Lesson 3: Healthy open source software projects (On-ramps and practices)

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Objectives

- Understand the general roles in a project community
- Understand the simple community dynamic in community
- Understand the on-ramps and activities successful project communities display

Notes

https://github.com/jhu-ospo-courses/JHU-EN.601.210/tree/main/lessons/3#notes

What does success mean?

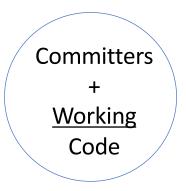
- Inbound
 - A healthy contribution flow
- Outbound
 - Did someone star a GitHub repo because they are a simple end user, or because they follow the developer, or because they are a developer using the source?
 - Did someone clone/fork a repo and use it, or abandon the project fork, or simply review and learn from it?

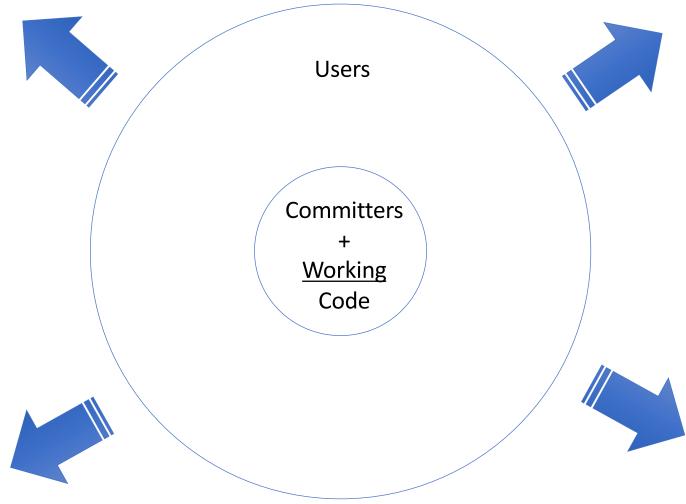
Roles

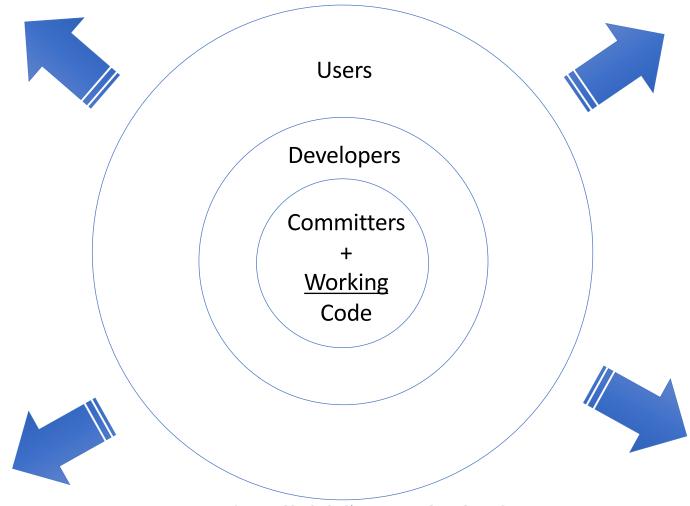
- Maintainer: a primary author of a project with full privileges to write the project directory tree.
- User: any person that is using a software project for its intended purpose.
- Developer: any person using a software project but futhermore also modifying the source to their own needs.
- Contributor: any person offering a direct artifact back to the project, including source code patches, bug reports, configuration, documentation.

