

# Hacktoberfest 2018

8bit



# What is hacktoberfest?

- 5th annual October event from **Github**, Digital Ocean, Twilio.
- Submit a few pull requests in October, get a free shirt!





DigitalOcean



DigitalOcean GitHub twilio



DigitalOcean GitHub twilio

# How do we ~~get this free shirt~~ support open source for Hacktoberfest?

- Well...sorry for the late notice, but you need to submit **5 pull requests** to **public repos** between **October 1** and **October 31**. (Also they can't be spam.)
- Today is **October 25th**, so that means 1 pull request/day if you start tomorrow. Which is tough, but doable.
- Also, there's a limit on how many shirts they give out. As of 5:16PM 32,477 had completed, and they're limiting it to 50,000 shirts.

details: <https://hacktoberfest.digitalocean.com>

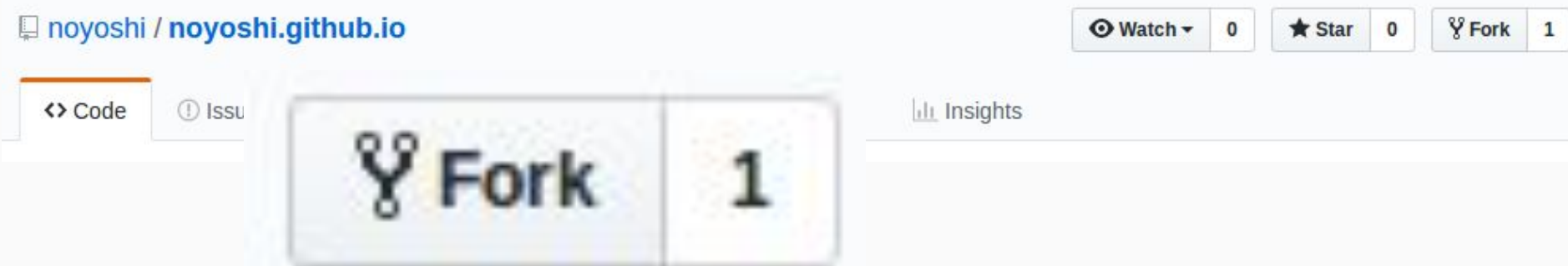
# But...how do we contribute to Open Source?

Well -- there's two parts to this question.

# What are the mechanisms by which we open a pull request on github?

First, "fork" the repository you want to contribute to.

This creates a copy of the entire repository that you can develop on without touching the main repository.





# What are the mechanisms by which we open a pull request on github?

Then, `git clone` the newly forked repository and make your meaningful contribution to the open source project, `git commit`, and `git push`!

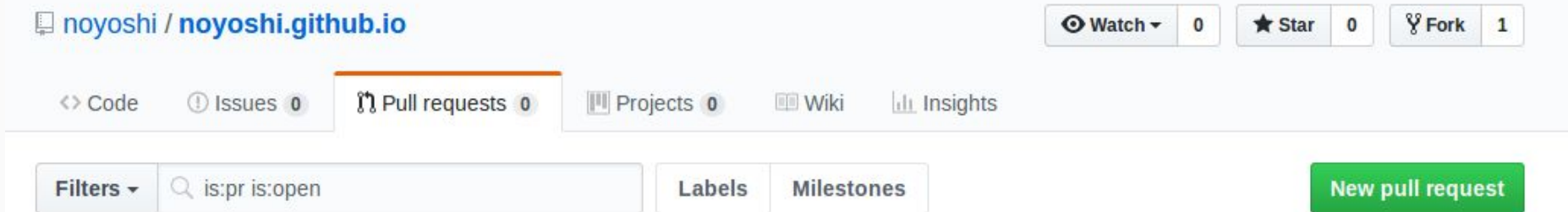




# What are the mechanisms by which we open a pull request on github?

Lastly, go to the original repository on github, and open a pull request!

Make sure to leave a helpful description of the changes.



# What are the mechanisms by which we open a pull request on github?

From then, you see if the main developer(s) merge your pull request, deny it, or if they request changes.

*(They don't need to merge the PR for it to count towards Hacktoberfest, though. As long as they don't mark it spam, it counts, basically.)*

# How do we make a meaningful contribution to an open source project?

There are a lot of options!

- Adding new features.
- Removing existing bugs.
- Adding better/more documentation.
- Improving style.
- Some repos aren't explicitly code based, some of them are things like recipes, or algorithm examples, or just nicely-formatted information. Then you can add/improve content.

# How do we make a meaningful contribution to an open source project?

Admittedly it's often pretty overwhelming to try jumping into a huge project, so I would suggest a smaller project as a first PR, rather than trying to contribute to a huge project, like the linux kernel.

*And also the kernel doesn't accept PRs but that's another story, you get the idea.*

# A few things worth mentioning

- Most larger projects have code style/convention requirements, as well as requirements that new features come with tests. If you want your PR to be considered, make sure to keep an eye on these.
- Some projects require new features to be filed as "Issues" before they have a PR, so that the community and main developers can discuss what would or wouldn't work.
- If a project progresses between when you fork and open a pull request, you will likely have to merge the changes from the "upstream" repo into your forked repo.
  - Add a remote, pull changes from that remote, `git merge` and cross your fingers that their changes didn't conflict with yours.
  - More details at <https://help.github.com/articles/syncing-a-fork/>
- A PR doesn't have to be huge! Fixing a few typos is a legitimate pull request. But making 5 PRs to the same project each fixing a few typos is a little rude. (And likely to be marked spam.)

# Projects to consider contributing to

- commandChan - a terminal 4chan browser:  
<https://github.com/wtheisen/commandChan>
- arrows-esolang - A esoteric programming language:  
<https://github.com/JohnathonNow/arrows-esolang>
- jukestapose - A collaborative music server queue:  
<https://github.com/camicarballo/Jukestapose>
- hag - A terminal based, procedurally generated roguelike dungeon crawler game:  
<https://github.com/a3qz/hag>

# Other projects to consider contributing to

- ACM-ICPC-Algorithms - important algorithms and data structures for programming competitions <https://github.com/matthewsamuel95/ACM-ICPC-Algorithms>
- Hello-World - Hello World in as many programming languages as possible: <https://github.com/Omkar-Ajnadkar/Hello-World>
- first-contributions - A repository for teaching how to contribute to open source, and for beginners to make pull requests to: <https://github.com/firstcontributions/first-contributions>
- jsonmc - A comprehensive collection of movies and actors in json for easy use: <https://github.com/jsonmc/jsonmc>
- home-assistant - home automation that puts control & privacy first (similar to Samsung's SmartThings, afaict): <https://github.com/home-assistant/home-assistant>

Find more ideas at <http://issuehub.io>, <https://up-for-grabs.net>, <https://www.firsttimersonly.com/>, [etc]