development
 - Operational Working Groups
 - Programs like Badging
 - Software
 - Sub-projects

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Context Working Groups

- Corporate Open Source Program Offices (OSPOs)
- Academic Open Source
- Open Source in Science/Research
- App Ecosystem



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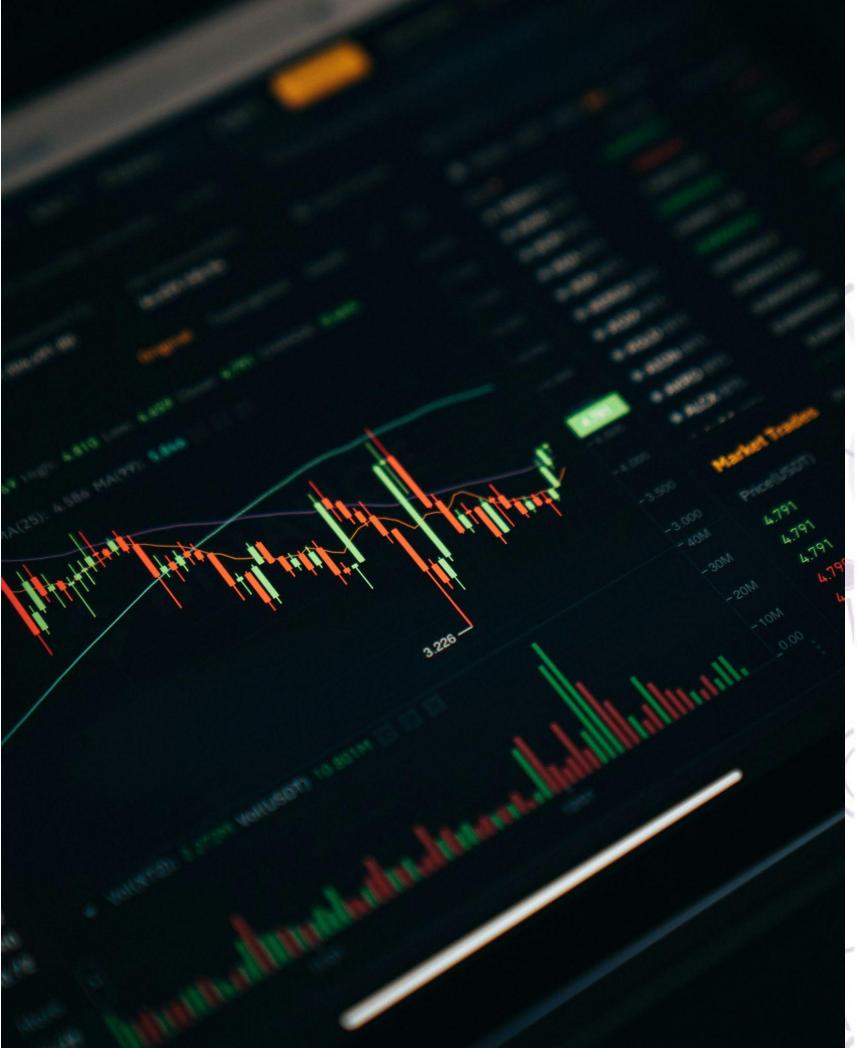
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Metrics and Metrics Models

- Metrics Development Working Group
- Metrics Models Working Group
- DEI Working Group
- Data Science



