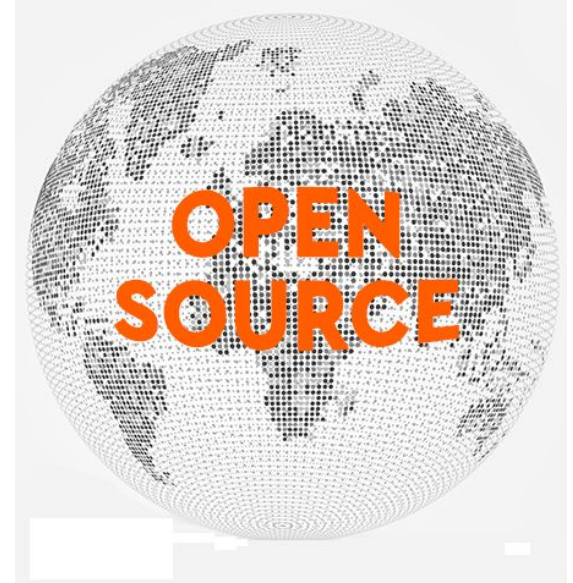


Welcome to Open Source!



Bradly Alicea

RCOMMUNITY

Welcome to the Rokwire Community!

The logo for the Rokwire Community, featuring a large red capital letter 'R' followed by the word 'COMMUNITY' in a black, serif, all-caps font.

Visit our Community Navigator

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

Github Repository

<http://www.github.com/rokwire/rokwire-community>

Open Source

Denoting software for which the original source code is made *freely available* and may be *redistributed and modified*.

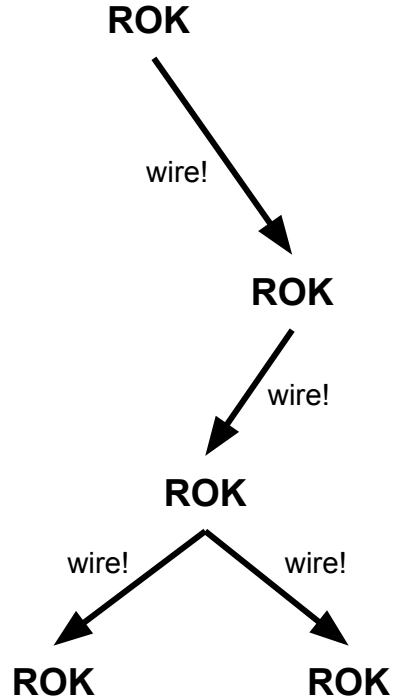
Software is “free” or “libre” in accordance with the [Free Software Definition](#) and [Definition of Free Cultural Works](#).

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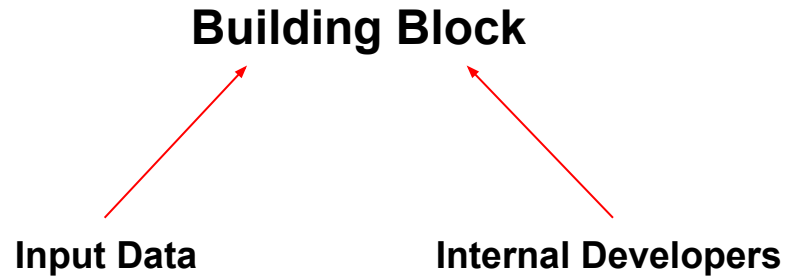
Rokwire is a series of “roks” (building blocks).

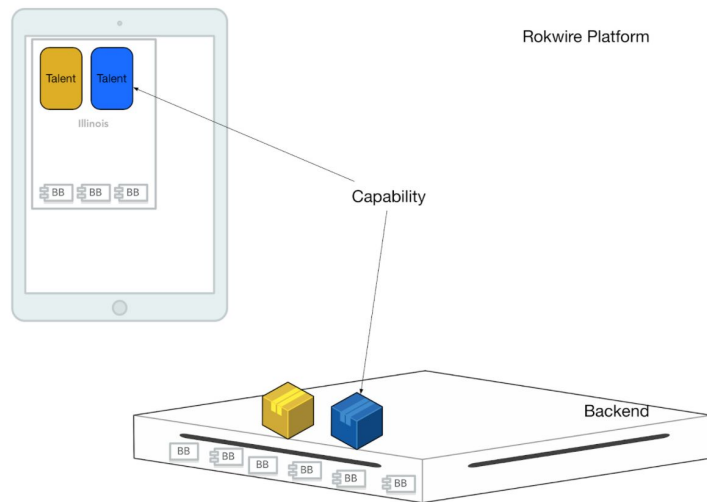


Connected by a series of “wires” (dependencies taking the form of data connectors).



