# How to contribute

The easiest way to contribute is to open an issue and start a discussion.

Then we can decide if and how a feature or a change could be implemented and if you should submit a pull requests with code changes.

Also read this first: [Being a good open source citizen](https://hackernoon.com/being-a-good-open-source-citizen-9060d0ab9732#.x3hocgw85)

## Found an issue or a bug?

Please start a discussion on the [core repo issue tracker](https://github.com/IdentityServer/IdentityServer4/issues).

## Filing issues

The best way to get your bug fixed is to be as detailed as you can be about the problem.

Providing a minimal project with steps to reproduce the problem is ideal.

Here are questions you can answer before you file a bug to make sure you're not missing any important information.

1. Did you read the [documentation](https://identityserver4.readthedocs.io/en/release/)?

2. Did you include the snippet of broken code in the issue?

3. What are the \*EXACT\* steps to reproduce this problem?

4. Did you enable [logging](https://identityserver4.readthedocs.io/en/release/topics/logging.html)?

GitHub supports [markdown](http://github.github.com/github-flavored-markdown/), so when filing bugs make sure you check the formatting before clicking submit.

## Contributing code and content

You will need to sign a contributor license agreement (CLA) before submitting your pull request. The first time you submit a PR, a bot will take you through that process.

Please make sure to include tests, that cover the changes/additions you made to the code base.

Make sure you can build the code. Familiarize yourself with the project workflow and our coding conventions. If you don't know what a pull request is read this article: https://help.github.com/articles/using-pull-requests.

Before submitting a feature or substantial code contribution please discuss it with the team and ensure it follows the product roadmap. Here's a list of blog posts that are worth reading before doing a pull request:

\* [Open Source Contribution Etiquette](http://tirania.org/blog/archive/2010/Dec-31.html) by Miguel de Icaza

\* [Don't "Push" Your Pull Requests](http://www.igvita.com/2011/12/19/dont-push-your-pull-requests/) by Ilya Grigorik.

\* [10 tips for better Pull Requests](http://blog.ploeh.dk/2015/01/15/10-tips-for-better-pull-requests/) by Mark Seemann

\* [How to write the perfect pull request](https://github.com/blog/1943-how-to-write-the-perfect-pull-request) by GitHub