

Open Project Management

from an “open” perspective

UNIT 2

Instructor: Dr. Bradly Alicea

<http://bradly-alicea.weebly.com>



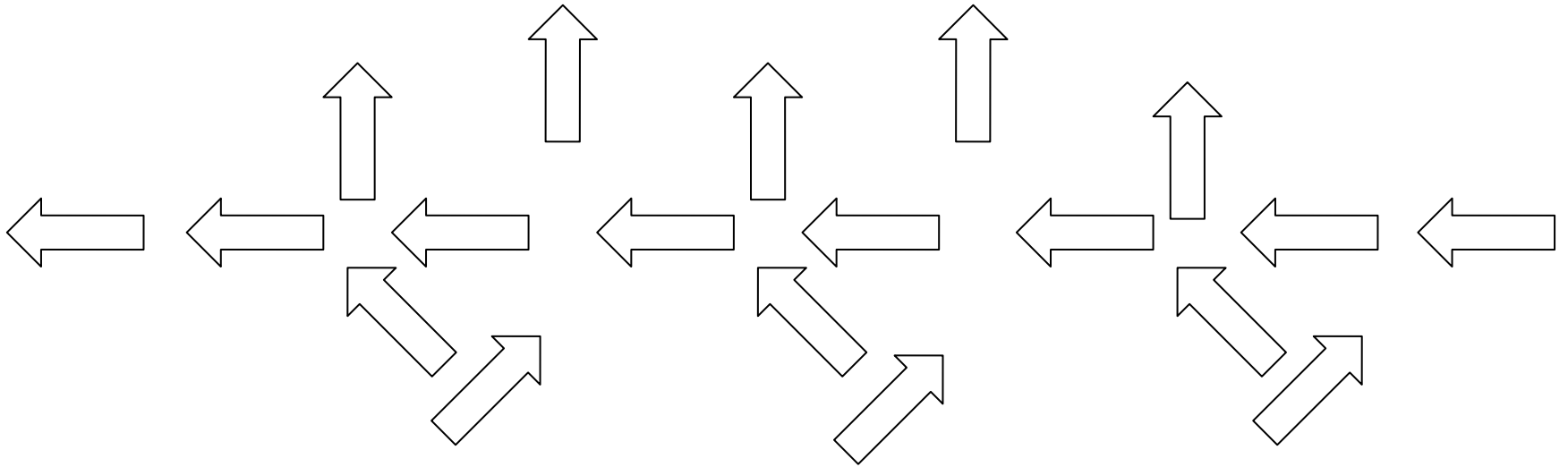
IS 340: Spring 2023

All content



Open Project Management

Welcome Back!



Communicating with Your Community

From Ben Cotton, *Project Management for Open Source Project* book

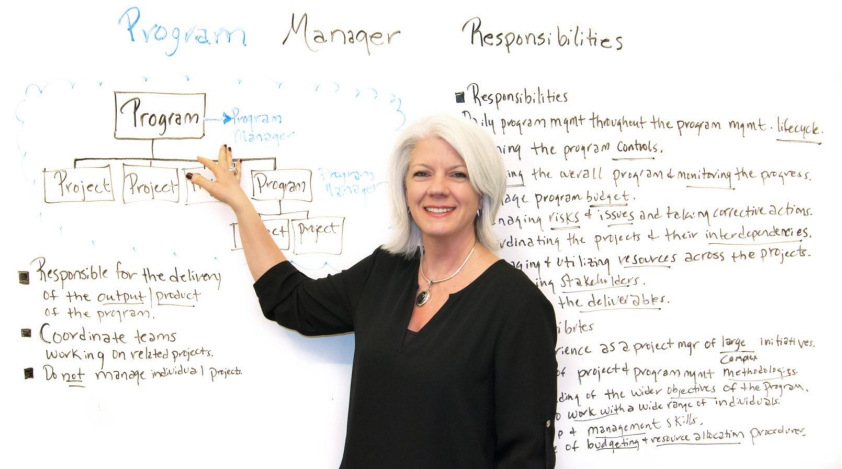
Chapter 3. From the perspective of a program manager.

Understand the nature of trust in your community.

Connect to and with the community.

Build credibility with members of your community.

Build relationships with members of your community.



<https://www.projectmanager.com/training/program-manager-responsibilities>

Communicating with Your Community (con't)

From Ben Cotton, *Project Management for Open Source Project* book

Keep regular tabs on your community's activities (lurking as a means of evaluation).

- Check out activity in Github repos, discussion forums, community mentions in the press.

Centralize Information (Onboarding materials).

- formal onboarding process, Github README, "Start Here".

Provide regular updates to the community.

- Newsletters, blog posts, quarterly reports (state of the project org).

Communicating with Your Community (con't)

Easier to source talent with open-source experience (different skill sets, Maintainers, etc).

Easier to keep your pipeline from becoming “leaky” (people leave).

Help people to get started with a useful and productive experience.

Bring in underrepresented populations and benefit from diverse perspectives.

Fork our open source onboarding program

The open source software team at G-Research is helping establish an easier on-ramp for getting started in open source.