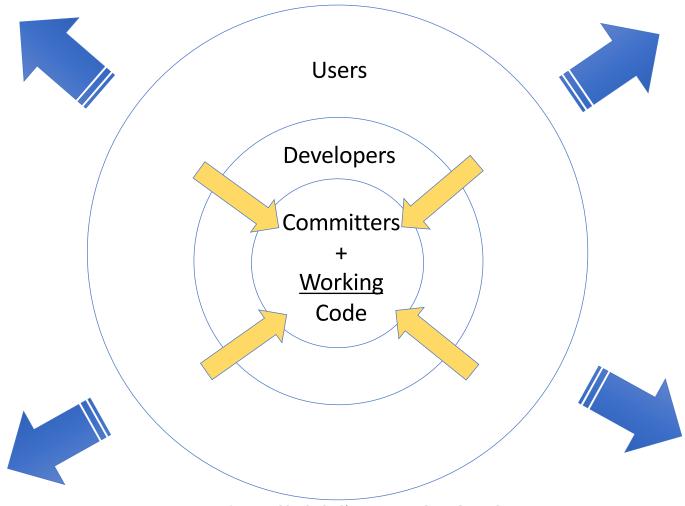
Contributions

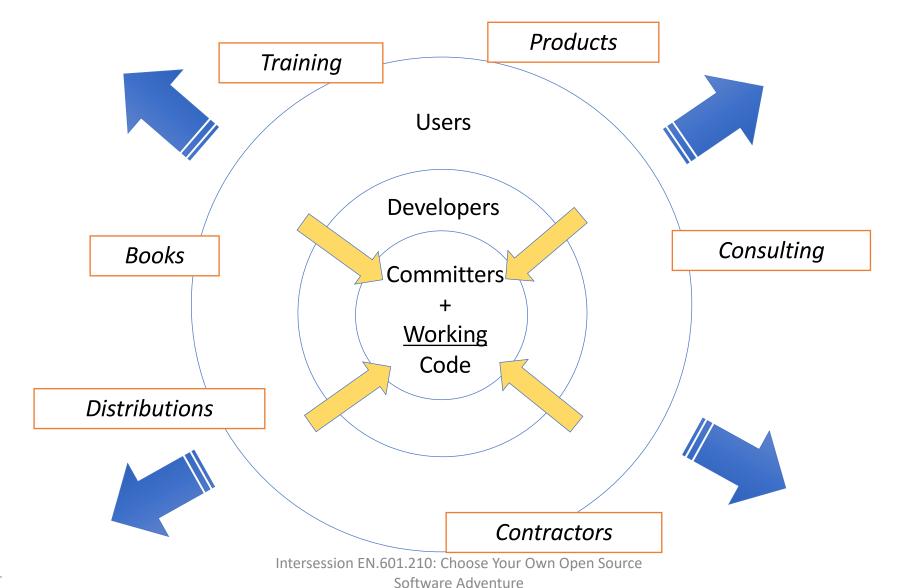
- Code fixes and new functionality
- Bug reports indicate a new test path or use
- New configuration information broadens the user base
- Documentation (answering forum questions, creating tutorials, etc.)
 broadens the user base
- Forum time answering questions
- Translations











Three On Ramps for Community Building

How do you encourage people to use your project?

(Because that's where you'll find bugs reports & developers)

How do you encourage developers selfishly to experiment?

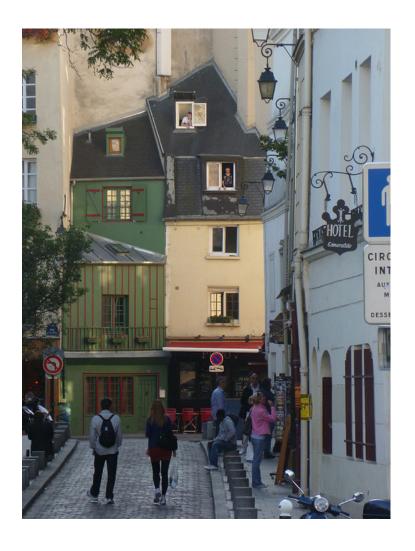
(Because these are your future contributors)

How do you encourage developers to share their work?

(Because contribution flow is the growth and success of your project)

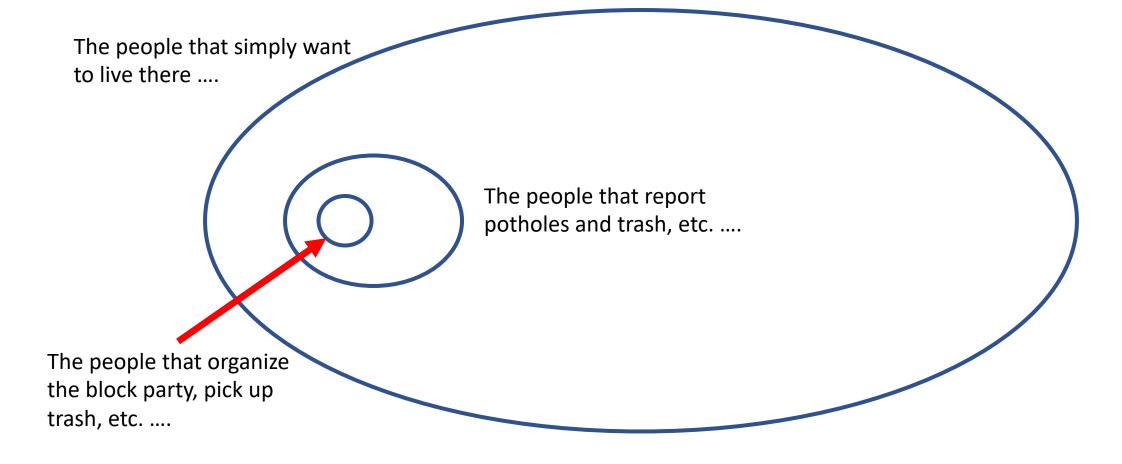
Side Note:

- Nobody cares about your community
- Your project solves a problem for a user or a developer
- They want to selfishly use your work ... that you liberally licensed to allow them to do just that.
- You can have <u>NO</u> expectations in return
- It is your job as maintainer to make it easier to do the right thing economically and contribute back to the project

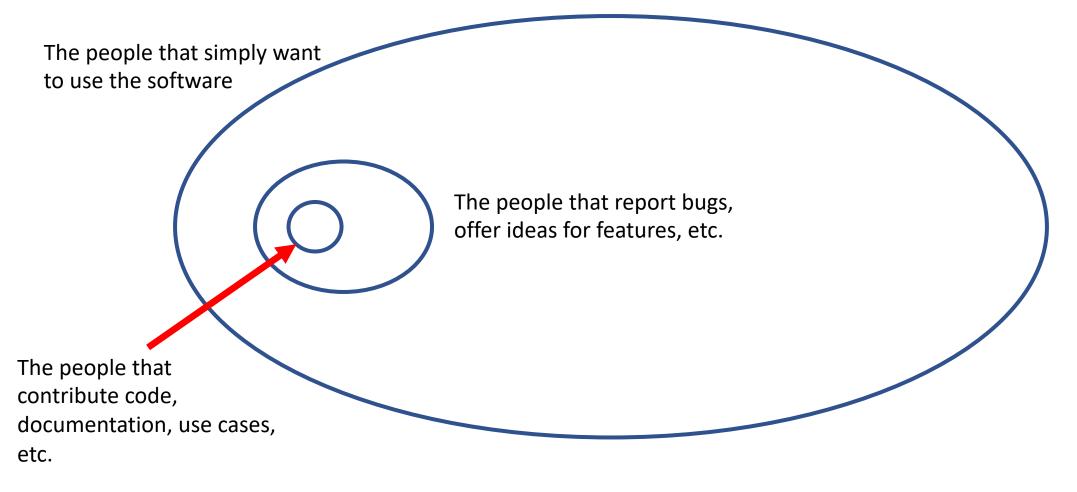


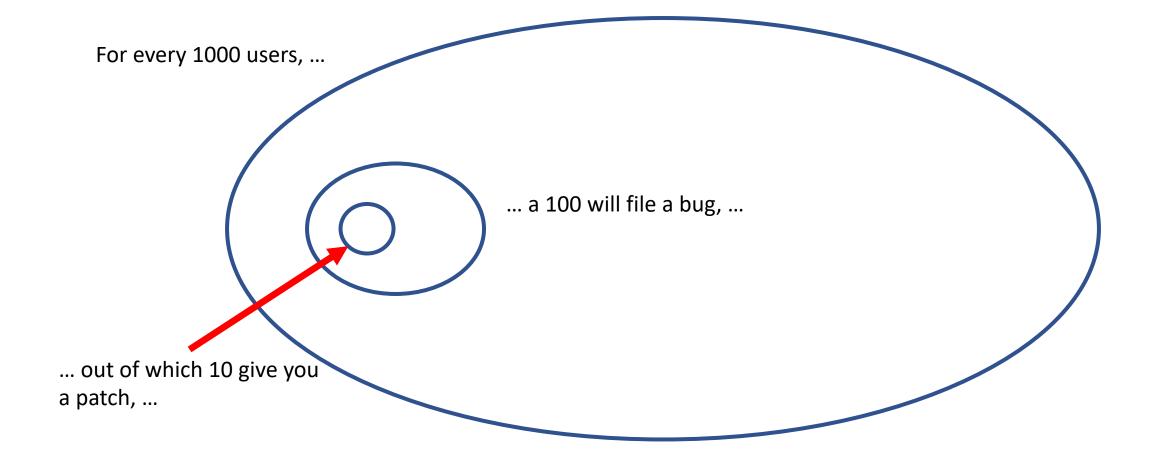
In the World of Atoms: You choose your neighborhood for very personal reasons

