



# Microsoft Build

May 6–8, 2019





# Building thriving open source communities with GitHub

**Zeke Sikelianos**

Docs and Localization Engineer, GitHub

**Neha Batra**

Engineering Manager for GitHub Desktop, GitHub



# In this talk...

GitHub Desktop

Electron

GitHub Flow

Open Source basics

Branch Protection

CODEOWNERS

All Contributors

Continuous Integration (CI)

Bots

Review Apps

Semantic Releases

Changelog generation

GitHub Apps / Marketplace

GitHub API Webhooks

Probot

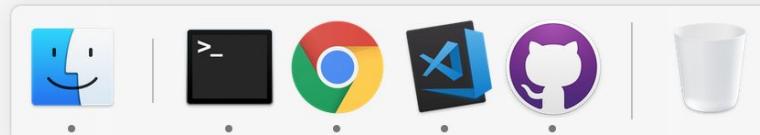
GitHub Actions

@nerdneha





GitHub Desktop



Current Repository **desktop**

Current Branch **esc-pr** #3972 ✓

Fetch origin Last fetched 3 minutes ago

**Changes** **History**

**Add event handler to dropdown component**

iAmWillShepherd and Markus Olsson committed c79e71c 1 changed file

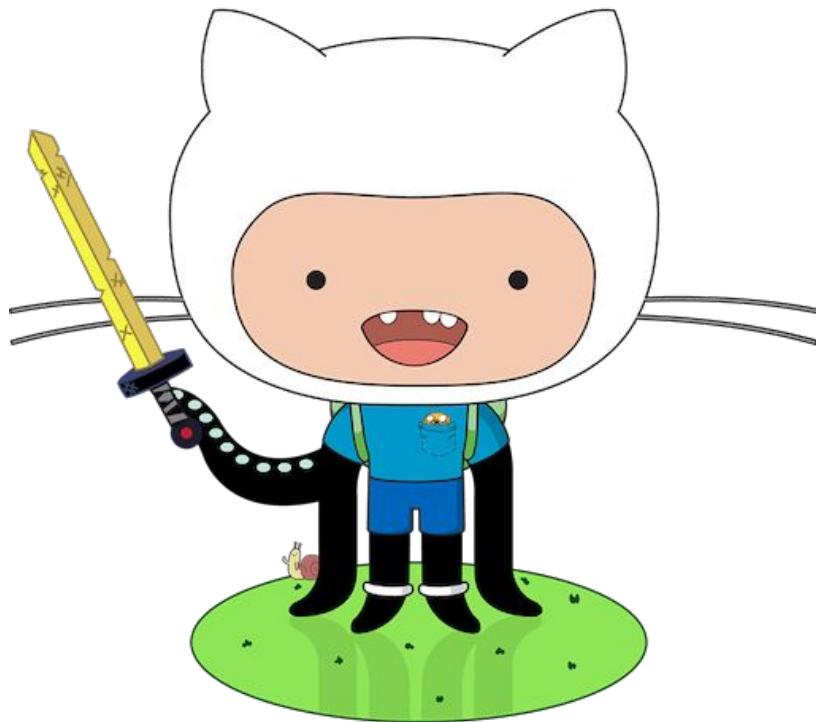
Co-Authored-By: Markus Olsson <niik@users.noreply.github.com>

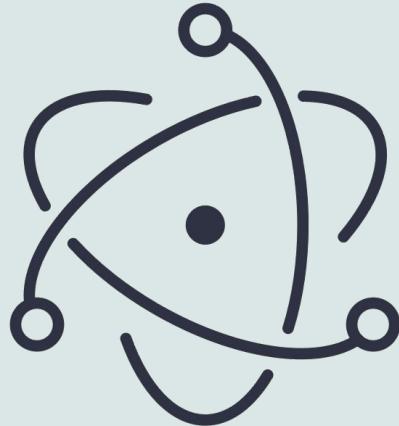
app/src/ui/t.../dropdown.tsx

| Line | Line | Code  |
|------|------|---|
| 145  | 145  | this.state = { clientRect: null }   |
| 146  | 146  | }   |
| 147  | 147  |   |
|      | 148  | + private get isOpen() {  |
|      | 149  | + return this.props.dropdownState === 'open'                                |
|      | 150  | + }   |
|      | 151  | +   |
| 148  | 152  | private dropdownIcon(state: DropdownState): OcticonSymbol {                 |
| 149  | 153  | // @TODO: Remake triangle octicon in a 12px version,                        |
| 150  | 154  | // right now it's scaled badly on normal dpi monitors,                      |
|      |      | @@ -249,6 +253,13 @@ export class ToolbarDropdown extends React.Component<  |
| 249  | 253  | }   |
| 250  | 254  | }   |
| 251  | 255  |   |
|      | 256  | + private onFoldoutKeyDown = (event: React.KeyboardEvent<HTMLElement>) => { |
|      | 257  | + if (!event.defaultPrevented && this.isOpen && event.key === 'Escape') {   |
|      | 258  | + event.preventDefault()  |
|      | 259  | + this.props.onDropdownStateChanged('closed', 'keyboard')                   |



@zeke





ELECTRON

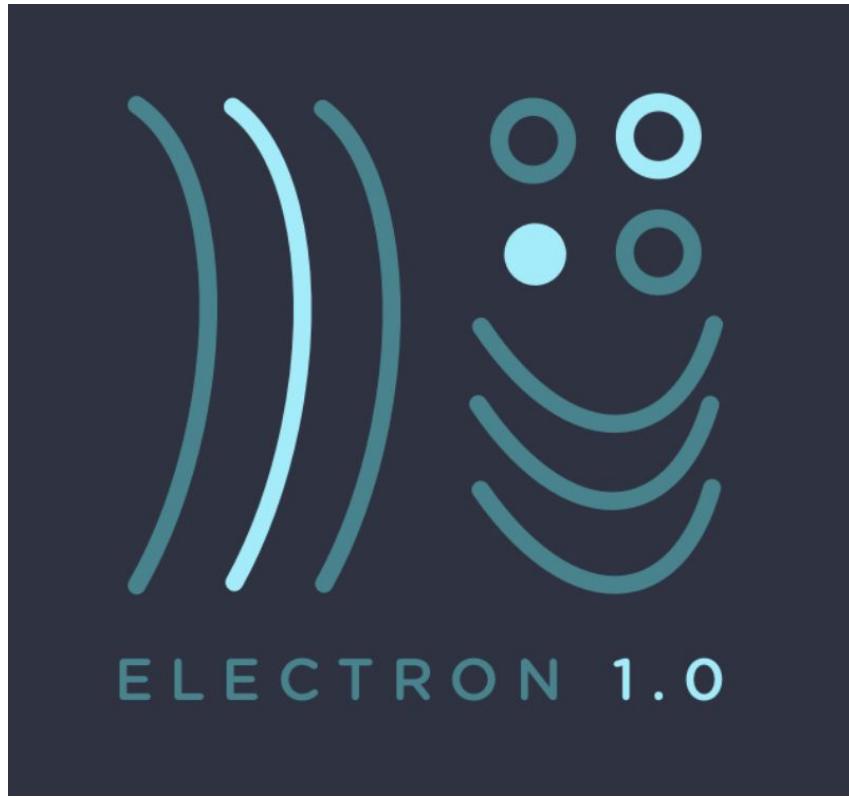


CHROMIUM



NODE.JS

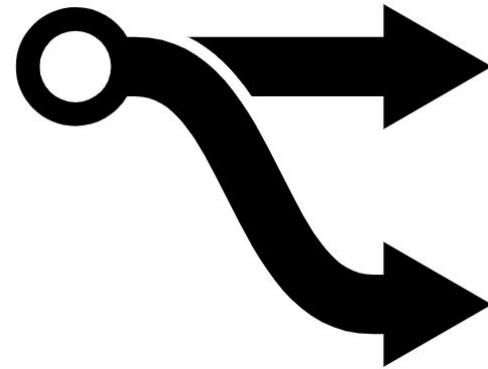


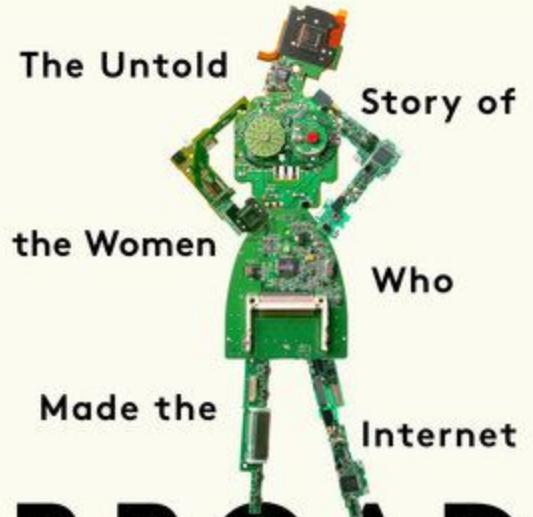


```
$ npm i -D electron@latest  
# Electron    5.0.1  
# Node        12.0.0  
# Chromium   73.0.3683.121
```

```
$ npm i -D electron@beta  
# Electron    6.0.0-beta.1  
# Node        12.0.0  
# Chromium   76.0.3774.1
```