By [Alex Scammon](#) | [Max Mizzi](#)

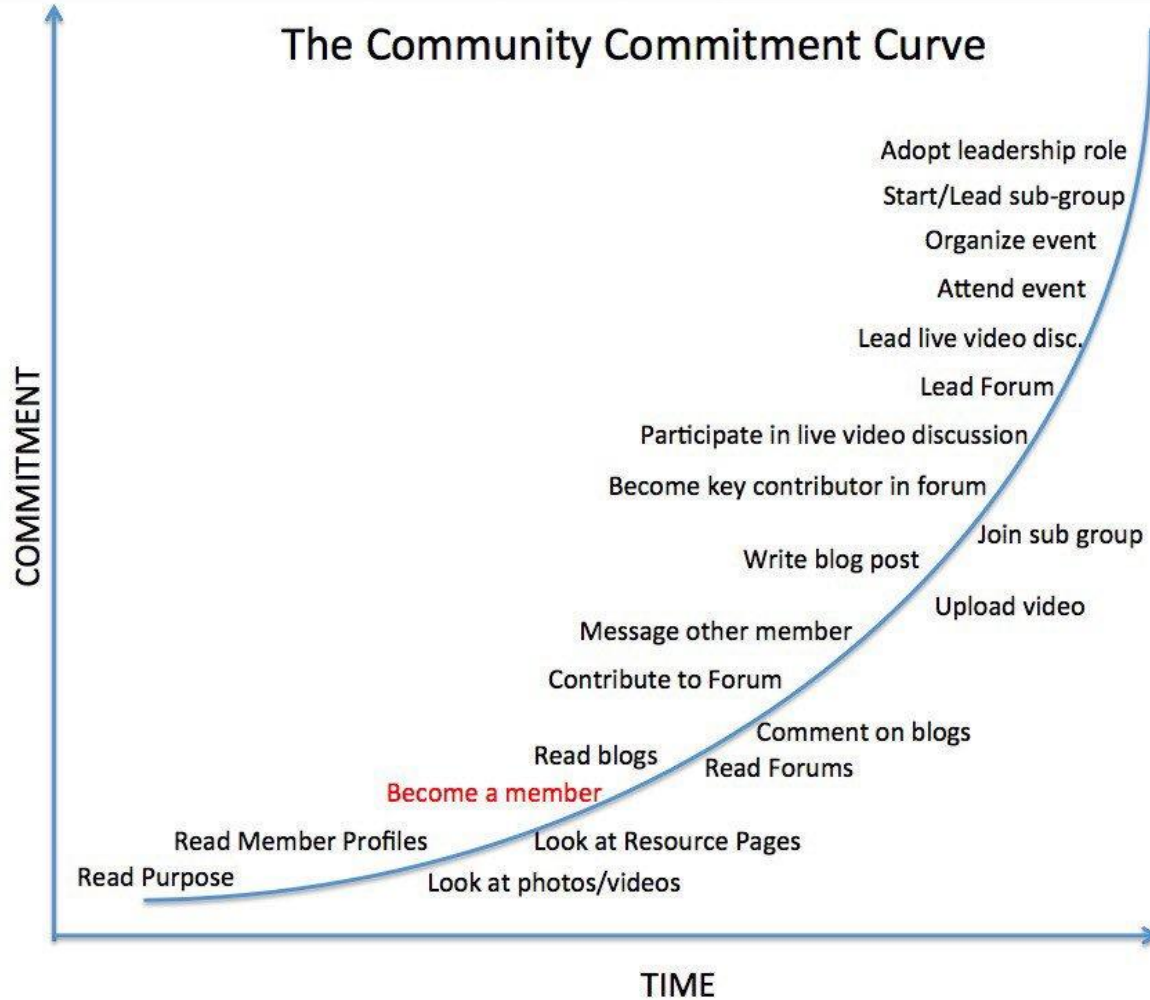
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<https://opensource.com/article/23/1/open-source-contributors>

The Community Commitment Curve



Communicating with Your Community (con't)

Master Plan (or global model)

A master plan is a graphical model that attempts to estimate all of the possible conduits into your community that are unique. These conduits involve issues such as *incentives*, *sustainability*, *catalyzation*, *communication and innovation*, and *embedding*.

Incentives refer to ways in which we can encourage people to contribute.

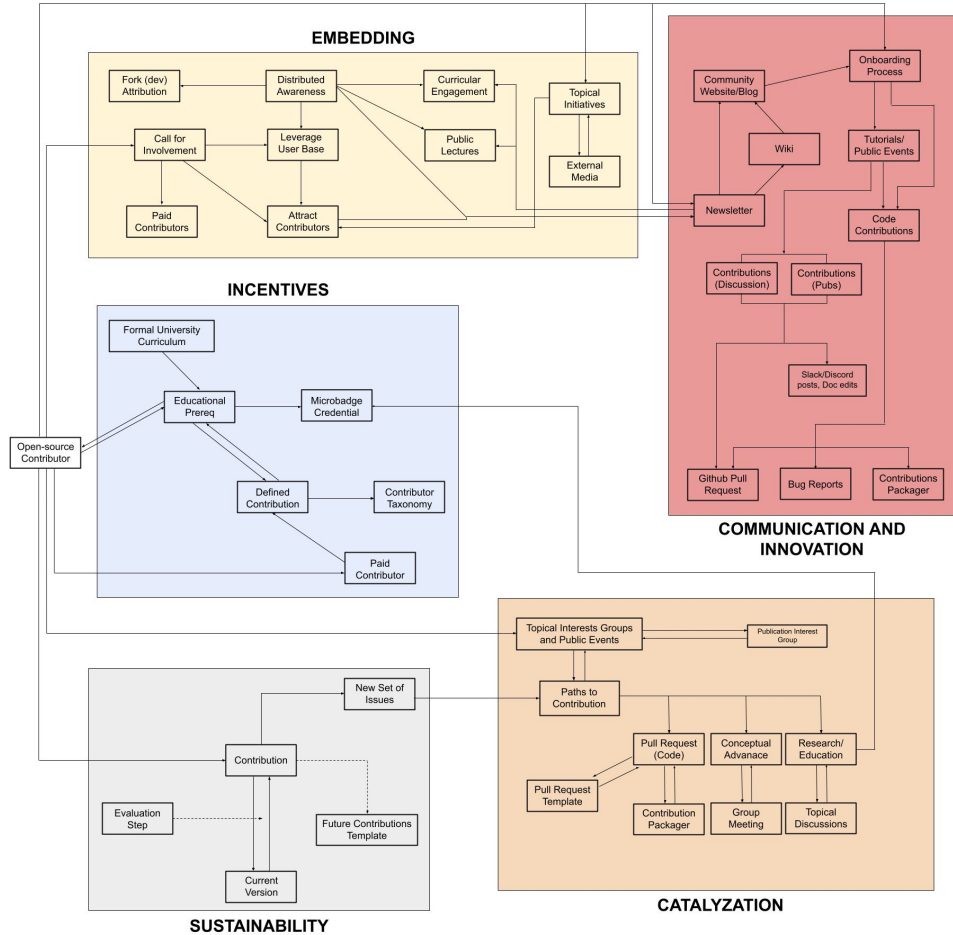
Sustainability refers to keeping contributions relevant across releases, in addition to perpetuating the activities of new and continuing contributors.

