

Hacktober FEST 2020

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Let's Talk About Open-Source!

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About Me



A Third Year Computer Science Engineering Student at JSSATE, NOIDA.



A Google Summer of Code Student Developer at RTEMS (2020).



Smart India Hackathon Winner 2020.



Above all things are just temporary and name sake - the learner in us is permanent and that is what we should proudly carry and flaunt :).



Today, I will not talk to you, you will speak to me!

1. Absence of right motivation, like why should I contribute?
2. Improper knowledge of GitHub and that feeling of "log kya sochenge"?

Git Commands always used to screw my contributions. I also had this misconception that in order to contribute to a project I should understand whole code base.

1. Sometimes projects look very overwhelming because of a lot of issues, contributors, long documentations.
2. Not a lot of experience in contributing on github projects.
3. Lack of knowledge of how to find the best suited project or task to contribute to.

When I started off with my open-source journey I did not know how to find the issue to start with, no one tells just to get started you can go for little issues related to doc.

A doc PR is really good to bring satisfaction. Then you can start with mainstream coding related PRs.

1. Don't able to understand to huge code base.
2. How to write good test cases.
3. Maintaneners usually take a lot of time to reply.

Lake of understanding about project and from where and how to start project.

Poor understanding of the codebase (many times due to improper documentation)

Ofcourse stability, no process mgmt & control, unbounded scope. Nothing will actually stop from first contribution

1. Big sized projects look really overwhelming.
2. I don't understand this part, but is it ok to ask it to the maintainers? They won't think I am stupid right? 🤔

1. The projects and the necessities seem very overwhelming?
2. Also not being able to pick which one to contribute?



Why Contribute to Open-Source?

- Impact! Your one small contribution is going to affect (mostly) millions of users using that Open-Source Project!
- Experience! Open-Source is like an intersection of a Startup and an established organisation.
- Leverage to your Career.
- Experience of Paid Mentorship Programs like: Google Summer of Code, Community Bridge Mentorship, Outreachy!
- New Relations with so many helpful people like you!



Git and GitHub

- Before starting with Open-Source, the knowledge of Git and GitHub is helpful!
 - Do you need to know everything about Git and GitHub? No!
 - Start wherever and how much you know – you will have to start somewhere at the end of the day!
 - Don't worry about what people will think or say! People will always have to say something about you!
 - If you are doing it wrong in the start, you are doing it right for the end :)
- Useful Resources to learn the basics of Git and GitHub:
 - [The beginner's guide to Git & GitHub](#)
 - [How to contribute to Open-Source Software with Git & GitHub.](#)
 - [How To Create a Pull Request on GitHub](#)



Problem of Huge Code Base?

- No, no, no! You don't need to know and understand every part of the Open-Source Project!
- Self-evalutate - What are you good at? And then choose the Project and then in that project start working on that part which you are good at – like front-end?
- Find beginner-friendly issues! How?
- Before finding issues, finding a beginner-friendly project is more important, let's discuss how to do it?





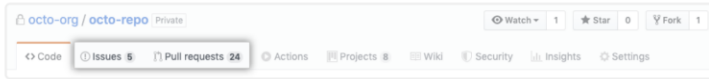
Finding Beginner- Friendly Projects!

- The best way, go to this link: <http://www.firsttimersonly.com/>
- This repository is all yours, go ahead and contribute, just after this talk: <https://github.com/firstcontributions/first-contributions>
- Another easy to contribute project - <https://opensourcefriday.com/>
- Using labels to find issues as well as to find projects, How? Find next...



Finding beginner-friendly issues!

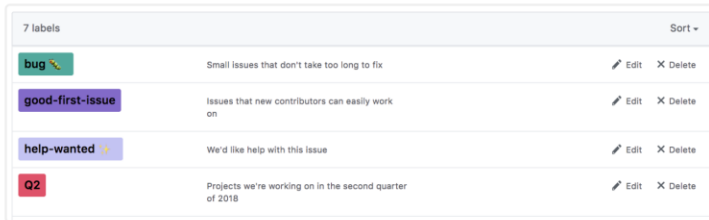
- 1 On GitHub, navigate to the main page of the repository.
- 2 Under your repository name, click  **Issues** or  **Pull requests**.



- 3 Above the list of issues or pull requests, click **Labels**.



- 4 In the list of labels, click a label to see the issues and pull requests that it's been applied to.



- Labels like **'good-first-issue'**, **'difficulty-level:beginner'** will help you a lot to find that first issue which was just meant for you :)
- Using 'Topics', yes If there's a particular topic that interests you, visit github.com/topics/<topic>. For example, if you are interested in machine learning, you can find relevant projects and good first issues by visiting <https://github.com/topics/machine-learning>.
- If you already know what project you want to work on, you can find beginner-friendly issues in that repository by visiting github.com/<owner>/<repository>/contribute. For example: to electron/electron at <https://github.com/electron/electron/contribute>.



Reading and Improving (*in a meaningful way*) the Documentation!

- Docs are the most important thing an Open-Source Project!
- No one wants to write the docs, but everybody wants the doc!
- Write the doc is your responsibility – yes that's right! If you are making changes in codebase that affects the users and contributors – you have to document it because you will need it the most!
- Most docs are beginner-friendly and if they are not – don't begin with those projects – Simple!



Ask, Ask, Ask!

- Yes, if you still require better understanding of anything in an Open-Source Project and you are trying to make a start and have read the relevant blogs and docs – Ask the Community!
- Any Open-Source Project is not just a Project, it's a Community and what does Community needs? You – the People! And it will welcome you – no matter what or how much you know :)
- You may get replies but you will certainly get one! So, be patient!



My own Journey in Open-Source and as a Google Summer of Code Student!

In open source we all stand on the shoulders of others

Blogs entailing my journey:

- [Not that another GSoC Journey](#)
- [GSoC Final Project Report](#)



Amazing Open-Source Programs/Fests other than GSoC!

- Hacktoberfest
- Community Bridge Mentorship Program
- Outreachy Program
- Google Season of Docs



Your Questions?



Connect with me :)



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