

PROJECT OVERVIEW

Rysolv is a crowdfunding platform designed to accelerate work on open source projects. Users sponsor outstanding issues or feature requests in open source projects. Developers earn bounties by resolving them.

Anna Pojawis and Tyler Maran launched the project in February 2020, and are working on it full time.

- The project repository can be found at <https://github.com/rysolv/rysolv> and the project is soon to be live at rysolv.com
- See project screenshots on pages 4 - 6

THE PROBLEM

Open source software ensures the independence of the web, however building and maintaining projects is no small task.

- Maintainers are often not rewarded for the contributions they make
- Existing fundraising platforms place additional strain on project maintainers.
- Projects struggle to find new contributors. And developers have a hard time being introduced to projects.

OUR SOLUTION

Rysolv connects users with developers allowing them to support software they care about. Users can fund open source projects issue by issue, and developers get paid for working on their passions

Getting support behind projects

- While there are a variety of crowdfunding applications today, their focus is much more broad, and campaigns can take a lot of effort to run. Rysolv does not place the impetus on project maintainers to also manage their fundraising. Any user can list issues on the platform and add bounties to get them resolved.
- Users funding issues and features helps identify the most desired fixes.

Reward contributors for their work

- Rysolv allows contributors to be compensated for the work they put in. Whatever bounty is assigned to an issue will be automatically awarded to the developer on a successful pull request.
- Unlike traditional one time fundraising, Rysolv helps create a continuous relationship between contributors and backers.

Attracting more developers into open source

- Foster initial contributions by offering bounties on issues
- Allows developers to earn an income while advancing projects they use

STATE OF DEVELOPMENT

Rysolv has been under full time development for four months, bringing the product to a functional prototype. The current functionality includes:

- Creating new issues (manual or imported from Github)
- Contributing funding to a new issue
- Submitting a pull request resolving an issue
- Following, attempting, and commenting on issues

Work plan (how will we attain an MVP over the next 8 weeks)

- Continue payments testing with Stripe / Paypal
- Build integrations with additional Git services (Gitlab, Bitbucket, etc.)
- Incorporate additional sign-in options (Github / Gitlab) to allow for better event hooks
- Accumulate a list of outstanding issues to populate the site
- Deploy and beta test the product

COMPETITION

While there is a variety of successful crowdfunding platforms already active, there are very few that allocate funds down to a specific issue or feature. Existing fundraising is entirely tangential to issue tracking. There are two primary competitors in our specific market: GitCoin and IssueHunt.

- Gitcoin.co
 - Active community. Broad crypto funding platform. Includes issue bounties but exclusively in crypto.
- IssueHunt.io
 - Focused primarily on issue bounties. Less active community. Exclusively Github support.

The Rysolv advantage

Gitcoin.co demonstrates that the concept of crowdfunded issues can be very successful. However, their crypto only focus leaves out a major market. IssueHunt addresses the general development ecosystem, but is limited to only issues posted on Github, and does not allow adding issues the user doesn't own.

At a minimum Rysolv will support Github and Gitlab, and currently allows manually created issues and organizations. We will also allow users to post any available issues to the site.

TECH STACK

Rysolv is built on a React front end with a Node/Express/GraphQL API and a PostgreSQL database.

- Payment processing uses the Stripe API and embedded Paypal Checkout.
- This site will be deployed using NGINX and AWS EC2 instances. User authentication is handled through AWS Cognito.
- Issues and Organization are imported using the Github API.

Planned upgrades

- One major limiting factor in our design is the integration of multiple Git Clients. As it stands, integrations will require custom implementations for each API (Github, Gitlab, Bitbucket, etc.).
- To make Rysolv totally client agnostic, we plan to build a custom Git server. New issues added to the site will mirror the parent repository. This upgrade gives Rysolv better event hooks into pull-requests, forks, and merges.

REVENUE MODEL

Rysolv will take a percentage fee from each cash withdrawal from the site.