Catalyzation refers to keeping the community relevant and open to new initiatives.

Communication and Innovation refers to the facilitation of open discussion and the encouragement of novel ideas.

Embedding involves bootstrapping calls for involvement in the program itself or more in the Github repository.

Onboard Here



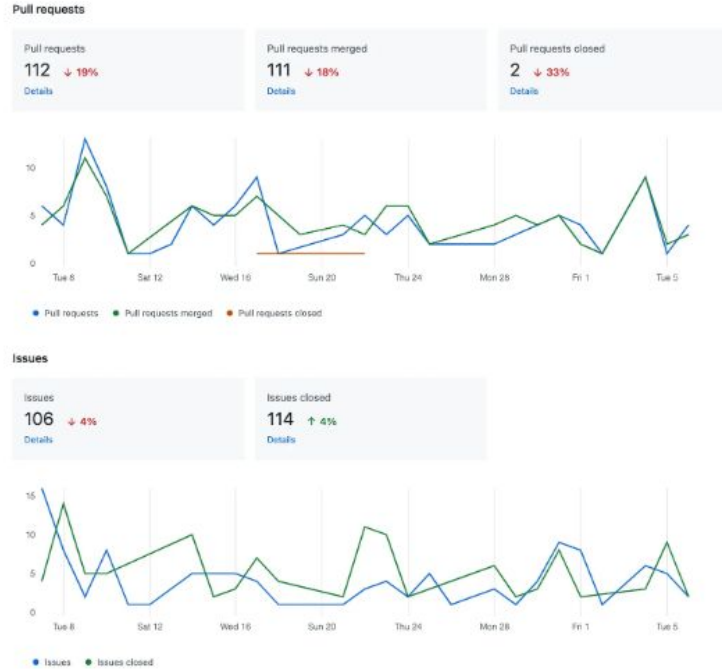
SUSTAINABILITY

CATALYZATION

Community Metrics and Measures

Measuring contributions over time

Community Contributions on Github



Contributions calendar

Your contributions calendar shows your contribution activity.

Viewing contributions from specific times

- Click on a day's square to show the contributions made during that 24-hour period.
- Press *Shift* and click on another day's square to show contributions made during that time span.

Note: You can select up to a one-month range on your contributions calendar. If you select a larger time span, we will only display one month of contributions.

2,298 contributions in the last year

Contribution settings ▾



<https://docs.github.com/en/account-and-profile/setting-up-and-managing-your-github-profile/managing-contribution-settings-on-your-profile/viewing-contributions-on-your-profile>