Rokwire Architecture





Rokwire Dictionary:

<https://github.com/rokwire/rokwire-community/wiki/Rokwire-Dictionary>



Talents

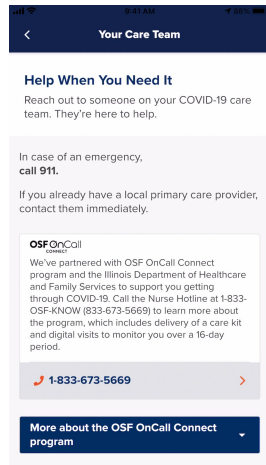
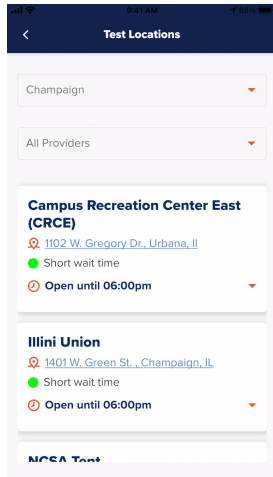
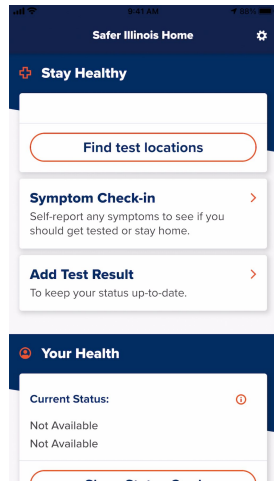
Capabilities

Building Block

Input Data

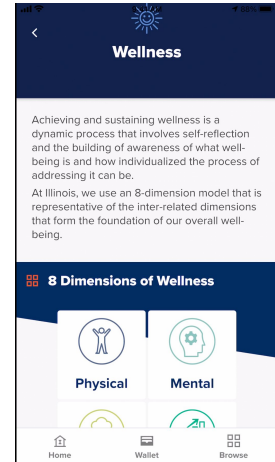
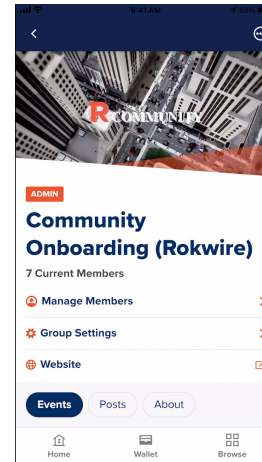
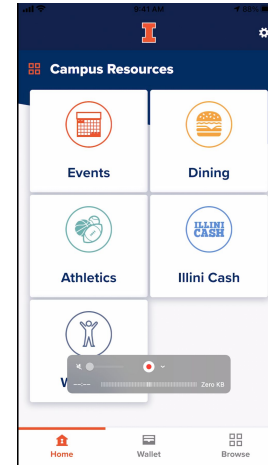
Internal Developers

