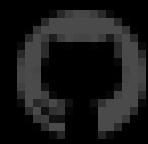


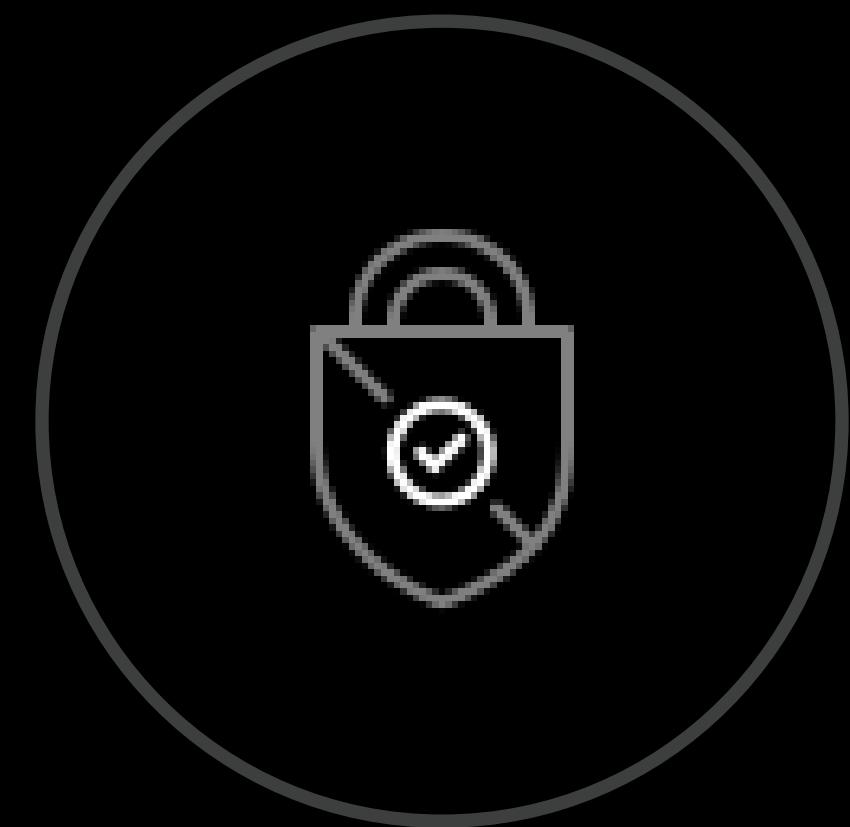
# GitHub - 101

An introductory session



Every company is an  
~~software~~ *innovation* company

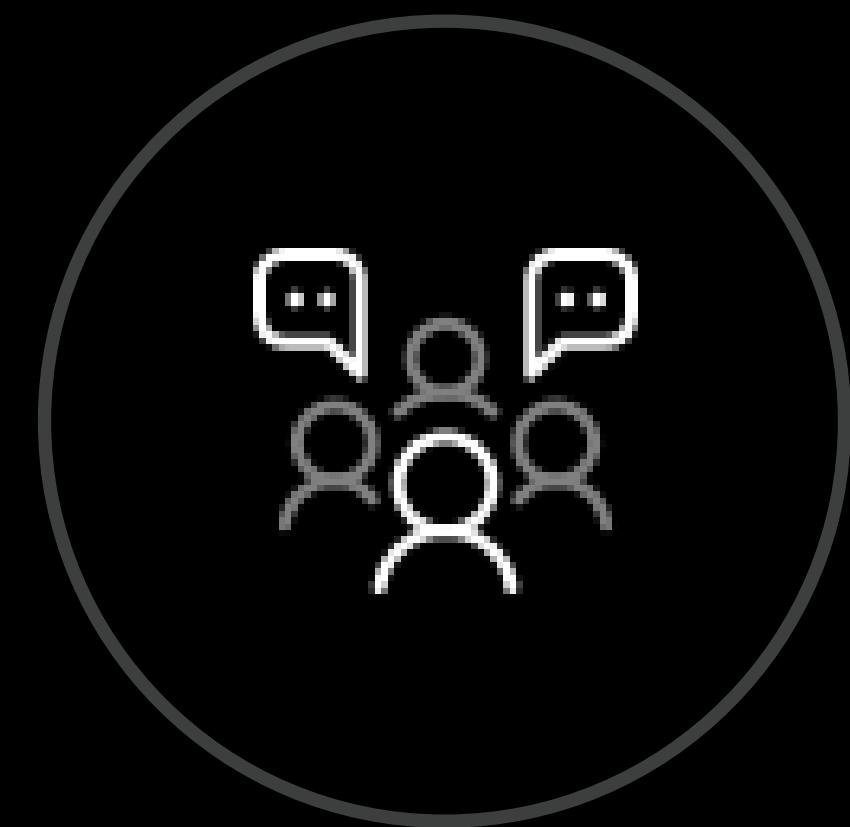




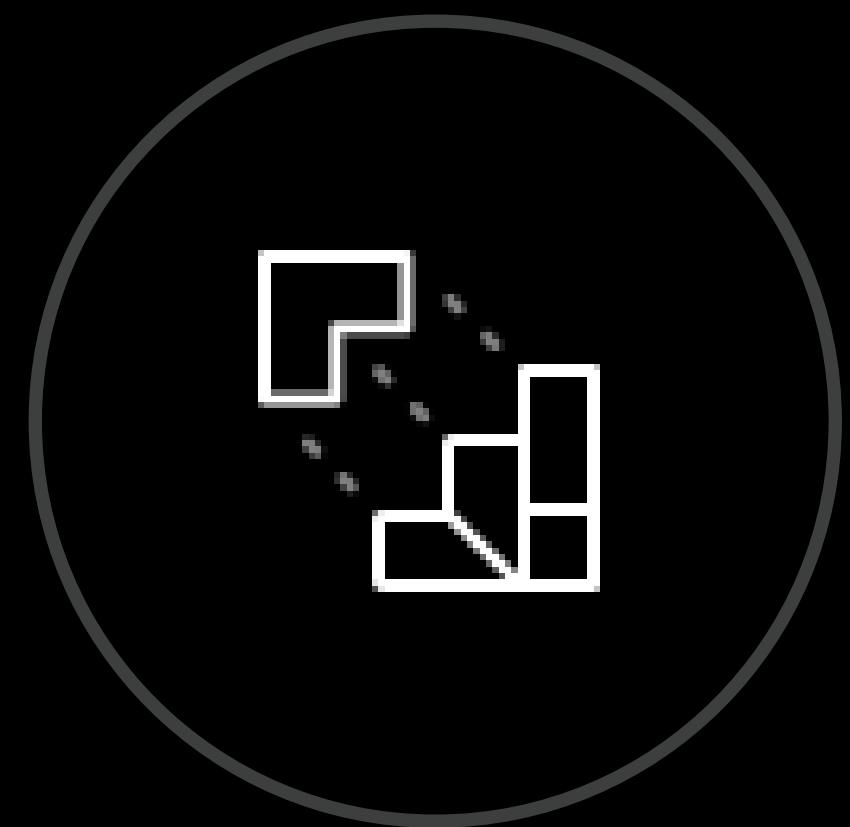
Security



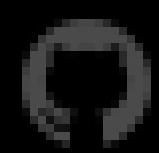
Scale



Adoption

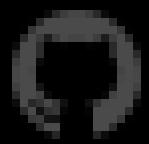


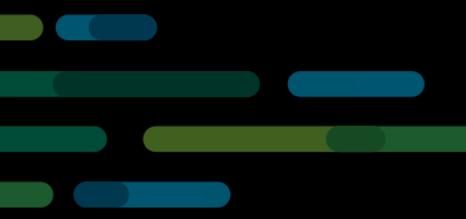
Integration



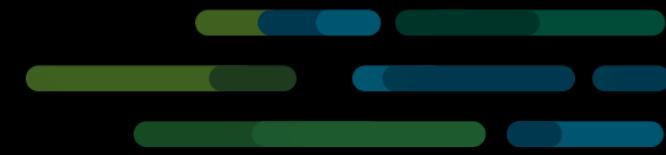
# CXO/IT/Engineering must:

- Prevent the next data breach.
- Innovate while maintaining compliance.
- Create, nurture, and optimize their open source presence.





