

# 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貢獻超入門](#) if you want to know next steps.

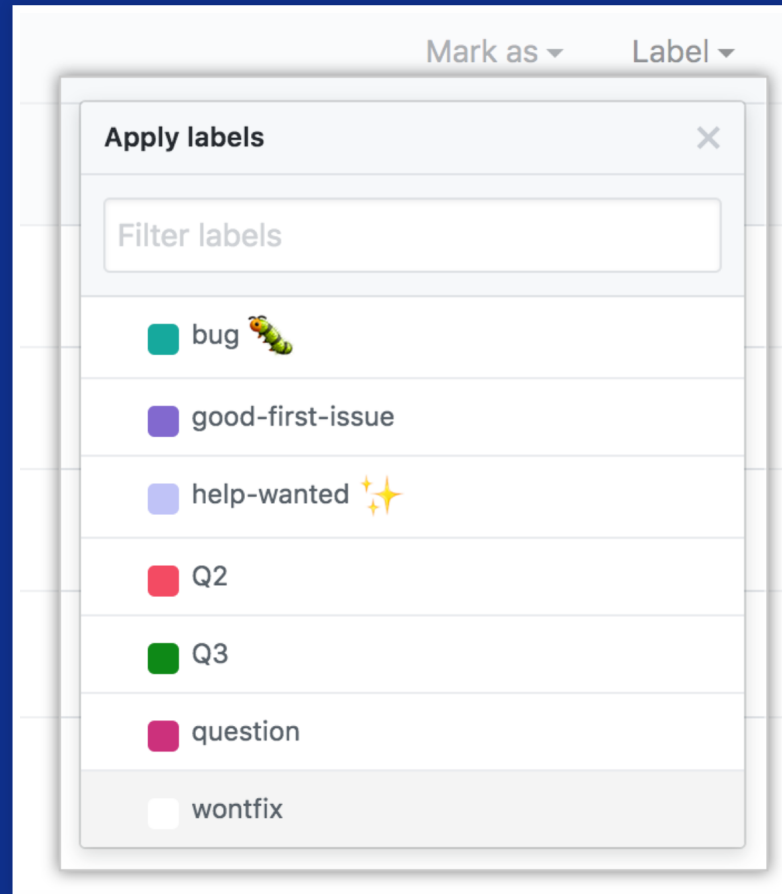
# Issue List

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

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

# BTW, what is "good first issue"?

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*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>.

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



# GraphQL Query

GraphiQL



Prettify

History

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

# "good-first-issues:>1"

---

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

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": "Y3Vyc29yOjE=",
        "endCursor": "Y3Vyc29yOjEwMA==",
        "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.

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# Another way

Use Jasper



## 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"

The screenshot shows the GitHub web interface with a 'Jasper' modal open for creating a new stream. The modal is titled 'Jasper' and contains the following fields:

- Name:** good first issue / JavaScript
- Query:** is:open is:issue label:"good first issue" language:"javascript" (highlighted with a red box)
- Color:** #aabbcc
- Notification:** ☐

The modal has 'Preview', 'Cancel', and 'OK' buttons. In the background, the GitHub interface shows a list of issues with labels like 'good first issue' highlighted in red boxes.



# 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.

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e.g. Node.js

 **nodejs/node** doc: fix typo in n-api.md ✖ **author ready** **doc** **dont-land-on-v4.x** **dont-land-on-v6.x**  
**fast-track** **n-api**

#21060 by ohbarye was closed 23 days ago • Approved  3 of 3 

 **nodejs/node** cli: add --prof flag description to node --help command **C++** **V8 Engine**  
**author ready** **doc** **performance**

#20845 by ohbarye was closed on 24 May • Approved  3 of 3 

 **nodejs/node** console: .table fall back to logging for function too ✔ **author ready** **console**

#20681 by ohbarye was closed on 18 May • Approved  3 of 3 

**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>

# スタディサプリ

Product Meetup #1