Safer Illinois



Safer Illinois

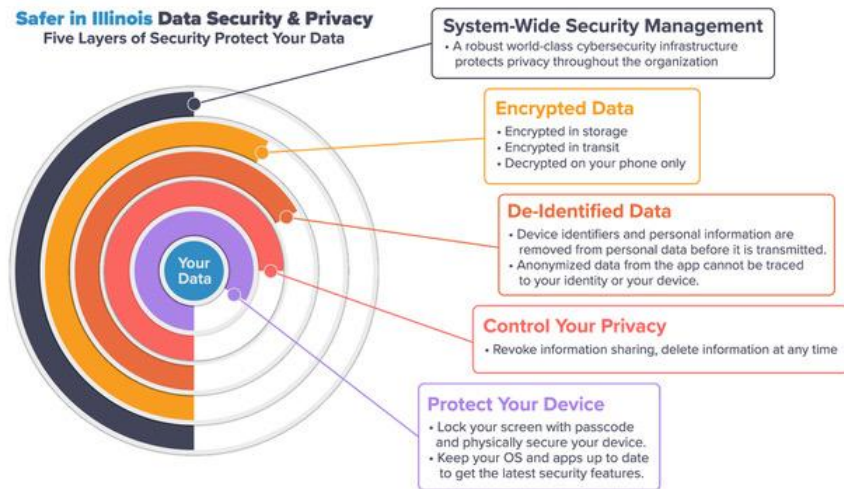
Illinois App



Safer Illinois

Campus-wide Response to COVID19

Safer in Illinois Data Security & Privacy Five Layers of Security Protect Your Data



It's Open Data Month in the Community!

Safer Community app has roots in University of Illinois testing program

David Berman Feb. 10, 2021

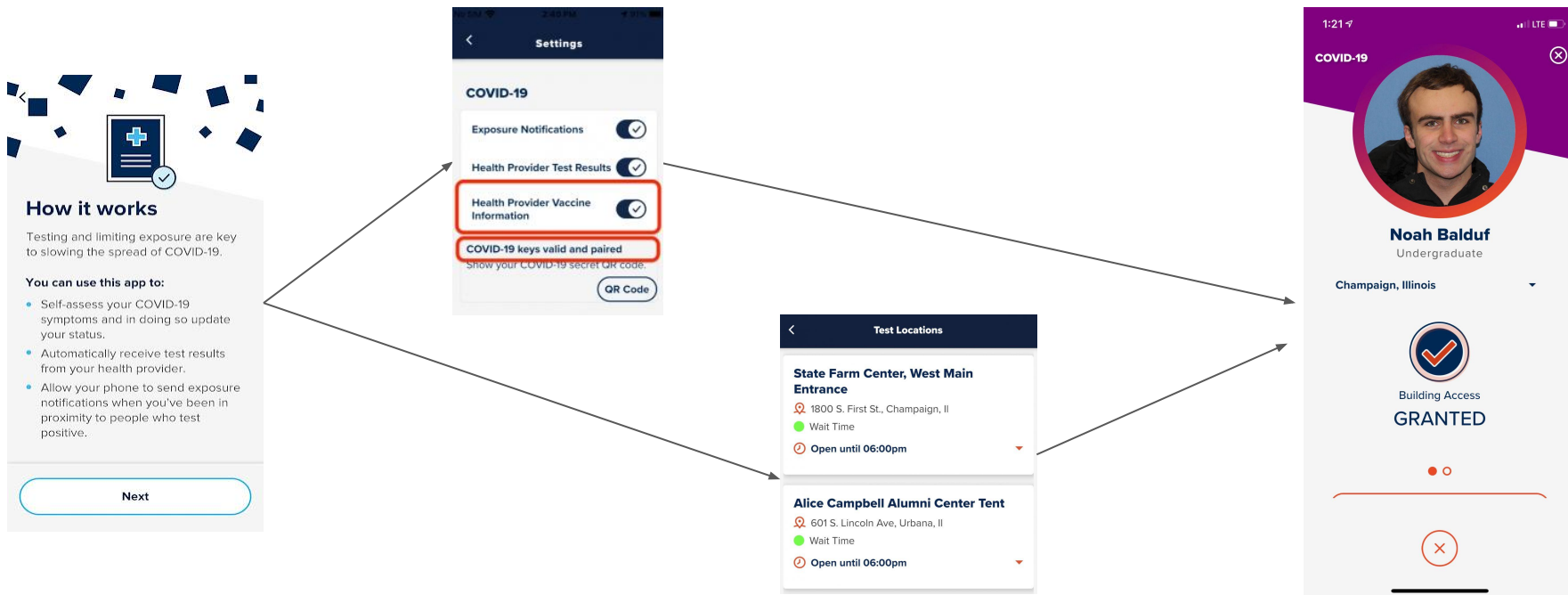


Art by Grace Orwen



Safer Illinois

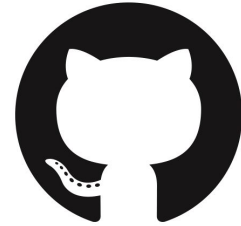
Campus-wide Response to COVID19



Five Pillars of Open Source

Five things make a software release “open source”:

- 1) Publicly-available source code.