- Funds donated to issues will be subject to a ~3% transaction fee corresponding the relevant Stripe / Paypal fees.
- Once funds are in a developer's account, they can be freely transferred to issues and organizations.
- A bounty is automatically awarded to a user when a submitted pull request is successfully merged into the target repo.
- Any funds a developer earns can be contributed to other issues and organizations, or withdrawn.

THE TEAM

Both of us are ex-investment bankers who transitioned into software engineering roles after a couple of years of working in finance. Having worked with numerous companies in various growth stages and industries, we understand the factors that make a company successful or not.



[Anna Pojawis](#)

 github.com/annapo23

I am a Full-Stack developer with approx. two years of industry experience. I have been working on the San Francisco engineering team of a mortgage subservicing company. The tech stack that I am most fluent in is Node for the backend, React/Redux for the UI, and GraphQL for the client/server communication layer. I have extensively worked with both SQL (MySQL/PostgreSQL) and NoSQL (MongoDB) databases, and am comfortable using both.



[Tyler Maran](#)

 github.com/tylermaran

 tylermaran.com

Developer, builder, self-starter. I believe in open source, the open web, and decentralized platforms. I am the treasurer for Noisebridge, a non-profit Hackerspace in San Francisco, where I work to build community infrastructure and drive donations.

Tech: Node, React, Redux, PostgreSQL, MongoDB, GraphQL, Electron, ThreeJS, AWS

Issue Overview: This view lets contributors fund issues, and lets developers choose what issues to work on

Issues

Find an issue... Sort by: Newest

Filters

Language

Organization

Price Range

Status

Type

Issues List:

- Tailscale** (26) Food fight when two remote nodes share the same key (probably due to cloning) 7 minutes ago. \$24.50
- Hugging Face** (25) Transformer-XL: Input and labels for Language Modeling 8 minutes ago. \$200.00
- Ant Design Team** (25) Dynamic hide and display steps not working 10 minutes ago. \$10.00
- The V Programming Language** (25) 'strconv.format_dec' is public but 'BF_param' not 11 minutes ago. \$0.00
- OBS** (42) Date Picker text field shows errors when switching back from Calendar mode 15 minutes ago. \$20.00
- SuperTuxKart** (40) The kart is stuck (sliding) to wall when exiting your car parking backwards 15 minutes ago. \$0.50
- SuperTuxKart** (40) [Physics problems] the kart is stuck (sliding) to wall when exiting your car parking backwards 15 minutes ago.

Issue Detail View and Funding: This view is a deep dive on the issue from the previous screen.

Issue Detail View

Nix/Nixpkgs/NixOS Issue opened 5/31/2020

Caddy 2: custom plugins support

Opened by **annapo** on 5/31/2020

There should be exposed `vendorSha256` and `plugins` options to allow generating and compiling Caddy v2 with additional plugins.

Example:

```
'''nix { services.caddy = { enable = true; vendorSha256 = "0bm80sc65ac38jhfyaig2hw6dy76gvxpdfmck3l99vg1bbigp36l"; plugins = [ "github.com/mholt/caddy-webdav" ]; config = " { order webdav last }"; }
```

