How to find "Good First Issues"

Quipper Limited

@ohbarye at Roppongi.js#4

If you:

- want to contribute OSS
- are struggling to find a repository or an issue to contribute
- (would rather you preferred major OSS ©)

This talk would be helpful to you.

Content

A tip to find "Good First Issues" with a script to make an issue list.

- This talk focuses on just a way to find them.
- See OSS貢献超入門 if you want to know next steps.

Issue List

First of all, see the "good first issue" list.

	Α	В	С	D	E
1	owner	name	stars	title	url
2	vuejs	vue	103892	warn if \$set is used on a property that already exist	https://github.com/vuejs/vue/issues/8129
3	vuejs	vue	103892	Creating a component named map should warn the user (as with button)	https://github.com/vuejs/vue/issues/8025
4	vuejs	vue	103892	Make the warning messages more explicit	https://github.com/vuejs/vue/issues/7764
5	vuejs	vue	103892	2.5.14 introduces TypeError bind is not a function	https://github.com/vuejs/vue/issues/8017
6	facebook	react	103700	Nicer Formatting of SSR Validation	https://github.com/facebook/react/issues/10085
7	facebook	react	103700	Ignore <noscript> content on the client and don't warn about mismatches</noscript>	https://github.com/facebook/react/issues/11423
8	facebook	react	103700	Children of option tags flattened when select has value	https://github.com/facebook/react/issues/11602
9	facebook	react	103700	False positive getDefaultProps warning when mixing development and production versions	https://github.com/facebook/react/issues/9999
10	nodejs	node	50510	Inconsistent documentation: hostname vs host	https://github.com/nodejs/node/issues/20892
11	nodejs	node	50510	Debugging: name every function	https://github.com/nodejs/node/issues/8913
12	nodejs	node	50510	dns.js not properly iterating through DNS array	https://github.com/nodejs/node/issues/21391

BTW, what is "good first issue"?

	А	В	С	D	E
1	owner	name	stars	title	url
2	vuejs	vue	103892	warn if \$set is used on a property that already exist	https://github.com/vuejs/vue/issues/8129
3	vuejs	vue	103892	Creating a component named map should warn the user (as with button)	https://github.com/vuejs/vue/issues/8025
4	vuejs	vue	103892	Make the warning messages more explicit	https://github.com/vuejs/vue/issues/7764
5	vuejs	vue	103892	2.5.14 introduces TypeError bind is not a function	https://github.com/vuejs/vue/issues/8017
6	facebook	react	103700	Nicer Formatting of SSR Validation	https://github.com/facebook/react/issues/10085
7	facebook	react	103700	Ignore <noscript> content on the client and don't warn about mismatches</noscript>	https://github.com/facebook/react/issues/11423
8	facebook	react	103700	Children of option tags flattened when select has value	https://github.com/facebook/react/issues/11602
9	facebook	react	103700	False positive getDefaultProps warning when mixing development and production versions	https://github.com/facebook/react/issues/9999
10	nodejs	node	50510	Inconsistent documentation: hostname vs host	https://github.com/nodejs/node/issues/20892
11	nodejs	node	50510	Debugging: name every function	https://github.com/nodejs/node/issues/8913
12	nodejs	node	50510	dns.js not properly iterating through DNS array	https://github.com/nodejs/node/issues/21391

Apply the help wanted and good first issue labels to issues in your repository to highlight opportunities for people to contribute to your project.

https://help.github.com/articles/helping-new-contributors-find-your-project-with-labels/

How to make the list

To make it, I wrote a simple script in https://github.com/ohbarye/goofi.

- 1. Call GitHub GraphQL API
- 2. Format its response
- 3. Create CSV

GraphQL Query

```
GraphiQL
                       Prettify
                                 History
      search(first: 100, query: "language:javascript good-first-issues:>1 stars:>500", type: REPOSITORY) {
 2 -
 3
        repositoryCount
        pageInfo {
 4 -
          startCursor
 5
 6
          endCursor
 7
          hasNextPage
 8
 9 -
        nodes {
10 -
          ... on Repository {
11
            owner {
12
              login
13
            }
14
            name
15
            url
            issues(first: 100, labels: ["good first issue"], states: OPEN, orderBy: {field: UPDATED_AT, direction: DESC}) {
16 -
17
              totalCount
18
              nodes {
19
                title
20
                url
21
22
23
            stargazers {
24
              totalCount
25
26
          }.
27
28
```

"good-first-issues:>1"

ref: GitHub help

"stars:>500"

```
search(first: 100,
    query: "language:javascript good-first-issues:>1 stars:>500,
    type: REPOSITORY) {
```

ref: GitHub help

Response

```
"data": {
  "search": {
    "repositoryCount": 197,
    "pageInfo": {
      "startCursor": "Y3Vyc29y0jE=",
      "endCursor": "Y3Vyc29y0jEwMA==",
      "hasNextPage": true
   },
    "nodes": [
        "owner": {
          "login": "vuejs"
        },
        "name": "vue",
        "url": "https://github.com/vuejs/vue",
        "issues": {
          "totalCount": 4,
          "nodes": [
              "title": "warn if $set is used on a property that already exist",
              "url": "https://github.com/vuejs/vue/issues/8129"
            },
```

Once we can easily get data via the GitHub API, it's not a hard task to format the data.

```
writeIssues(repository) {
  const owner = repository.owner.login;
  const name = repository.name;
  const stars = repository.stargazers.totalCount;
  repository.issues.nodes.forEach((issue) => {
    const title = issue.title;
    const url = issue.url:
    this.writer.write({owner, name, stars, title, url});
  });
```

Now that we have the candidate list, all we have to do is check issues one by one.