Github repositories

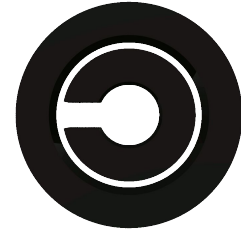
<https://github.com/rokwire>

Workspace and archive for
version-controlled, open-source computer
code, formatted text, and editable data.

Five Pillars of Open Source

Five things make a software release “open source”:

- 1) Publicly-available source code.
- 2) Copyleft licensing.



Copyleft

<https://www.copyleft.org/>

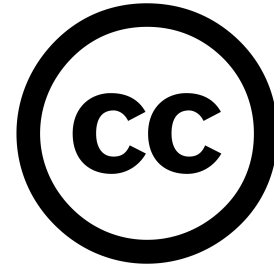
A set of principles governing open content that protects creator's rights.

- opposite of copyright, which restricts use by the public).

Five Pillars of Open Source

Five things make a software release “open source”:

- 1) Publicly-available source code.
- 2) Copyleft licensing.
- 3) Free distribution and remixing.



Creative Commons

<https://creativecommons.org/licenses/>

Set of licenses for non-code open access materials (books, digital content) that specifies terms of use.

Five Pillars of Open Source

Five things make a software release “open source”:

- 1) Publicly-available source code.
- 2) Copyleft licensing.
- 3) Free distribution and remixing.
- 4) Technology neutral.



Software Distribution

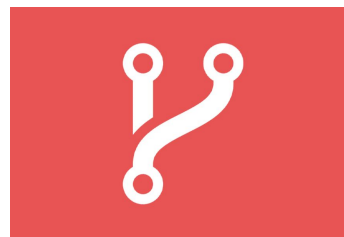
Channels of distribution: FTP, CD-ROM, Web downloads.

Open-source must not come into conflict with distribution channels.

Five Pillars of Open Source

Five things make a software release “open source”:

- 1) Publicly-available source code.
- 2) Copyleft licensing.
- 3) Free distribution and remixing.
- 4) Technology neutral.
- 5) Versioning.



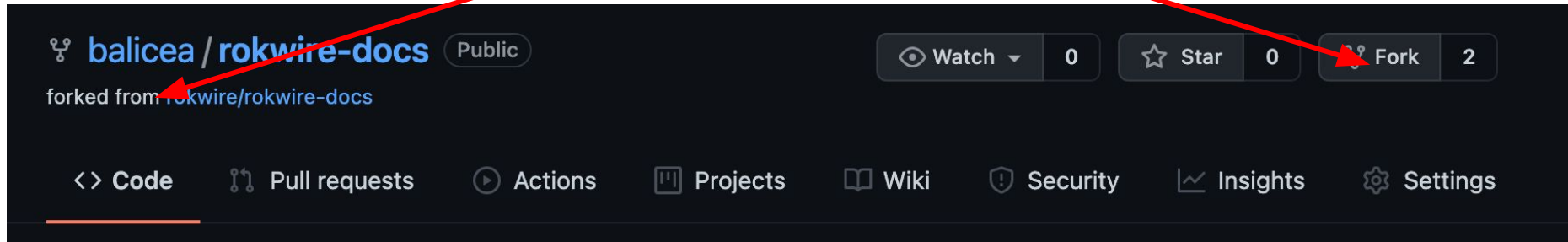
Version-control

Track and compare different document versions. Keeps contributions clear, allows for tracing faults (why things don't work).

- diffs (line-oriented edit distance), version tracking (revisit previous versions).

What does it mean to “fork” a project?

?



