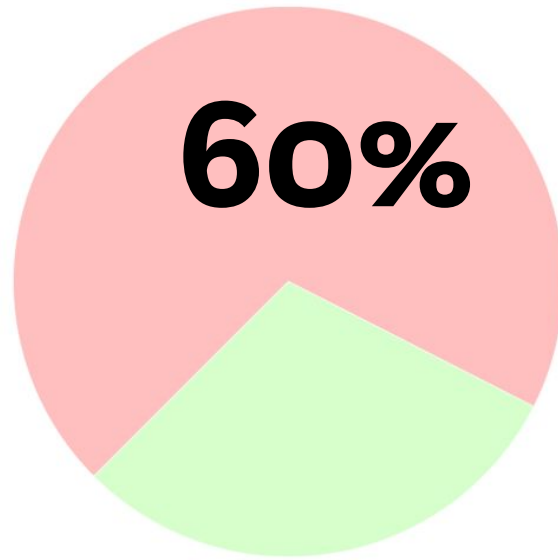


moz://a

Cracking the code

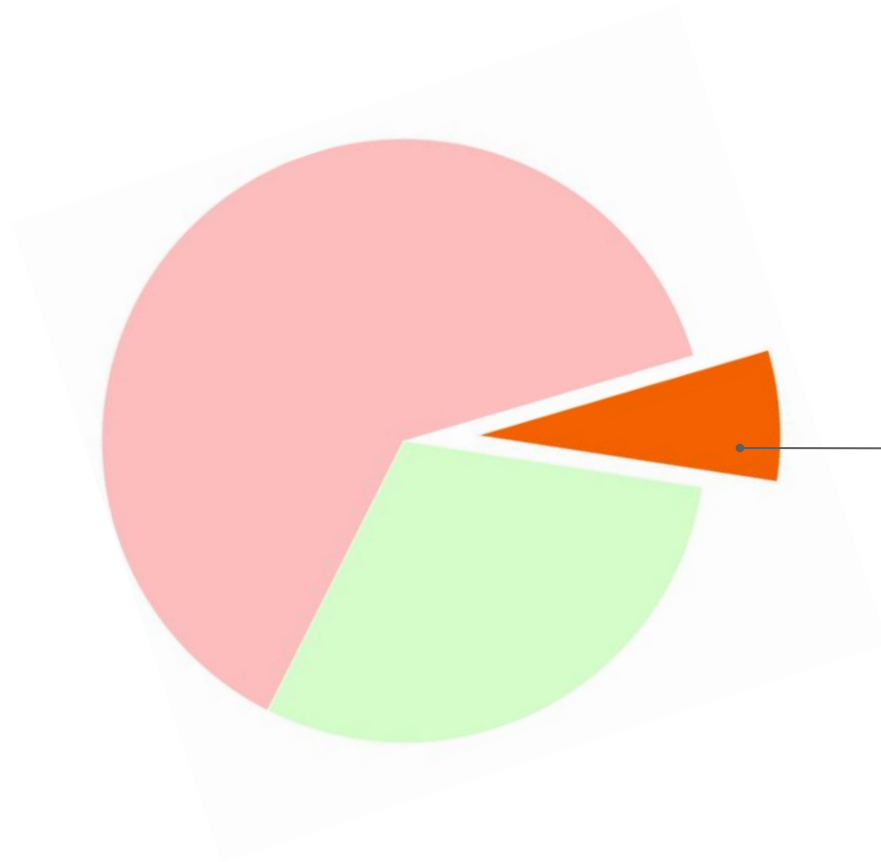
Helping University students contribute
code to Open Source Projects