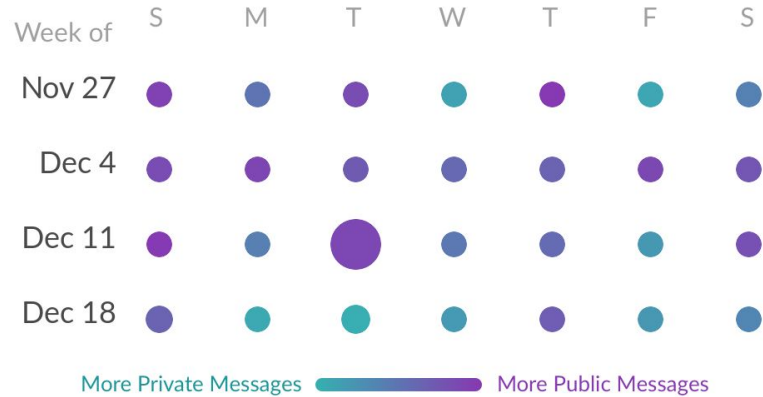
Measuring contributions over time

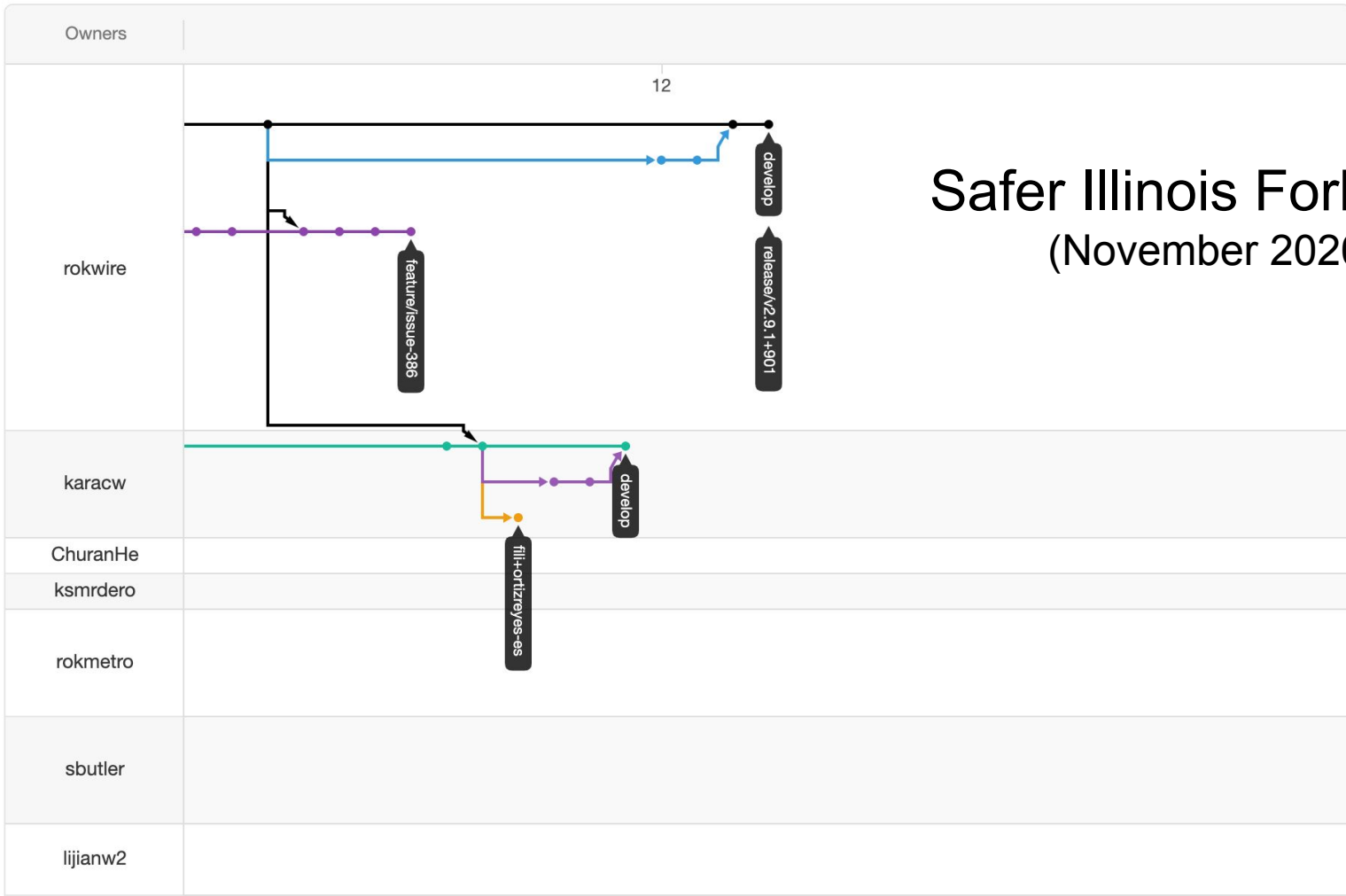
Community Dashboard



Measuring contributions over time (con't)

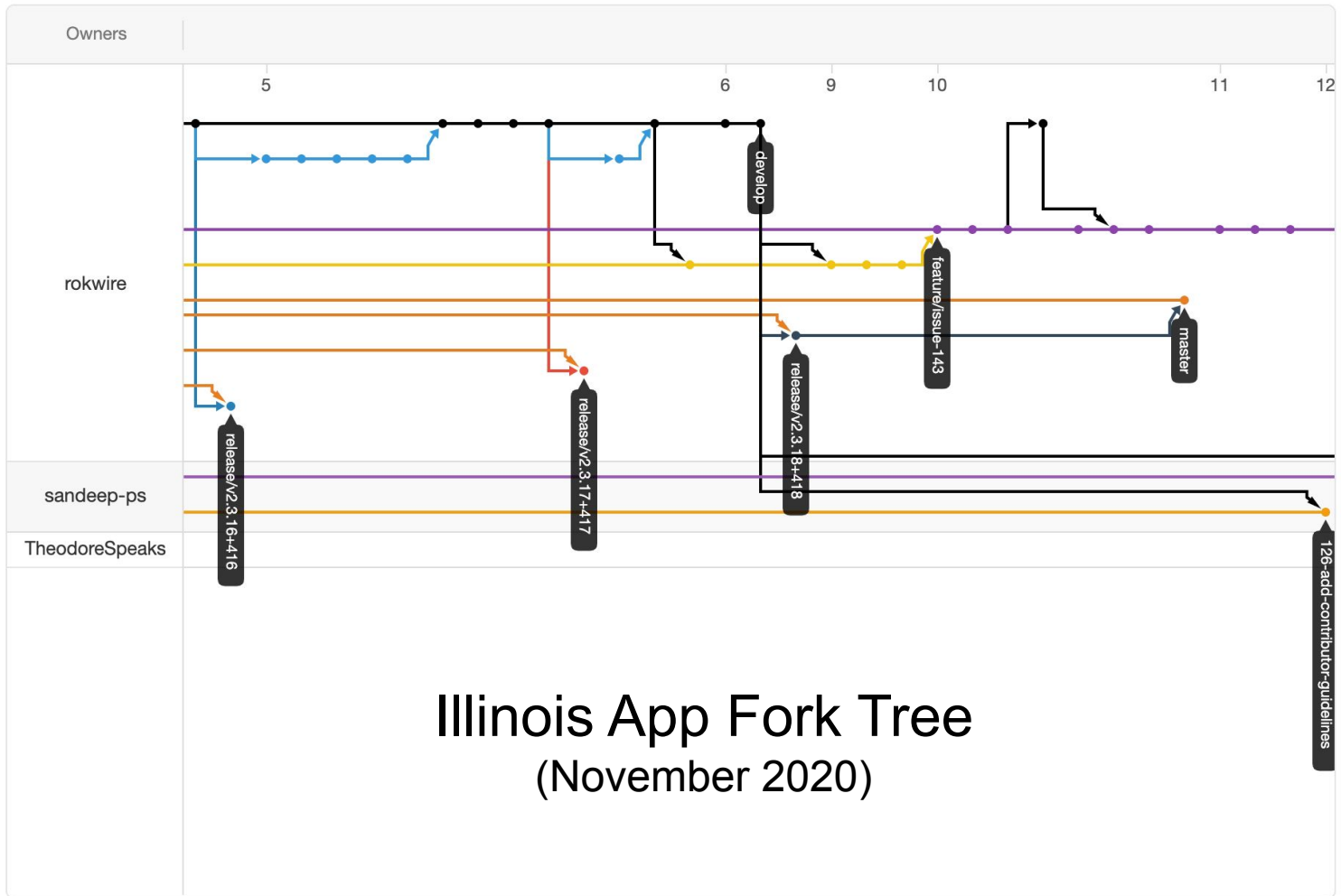
Slack User Stats (weekly reports)