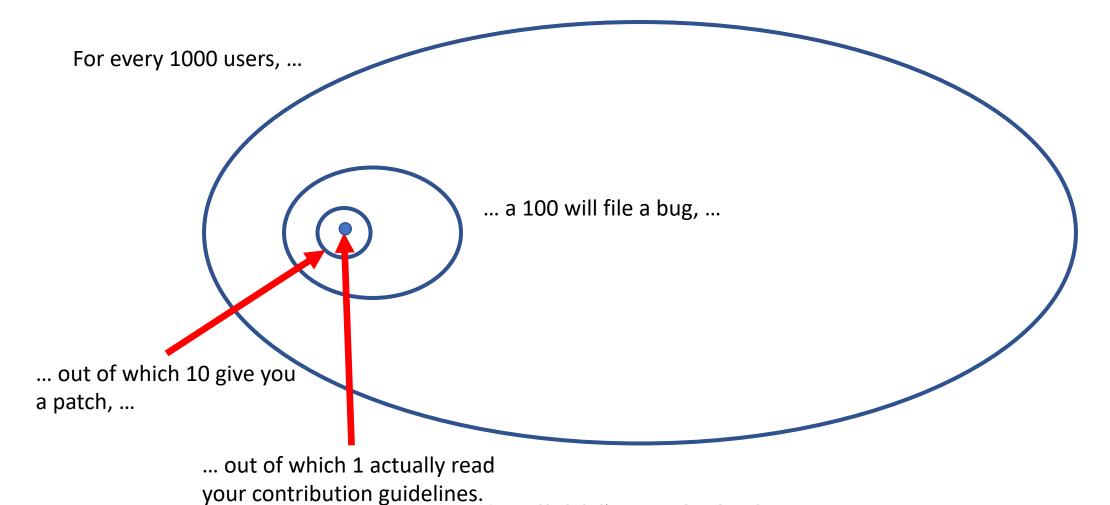
Three Sorts of Neighbours in Your Community