# Changing Teams



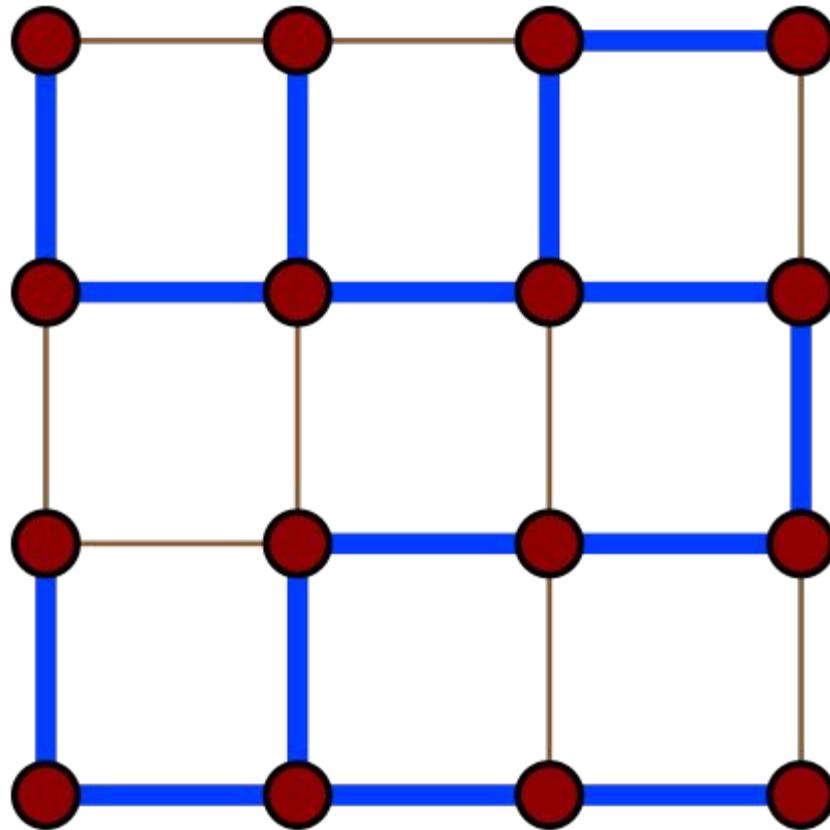


# BROAD BAND

Claire L. Evans



Radia Perlman



music, and Radia and her daughter, an opera singer and violinist, performed it at MIT's Lincoln Laboratory. As for the spanning-tree protocol, it transformed Ethernet from a limited, localized technology into something that could support much larger networks, and it is now fundamental to the way computers are networked. It's Radia's most famous, although by no means her only, contribution to networking. Her work might be invisible to the everyday user, but it's invisible in the way that laws are invisible or the rules of traffic in a busy city are invisible: it directs the flow of information at a layer beyond our conscious awareness. "If I do my job right," she explains, "you never see it."

# Jake Feinler



```
$ whois github.com
```

Registrant Organization: GitHub, Inc.

Registrant State/Province: CA

Registrant Country: US

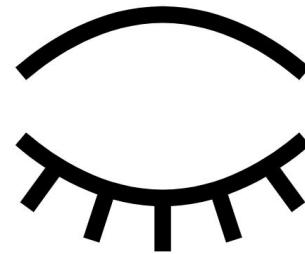
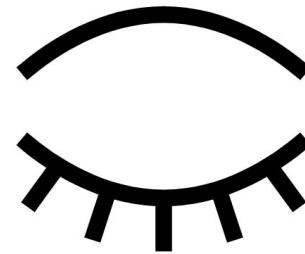
...

ill small enough that  
e conversation. This,  
is sprawl—to this re-  
nections, and people-

lse. Jake had a hard  
ork, especially as the  
nonstop, coordinating  
s most important host  
omputing at the time,  
onal life with her ca-  
ut I never got around  
at five in

tory, Jake's "yellow pages" of the Internet, prefigured by decades our age of searchable, reachable online social connections. Both of these simple, forward-thinking utilities would eventually become part of the ARPANET, folding the role of the NIC into the network itself. Like Grace Hopper with her automatic programming, Jake replaced herself with a machine.

As the ARPANET Directory—the Internet's yellow pages—grew alongside the network, Jake made important decisions about what should be handled. One was philosophical: because the ARPANET community was such an odd mix of military people, computer scientists, and the occasional undergrad interloper, Jake insisted that names, never formal titles, be included in the directory. Keeping military rankings straight was a headache, and more impor-