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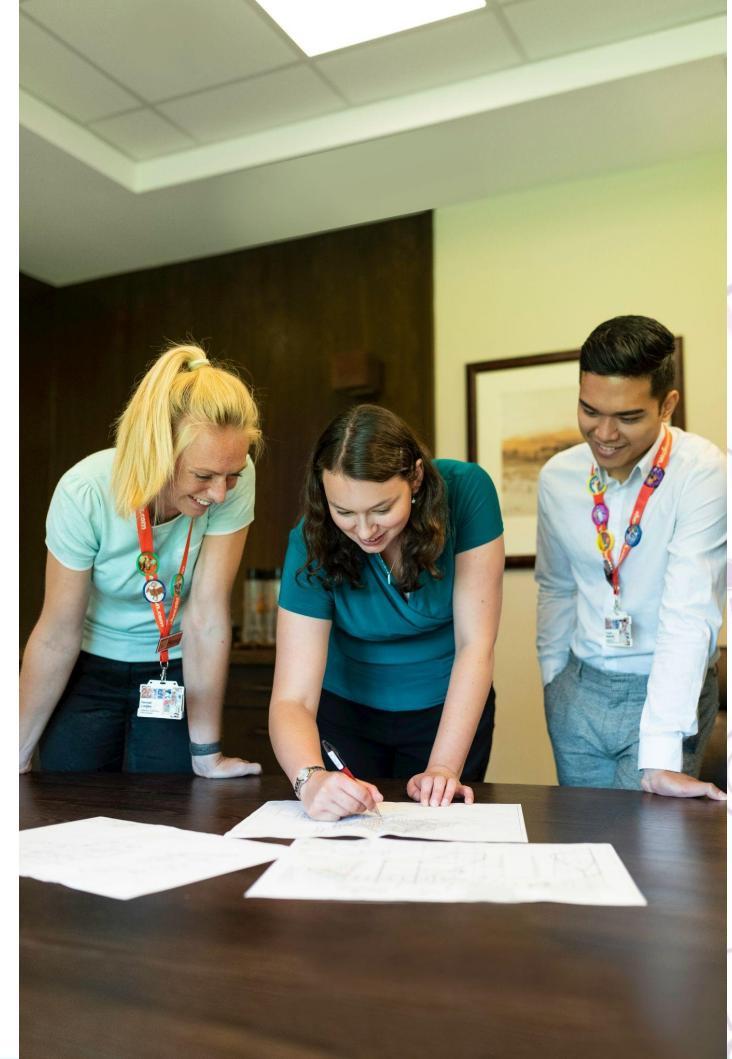
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Operational Working Groups

- Website
- Design
- Community Managers
- Project Managers
- Technical Writers
- Chapters (CHAOSS Africa, CHAOSS Asia, CHAOSS Latam, CHAOSS Balkans)



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Programs

- DEI Project Badging
- DEI Event Badging



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Software

- Augur / 8-Knot from Red Hat
- GrimoireLab

```
//fires the appear event when appropriate
var check = function() {
    //is the element hidden?
    if (!t.is(':visible')) {
        //it became hidden
        t.appeared = false;
    }

    //is the element inside the visible window?
    var a = w.scrollLeft();
    var b = w.scrollTop();
    var o = t.offset();
    var x = o.left;
    var y = o.top;

    var ax = settings.accX;
    var ay = settings.accY;
    var th = t.height();
    var wh = w.height();
    var tw = t.width();
    var ww = w.width();

    if (y + th + ay >= b &&
        y <= b + wh + ay &&
        x + tw + ax >= a &&
        x <= a + ww + ax) {
        //trigger the custom event
        if (!t.appeared) t.trigger('appear', settings.data);
    } else {
        //it scrolled out of view
        t.appeared = false;
    }
};

//create a modified fn with some additional logic
var modifiedFn = function() {
    //mark the element as visible
    t.appeared = true;
    //is this supposed to happen only once?
    if (settings.one) {
        //remove the check
        w.unbind('scroll', check);
        var i = $.inArray(check, $.fn.appear.checks);
        if (i >= 0) $.fn.appear.checks.splice(i, 1);
    }
    //trigger the original fn
    fn.apply(this, arguments);
};

//bind the modified fn to the element
$(document).one('appear', settings.data, modifiedFn);
$(document).one('appear', settings.data, modifiedFn);
```

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Sub-Projects

- CHAOSScons
- CHAOSScast
- Onboarding Courses
- Newcomer Slackbot
- Accessibility Audit



So like I said. . .