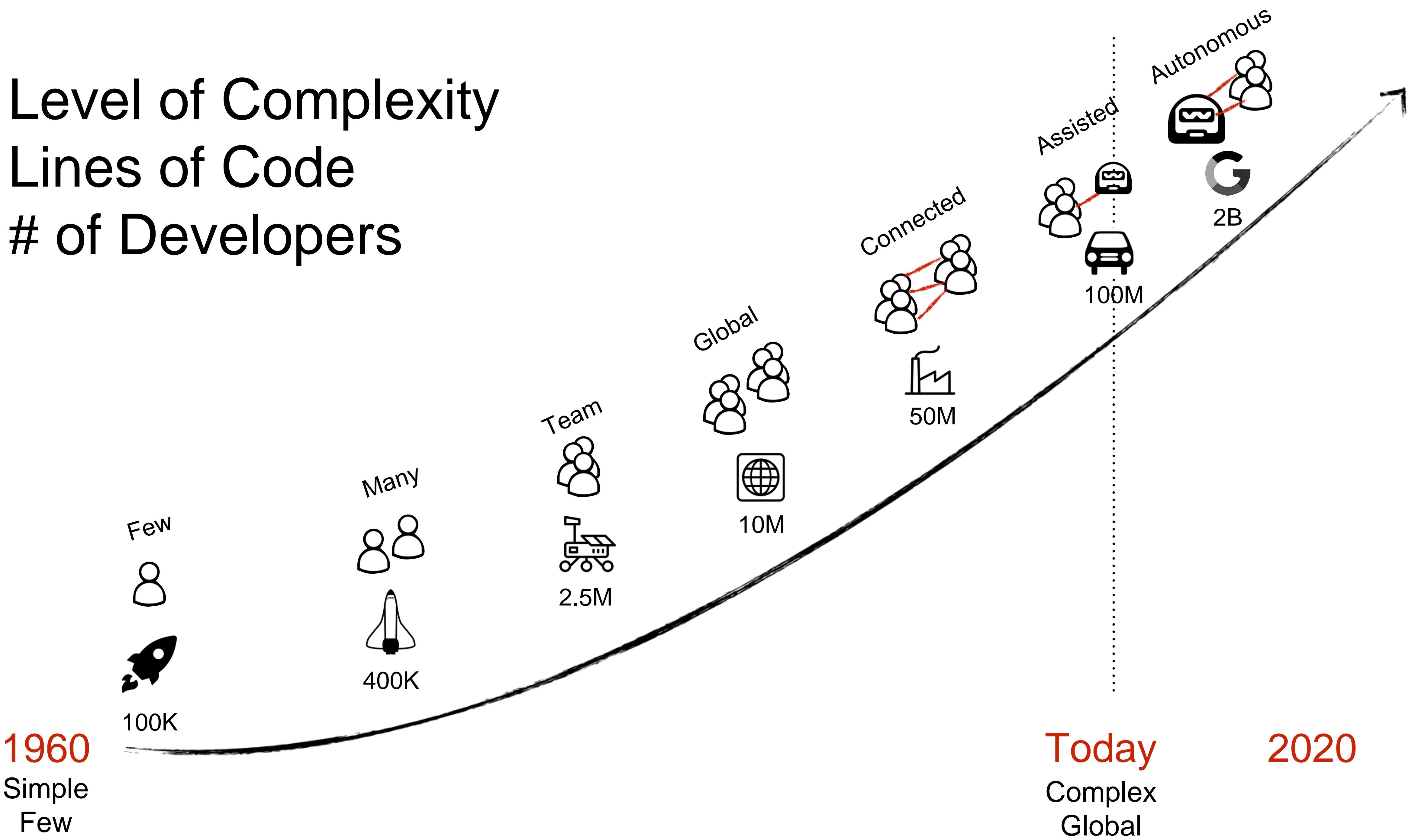
# Software Development - a recap



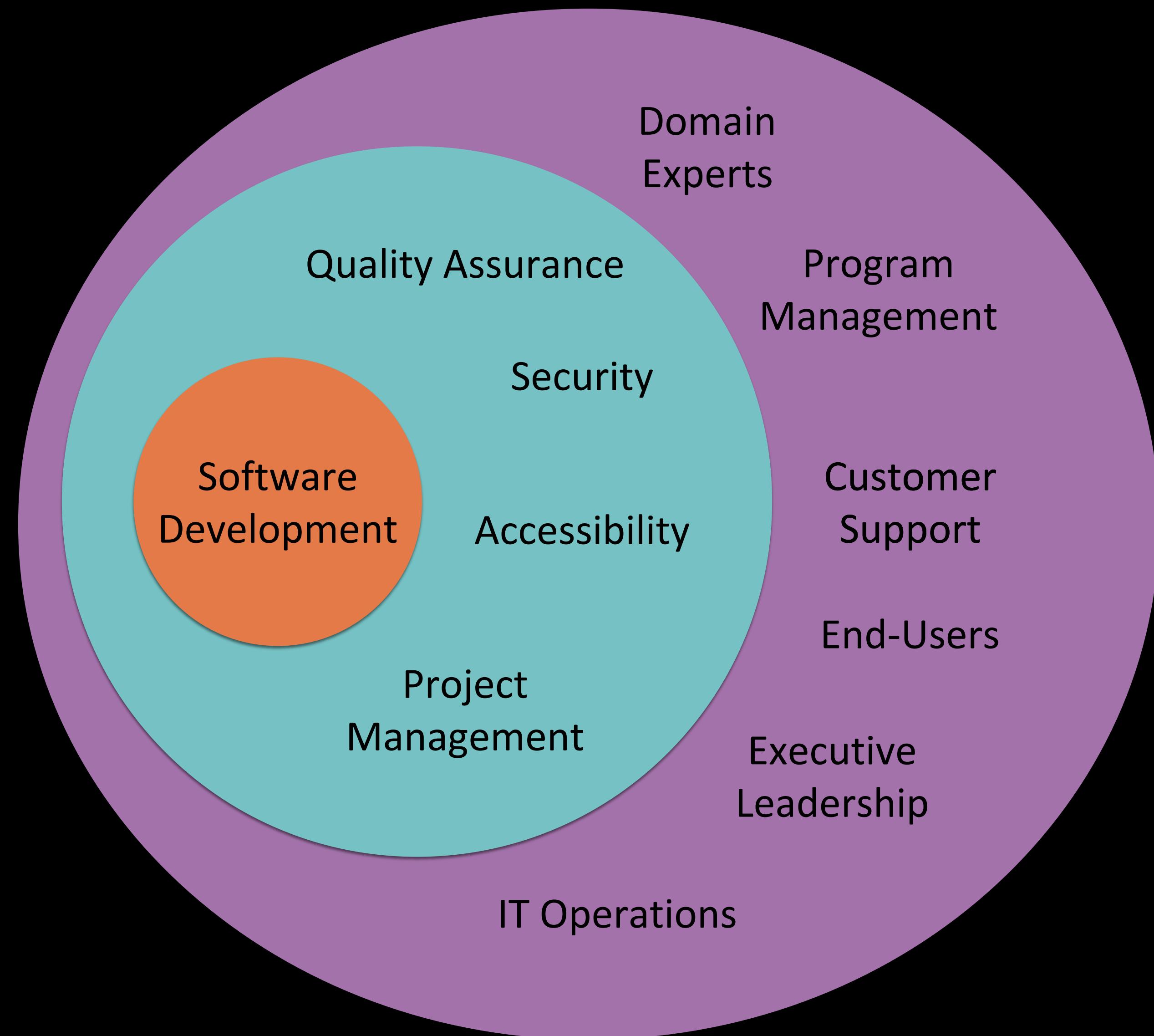
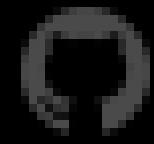
# Level of Complexity

## Lines of Code

## # of Developers



# Software is a Team Sport



# What *is* GitHub ... ?

“A place to put code”

“A distributed version control system”

“A sticker company with a cool logo...  
... that also makes software?”



# What *is* GitHub ... Really?

**GitHub** is how people build software

We're supporting a community where more than 27 million\* people learn, share, and work together to build software.

October 2007

First commit

San Francisco

Headquarters

80 million\*

Repositories hosted

\* As of March 2018

We want to provide every company the opportunity to be an innovation company



# Git < GitHub

```
bash-3.2$ zsh
[18-05-11 ~ 14:17:35] ~/Documents/learning/node-course/notes-node % * master
%
```

Add async implementation of  
GitRepositoryProvider.repositoryForDirectory #16558

[Open](#) igelger wants to merge 3 commits into atom/master from igelger:async-git

Conversation 3 Commits 3 Checks 0 Files changed 3 +201 -89

Igelger commented on Jan 14

Description of the Change

This PR converts `src/git-repository-provider.coffee` to JS and converts the synchronous filesystem calls inside `gitRepositoryProvider.repositoryForDirectory` to async. As far as I know this doesn't make it fully async since `Repository.open` still does some synchronous calls, but it's a starting point for future optimisations.

Alternate Designs

I'd prefer to fully remove `gitRepositoryProvider.repositoryForDirectorySync` to reduce the amount of code but this would be a breaking change for any packages that might be using this method or `atom.project.addPath()`.

`atom.project.addPath()` is the only place where `repositoryForDirectorySync` is currently used inside Atom:

```
atom/src/project.js
Line 373 in atom/src
373   repo = provider.repositoryForDirectorySync(directory)
```

I think adding an optional async implementation of `atom.project.addPath()` in a future PR would be the easiest thing to do.

A quick look through the community packages reveals that it's not really used there either.

Click here to see the full output of searching through all community packages.

Why Should This Be In Core?

It's already in Core

Benefits

This removes synchronous IO from Atom Core which should help when using Atom together with network attached file systems.