**Close your eyes.**

# The Open Source Journey

Open → Grow → Automate

# The Open Source Journey

Open



Grow

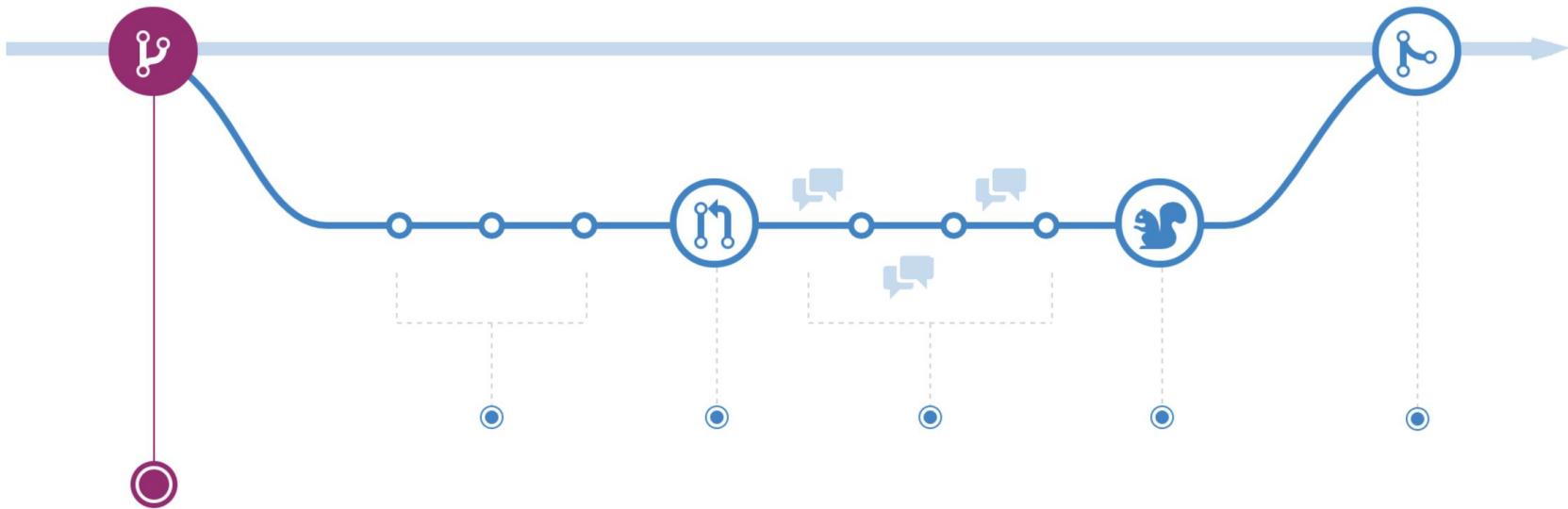


Automate



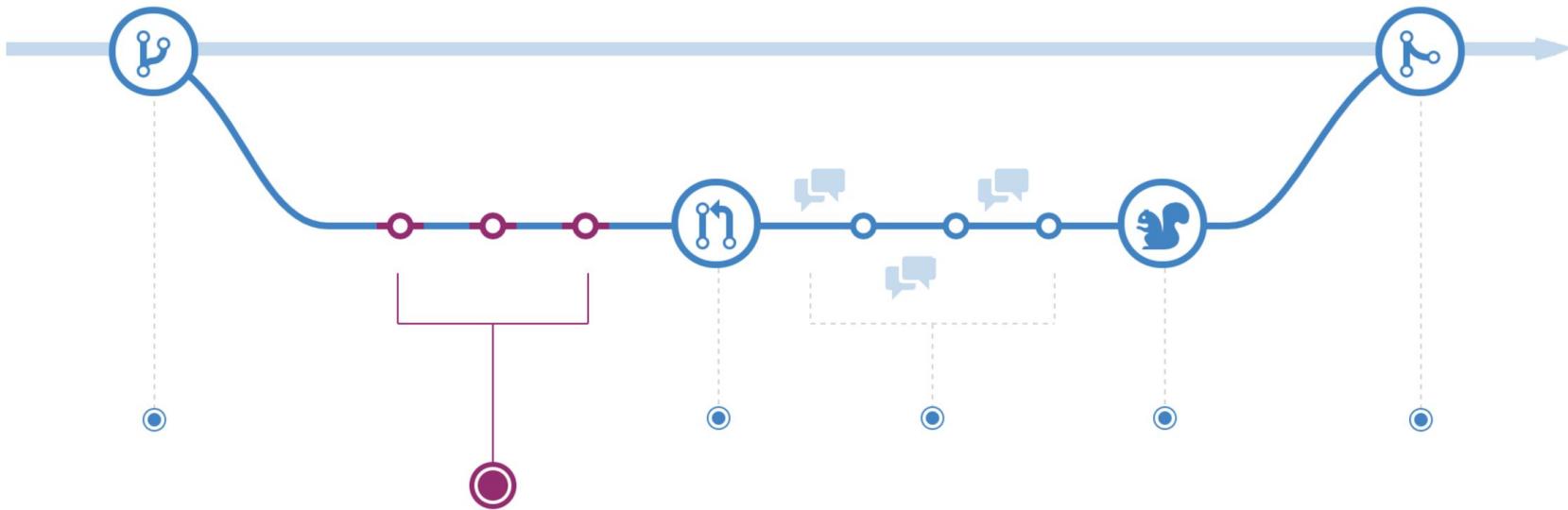
# The GitHub Flow

# Create a branch



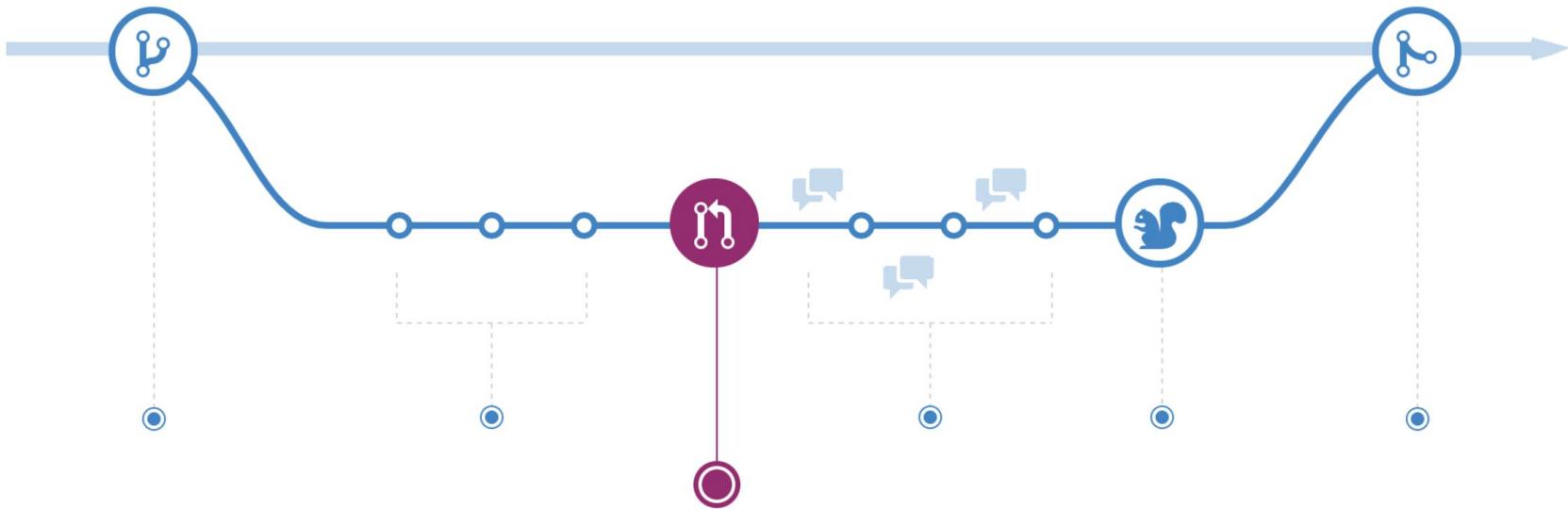
Open / Grow / Automate

# Add commits



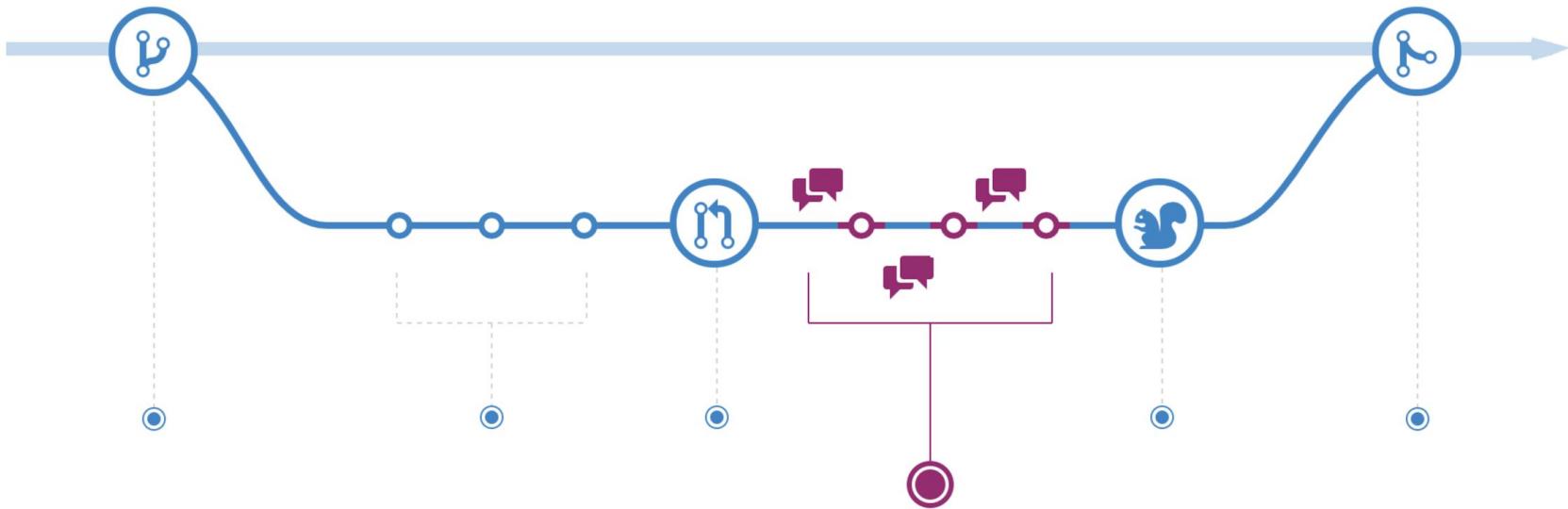
Open / Grow / Automate

# Create a pull request



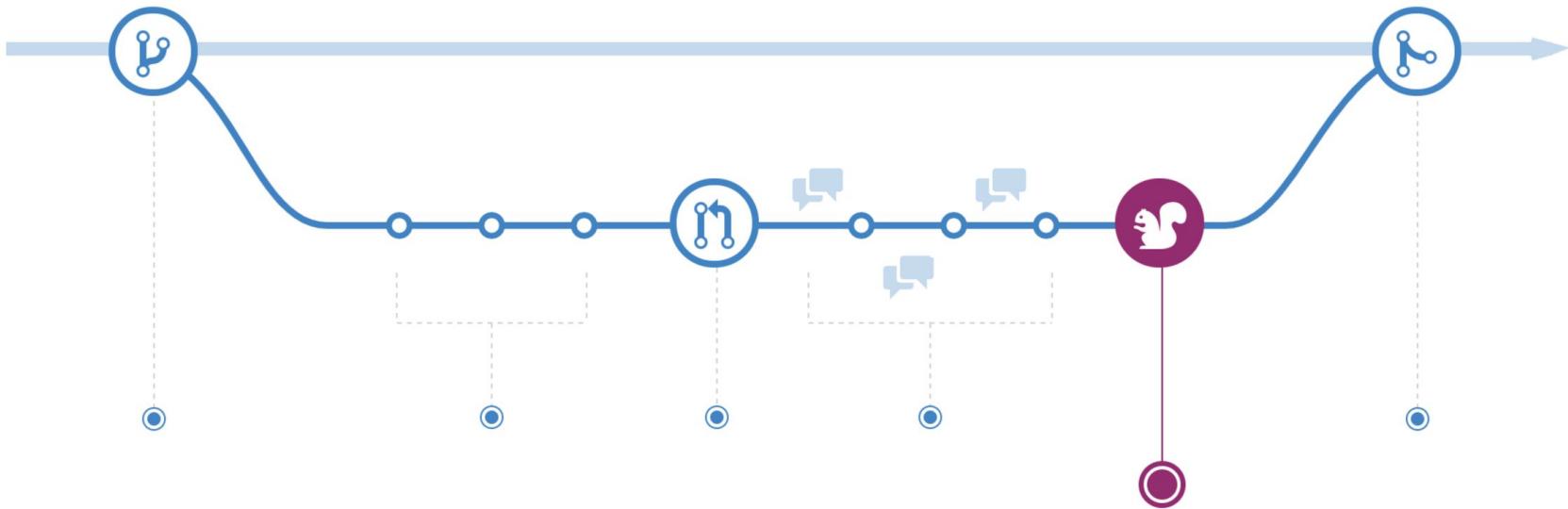
Open / Grow / Automate

# Discuss and review



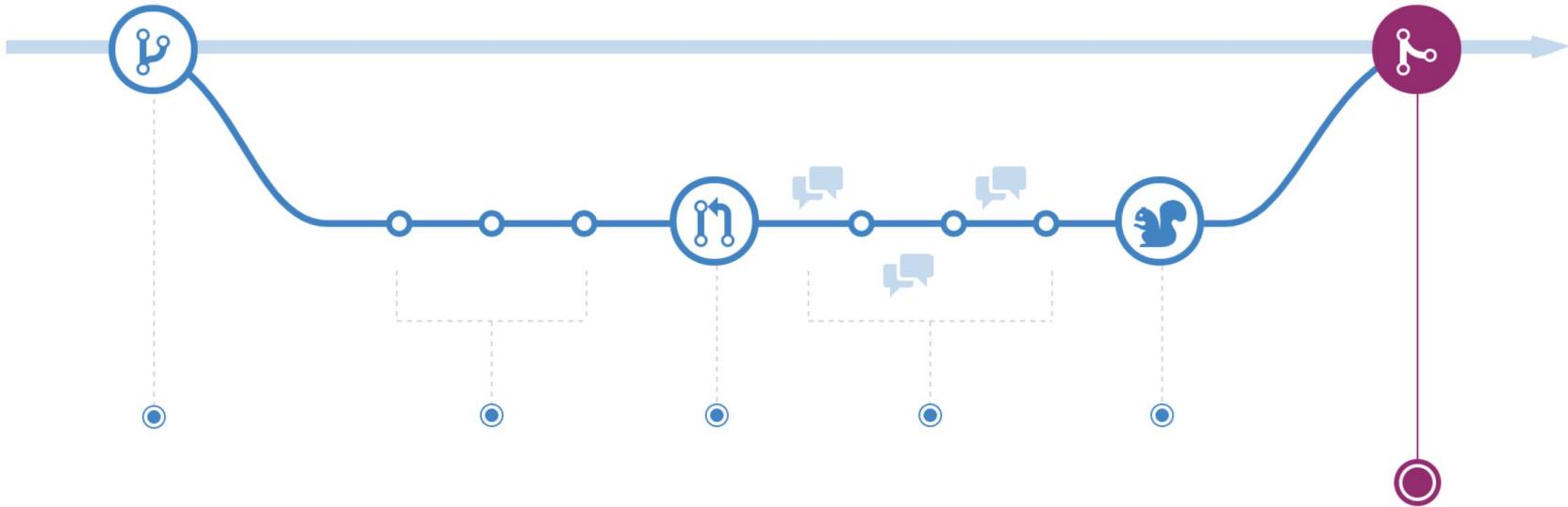
Open / Grow / Automate

# Deploy



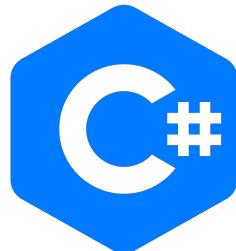
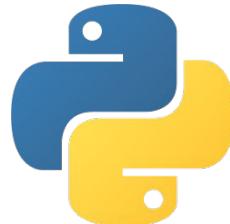
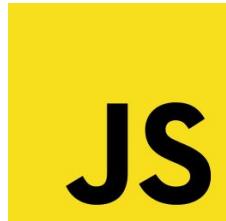
Open / Grow / Automate

# Merge pull request



Open / Grow / Automate

# It's all good.



Open / Grow / Automate

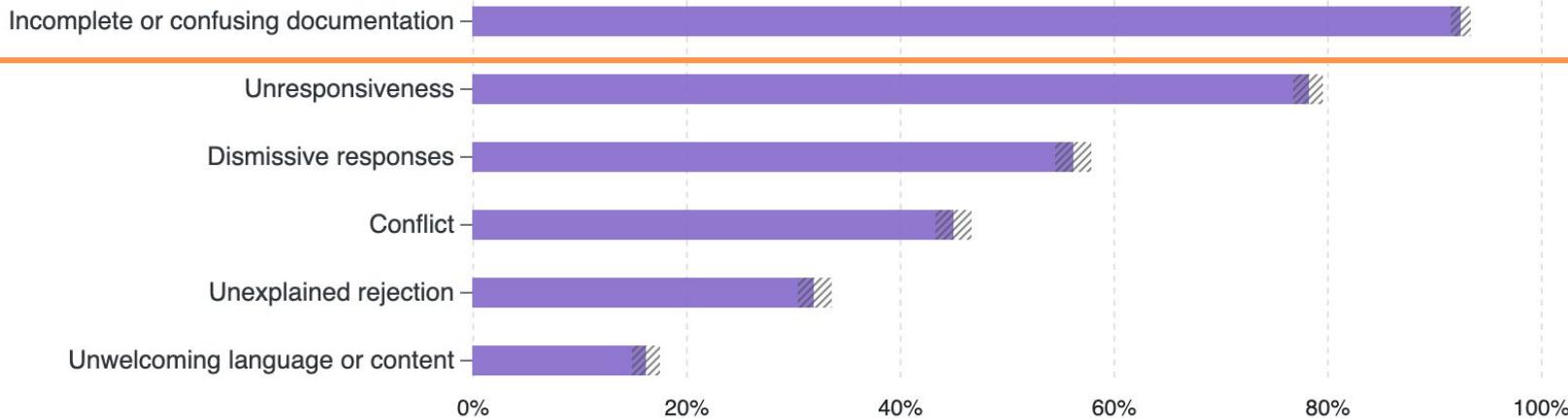


# Open Source Basics

Open / Grow / Automate

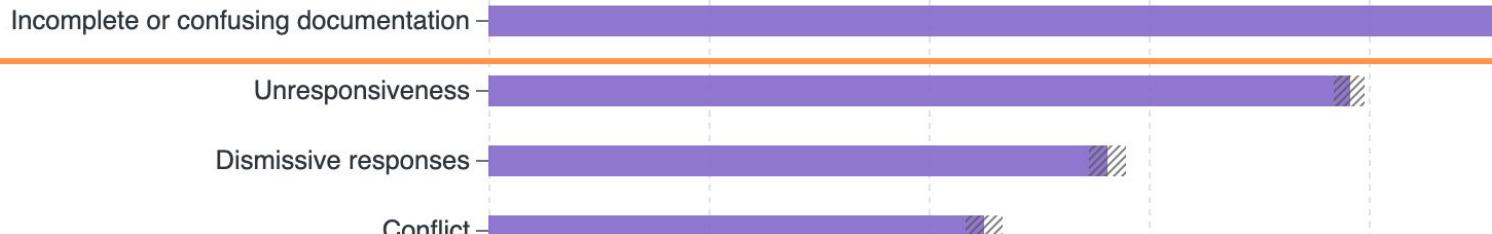
## Fig1. - Problems encountered in open source

Source: opensourcesurvey.org



## Fig1. - Problems encountered in open source

Source: opensourcesurvey.org



- **Demand:** 93% observe incomplete or outdated documentation is a pervasive problem
- **Supply:** 60% of contributors say they rarely or never contribute to documentation

[Code](#)[Issues 814](#)[Pull requests 33](#)[Projects 4](#)[Insights](#)[Settings](#)[Pulse](#)[Contributors](#)[Community](#)[Traffic](#)[Commits](#)[Code frequency](#)[Dependency graph](#)[Network](#)[Forks](#)