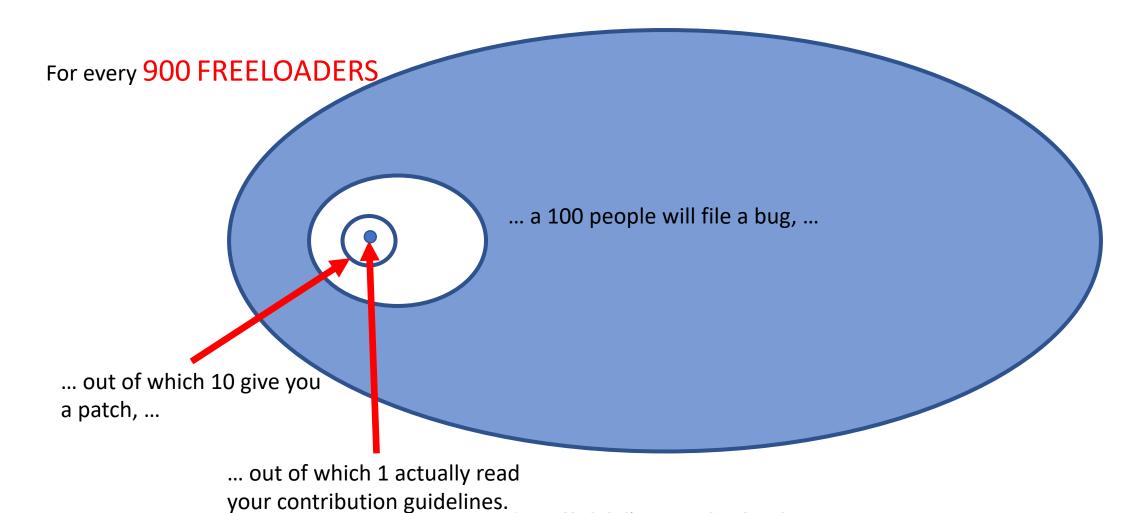


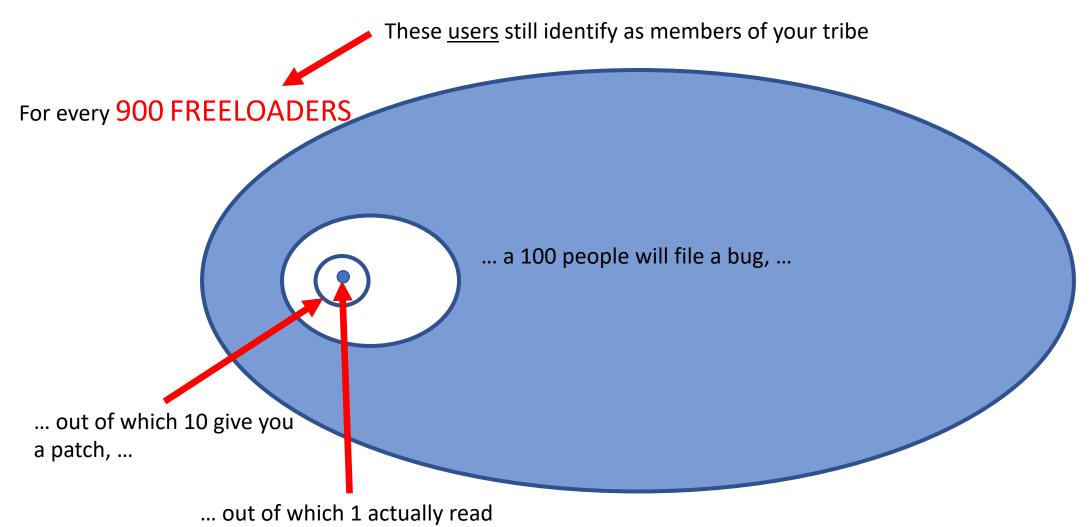
Three Sorts of People in Your Project Community











your contribution guidelines.
Intersession EN.601.210: Choose Your Own Open Source

Software Adventure

Freeloaders means you're doing it right!

Three On Ramps for Community Building

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Three On Ramps for Community Building

How do you encourage people to use your project?

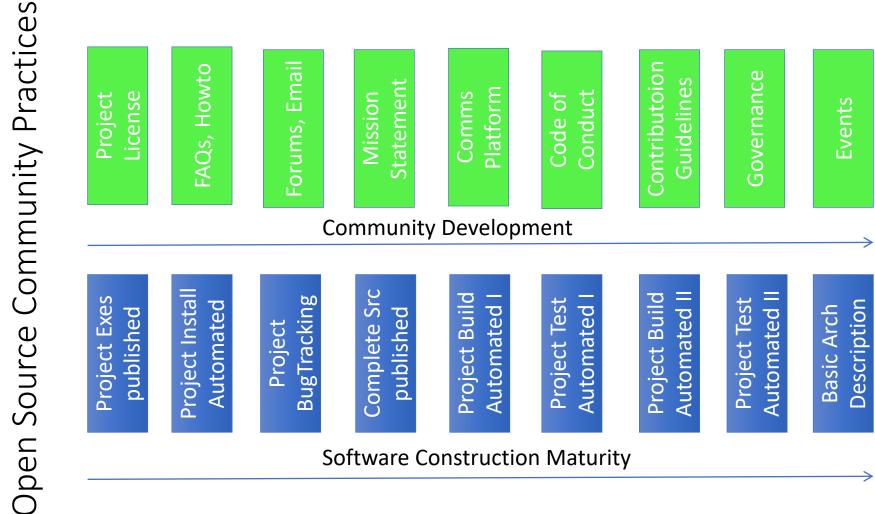
(How do you make it easy to install/configure/use the software?)

How do you encourage developers selfishly to experiment?

(How do you make it easy to build/test/experiment?)

How do you encourage developers to share their work?

(How do you make it easy to contribute?)



Community Patterns Email Contributoion FAQs, Howto Governance Platform Statemen License Code of Events Project Forums, Community Development Encourage Encourage Contributors **Encourage Developers Users** Project Install Project Build Automated I Build omplete Src Build **Automated II Automated II Project Exes** BugTracking **Project Test Project Test** Automated Description Open Source Basic Arch Automated published published Project Project Software Construction Maturity



What Does Your 10-Minute Rule Look Like?

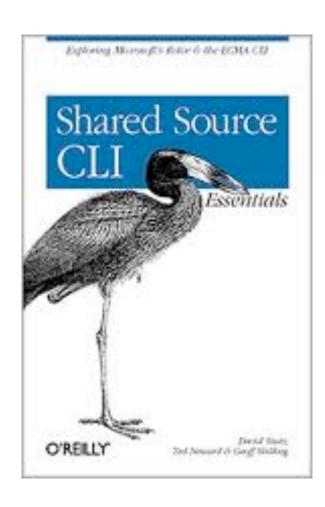


What's your 'hello world' scenario?



What's your mean time to dopamine

ROTOR



500K LoC
500K Lines-of-Test Harness
Ran on Windows, Mac OS X, FreeBSD
One script to set environment
One command to build everything
One command to test it all
Minimal documentation

24 hours later ...24 hours later again ...



Ask Not What Your Community Can Do For You