Red Hat Family Tree

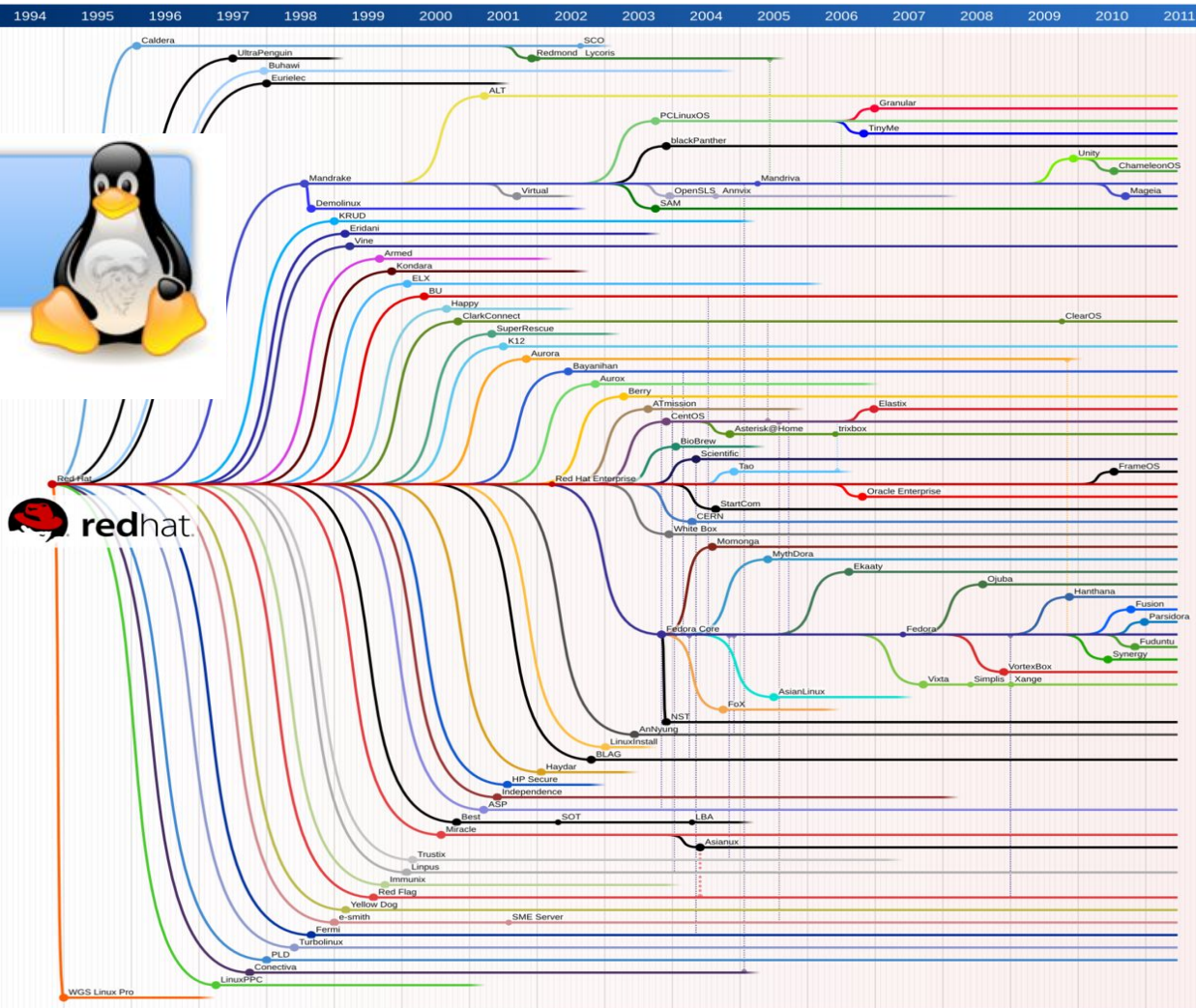
based on GLDT version 11.6

A. Lundqvist, D. Rodic - futurist.se/gldt

Published under the GNU Free Documentation License



- Influence, developer switching
- Rebasing, substantial code flow, project overtaking
- Developer & code sharing, project merging





>



LibreOffice (Document Foundation) is a
fork of OpenOffice (Apache Foundation)



LibreOffice (Document Foundation) is a fork of OpenOffice (Apache Foundation)



IceCat (Free Software Foundation) is a fork of Firefox (Mozilla Foundation)



LibreOffice (Document Foundation) is a fork of OpenOffice (Apache Foundation)



IceCat (Free Software Foundation) is a fork of Firefox (Mozilla Foundation)



Ubuntu (Canonical, Ltd) is a fork of Debian (Debian Project)

What are some other open-source practices I need to be familiar with?