of students failed

Now Imagine if

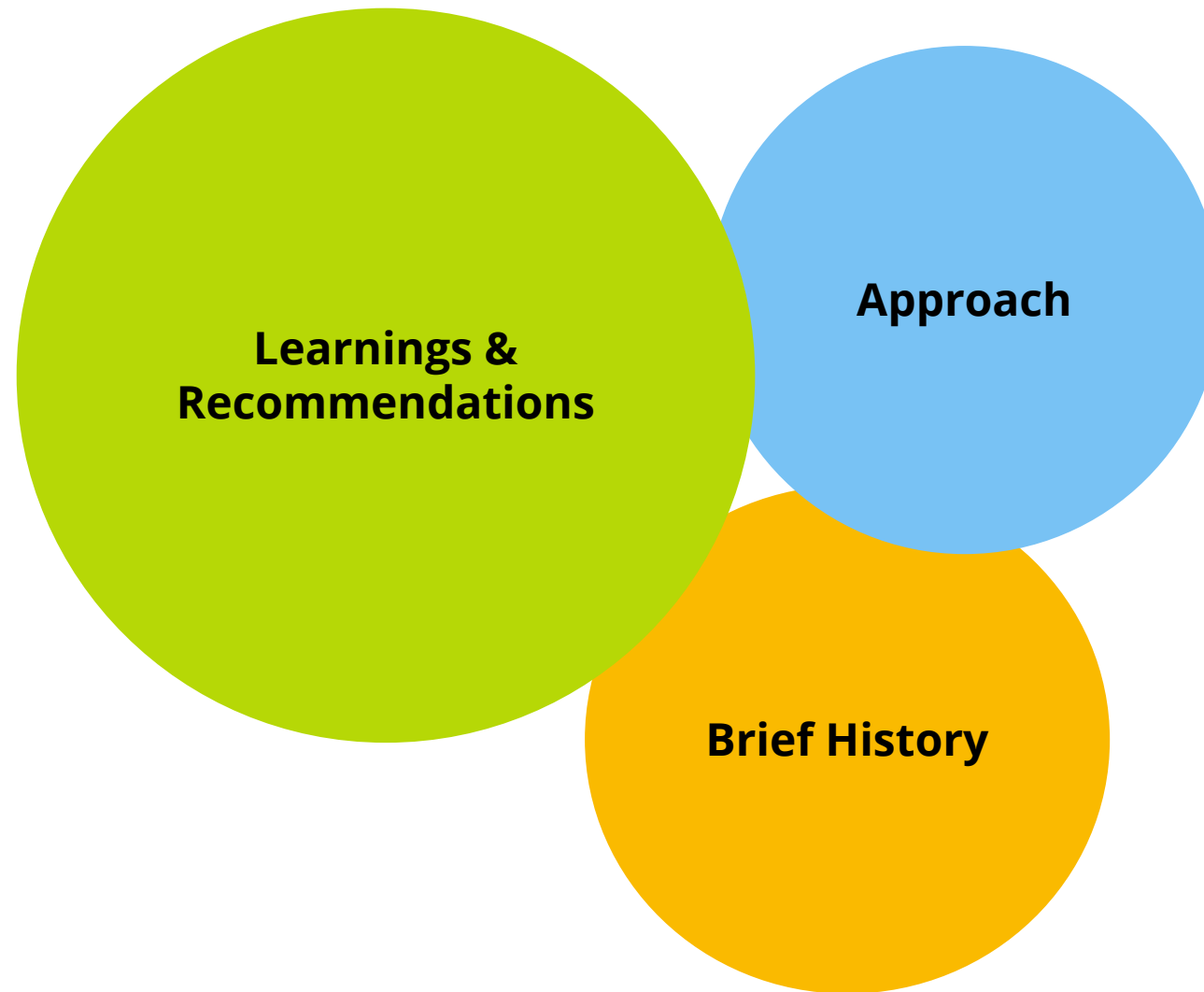


**Contribute Code
to your Project**

Helping Students Contribute Code to Open Source

Christos Bacharakis
Open Source Student Network
Program Manager
[@bacharakis](#)

Agenda



Open Source Student Network

moz://a

January 2017: Identifying the need of the Open Source Student Network

- Open Source is happening primarily outside the classroom
- There is significant interest but low literacy
- There are significant barriers to entry