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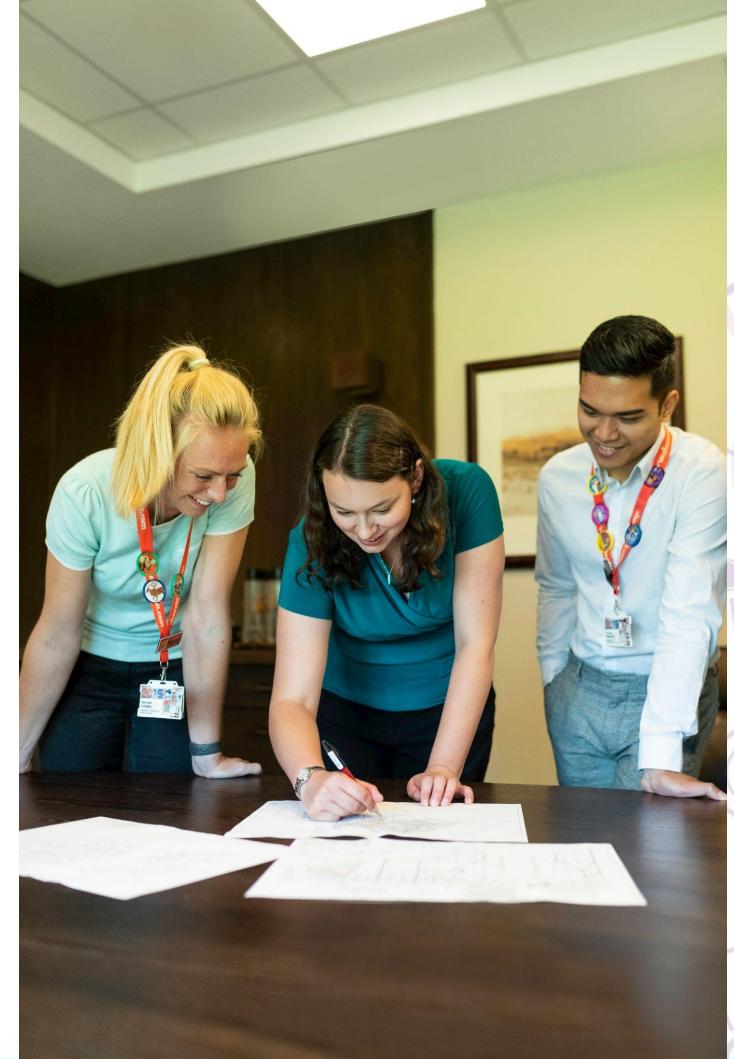
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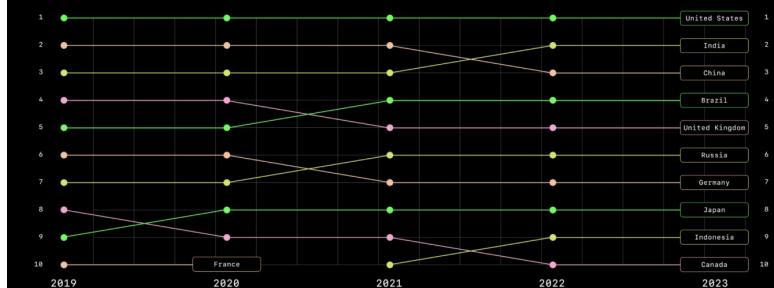
Why CHAOSS Asia?



Some stats

- Asian footprint in the OSS ecosystem is growing
 - 4 Asian countries in top 10 developer communities on GitHub

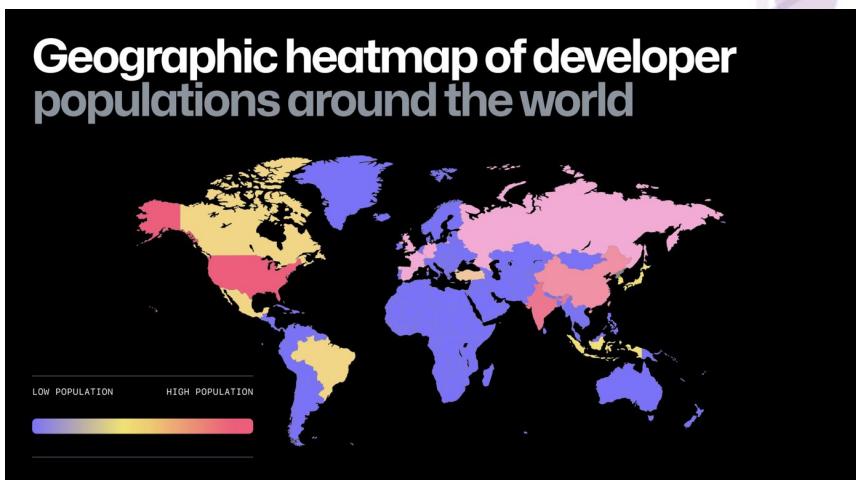
The top 10 developer communities on GitHub from 2019-2023



Source: State of Octoverse report, 2023

Some stats

- Sizeable amount of developer population on GitHub comes from Asia Pacific



Source: State of Octoverse report, 2023

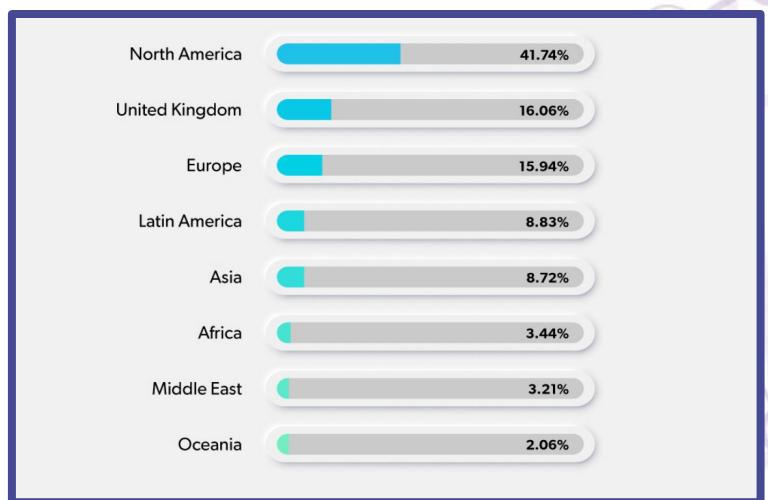
Fun fact: India will match America's developer economy on GitHub by 2026

Source: State of Octoverse report, 2023



However...