Version Control and Rapid Prototyping

Diffs: line-oriented edit distance. Can use this to compare changes in a pull request, previous versions.



Commits on Oct 26, 2020

Update diffs-example.md

Verified 358e05b

Showing 1 changed file with 1 addition and 1 deletion.

Unified Split

Tutorials/diffs-example.md

@@ -1 +1 @@

1 - The quick brown fox jumps over the lazy moon!

1 + The quick brown fox is crazy like its conspecifics, and jumps over the moon!

Deletions

Additions

Using issues to assign tasks and organize related resources (example: /rokwire-docs)

The screenshot displays the GitHub interface for the repository `rokwire/rokwire-docs`, which is marked as `Public`. The top navigation bar includes links for `Code`, `Issues` (21), `Pull requests`, `Discussions`, `Actions`, `Projects` (2), `Wiki`, `Security`, `Insights`, and `Settings`. On the right, there are buttons for `Watch` (6), `Star` (1), and `Fork` (2).

Below the navigation bar, the `Issues` section is active, showing a search bar with the query `is:issue is:open`. To the right of the search bar are buttons for `Labels` (9) and `Milestones` (0), along with a green `New issue` button.

The main content area lists 21 open issues. Each issue entry includes a checkbox, a green circle icon, the issue title, and a summary line indicating the issue number, when it was opened, and by whom. The issues are as follows:

Issue Title	Summary
Health Building Block : Readme Issues	#26 opened 25 days ago by ThashmaNellira
Events Manager: Readme issue	#25 opened 25 days ago by ThashmaNellira
Safer Illinois App: Missing sections in readme.md	#24 opened 25 days ago by ThashmaNellira
Rokwire Building blocks : Missing sections in Readme.md	#23 opened 25 days ago by ThashmaNellira
Test Issue Edward	#22 opened on Aug 4 by qianfut2
Test B	#21 opened on Aug 4 by balicea
Test A	#20 opened on Aug 4 by balicea

Stewardship of open resources

Open-source communities are an opportunity to maintain the software commons:

- many necessary components to making software platforms both *relevant* and *usable*.
- contributors can also help to keep platforms relevant over time (as technology and social needs change).

Why should I contribute?

Professional advancement

- Be part of an organization (put work in portfolio, on CV).
- Build up expertise and network with same, other specialties.

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Social Capital

- build resources used by others, attribution and academic citation.