# Who Uses GitHub?



# Personas

**TEAM LEADERS**

**PROJECT MANAGERS**

**DEVELOPERS**

**CUSTOMERS &  
CONSUMERS**

**INFRASTRUCTURE  
OPS & SECURITY**

**MANAGERS &  
EXECUTIVES**



# Personas

**DEVELOPERS**

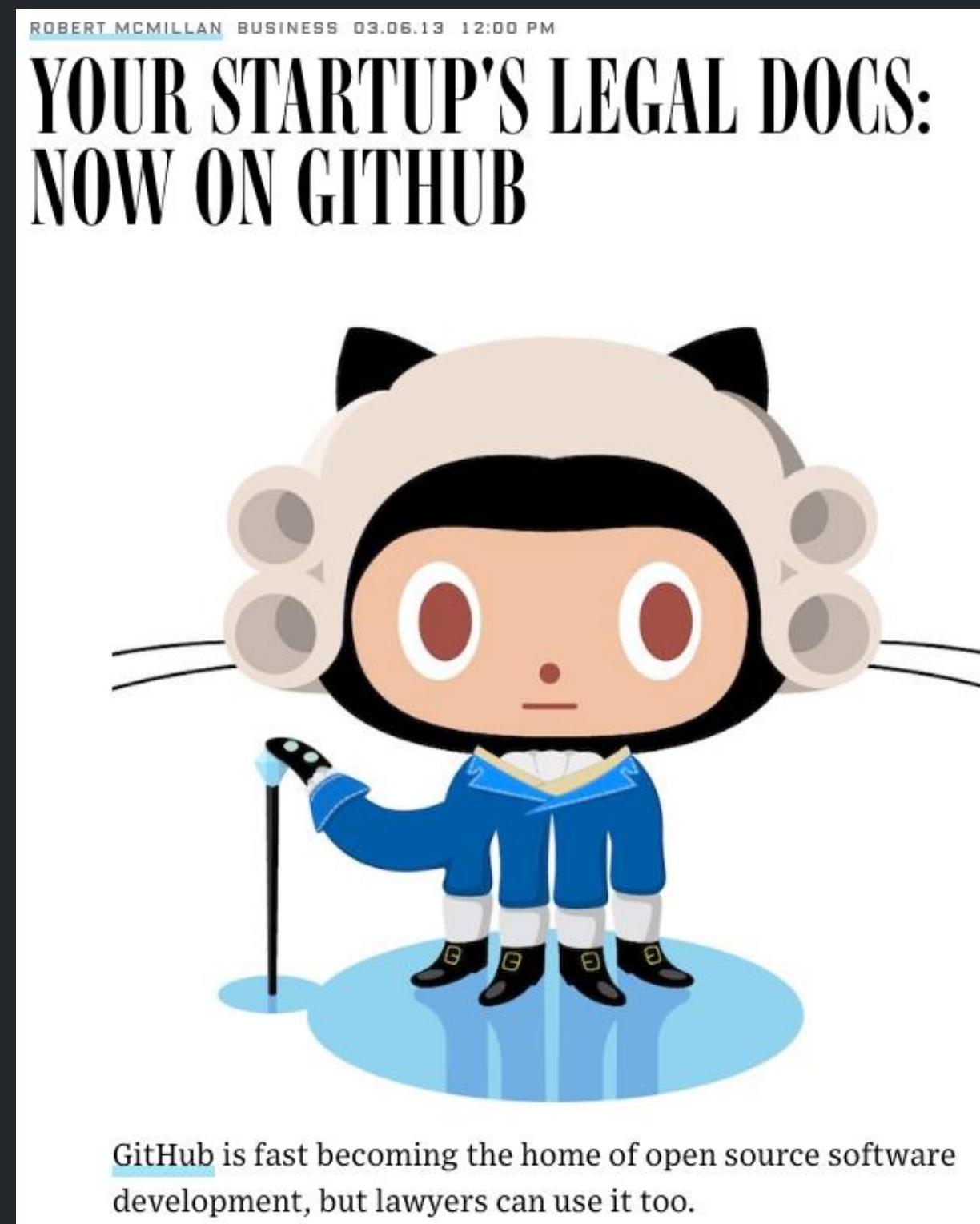
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**INFRASTRUCTURE  
OPS & SECURITY**

**MANAGERS &  
EXECUTIVES**

**PROJECT MANAGERS**

**CUSTOMERS &  
CONSUMERS**



**People Operations**

**Sales**

**Recruitment**

**Asset Management**

**Legal**

**Marketing**

HOW TO USE GITHUB  
TO GET A JOB



# Common Term definitions

• Issue	Something that needs to be fixed or done or ‘an issue’
• Commit	Atomic unit of change to content under version control
• Branch - `Master`	Master is “special / reserved” branch. Branches create a safe environment to make changes and try things out
• Pull Request	A threaded conversation about a branch on GitHub and a request to have your changes incorporated “upstream”
• Merge (Conflict)	Merging changes committed in one or more branches to another branch
• Markdown	A web document authoring shorthand language providing rich and    sometimes #entertaining documentation