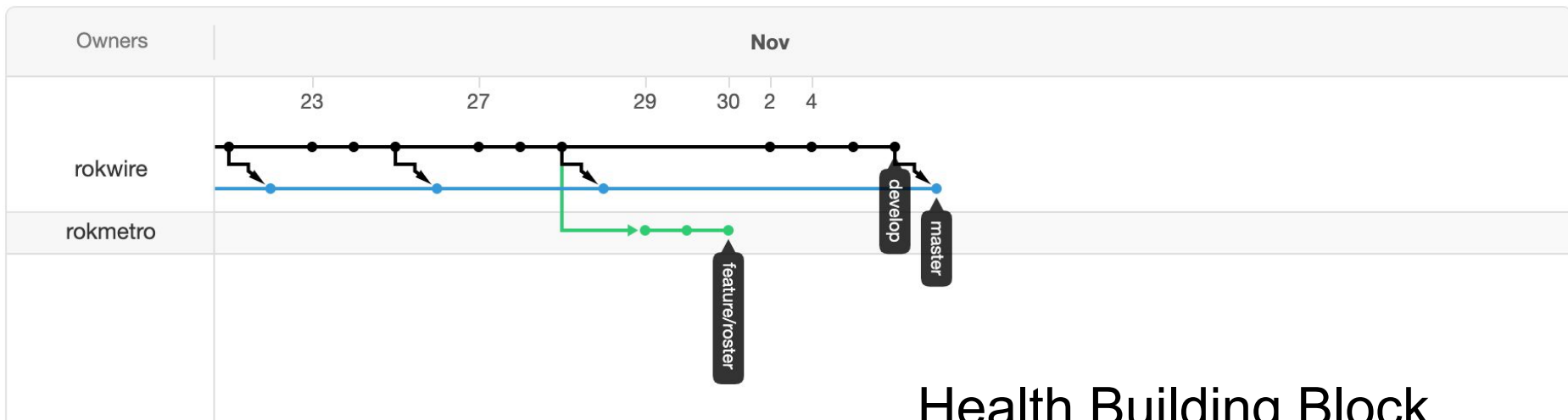


Safer Illinois Fork Tree

(November 2020)



Illinois App Fork Tree
(November 2020)



Health Building Block Fork Tree (November 2020)

Put Contribution Skills into a Static Dashboard

<https://devoworm.weebly.com/people.html>

CONTRIBUTORS (Alphabetized)

	lecturer		data science		conceptual		education
	meeting attendee		computation, coding		publications		OWF senior contributor

Contribution Badges

Contributors



Contributor badges inspired by the [CRediT taxonomy](#).



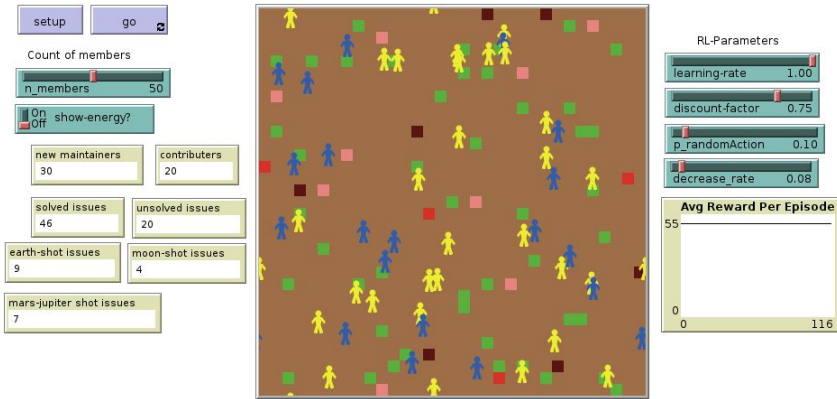
<https://rokwirecommunity.web.illinois.edu/onboarding.htm>

Worked on a series of translations and had them merged into the /rokwire/safer-illinois-app repository (Summer 2021).