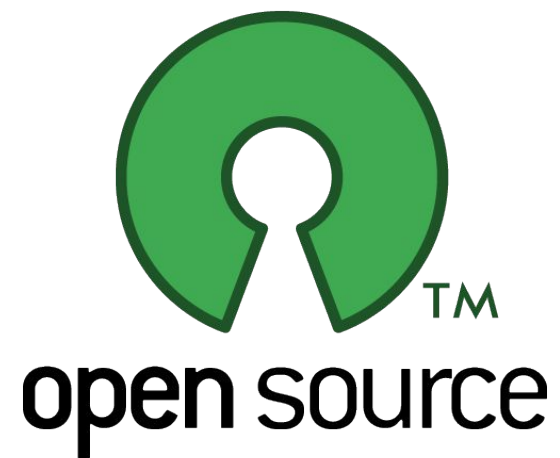
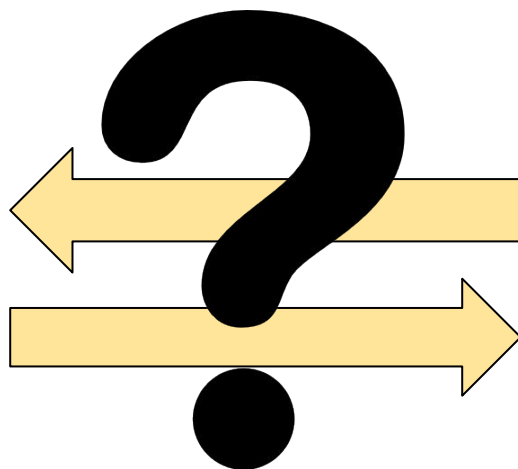
Open Source Student Network

moz://a

To fuel the open movement by creating and supporting a network of clubs on university and college campuses in the USA who are learning about and contributing to open source projects.



Approach



User journey towards Open Source contribution

Discovery

Identifying a project(s) to work on

Engagement

Diving more into the project - readme, issues, maintainer etc

Onboarding

Setting up the development environment and finding help

Contribution

Writing code, pushing it to the repo and opening a pull request

Retention

Figuring what to do after a successful contribution

Important Questions



What are the information students care about?



Which mentorship model is more successful?



What is the best way for surfacing contribution opportunities?

Approach



We are looking to **discover and/or validate opportunities and best practices** for supporting University Tech students throughout their journey towards contributing code to Open Source Projects.

User journey towards Open Source contribution

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Identifying a project(s) to work on

