

AstroSonic

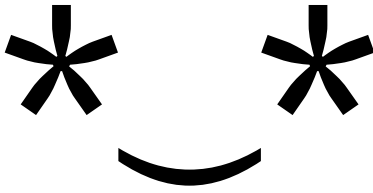
A provider of leading-edge open-source solutions to modern problems

CONTRIBUTOR'S MANUAL

v0.0.2

21st May 2020

This documentation is licensed under GPL v3.0.



Welcome to AstroSonic

We are a budding community of open-source developers with nothing but computing devices, coding competency and big dreams in our minds. The reason why we all unite here is to leverage technology and automation to build cool applications and services as a solution to modern day problems all while learning from the experiences and having fun while doing so. No matter how old you are or how experienced you are at developing softwares – we do realize that there is a first time for everything.

Many times, you might have dreamed of an awesome project and have gotten to work on it. Thousands of lines of code down with multiple assets built and bugs to fix, there is certainly a long way to go. But alas, you are quite unable to give your hundred percent of potential to it – be it because of monotonous assignments, meeting deadlines or just maintaining relationship with the partner of your dreams. It is okay. We all have been there and understand how sad it is to give up on a dream project.

Then we realized something great. Building cool applications and services is all about collaboration and sharing. Not every one can drive a project from the start till the end all alone. Adding to that, building projects all by yourself means to be in a constant lack of proper testing and shortage of valuable insights, thus leading to creation of something broken and with limited support. Not to mention, the constant headache of handling every aspect of building assets, writing codes and doing testcases.

There are millions of people across the globe who are interested in something you are passionate about. Being in the same community is a win-win situation for both as it would provide that person something to have fun with while you might just get your big idea executed. Once you are done, you can also prototype applications, write code and provide your insights to some other idea while working towards executing it as well. Believe it when we say, it is an endless stream of joyful contributions.

Being a community with no boundaries as to who can participate and contribute, we are very clear with the fact that you can always find yourself at home with us. Experience live projects, high stakes, real responsibility, artistic people and quirky developers. This is an opportunity to start from where you are and to rise high by building cool projects with your friends from all across the community. The team stands by with you in all the stages so you can finally get a big picture from your thumbnail.



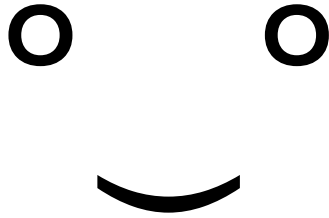
What is the community all about?

We at AstroSonic wish to extend this opportunity to all students and professionals – no matter what kind of expertise they have to get one-on-one with their status quo of leveling up several levels of contribution hierarchy before they reach a stage worth bragging about. Join today and let us know what you are good at. We are certain that the community is indeed looking for what you are good at and aching to see how you can contribute. Remember that a journey of thousand miles begins with one step.

We have been active parts of the technology industry and multiple open-source projects to know how it is like to contribute parts of code and assets. We absolutely frown upon how companies maintain Kanban boards to prioritize tasks and how issues are used to track what is needed to be done. There is absolutely no reason why task assignments should be so vaguely expressed. Every member has a different approach to solve problems so they should never be flocked in a herd.

The way we work at AstroSonic is all intuitive. The community will have its own forum for discussions and announcements. A separate room will be provided where members can brainstorm new ideas and discuss their validity. New members would not find themselves overwhelmed as a dedicated section is provided for onboarding and explaining basics of how things work. Of course for hardened professionals who want to get to business as soon as possible, we have operations.

We understand that professionals designing machine learning models might not be inclined to work on cryptography while those working with web development might not want to get their hands on data analytics. It is alright and that is why, we have special designated teams to handle tasks that we like to call task force. At times, the task forces might need to converge together in a joint operation – like for instance when a movie recommendation system requires a frontend to let end users interact.



Why is open-source a big deal?

You can find open-source almost everywhere and it is not just limited to communities and developers. It influences and welcomes participation of individuals even from the non-technical arenas, big corporates and engineering schools.

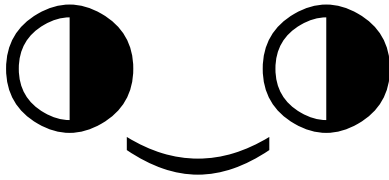
- With open-source contributions, you can build applications and services which can then be released along with their source code so that literally anyone can change them at their will. They can at least have an option to utilize the services of a vendor of their choice.
- The fact that any other type of software exists is itself strange as there is limited control over what you can control and what you cannot. Any required maintenance would need some other person to fix, re-package and assist in providing even basic upgrades.
- For big corporations, open-source has become to most reliable and cost-efficient way to build great software applications. They are fine with their status quo but they cannot look away from the insights and reviews that open-source communities tend to provide.
- Ever wondered why big industries organize hackathons and ideathons? Employees seldom provide good contribution out of will and it is only a good old competition that brings the best out of people. It is win-win as even corporations get good ideas to bank on.
- Individual developers should seriously consider open-source projects as their hobby. It is fun hanging out with a bunch of like-minded folks on forums discussing how a piece of code can be optimized. You can hone your skills by getting on such an open platform.
- There are always new ideas to explore. Members are willing to discuss problems with you way more than your fellow classmate or your peer in the next cubicle. Contributions are welcome – be it a tiny bit of code, a discovery of bug or simply a typo correction in docs.
- People from non-technical areas do not even know that they are contributing to open-source already. Almost every web application hosted on a GNU/Linux server traces issues and understands when things go wrong. They are actually hunting bugs this way.



Why should I contribute to open-source?

Contributing to open-source describes a lot about you as a community member.