## COMMUNITY • DATA

CUSTOMER SUCCESS TEAM • SUPPORT TEAM

DISASTER RECOVERY \*  
HIGH AVAILABILITY \*  
GEO-REPLICATION \*  
HOTPATCHING \*



SEARCH



ORGANIZATIONS



TEAMS



GISTS



WIKIS



PAGES



PROJECTS



MILESTONES



SOCIAL CODING



INSIGHTS



ISSUES



MENTIONS



REPOS



CODE REVIEW



PULL REQUESTS



CONCEPT

\* ENTERPRISE ONLY



CUSTOMER

REST API  
GRAPHQL API  
MONITORING  
LOGGING

INTEGRATIONS • MARKETPLACE • PROFESSIONAL SERVICES

## COMMUNITY • DATA

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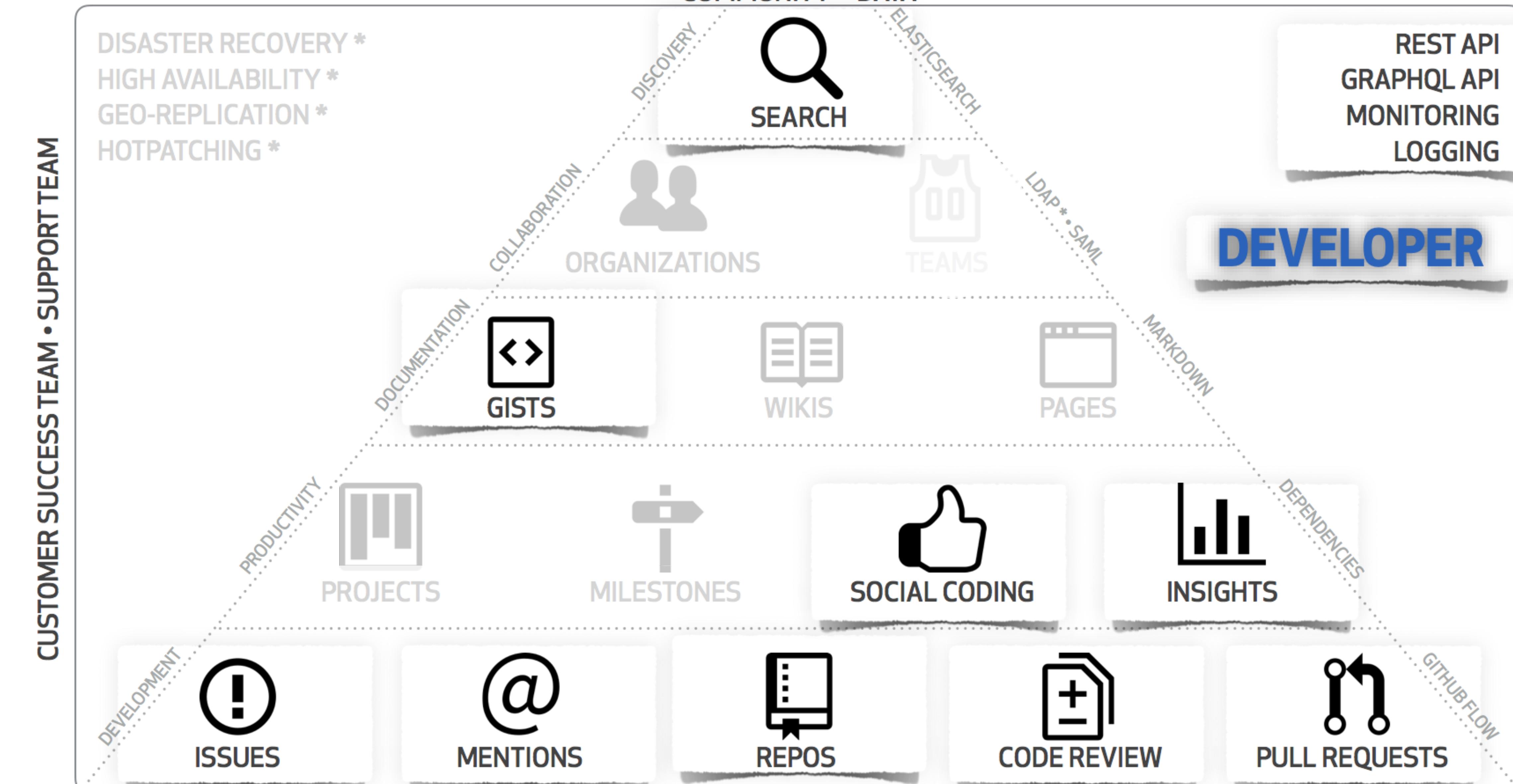
PULL REQUESTS