Kamyia Krishnan, Open-source Contributor

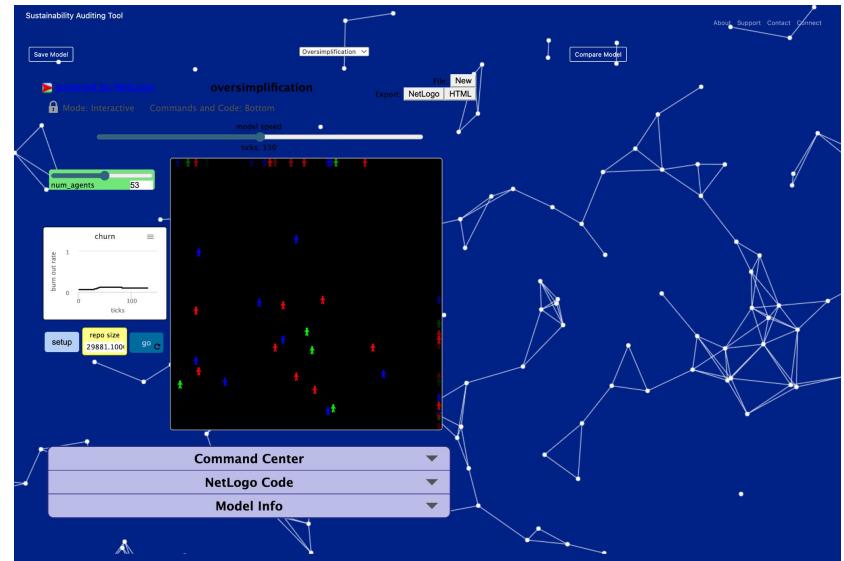


Tools from the Orthogonal Research and Education Lab

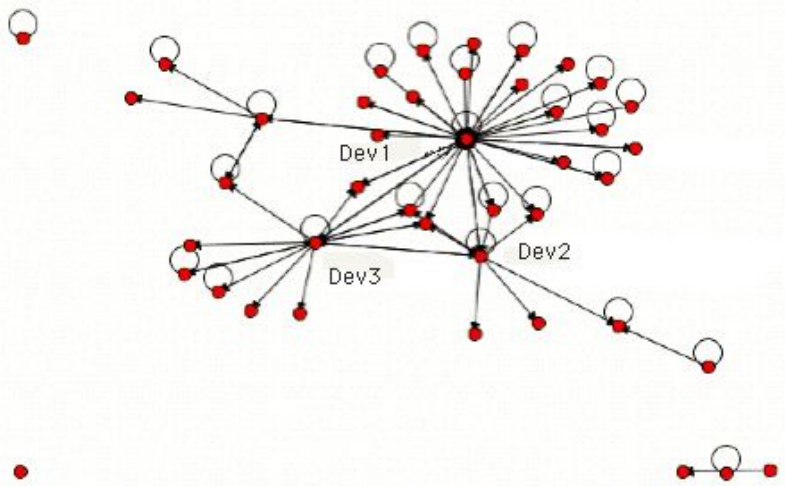


Reinforcement Learning for Open Source
Community Sustainability

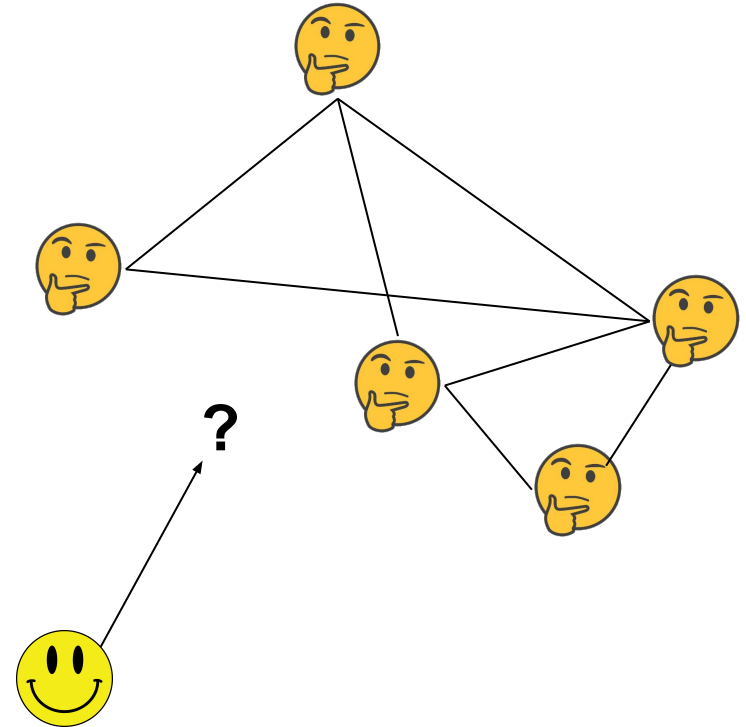
Sustainability Auditing Tool
<https://sustainabilityauditingtool.herokuapp.com/>



One-to-Many Interactions



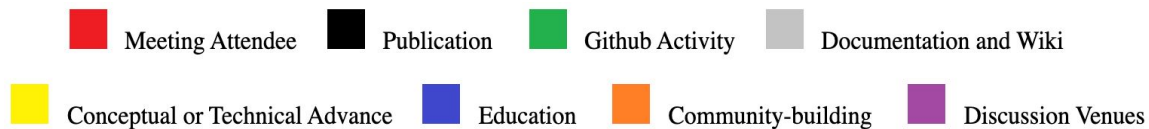
Example of network structure in an open source community. Map of openrpg bug report interactions.