## Community profile

Here's how this project compares to [recommended community standards](#).

### Checklist

- ✓ Description
- ✓ README
- ✓ Code of conduct
- ✓ Contributing
- ✓ License
- ✓ Issue template

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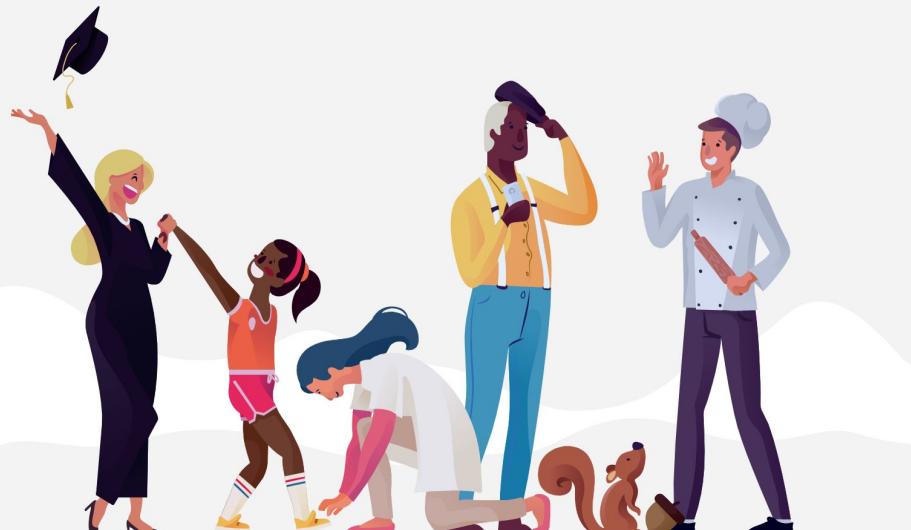
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✓ Issue template

<https://opensource.guide>

## Building Welcoming Communities

Building a community that encourages people to use,  
contribute to, and evangelize your project.



Open / Grow / Automate

# README



Open / Grow / Automate

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what →

### README.md

PASSED

maintainability A

test coverage 94%

backers 3

sponsors 0

README in Español

## if me

[if me](#) is a community for mental health experiences that encourages people to share their personal stories with trusted allies. Trusted allies are the people we interact with on a daily basis, including friends, family members, co-workers, teachers, and mental health workers.

Dealing with mental health is what makes us human. But for a lot of us, it's a struggle to be open about it. Not everyone is a counsellor or therapist. The people who we interact with everyday shape our emotions and behavior. Getting them involved in mental health treatment is the key to recovery.