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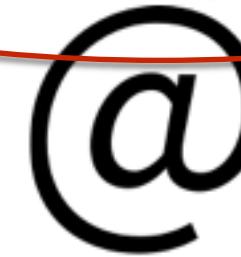
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PULL REQUESTS



CUSTOMER

DISCOVERY

COLLABORATION

ELASTICSEARCH

LDAP \* SAML

MARKDOWN

DEPENDENCIES

GITHUB FLOW

DEVELOPMENT

DOCUMENTATION

PRODUCTIVITY

PROFESSIONAL SERVICES

REST API  
GRAPHQL API  
MONITORING  
LOGGING

# PROJECT MANAGERS

\* ENTERPRISE ONLY

## COMMUNITY • DATA

CUSTOMER SUCCESS TEAM • SUPPORT TEAM

DISASTER RECOVERY \*  
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HOTPATCHING \*



SEARCH



ORGANIZATIONS



TEAMS



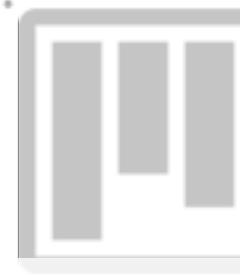
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PAGES



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CONCEPT

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REST API  
GRAPHQL API  
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LOGGING

## INFRASTRUCTURE & SECURITY

INTEGRATIONS • MARKETPLACE • PROFESSIONAL SERVICES



## COMMUNITY • DATA

CUSTOMER SUCCESS TEAM • SUPPORT TEAM

- DISASTER RECOVERY \*
- HIGH AVAILABILITY \*
- GEO-REPLICATION \*
- HOTPATCHING \*



ORGANIZATIONS



TEAMS

**Managers and  
Executives**

REST API  
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PROJECTS



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INSIGHTS



REPOS



CODE REVIEW



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INTEGRATIONS • MARKETPLACE • PROFESSIONAL SERVICES



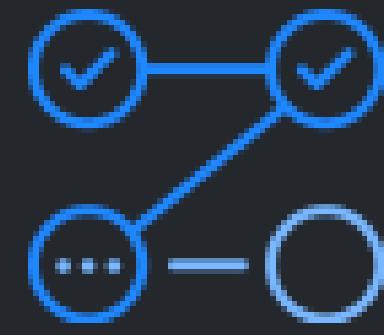
# Workflow

## The GitHub Flow





People



Process



Technology

## COMMUNITY • DATA

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HIGH AVAILABILITY \*  
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WIKIS



PAGES

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MARKDOWN

DEPENDENCIES

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GITHUB FLOW





[Code](#)[Issues 314](#)[Pull requests 23](#)[Projects 5](#)[Insights](#)**Community**

Updated 7 hours ago

 Filter cards[+ Add cards](#)[Fullscreen](#)[Menu](#)**10 Available**

ⓘ Add filtering of Pull Requests by pull request number and author  
#4229 opened by tierninho  
[enhancement](#) [help wanted](#)

ⓘ Hide menu bar in Linux  
#3151 opened by ziggy42  
[enhancement](#) [help wanted](#) [linux](#)

ⓘ Move "forgot password" link below/after password input  
#4109 opened by francisrath  
[enhancement](#) [help wanted](#)

ⓘ Add hooks so that the Developer Tools Console can be used to debug the running app

[Automated as To do](#)[Manage](#)**2 Taken**

ⓘ Decrease the max line length limit  
#3740 opened by joshaber  
[good first issue](#) [help wanted](#)

ⓘ 'Enter` key should be consistent for dialogues/modals?  
#3629 opened by tierninho  
[enhancement](#) [good first issue](#) [help wanted](#)

**5 In progress**

ⓘ SVGs now have a visual diffs  
✓ #3497 opened by mathieudutour

ⓘ Dynamically Stylistable SVG: Part Deux  
✓ #3773 opened by OiYouYeahYou

ⓘ Add a custom global whitelist  
✗ #4034 opened by j-f1

ⓘ context menu for files in commit history (open/show in explorer)  
✓ #4037 opened by crea7or

ⓘ Unable to multi select files in the change set list  
#1712 opened by chikuba  
[enhancement](#)