Status: Open Issue

Languages: Nix

Watch: 0 Watch 0

Pull Requests: 0 Pull Requests

Funding: \$0.00 Unfunded

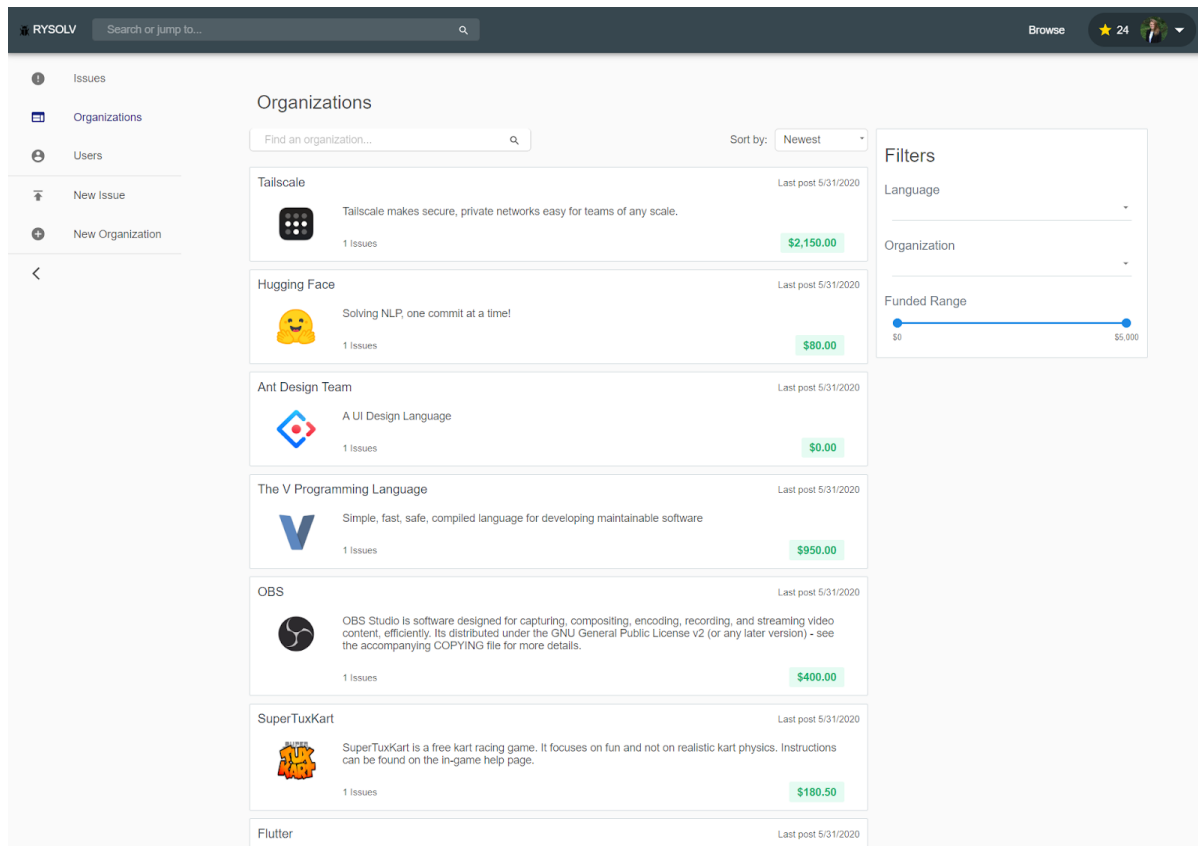
Information: Name, Email

Payment Methods: Credit Card, Paypal

Comments: No comments

Leave a Comment: Type here. Use Markdown or HTML to format.