The live site can be found at [if-me.org](http://if-me.org).

We use the wonderful [Contributor Covenant](#) for our code of conduct. Please [read it](#) before joining our project.

Read about our project goals and how to contribute (not just as a developer) [here](#).

## Documentation

Please check out our [Wiki](#) for full documentation.

## Installation

Information about installing and configuring the app [here](#). Test, development, and production instances are covered.

## Contributor Blurb

Everyone is highly encouraged to [add themselves](#) to our Contribute page.

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more help

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# Code of Conduct



Open / Grow / Automate

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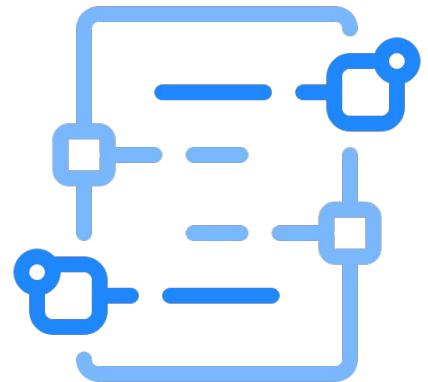
## A Code of Conduct for Open Source Projects

Open Source has always been a foundation of the Internet, and with the advent of social open source networks this is more true than ever. But free, libre, and open source projects suffer from a startling lack of diversity, with dramatically low representation by women, people of color, and other marginalized populations.

Often it is the unintentional assumptions and actions of project maintainers and participants that make open source projects unwelcoming (or even hostile) to marginalized people: making assumptions about gender or race, reinforcing stereotypes, using sexualized or otherwise inappropriate language, or demonstrating a lack of regard for the safety and well-being of vulnerable people.

One way to begin addressing this problem is to be overt in our openness, welcoming all people to contribute, and pledging in return to value them as whole human beings and to foster an atmosphere of kindness, cooperation, and understanding.

# CONTRIBUTING.md



Open / Grow / Automate

## Checklist

✓ Description

✓ README

✓ Code of conduct

✓ Contributing

✓ License

✓ Issue template

lynncyrin Update CONTRIBUTING.md  
1 contributor  
27baa41 on Dec 8, 2017

26 lines (13 sloc) | 1.47 KB  
Raw Blame History

## Contributing to callisto-core

Thank you so much for considering contributing to callisto-core. We couldn't do the work that we do as a small tech nonprofit without the help of wonderful volunteers like yourself.

### Your first contribution

Working on your first open source contribution? We are so excited to have you! You can learn how to make a pull request from this free series [How to Contribute to an Open Source Project on GitHub!](#)

### How to submit

We need all contributors to sign our [volunteer agreement](#) (PDF) in order to accept contributions. Signed agreements can be submitted to [tech@projectcallisto.org](mailto:tech@projectcallisto.org). We can take fixes to documentation without a signed agreement.

### How to report a bug

If you find a security vulnerability, do NOT open a GitHub issue. Email [tech@projectcallisto.org](mailto:tech@projectcallisto.org) instead. We will respond as soon as possible.

Other bugs or feature requests can be submitted as [GitHub issues](#) on this repo.

### Code of conduct

This project adheres to a [code of conduct](#). By participating, you are expected to uphold this code. Please report unacceptable behavior to [tech@projectcallisto.org](mailto:tech@projectcallisto.org).

### Other questions

Contact us at [tech@projectcallisto.org](mailto:tech@projectcallisto.org).

## Checklist

✓ Description

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✓ License

✓ Issue template

npm / tink

Watch ▾ 64

Star 1,520

Fork 55

Code

Pull requests 8

Insights

Branch: latest tink / CONTRIBUTING.md

Find file Copy path

 iarna chore: The second great rename

56a15f5 on Sep 13, 2018

2 contributors  

257 lines (173 sloc) | 20.8 KB

Raw Blame History   

## Contributing

### How do I...

- Use This Guide?   
- Ask or Say Something?   
  - Request Support
  - Report an Error or Bug
  - Request a Feature
- Make Something?    
  - Project Setup
  - Contribute Documentation
  - Contribute Code
- Manage Something   
  - Provide Support on Issues
  - Label Issues
  - Clean Up Issues and PRs
  - Review Pull Requests
  - Merge Pull Requests
  - Tag a Release
  - Join the Project Team
- Add a Guide Like This One To My Project?   

Open / Grow / Automate

# LICENSE



Open / Grow / Automate

## Community profile

Here's how this project compares to [recommended community standards](#).

### Checklist

- Description [?](#)

[Add](#)

- ✓ README

- Code of conduct

[Add](#)

- Contributing

[Writing contributing guidelines](#)[Add](#)

- License

[Choosing a license](#)[Add](#)

- Issue templates

[Add](#)

- Pull request template

What is [the community profile](#)?

|                  |
|------------------|
| Pulse            |
| Contributors     |
| <b>Community</b> |
| Traffic          |
| Commits          |
| Code frequency   |
| Dependency graph |
| Alerts           |
| Network          |
| Forks            |

## Community profile

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|   |  |
|---|--|
| ● Description  | <input type="button" value="Add"/>                                 |
| ✓ README  |  |
| ● Code of conduct   | <input type="button" value="Add"/>                                 |
| ● Contributing  | Writing contributing guidelines <input type="button" value="Add"/> |
| ● License   | Choosing a license <input type="button" value="Add"/>              |
| ● Issue templates   | <input type="button" value="Add"/>                                 |
| ● Pull request template   |  |

[What is the community profile?](#)

## Add a license to your project

|   |   |   |   |
|---|---|---|---|
| <a href="#">Apache License 2.0</a>  | A short and simple permissive license with conditions only requiring preservation of copyright and license notices. Licensed works, modifications, and larger works may be distributed under different terms and without source code.   |   |   |
| <a href="#">GNU General Public License v3.0</a>   |   |   |   |
| <b>MIT License</b>  | <b>Permissions</b>  | <b>Limitations</b>  | <b>Conditions</b>                                     |
|   | <input checked="" type="checkbox"/> Commercial use<br><input checked="" type="checkbox"/> Modification<br><input checked="" type="checkbox"/> Distribution<br><input checked="" type="checkbox"/> Private use   | <input type="checkbox"/> Liability<br><input type="checkbox"/> Warranty | <input type="checkbox"/> License and copyright notice |
| <a href="#">BSD 2-Clause "Simplified" License</a>  | <p>This is not legal advice. Learn more about repository licenses.</p>  |   |   |
| <a href="#">BSD 3-Clause "New" or "Revised" License</a>   |   |   |   |
| <a href="#">Eclipse Public License 2.0</a>  |   |   |   |
| <a href="#">GNU Affero General Public License v3.0</a>  |   |   |   |
| <a href="#">GNU General Public License v2.0</a>   |   |   |   |
| <a href="#">GNU Lesser General Public License v2.1</a>  | <p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</p> |   |   |
| <a href="#">GNU Lesser General Public License v3.0</a>  | <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p>   |   |   |

To adopt MIT License, enter your details. You'll have a chance to review before committing a *LICENSE* file to a new branch or the root of your project.