Engagement

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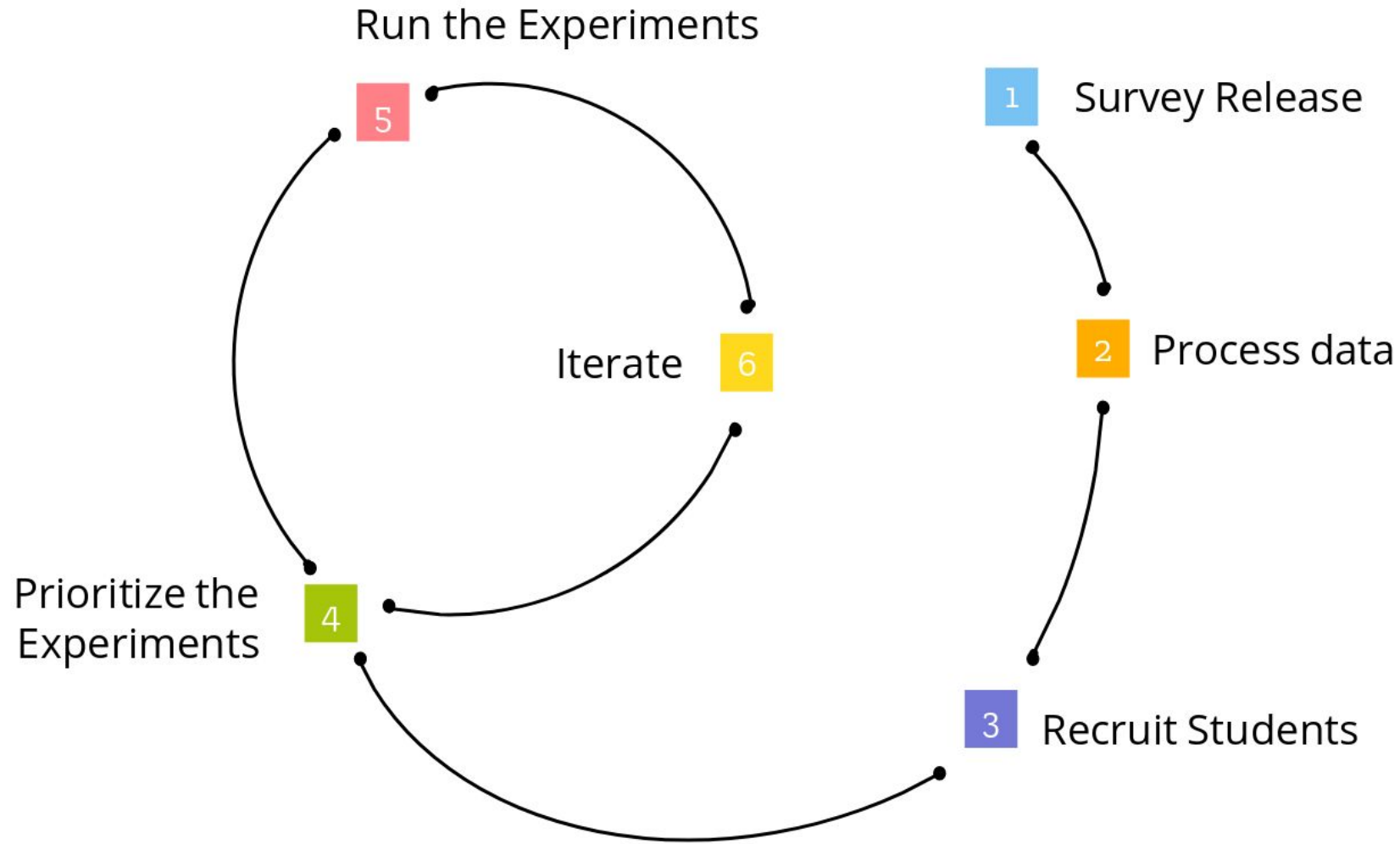
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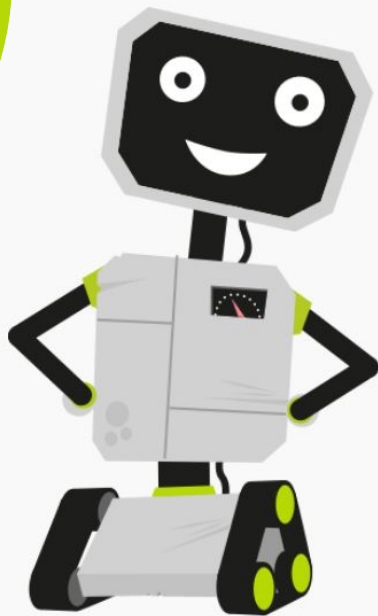
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Approach





Learnings & Recommendations



Common Voice

<https://voice.mozilla.org/en>

The Common Voice project is Mozilla's initiative to help teach machines how real people speak.

Voice is natural, voice is human. That's why we're fascinated with creating usable voice technology for our machines. But to create voice systems, an extremely large amount of voice data is required.

Most of the data used by large companies isn't available to the majority of people. We think that stifles innovation. So we've launched Project Common Voice, a project to help make voice recognition open to everyone.

Setup development environment time:

5' with Docker, 15' without it

[Instructions](#)

Technologies


Nodejs


Npm


Amazon S3


MariaDB


ffmpeg


Docker


Yarn

Contribute

[Contribute Code to Common Voice](#)

[Find easy tasks to begin with](#)

Additional resources

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Come chat with us on [Slack](#): [Invite link](#)

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Amazon S3



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ffmpeg



Docker



Yarn

Setup the development environment

Docker setup

We provide a [docker-compose](#) setup to orchestrate the local development environment configuration using [docker](#).

Requirements

- [docker](#)
- [docker-compose](#)

Setup

[Fork](#) and [clone](#) the repository onto your computer. Then run the following commands to spin off `voice-web` :

```
> cd voice-web
> docker-compose up
```

This is going to:

- Launch a mysql instance configured for `voice-web`
- Launch an s3proxy instance to store files locally and avoid going through setting up AWS S3.
- Mount the project using a docker volume to allow reflecting changes to the codebase directly to the container.
- Launch `voice-web` server

You can visit the website at <http://localhost:9000>.