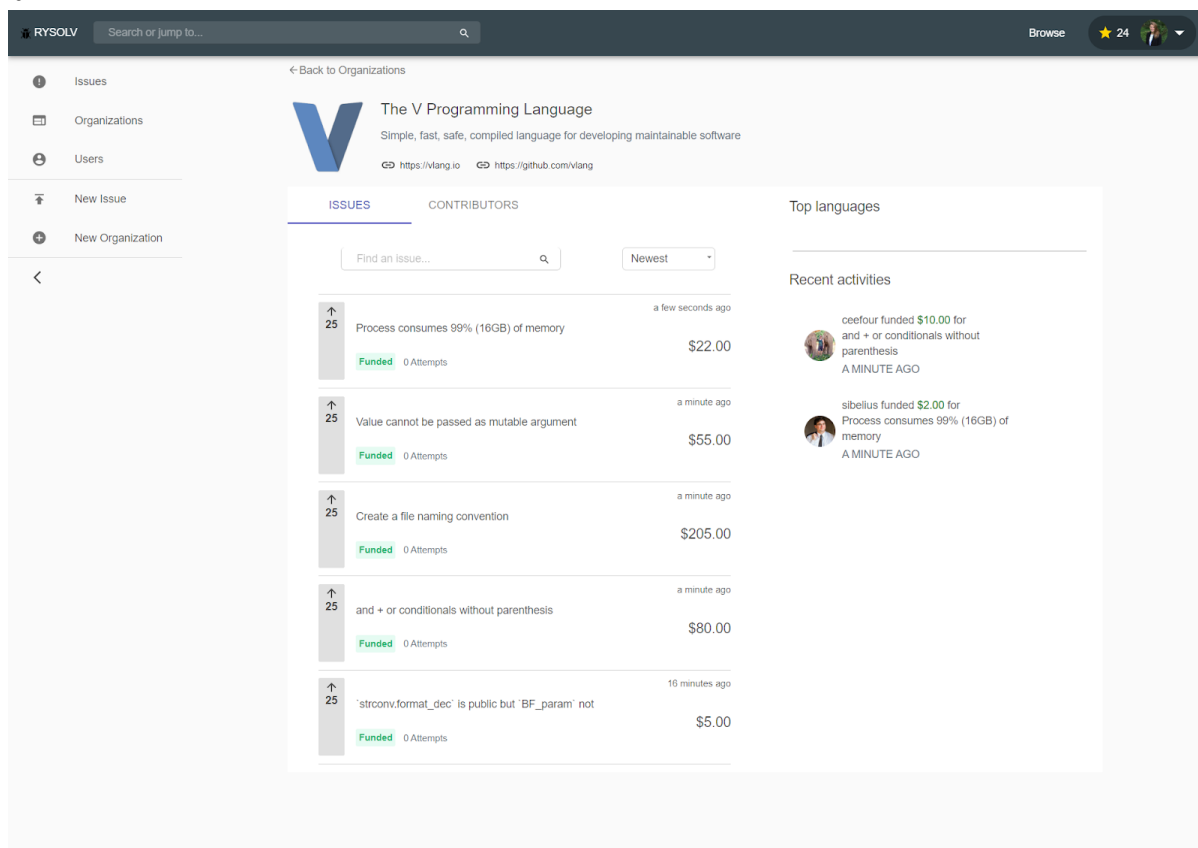
Organization Overview: This view shows the list of organizations listing issues on the site



The screenshot shows the Rysolv Organizations page. The left sidebar contains navigation links: Issues, Organizations (selected), Users, New Issue, and New Organization. The main content area is titled "Organizations" and features a search bar, a "Sort by: Newest" dropdown, and a list of organizations. Each organization entry includes its logo, name, description, last post date, number of issues, and a funded amount. The right sidebar contains filters for Language, Organization, and a Funded Range slider.

| Organization | Description | Last post | Issues | Funded |
|----------------------------|---|-----------|--------|------------|
| Tailscale | Tailscale makes secure, private networks easy for teams of any scale. | 5/31/2020 | 1 | \$2,150.00 |
| Hugging Face | Solving NLP, one commit at a time! | 5/31/2020 | 1 | \$80.00 |
| Ant Design Team | A UI Design Language | 5/31/2020 | 1 | \$0.00 |
| The V Programming Language | Simple, fast, safe, compiled language for developing maintainable software | 5/31/2020 | 1 | \$950.00 |
| OBS | OBS Studio is software designed for capturing, compositing, encoding, recording, and streaming video content, efficiently. Its distributed under the GNU General Public License v2 (or any later version) - see the accompanying COPYING file for more details. | 5/31/2020 | 1 | \$400.00 |
| SuperTuxKart | SuperTuxKart is a free kart racing game. It focuses on fun and not on realistic kart physics. Instructions can be found on the in-game help page. | 5/31/2020 | 1 | \$180.50 |
| Flutter | | 5/31/2020 | | |

Organization Detail View: A view of issues posted by organizations to let developers and contributors give to the causes they most care about.



The screenshot shows the Rysolv Organization Detail View for "The V Programming Language". The left sidebar is the same as the Organizations page. The main content area has a "Back to Organizations" link, the organization's logo, name, description, and links to its website and GitHub repository. Below this are tabs for "ISSUES" (selected) and "CONTRIBUTORS". The "ISSUES" tab shows a list of issues with a search bar, a "Newest" dropdown, and a list of issues. Each issue entry includes its title, a "Funded" status, the number of attempts, and the funded amount. The right sidebar contains "Top languages" and "Recent activities".