- Asian adoption of OSS still has a long way to go



Source: 2023 State of Open Source report, OpenLogic + OSI

However...

- Fragmented data available for analysing overall community growth
- Contributor communities in Asia need encouragement
 - Overcoming regional, linguistic, cultural, and geographical barriers
 - Support for contribution from employers



Country	% of Respondents Paid for FOSS	Total Responses
United States of America	63.8%	174
Germany	58.7%	75
France	37.1%	35
United Kingdom	42.9%	28
Canada	57.1%	21
Netherlands	75.0%	20
India	15.8%	19
China	29.4%	17
Austria	63.4%	11
Brazil	45.5%	11
Japan	45.5%	11
Australia	30.0%	10
Other	43.5%	145

Report on the 2020 FOSS Contributor Survey

Geographic distribution

As the report greatly focuses on the regional differences and similarities in open source trends across the globe, the geographic distribution of the sample deserves special attention. We aimed to gather responses from all parts of the world, but given the Linux Foundation's primary presence in North America and Europe, we received most responses from those regions. A third-party panel provider supported our efforts to gather data from Asia Pacific. 64% of responses from this region came from Japan in order to create a World of Open Source: Japan Spotlight report to be published in December 2023. Three regions that we segment our data on are the Americas, Europe, and Asia Pacific. More detailed distribution within these three regions is summarized in Figure 1.

Source: Global Spotlight 2023, Linux Foundation

What do we aim to do?



CHAOSS Asia goals

- Build a strong and inclusive open source community in Asia
 - Promote collaboration and networking within the Asian open source community
- Measure and celebrate the impact of Asian open source community
 - Define metrics and models for tracking achievements
 - Recognizing and celebrating contributions
- Enable access to tech education and skill development

Our initiatives



Creating a publicly available database of Asian OSS communities

- Why: Community Building is difficult; many communities struggle with the same issues
- Our solution:
 - A publicly available database of all Asian OSS communities
 - A channel for community builders to communicate
 - A list of resources to aid community building

Creating a publicly available database of Asian OSS communities

- Where are we now?
 - GitHub issue opened to crowdsource data
- How can **you** help?
 - Contribute names of OSS communities you know
 - Spread the word
 - Help us build the database (technically)



Creating a safe space for disabled folks from Asia to contribute to OSS

- Why: Navigating the global OSS ecosystem is challenging for the disabled due to fewer accommodations; Asian timezones compound the problem; Cannot contribute in a meaningful way
- Our solution:
 - Creation of a focus group by people with lived experience
 - Empower them to participate in CHAOSS in meaningful ways

Creating a safe space for disabled folks from Asia to contribute to OSS

- Where are we now?
 - GitHub issue opened to source nominations for people to lead the initiative
- How can **you** help?
 - Amplify the message
 - Contribute to the discussion by nominating someone



ISO standardization of CHAOSS metrics and metrics models

- Why: Asia is a services-based economy; Adhering to standards/compliance often required to get funding; Less Asian voices in OSS; less diverse perspectives
- Our solution:
 - Funnel more Asian voices into the ISO standardization initiative
 - Tie in to their requirements

ISO standardization of CHAOSS metrics and metrics models

- Where are we now?
 - Collaborating with JDF
 - Narrowing down of metrics/models to be standardised
 - Re-drafting them into a specific format
- How can **you** help?
 - Amplify the message
 - Join our calls (Link in the resources slide)

Capacity building by partnering with similarly aligned projects, organisations, and events

- Why: OSS is not always code; Fewer Asian voices contribute to less diverse perspectives; Ecosystem stays the same
- Our solution:
 - Partnering with similarly aligned projects, orgs, and events
 - Tap into a diverse pool of contributors across Asia

Capacity building by partnering with similarly aligned projects, organisations, and events

- Where are we now?
 - We're here (and in a few other places across India & Asia)
- How can **you** help?
 - Join the discussion on Slack (link in the resources slide)
 - Help us amplify the word



In summary...



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And we have a LOT of work to do!



Resources



CHAOSS Slack



ISO Standardisation
meeting

Community Health Analytics Open Source Software

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-  <https://github.com/chaoss>
-  @chaossasia



THANK YOU