Year 

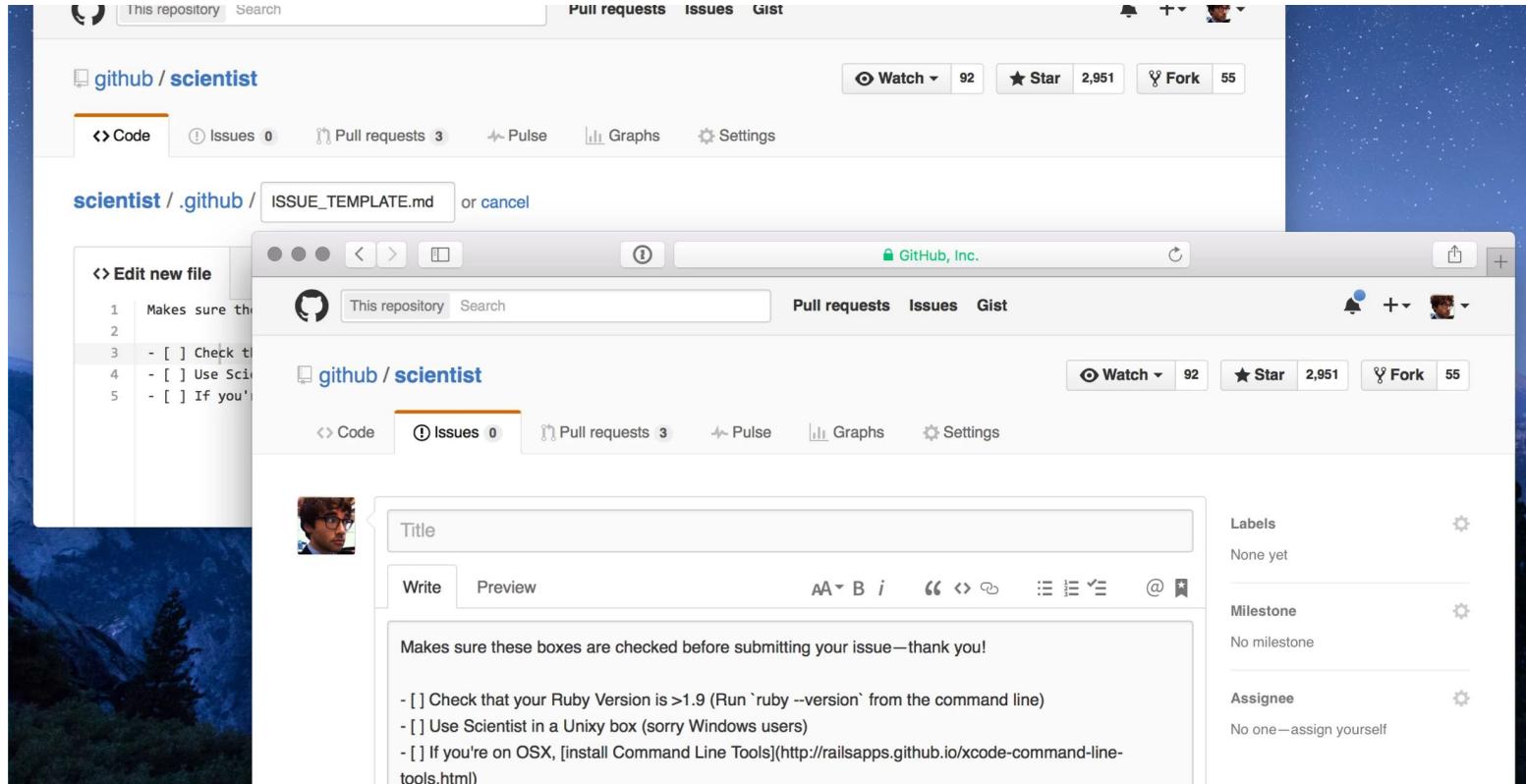
2019

Full name 

Neha Batra

**Review and submit**

# Issue Templates



Open / Grow / Automate

# Pull Request Templates

A screenshot of a GitHub pull request interface. The main window shows a pull request titled "Consolidate documentation into single location". The body of the PR contains text about consolidating documentation and a list of checkboxes for code of conduct, installation guide, API documentation, and contribution guidelines. Below the body is a note about styling with Markdown. At the bottom, it shows 1 commit, 1 file change, and was merged by monatheoctocat on Feb 12, 2019. A modal window is overlaid on the screen, centered over the "Create Pull Request" button. The modal has two options: "Create Pull Request" (which is checked) and "Create Draft Pull Request". The "Create Draft Pull Request" option is highlighted with a blue background and contains the text "Cannot be merged until marked ready for review". The background of the main window is blurred.

Be nice, be human

# The Open Source Journey



# The Open Source Journey

Open



Grow



Automate

- GitHub Flow
- README
- Code of Conduct
- CONTRIBUTING.md
- License
- Issue Templates
- Pull Request  
Templates

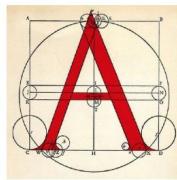
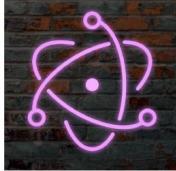
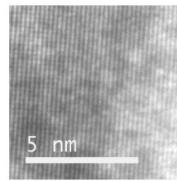
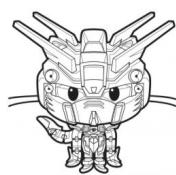
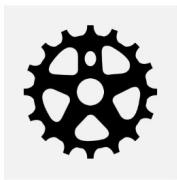
# The Open Source Journey



# **“Coding is a team sport.”**

Nat Friedman, GitHub CEO

# Organizations



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# **Be generous with permissions.**

# Branch protection for master

## Protect this branch

Disables force-pushes to this branch and prevents it from being deleted.

## Require pull request reviews before merging

When enabled, all commits must be made to a non-protected branch and submitted via a pull request with the required number of approving reviews and no changes requested before it can be merged into master.

Required approving reviews: 2 ▾

### Dismiss stale pull request approvals when new commits are pushed

New reviewable commits pushed to a branch will dismiss pull request review approvals.

### Require review from Code Owners

Require an approved review in pull requests including files with a designated code owner.

### Restrict who can dismiss pull request reviews

Specify people or teams allowed to dismiss pull request reviews.

## Require status checks to pass before merging

Choose which [status checks](#) must pass before branches can be merged into master. When enabled, commits must first be pushed to another branch, then merged or pushed directly to **master** after status checks have passed.

## Require branches to be up to date before merging

This ensures the branch has been tested with the latest code on **master**.



# CODEOWNERS



```
# Lines starting with '#' are comments.  
# Each line is a file pattern followed by one or more owners.  
  
# These owners will be the default owners for everything in the repo.  
*      @defunkt  
  
# Order is important. The last matching pattern has the most precedence.  
# So if a pull request only touches javascript files, only these owners  
# will be requested to review.  
.js    @octocat @github/js  
  
# You can also use email addresses if you prefer.  
docs/*  docs@example.com
```

github / linguist

Watch 2 Star 4,442 Fork 1,760

Code Issues 59 Pull requests 26 Projects 0 Settings Insights

# Update sample JS file #3476

**Open** jdpase wants to merge 1 commit into master from jdpase-patch-3

Conversation 0 Commits 1 Files changed 1

jdpase commented just now  
No description provided.

Update sample JS file

jdpase requested review from octocat and github/js as code owners just now

Reviewer octocat is a code owner

octocat js

Assignees

No one—assign yourself

None yet

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# All Contributors

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# Add New Contributors in Seconds

We've built a bot to automate the tedious stuff for adding project contributors, so you can focus on your project instead of managing your ReadMe.

The screenshot shows a GitHub pull request interface with three comments from the 'allcontributors' bot:

- jakebolam commented just now**: @all-contributors please add @tbenning for design
- allcontributors bot referenced this pull request just now**: docs: add tbenning as a contributor #27
- allcontributors bot commented just now**: @jakebolam I've put up a pull request to add @tbenning! 🎉

# Many ways to contribute

 Answering Questions

 Bug reports

 Blog posts

 Business Development

 Code

 Content

 Documentation

 Design

 Examples

 Event Organizers

 Financial Support

 Funding/Grant Finders

 Ideas & Planning

 Infrastructure

 Maintenance

 Packaging

 Plugin/utility libraries

 Project Management

 Reviewed Pull Requests

 Security

 Tools

 Translation

 Tests

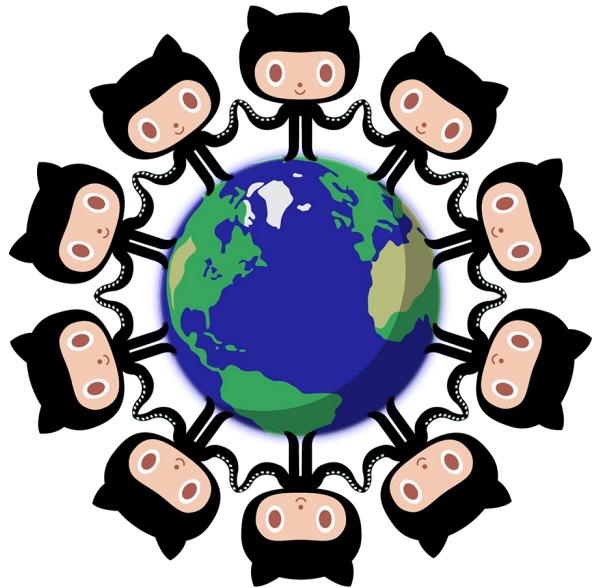
 Tutorials

 Talks

 User Testing

 Videos

# Diversity in OSS



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# Inclusion in OSS



Open / Grow / Automate

# Inclusion in OSS

## 1. Enforce the Code of Conduct



# Inclusion in OSS

1. Enforce the Code of Conduct
2. Personal Touch



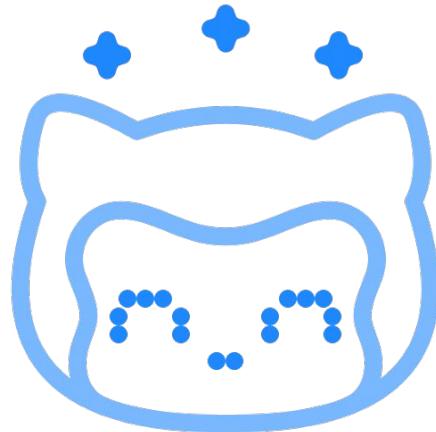
# Inclusion in OSS

1. Enforce the Code of Conduct
2. Personal Touch
3. Offer mentorship



# Inclusion in OSS

1. Enforce the Code of Conduct
2. Personal Touch
3. Offer mentorship
4. Pay/Reward



# Inclusion in OSS

1. Enforce the Code of Conduct
2. Personal Touch
3. Offer mentorship
4. Pay/Reward
5. Get Feedback



# The Open Source Journey



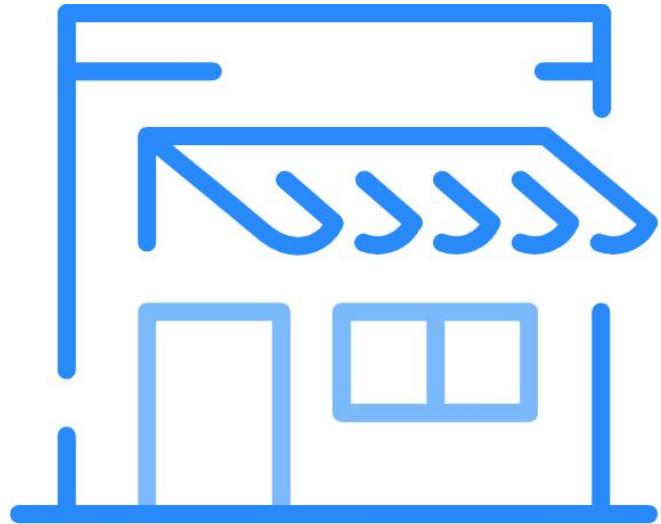
# The Open Source Journey



- Permissions
- Codeowners
- Contributor roles
- Enforce Code of Conduct
- Personal Touch
- Offer Mentorship
- Pay/Reward
- Get Feedback