| Issue | Funded | Attempts | Funded Amount |
|---|--------|----------|---------------|
| Process consumes 99% (16GB) of memory | Funded | 0 | \$22.00 |
| Value cannot be passed as mutable argument | Funded | 0 | \$55.00 |
| Create a file naming convention | Funded | 0 | \$205.00 |
| and + or conditionals without parenthesis | Funded | 0 | \$80.00 |
| 'strconv.format_dec' is public but 'BF_param' not | Funded | 0 | \$5.00 |

Importing an Issue: Import an issue with a single link from Github

The screenshot shows the Rysolv web application interface. On the left is a sidebar with navigation links: Issues, Organizations, Users, New Issue, and New Organization. The main content area displays an issue imported from GitHub. The issue is titled "Installation Error - Failed building wheel for tokenizers" and is categorized as a "Bug". It was opened by user "annapo" on 5/31/2020. The issue body contains detailed information about the problem, including the model used (Bert, XLNet...), the language (English, Chinese...), and the specific error message: "error: can not find Rust Compiler". It also includes steps to reproduce the issue and a terminal log snippet showing the error.

Organization
Hugging Face
<https://github.com/huggingface>

Issue
Installation Error - Failed building wheel for tokenizers
<https://github.com/huggingface/transformers/issues/2831>

Opened by **annapo** on 5/31/2020

Bug

Information

Model I am using (Bert, XLNet ...): N/A

Language I am using the model on (English, Chinese ...): N/A

The problem arises when using:

- the official example scripts: (give details below)

Problem arises in transformers installation on Microsoft Windows 10 Pro, version 10.0.17763

After creating and activating the virtual environment, installing transformers is not possible, because the following error occurs:

"error: can not find Rust Compiler" "ERROR: Failed building wheel for tokenizers" Failed to build tokenizers ERROR: Could not build wheels for tokenizers which use PEP 517 and cannot be installed d

The tasks I am working on is: [X] transformers installation

To reproduce

Steps to reproduce the behavior:

- From command line interface, create and activate a virtual environment by following the steps in this URL: <https://packaging.python.org/guides/installing-using-pip-and-virtual-environments/>
- Install transformers from source, by following the example in the topic From Source on this URL: <https://github.com/huggingface/transformers>

```
-m pip --version
-m pip install --upgrade pip
-m pip install --user virtualenv
-m venv env
.env\Scripts\activate
pip install transformers
```

ERROR: Command errored out with exit status 1:
command: 'c:\users\vbrandao\env\scripts\python.exe' 'c:\users\vbrandao\env\lib\site-

User Account Management: View of a developers profile, with earnings and contributions

The screenshot shows the Rysolv web application interface for a user profile. The left sidebar is the same as in the previous screenshot. The main content area displays the profile of Anna Pojawis. It includes a profile picture, name, username (annapo23), email (anna-pojawis), and 25 credits. Below this is a ranking section showing 76 Total Pull Requests and \$93 Earned, with tags for Javascript, Rust, and Go. The right sidebar shows account management options: Overview, Account, Issues, Organizations, and Pull Requests. The Account section includes fields for First Name (Anna), Last Name (Pojawis), Username (annapo), and E-mail (anna.pojawis@gmail.com). Below this is a Balance section showing Lifetime earnings of \$93.00 and Current account balance of \$85.00. There are buttons for Add Funding and Withdraw Funding. At the bottom, there is a Statements section with a table showing no statements to display.

Anna Pojawis
annapo23
anna-pojawis
25 credits

Ranking
76 Total Pull Requests (Details)
\$93 Earned
Javascript Rust Go

Activity
Joined 3 hours ago

Account

First Name: Anna
Last Name: Pojawis
Username: annapo
E-mail: anna.pojawis@gmail.com

Balance

Lifetime earnings: \$93.00
Current account balance: \$85.00

Add Funding
Add money to your account. 3.6% will be charged as a transaction fee.

Withdraw Funding
Transfer money from your account.

Statements Work History

View list of previous statements. You can also click on them to view as a PDF document.

| Statement number | Statement date | Amount | Paid on | Document |
|---|----------------|--------|---------|----------|
| There are currently no statements to display. | | | | |