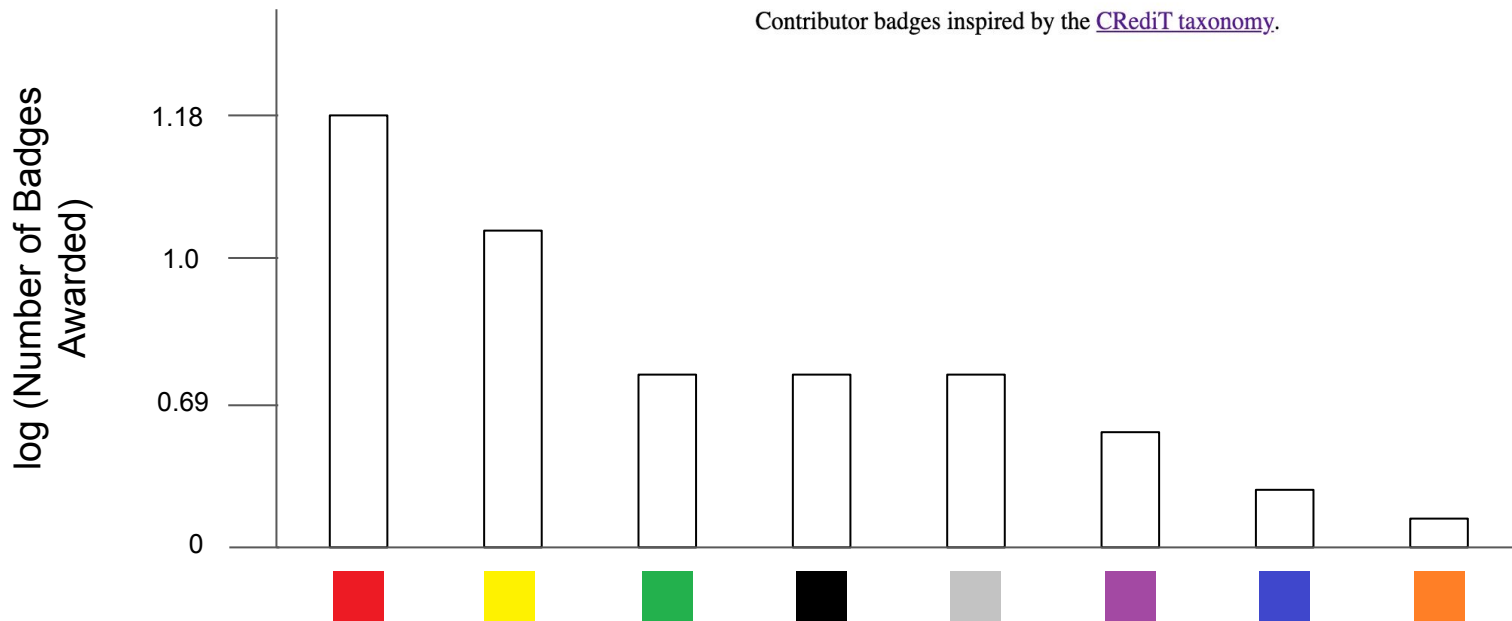


Rokwire Community Contributor Badges, September 2020-June 2021

Contributor Network ($N = 21$)



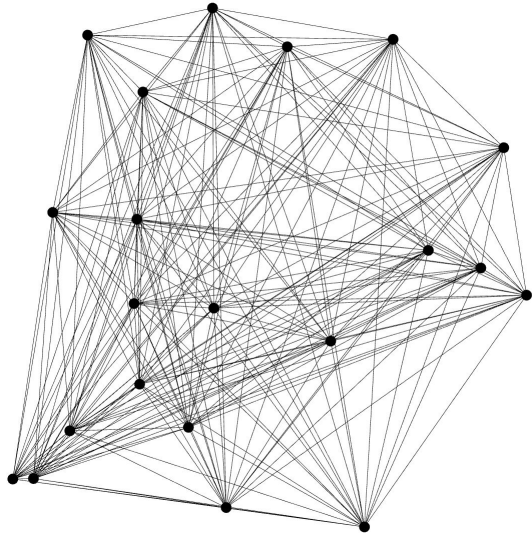
Contributor badges inspired by the [CRediT taxonomy](#).



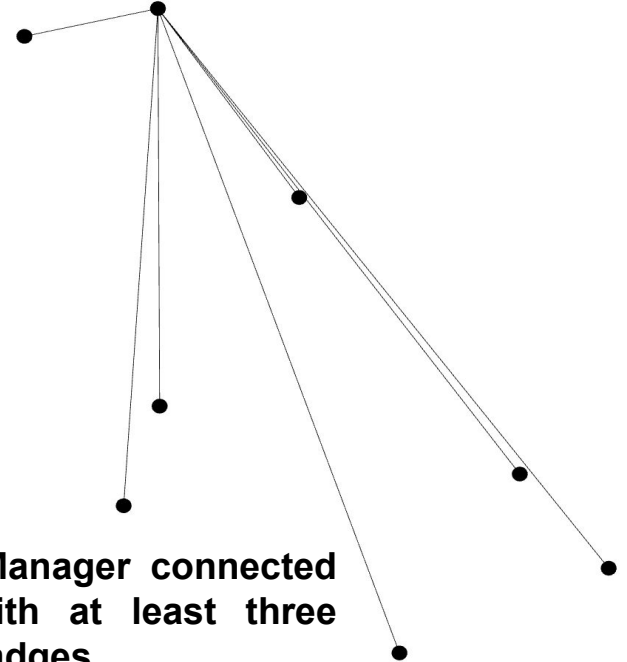
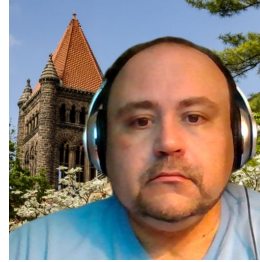