# The Open Source Journey





# GitHub Marketplace

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**“Write less code. Click fewer buttons”**

Corey Hobbs, Product Manager for GitHub Marketplace

# Continuous Integration (CI)



Travis



Circle



AppVeyor



Azure

# Review Apps

 Open feat: Update releases page to `@primer/css` #2423  
HashimotoYT wants to merge 3 commits into master from releases-page 



HashimotoYT added some commits on Apr 6



Update releases page

ffb3dbf



Paddings

e9fcfb1



Finish release page

✓ 7a0105c



electron-bot deployed to electron-website-pr-2423 29 days ago

[View deployment](#)

The screenshot shows a web browser window with the title "BrowserWindow | Electron". The URL in the address bar is "https://electron-website-pr-1130.herokuapp.com/docs/api/browser-window", which is highlighted with a red oval. The main content of the page is titled "BrowserWindow" and contains the following text:

Create and control browser windows.

Process: [Main](#)

```
// In the main process.  
const {BrowserWindow} = require('electron')  
  
// Or use `remote` from the renderer process.  
// const {BrowserWindow} = require('electron').remote  
  
let win = new BrowserWindow({width: 800, height: 600})  
win.on('closed', () => {
```

A "Copy" button is located in the top right corner of the code block.

electron-website · GitHub | Help

Secure | https://dashboard.heroku.com/apps/electron-website/deploy/github

HEROKU Jump to Favorites, Apps, Pipelines, Spaces... 

### Automatic deploys

Enables a chosen branch to be automatically deployed to this app.

 Automatic deploys from  master are enabled

Every push to master will deploy a new version of this app. **Deploys happen automatically:** be sure that this branch in GitHub is always in a deployable state and any tests have passed before you push. Learn more.

Wait for CI to pass before deploy  
Only enable this option if you have a Continuous Integration service configured on your repo.

[Disable Automatic Deploys](#)



**runleonarun** 11:01 AM

Not having to deploy to staging is kinda awesome.

100 1



**rachmari** 2:54 PM

Not having to put a branch on staging is a dream!



4



2



# The welcome bot

[github.com/apps/welcome](https://github.com/apps/welcome)

# new Issue from new user! #7

 Open

 Bookmark

 Pre-release

· hiimbex-test opened this issue 24 days ago · 9 comments



hiimbex-test commented 24 days ago

Contributor



my first issue!



new-issue-welcome  bot commented 24 days ago



This is a template for greeting new users when they open their first issue in your repository. You can use this welcome message to provide links to resources like the contributing guidelines, code of conduct, etc.

# Update README.md #5

[Open](#)

Bookmark

Pre-release

· hiimbex-testing wants to merge 1 commit into `hiimbex:master` from `hiimbex-te:`

Conversation 7

Commits 1

Files changed 1



hiimbex-testing commented 14 days ago

First-time contributor



This is my first pull request!

Update README.md

a402b02



new-pr-welcome bot commented 14 days ago



Thanks for making your first PR here!



hiimbex merged commit [8083eb7](#) into [hiimbex:master](#) 24 days ago

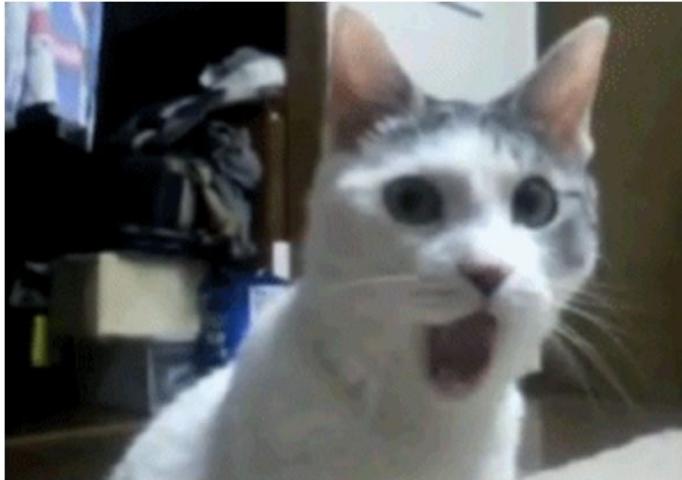
[Revert](#)

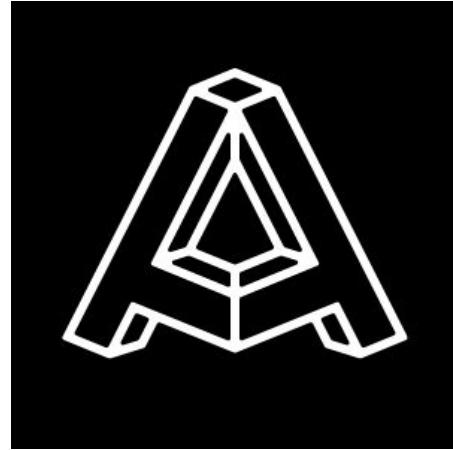


first-pr-merge bot commented 24 days ago

+

Congrats on merging your first PR!





# AccessLint

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accesslint bot suggested changes on Jan 5, 2018

[View changes](#)

accesslint bot left a comment

+ ...

There are accessibility issues in these changes.

views/apps/show.html | Outdated

|     |   |                                       |
|-----|---|---------------------------------------|
| 188 | - | </main>                               |
| 148 | + | <div class="app-box app-screenshots"> |
| 149 | + | <div class="active-screenshot">       |
| 150 | + | <img />                               |



accesslint bot on Jan 5, 2018

+ ...

You're missing an `alt` attribute here. This is a problem for people using screen readers.  
Here are some [tips for what to write](#).



# Twitter, together!

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# The tweets/ folder

To create a new tweet create a new `*.tweet` file in this `tweets/` folder.

[Create new tweet](#)

## Example

Create a new file `tweets/hello-world.tweet` with the content

Hello, world!

You can use subfolders, e.g. `tweets/2019-02/hello-world.tweet`, as long as the file is in the `tweets/` folder and has the `.tweet` file extension



# Dependabot

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## Filters

- Only security updates
- Only lockfile updates (ignore updates that require package.json changes)

## Update strategy for package.json

How should Dependabot update your package.json (as opposed to your lockfile)?

Auto (bump versions if an app, widen ranges if a library)



## Automatic PR merging

Dependabot can automatically merge dependency update PRs for you. For all of the options below we'll wait until all your status checks pass before merging. You can also set working hours for automerging in your account settings.

Runtime dependency PRs to merge automatically

None

Development dependency PRs to merge automatically

None

## Whitelisted dependencies to merge automatically (all versions)

electron-api-historian X

electron-apps X

electron-i18n X



electron-releases X

*Only top level dependencies can be whitelisted*

# Semantic Releases

# Semantic Versioning

1 . 0 . 0

⋮

⋮

⋮

Major

Minor

Patch

# Semantic Releasing

1.0.0

Breaking  
Change

Feature

Fix

# Semantic Releasing

1 . 0 . 1

Breaking  
Change

Feature

Fix

# Semantic Releasing

1 . 1 . 0

Breaking  
Change

Feature

Fix

# Semantic Releasing

1 . 1 . 1

⋮

⋮

⋮

Breaking  
Change

Feature

Fix

# Semantic Versioning

1 . 1 . 2

Breaking  
Change

Feature

Fix

# Semantic Versioning

1 . 1 . 3

Breaking  
Change

Feature

Fix

# Semantic Versioning

1 . 1 . 4

Breaking  
Change

Feature

Fix

# Semantic Versioning

1 . 2 . 0

⋮

⋮

⋮

Breaking  
Change

Feature

Fix

# Semantic Versioning

1 . 3 . 0

Breaking  
Change

Feature

Fix

# Semantic Versioning

2.0.0

⋮

⋮

⋮

Breaking  
Change

Feature

Fix



Open / Grow / **Automate**

# Conventional Commits

feat(website): add some cool stuff

The diagram illustrates the structure of a conventional commit message. At the top, the full commit message 'feat(website): add some cool stuff' is shown. Below it, three arrows point downwards from specific parts of the message to labels: a blue arrow from 'feat' to 'type', a green arrow from '(website)' to 'scope', and an orange arrow from 'add some cool stuff' to 'subject'.

type      scope      subject

`fix(table)`: remove unnecessary nails



**patch release**

`feat(table)`: add legs



**feature release**

`perf(table)`: replace wooden top with glass top

BREAKING CHANGE: The wooden top has been replaced with a glass top, because it performs better.