Local setup

Requirements

[Fork](#) and [clone](#) the repository onto your computer.

Either create a MySQL root user that conforms to the default `DB_ROOT_USER` and `DB_ROOT_PASS` in `/server/src/config-helper.ts` or [create your own config](#).

Then `cd` into the project directory and enter the following commands:

```
yarn
```


Setup the development environment

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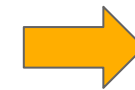
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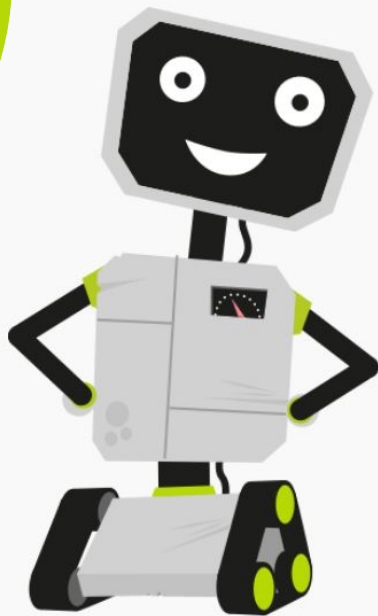
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5 minutes!



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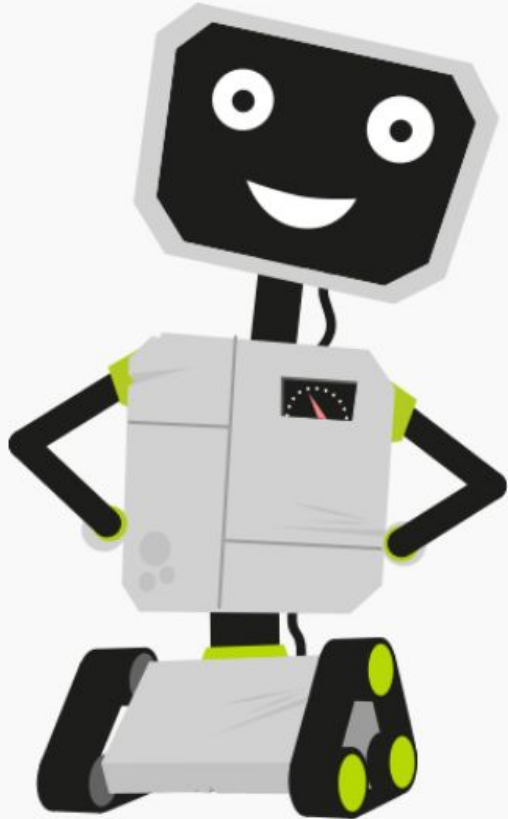
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Mission & project description upfront



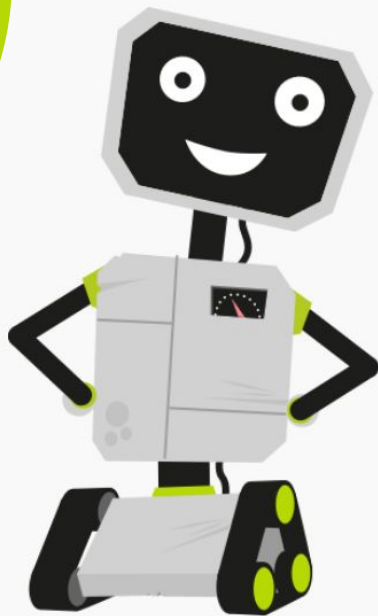
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Easy tasks to begin with

- ☐  **Required information not starred for adding projects** enhancement help wanted question 2
 #32 opened 27 days ago by jasmineflorencio
- ☐  **Incorrect issue count** bug help wanted 4
 #30 opened 27 days ago by jasmineflorencio
- ☐  **Documentation: create the about page** good first issue  8
 #29 opened 27 days ago by bacharakis
- ☐  **Search for differences between website and designs** good first issue 11
 #28 opened 27 days ago by alexdor
- ☐  **Background and foreground colors do not have a sufficient contrast ratio.** enhancement 10
good first issue
 #27 opened 27 days ago by alexdor

Easy tasks to begin with - documentation

Listen success: UI issues on iOS #1478

New issue

Open

rlentan opened this issue on Sep 20 · 0 comments

rlentan commented on Sep 20

Collaborator

+

😊

...