- **You are passionate**
You are writing thousands of lines of code, drawing diagrams, building assets and running tests because you are passionate about it and not because you want to get paid for it. You absolutely love what you are doing and in the long run, your future employer expects the same sort of interest while working with them.
- **You are confident**
You are confident about your creation and ready to face public criticism about it. With those reviews and comments taken on a positive note, you are willing to work tirelessly to make all changes to build better stuff. An average developer breaks a sweat to get an upstream while you know how good you can be.
- **You are comfortable**
You are not overwhelmed when your project scales up rapidly with multiple dependencies and concurrent contributors. It clearly tells a lot about how comfortable you are in reading a foreign code and how you can adapt to the stated requirements. Better yet, you can make people match your requirements too.
- **You are interactive**
You are aware about how you should interact with the fellow contributors and how you should ask for assistance. Working as a player in a multi-talented team is important and soon you would find yourself giving your best to bring together the best works of every teammate into a single magical project.
- **You are informed**
You are skilled about a stack and have garnered tons of experience with many projects. To move on to newer a stack would require you to go through documentation – which is cool. But getting to learn new technologies from your fellow community members while teaching them what you know is definitely cooler.
- **You are helpful**
You are going to start from where you are. If it is zero that you are starting from, you will most likely get lots of help for your task. If you have previous experience in your field, you can pretty much help other newbies to start off. Open-source contributions are done as a hobby and you get also get to manage your time.
- **You are collective**
You are a part of a collective. Open-source movement is all about helping people through software applications and services with open codebases. There is a palpable sense of freedom in choosing how you would tackle problems. You are free to make fork a project and add stuff that you think would make it better.



What are we looking for?

We are looking for people with some of the following modest requirements

- You should have at least 6 months or longer experience in any programming language
- You should have been involved in the development process of at least 1 project
- You should have great verbal and written communication skills
- You should have a friendly demeanor and collaborative in your tasks
- You should have an inclination to learn new things while building cool stuff
- You should have an expertise to find solutions from popular search engines
- You should have an ambition to be an open-source contributor
- You should have an experience in the prominent office enterprise applications
- You should have an experience in the prominent graphic design suites

We are looking for only some of the above stated requirements. We understand that it would be very unfair if we ask a cybersecurity analyst to have an experience in design suites and a frontend designer to have an experience in C++. We would not do that. You are in for a quick chat about your interests and objectives if you satisfy any three (or more) of the above stated requirements before we welcome you in our community.

We will try our best to avoid unpleasantness so kindly note

- You should not look for any kind of monetary advantage from any contribution
- You should not possess the know-it-all attitude
- You should not be selective about the tasks that have been assigned to you
- You should not be always looking for a smooth-sailing experience and certainty
- You should not avoid risks and dangers that may come during contribution
- You should not be irregular with meeting with your stated commitments
- You should not have a desire to own projects made together by the community



How can I contribute?

This is how you can contribute to our open-source community. We have a total of seven divisions with their own distinct sets of skills and expertise. If you think you fall in it, you are more than welcome to fulfill those tasks. These divisions would not divide you into teams though as teams are purely based on what project you are up to. It is certainly possible to have people from multiple divisions to be in the same team just as much as it is possible to build a team entirely with members from a single division.

1. **Architecture Division**

You have a strong sense about how things should work and why they should work the way you specify them to. You are good at making charts and seeing the bigger picture. We can expect valuable insights and idea reviews from you for you can pretty much visualize them before they are even implemented.

2. **Development Division**

You are good with programming languages and your logic hits bullseye most of the time. You like to spend countless hours in front of black screens of IDEs and nothing brings you more joy than a snippet working just as expected in the very first run. We can expect rich codes and optimal logic from you.

3. **Design Division**

You feel there is something wrong with how things work right now and you can definitely walk the path of innovation to make it better. You love designing creative and efficient solutions. We can expect massive brainstorming and new ideas from you for you know what should be worked on.

4. **Frontend Division**

You understand the fact that a good project would not make a great impact among the end-user and other friendly communities if it fails to look and feel good. You have an affinity to web development and we expect you to spin a rather joyless piece of code into an eyecandy with your magical skills.

5. **Service Division**

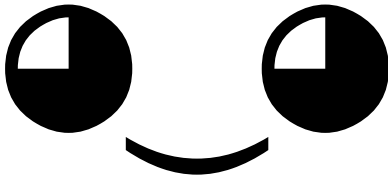
You realize that there is a lot of code and systems that perform shabbily and someone has to get their hands dirty to make things right. You feel right at home when you run those benchmarks and lint evaluation your code. We expect you to test, report and fix bugs as and when you come across them.

6. **Documentation Division**

You see that there are a lot of people around who cannot quite get into development for things are not quite explained to them. You take it as your responsibility to bridge the gap and make things lucid. We expect you to write project documentation in a way people would clearly understand them

7. **Outreach Division**

You know that a community is better off with more people and friends to goof around with. You get it that it is fun to build things together and have fun while doing it but the more people you have, the merrier it will be. We expect you to speak for our community and reach out to interested people.



What is the community workflow?

The community follows two distinct kinds of workflow which makes us different from other open-source communities.

- **Release Workflow**
Members participating in this workflow are completely dedicated onto building a single project at any point of time. They are in complete control of the direction of the project but cannot decide how successful it can be down the line. This requires a minimum of five effective contributions per week. This workflow is the most focused and hugely challenging.
- **Rolling Workflow**
Members participating in this workflow are completely dedicated onto maintaining multiple projects at any point of time. They do not have a say in the direction of the project but can pretty much decide how successful it can be down the line. This requires a minimum of three effective contributions per week. The workflow is moderately focused and greatly challenging.