Rokwire Community Contributor Badges Network

Nodes: Unique Community Members,
Connectivity: number of badges in common

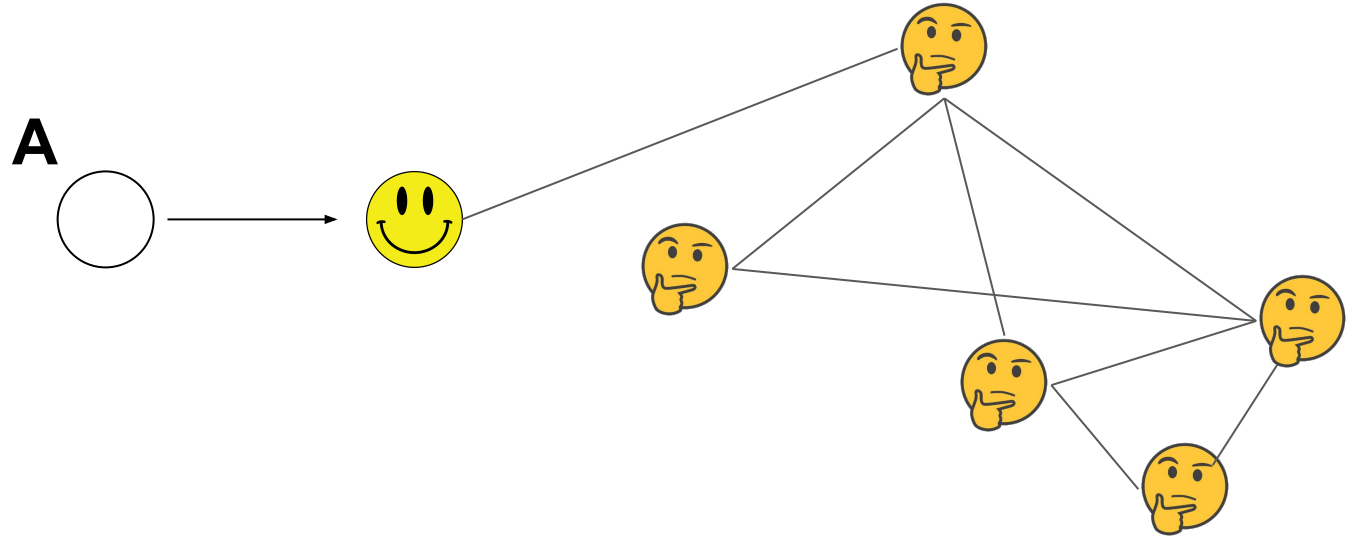


Full community network (at least one contributor badge in common).

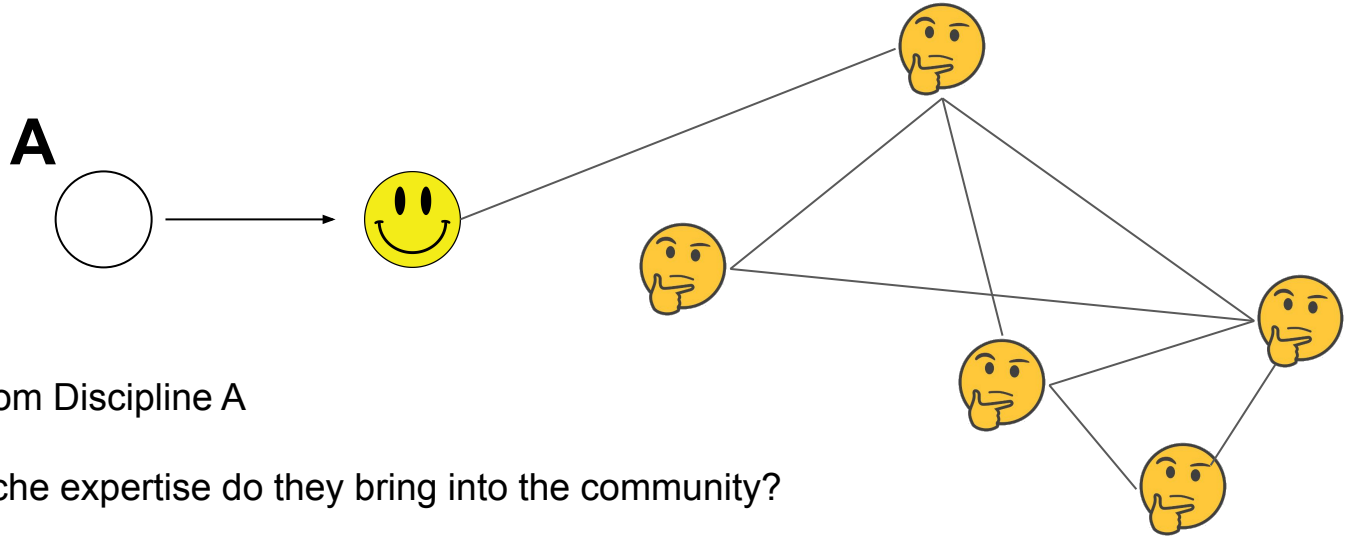


Community Manager connected
to people with at least three
contributor badges

Which contributors and disciplines are your greatest sources of contributor activity?



Which contributors and disciplines are your greatest sources of contributor activity?



Input of contributor from Discipline A

- What kind of niche expertise do they bring into the community?
- do they act as a conduit (bring more contributors from Discipline A)?
- duration of contribution, intensity of contribution: what is the magnitude of their contribution history?