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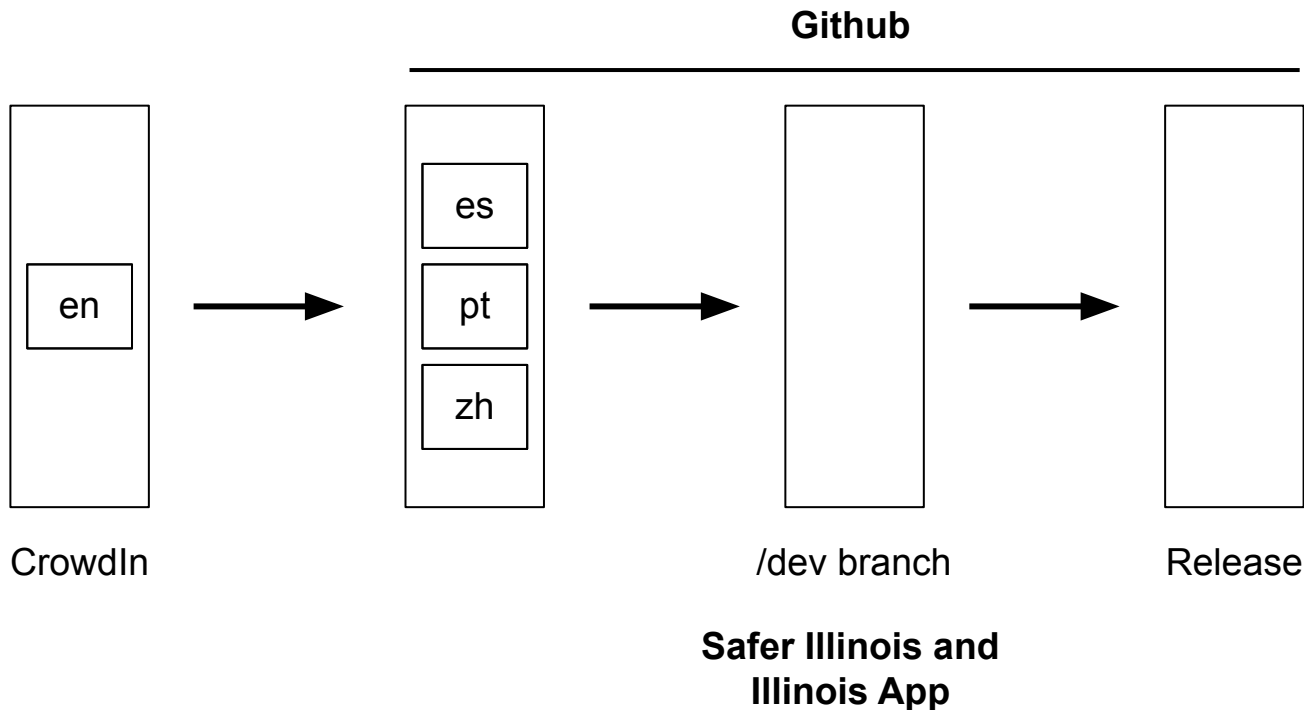
Social Capital

- build resources used by others, attribution and academic citation.

Collective Maintenance

- make an initial contribution, others will collectively edit and update (pooled expertise).

Contribute Translations



Join our Community!

Our [Onboarding Guide](#) tells you how to make **coding** and **building** contributions.

Coding: contribute a pull request or contribute via our documentation platform Swagger.

Building: contribute your ideas, your non-coding technical skills, or your skills at resource maintenance.

Typical Beginner Issues

Submitting a Bug Fix

Maintain our Resources

Add a New Feature

Documentation

Issue a Coding Contribution
Pull Request

Answer Questions

Contribution Badges

Contributors



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



<http://rokwirecommunity.web.illinois.edu/onboarding.html>

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

Kamyia Krishnan, Open-source Contributor



Maintaining

What happens if my translation falls out of step with the current version of the app?

Best Practices for Maintainers

Making your life easier as an open source maintainer, from documenting processes to leveraging your community.

Table of Contents ▼



<https://opensource.guide/best-practices/>

Maintaining

What happens if my translation falls out of step with the current version of the app?

You can check for new versions of the app, and check the translation *talents* (GUI interface, specialized for a certain audience) by updating to the latest release.

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You can then use CrowdIn and Github to make changes (check with Open-source Community Manager first).

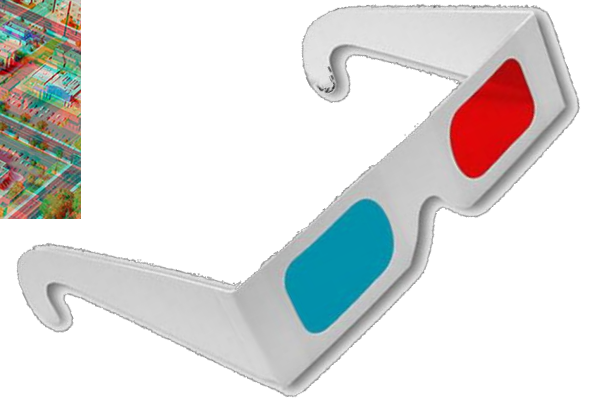
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Future courses will be engaged with *Safer Illinois* and the *Illinois App*.



Slack: <https://launchpass.com/rokwirecommunity>

Discord: <https://launchpass.com/rokwire-community>

Questions? Contact balicea@illinois.edu