[Environment]:

iOS 11.4.1. Firefox , Chrome, Safari

Common Voice app

[Steps to reproduce]:

1. Open <https://voice.mozilla.org/en/new>

2. Go to Contribute -> Listen section

3. Listen 5 clips

[Actual result]:

1. "Ready to do more 5" text is cut at the bottom and the arrow is missing

2. Instead of "Log in/Sign up" is "Create a profile" button. The button is too small

3. The number of submitted clips is not displayed

No SIM

📶

14:33

📶

🔋

🔒

🛡️

voice.mozilla.org/en/listen

☰

⋮

Speak

Listen

📶

🔒

🛡️

🔋

📶

🔒

🛡️

🔋

📶

🔒

🛡️

🔋

Assignees

No one assigned

Labels

Type: Bug

help wanted

Projects

None yet

Milestone

No milestone

Notifications

Subscribe

You're not receiving notifications from this thread.

2 participants

📶

🔒

🛡️

🔋

CONTRIBUTING.MD

20 lines (14 sloc) | 647 Bytes

RawBlameHistory

Contributors

Greetings 🙌 for the contributors 😊

Fellow open web developers are most welcomed! 🥰

How can i contribute?

Following are help-in-need domains. We are open to accept any kind of contributions.

Contributing areas:

- Addon JS snippets for better integration.
- GNU Radio scripts development.
- Open Web practices.
- Project logo design - Logo should represent:
 - Name: `FirefoxB2BRC`
 - Theme containing `GNURadio` + `Firefox` for open internet.
 - Size: `320 x 320 px` - `450 x 450 px`
 - Open Design formats are appreciated. Make sure to send `SVG` along with `png`

CONTRIBUTING.MD

136 lines (96 sloc) | 5.97 KB

[Raw](#)[Blame](#)[History](#)

Contributing to Common Voice

🎉 First off, thanks for taking the time to contribute! This project would not be possible without people like you. 🎉

Code of Conduct

By participating in this project, you're agreeing to uphold the [Mozilla Community Participation Guidelines](#). If you need to report a problem, please see our [REPORTING.md](#) guide.

How Can I Contribute?

Add More Sentences

Help us add more sentences for other volunteers to read. See [issue 341](#) for details.

Bug Fixes and Feature Enhancements

All of our current issues can be found here on GitHub. Anything with a [help wanted](#) tag is up for grabs.

Project requirements

- [NodeJS](#) (v7 or higher)

The importance of the network



- Community Participation Guidelines - [link](#)
- Code of Conduct
- Office hours
- Communication channels

Recap

Mission and Project
description upfront



Specific technologies

Time to setup your dev
environment

Clear documentation
Easy tasks to begin with



Community
Participation
guidelines

Communication
mechanisms

You are a **coder**. Open-source projects need **your skills**.

We'll connect you with meaningful contribution opportunities!

LEARN MORE



TELL US A BIT ABOUT YOURSELF

I do my magic in JavaScript ×
and I'm looking for issues that are Easy & Bugfix

BECAUSE WE HAVE JUST FOR YOU

30 issues >

Filter

Technologies

- ☐ C
- ☐ C++
- ☐ CUDA
- ☐ Go
- ☐ HTML
- ☐ Java
- ☒ JavaScript
- ☐ Python
- ☐ Rust
- ☐ Sass
- ☐ TypeScript

Level of difficulty

- ☒ Easy
- ☒ Moderate
- ☐ Not sure

Type

- ☐ Enhancement
- ☒ Bugfix
- ☐ Not sure

Projects

- ☐ Firefox Focus for Android
- ☐ A-Frame
- ☐ Common Voice

Showing 0-20 of 174 issues

Workspace Comment Resize Icon Renders A Little Outside The Ws Comment Box

Blockly

Expected Behavior

Resize icon is always trimmed to the size of the comment box.