[Automated as In progress](#)[Manage](#)**9 Done**

ⓘ add visual indicator that a folder can be dropped on Desktop  
#4004 opened by shiftkey  
[enhancement](#) [good first issue](#) [help](#)

ⓘ Clean up PR integration feature flag uses  
#4025 opened by shiftkey  
[good first issue](#) [help wanted](#) [tech-debt](#)

ⓘ Discard All Changes isn't discovered  
#4197 opened by mdiep  
[enhancement](#) [help wanted](#)

ⓘ Enable autofocus on 2FA login window  
#4132 opened by tierninho  
[good first issue](#) [help wanted](#)

[Automated as Done](#)



This repository

Search

Pull requests Issues Marketplace Explore



desktop / desktop

Watch

449

Star

4,473

Fork

1,534

Code

Issues 309

Pull requests 20

Projects 5

Insights

## relax regex rule to catch more merged PRs #4288

Edit

Open

shiftkey wants to merge 4 commits into master from relax-regex-for-fixed-issue

Conversation 8

Commits 4

Files changed 3

+76 -8



shiftkey commented a day ago • edited

Owner



This came up as part of #4234, and it looks like some PRs can link to issues using Fixes: #id (with the colon). This is valid syntax for auto-closing issues when the PR is merged:

## Add visual indicator that a f #4239

Merged

niik merged 6 commits into desktop:master

Conversation 13

Commits 6

Files c



agisilaos commented 5 days ago • edited by

Fixes: #4004

This pull request closes issue #4004.

kind of issue

Our parser doesn't handle this, so it was overlooked in the release notes generator:

```
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
```

### Reviewers

staabm

agisilaos

j-f1

At least 1 approving review is required to merge this pull request.

### Assignees

No one—assign yourself

### Labels

ready-for-review

### Projects

None yet

### Milestone

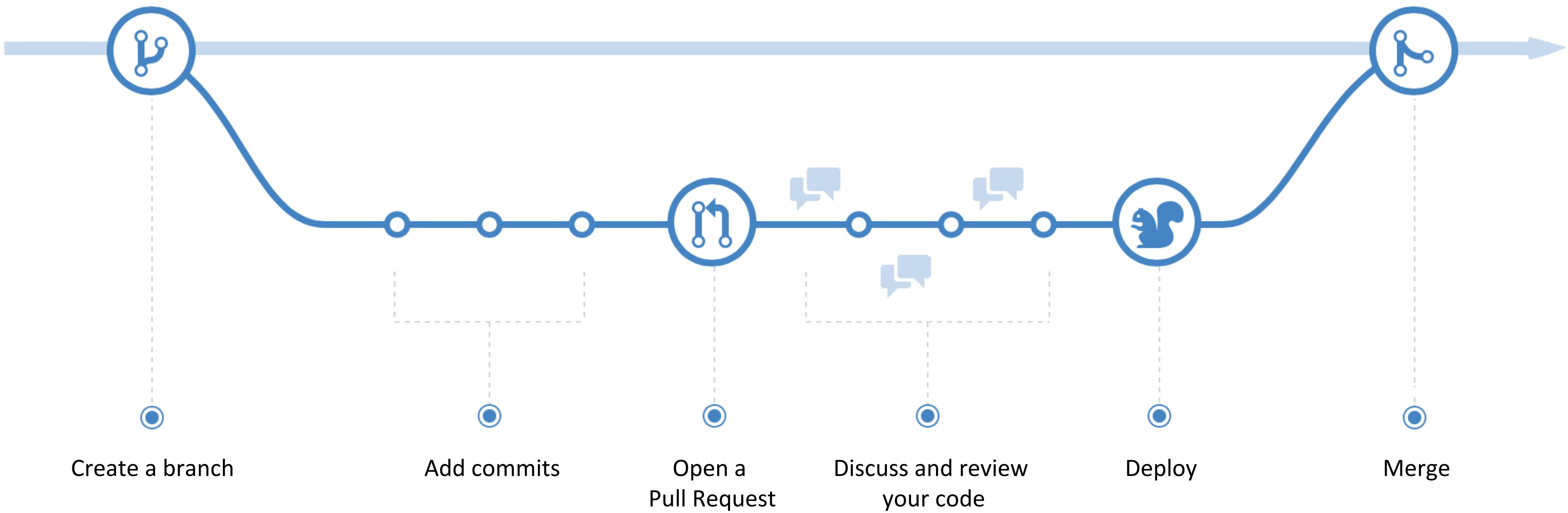
No milestone

### Notifications

Subscribe

You're not receiving notifications

# The GitHub Flow



# Conversation in and around code