	Α	В	С	D	E
1	owner	name	stars	title	url
2	vuejs	vue	103892	warn if \$set is used on a property that already exist	https://github.com/vuejs/vue/issues/8129
3	vuejs	vue	103892	Creating a component named map should warn the user (as with button)	https://github.com/vuejs/vue/issues/8025
4	vuejs	vue	103892	Make the warning messages more explicit	https://github.com/vuejs/vue/issues/7764
5	vuejs	vue	103892	2.5.14 introduces TypeError bind is not a function	https://github.com/vuejs/vue/issues/8017
6	facebook	react	103700	Nicer Formatting of SSR Validation	https://github.com/facebook/react/issues/10085
7	facebook	react	103700	Ignore <noscript> content on the client and don't warn about mismatches</noscript>	https://github.com/facebook/react/issues/11423
8	facebook	react	103700	Children of option tags flattened when select has value	https://github.com/facebook/react/issues/11602
9	facebook	react	103700	False positive getDefaultProps warning when mixing development and production versions	https://github.com/facebook/react/issues/9999
10	nodejs	node	50510	Inconsistent documentation: hostname vs host	https://github.com/nodejs/node/issues/20892
11	nodejs	node	50510	Debugging: name every function	https://github.com/nodejs/node/issues/8913
12	nodejs	node	50510	dns.js not properly iterating through DNS array	https://github.com/nodejs/node/issues/21391

Another way

Use Jasper



A flexible and powerful issue reader for GitHub

Download App

30-day Free Trial for Mac

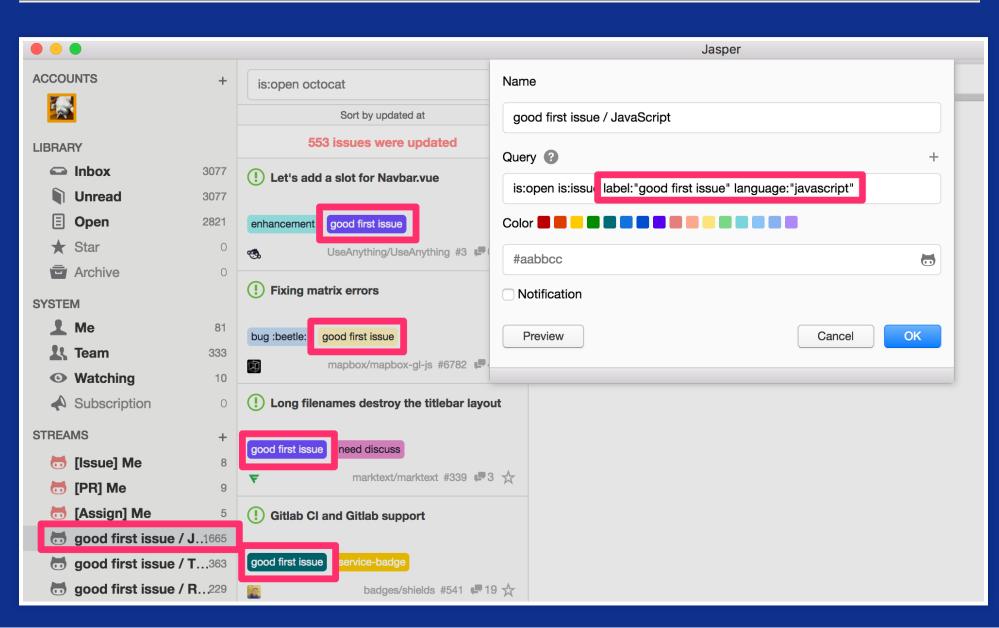
Other Downloads / Beta Downloads

Buy License \$12

Mac / Windows / Linux

Important notice for old app

Create a stream to find "good first issues"



NOTE

I used to find issues with this way, but...

- It cannot sort repositories by stars count
- It cannot reject wrong usage of "good first issue"
- It notifies me every when an issue is updated

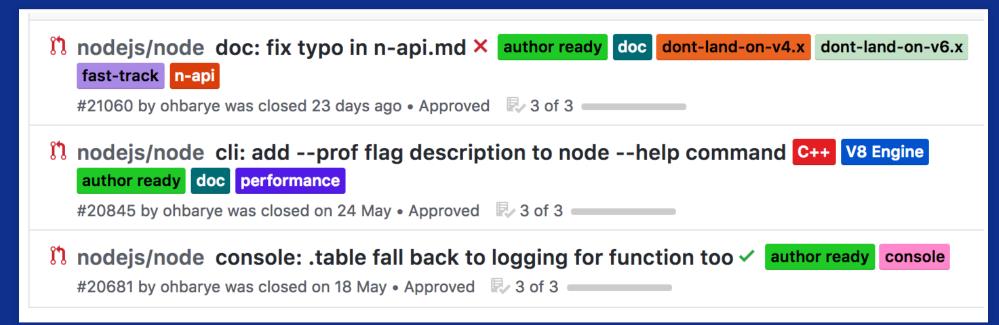
In short, that was too noisy.

Are they really nice ways?



At least, I could have contributed some popular repositories even though I was not familiar with them.

e.g. Node.js



Let's find your "good first issues" And contribute!

Who?



- @ohbarye http://ohbarye.me/
- Web Developer / Engineering Manager
 Working for Quipper

7/19 (Thu) 19:30-22:00

https://techplay.jp/event/680406