**breaking release**

# feat: New Crowdin translations #381

 Open

glotbot wants to merge 35 commits into `master` from `new-translations`



All checks have passed

4 successful checks

[Hide all checks](#)



Semantic Pull Request — good to go

[Details](#)



WIP — ready for review

[Details](#)



continuous-integration/travis-ci/pr — The Travis CI build passed

[Details](#)



continuous-integration/travis-ci/push — The Travis CI build passed

[Details](#)



This branch has no conflicts with the base branch

Merging can be performed automatically.

[Squash and merge](#)



You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

[Open](#) / [Grow](#) / [Automate](#)

# feat: New Crowdin translations #381

 Open

glotbot wants to merge 35 commits into `master` from `new-translations`



## All checks have passed

4 successful checks

[Hide all checks](#)

  Semantic Pull Request — good to go

[Details](#)

  WIP — ready for review

[Details](#)

  continuous-integration/travis-ci/pr — The Travis CI build passed

[Details](#)

  continuous-integration/travis-ci/push — The Travis CI build passed

[Details](#)



## This branch has no conflicts with the base branch

Merging can be performed automatically.

[Squash and merge](#) ▾

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

### 1.6.3 March 6th 2019

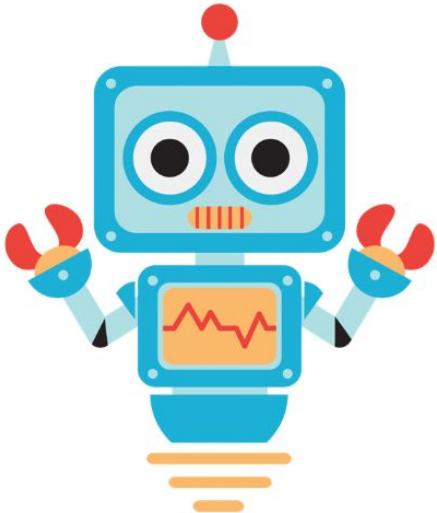
- + NEW Display "pull with rebase" if a user has set this option in their Git config - #6553 #3422
- + FIXED Context menu does not open when right clicking on the edges of files in Changes list - #6296. Thanks @JQuinnie!
- + FIXED Display question mark in image when no commit selected in dark theme - #6915. Thanks @say25!
- + FIXED No left padding for :emoji:/@user/#issue autocomplete forms. - #6895. Thanks @murrelljenna!
- + FIXED Reinstate missing image and update illustration in dark theme when no local changes exist - #6894
- + FIXED Resizing the diff area preserves text selection range - #2677
- + FIXED Text selection in wrapped diff lines now allows selection of individual lines - #1551
- + IMPROVED Add option to fetch when a user needs to pull changes from the remote before pushing - #2738 #5451
- + IMPROVED Enable Git protocol v2 for fetch/push/pull operations - #6142
- + IMPROVED Moving mouse pointer outside visible diff while selecting a range of lines in a partial commit now automatically scrolls the diff - #658
- + IMPROVED Sign in form validates both username and password - #6952. Thanks @say25!
- + IMPROVED Update GitHub logo in "About" dialog - #5619. Thanks @HashimotoYT!

# **Rolling your own.**

Tools for creating custom GitHub integrations

# GitHub Webhooks

check\_suite.completed  
issue\_comment.created  
issues.opened  
issues.reopened  
member.added  
milestone.closed  
organization.member\_added  
project\_card.moved  
pull\_request\_review.submitted  
pull\_request.labeled  
pull\_request.ready\_for\_review  
release.created  
release.published  
repository\_vulnerability\_alert  
repository.created  
security\_advisory.published



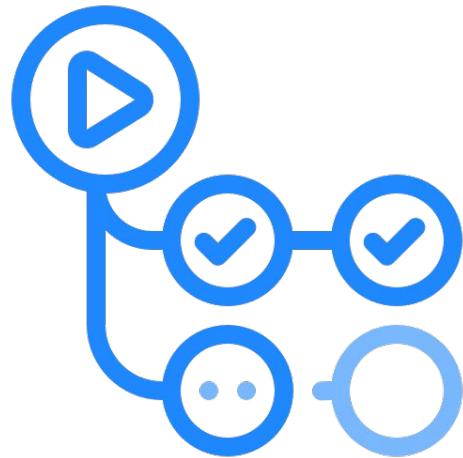
# PROBOT

GitHub Apps to automate  
and improve your workflow

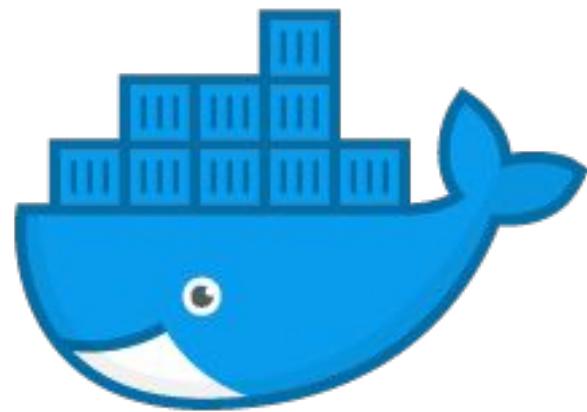
Use pre-built apps to extend GitHub,  
and easily build and share your own.

```
robot.on('issues.opened', async context => {
  // context.github is an authenticated @octokit/rest client!
  context.github.issues.getForRepo(context.repo())

  // bots can talk
  context.github.issues.createComment(
    context.issue({body: 'Hello World!'})
  )
})
```



# GitHub Actions



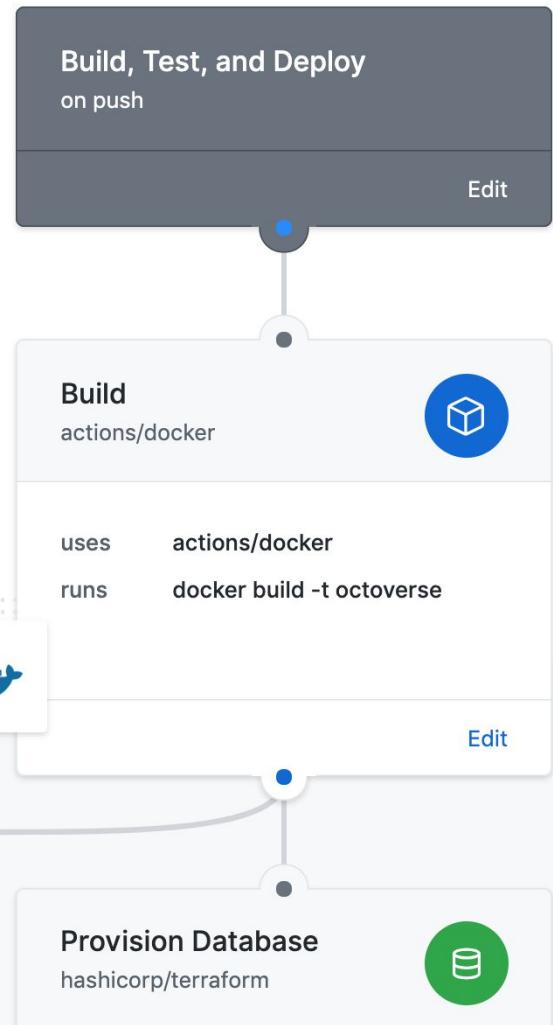
docker

GitHub Actions

# Focus on what matters: code

With GitHub Actions you can automate your workflow from idea to production.

[Sign up for the beta](#)



```
workflow "tests" {
  on = "push"
  resolves = ["npm test"]
}

action "npm install" {
  uses = "docker://node:10-alpine"
  runs = "npm"
  args = "install"
}

action "npm test" {
  uses = "docker://node:10-alpine"
  runs = "npm"
  args = "test"
  needs = ["npm install"]
}
```



**All checks have passed**

3 successful checks



**npm ci** — npm ci



**npm test** — npm test



**staging** — deployed in 118 seconds

 Code

 Issues 0

 Pull requests 0

 Actions

 Projects 0

 Wiki

 Insights

 Settings

## Options

## Collaborators

## Branches

## Webhooks

## Notifications

## Integrations & services

## Deploy keys

## Secrets

# Secrets

Secrets are environment variables that are **encrypted** and only exposed to selected actions.

 ALGOLIA\_TOKEN

[Remove](#)

 CROWDIN\_TOKEN

[Remove](#)

 NPM\_TOKEN

[Remove](#)

[Add a new secret](#)

```
workflow "Check for broken links" {
    resolves = ["check all links"]
    on = "schedule(*/10 * * * *)" # every ten minutes
}
```

# The Open Source Journey



- CI
- Review Apps
- welcome-bot
- Accesslint
- Twitter, together
- Dependabot
- Semantic Releases
- Conventional commits
- Webhooks
- Probot
- GitHub Actions

# The Open Source Journey

Open

Grow

Automate

- 
- GitHub Flow
  - README
  - Code of Conduct
  - CONTRIBUTING.md
  - License
  - Issue Templates
  - Pull Request Templates
  - Permissions
  - Codeowners
  - Contributor roles
  - Enforce Code of Conduct
  - Personal Touch
  - Offer Mentorship
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  - Probot
  - GitHub Actions



Close your eyes again.