Actual Behavior

Resize icon renders a little outside the ws comment box (when comment is unselected) / highlight border (when comment is selected)

Thu Sep 27 2018

- Easy
- JavaScript
- Bugfix

Code Demo On IOS: Double Execution Upon Tapping Run

Blockly

<!-- - Thanks for opening an issue for us! Before you open an issue, - please check if a similar issue exists or has been closed before. - - If you're asking a question about how to use Blockly in your application, - please ask questions on the mailing list, instead of filing issues: - https://groups.google.com/forum/#!forum/blockly -->
Problem statement

On IOS Safari and Chrome, in the Blockly Code Demo, tapping the run button will execute the code twice.

Expected Behavior

Tapping the run button should only execute the code once.

Steps to Reproduce

On an iPad, open the Code Demo in either Safari or Chrome
Add one print block from the Text category.
Tap the run button.

Observe the alert dialog shows twice.

Operating System and Browser

<!-- TODO: If this issue is browser specific, uncomment the systems you have tested. --><!-- * Desktop Chrome --><!-- * Desktop Firefox --><!-- * Desktop Safari --><!-- * Desktop Opera --><!-- * Windows Internet Explorer 10 --><!-- * Windows Internet Explorer 11 --><!-- * Windows Edge -->
Device: iPad mini, 1st gen
OS: 9.3.5
Browser Safari, Chrome

Thu Sep 27 2018

- Easy
- JavaScript
- Bugfix

The Projects

Firefox Focus for Android

447 issues
17' setup



browser
android
privacy
mozilla

A-Frame

232 issues
1' setup



vr
webvr
virtualreality
threejs
html
vive
oculus
rift
game-engine
aframe
daydream
ecs
virtual-reality

Common Voice

188 issues



open-data
voice
crowdsourcing
internet-freedom

Ushahidi

51 issues
10 setup



Sahana

30 issues



Oppia

351 issues
2 hours setup



education
interactive
learning
python
appengine
tutor
web
javascript
nonprofit
angularjs

<https://fixme.ossn.club>

Mentorship?

Mentorship



Google
Summer of Code



Mentorship

- 3-6 month internships
- Paid
- Reviewing process for entering and graduating
- 1:1 mentorship
- 3-6 months strict planning



Google
Summer of Code

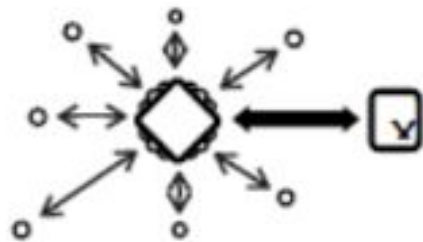


Students profile

- Limited time
- Have exams 4-6 times per year
- Come and go every two months
- Feel intimidated contributing code
- Don't (clearly) see the benefits of doing Open Source

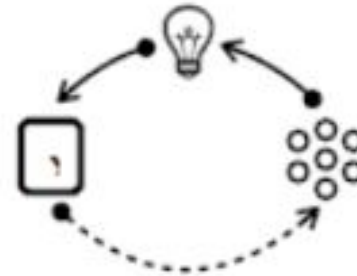
Design for students

Creating Together



*Sharing the tasks and costs
of achieving a pre-
established goal*

Soliciting Ideas



*Using a community to
generate ideas and
solutions*

A Framework for Open Practises

Mentorship with the right framework



- Design tasks/work deadline free
 - no urgent tasks/bugs, long release cycles, nice to have features
- Use the students crowdsourcing power for new ideas or solving issues
 - challenges, contests, new features ideation
- Help them solve an issue, not solve it for them

Next steps

- Use the recommendations to review your project and **apply** if necessary
- **Explore** the Framework of Open Practises here
- **Add** your project into the FixMe platform

Reach out for any suggestions or help
christos@mozilla.com

Slides can be found on my twitter:
[@bacharakis](https://twitter.com/bacharakis)