

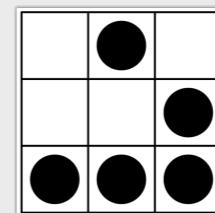
# Extending Github flow with practical testing

Andrii Soldatenko  
24-25 February 2017  
Kyiv, Ukraine

 @a\_soldatenko

# Andrii Soldatenko

- Senior Python Developer at
- Co-founder and CTO at
- Co-organizer PyCon Belarus 2017
- Speaker at many PyCons and Python meetups
- blogger at <https://asoldatenko.com>



# Table of contests:

- Problem?
- What is GIT?
- Social coding
- Functional testing
- Conclusion

# Houston we have a problem



"Houston, we have a problem." Jim Lovell

**As a developer I want to  
use git and github flow**

**As a QA Engineer I want  
to perform practical testing**

# Preface



# History

Git was created

Github has 100,000 users

2005

2008

2009

Github was created



<https://api.github.com/users?since=25977271>



# What's GIT?



- fast-version-control
- local-branching-on-the-cheap
- distributed-even-if-your-workflow-isnt
- distributed-is-the-new-centralized

# 101 GIT

mkdir Project

cd Project

git init

git clone ssh://server.example.com/path/to/Project

git add ...

git status

git commit -m "Commit message"

# 102 GIT

git **branch** new-feature

git **checkout** new-feature

...do some changes...

git **add** ...

git **commit** -m "Commit message"

git **checkout** master

git **merge** new-feature

# 103 GIT

git push origin

git pull origin

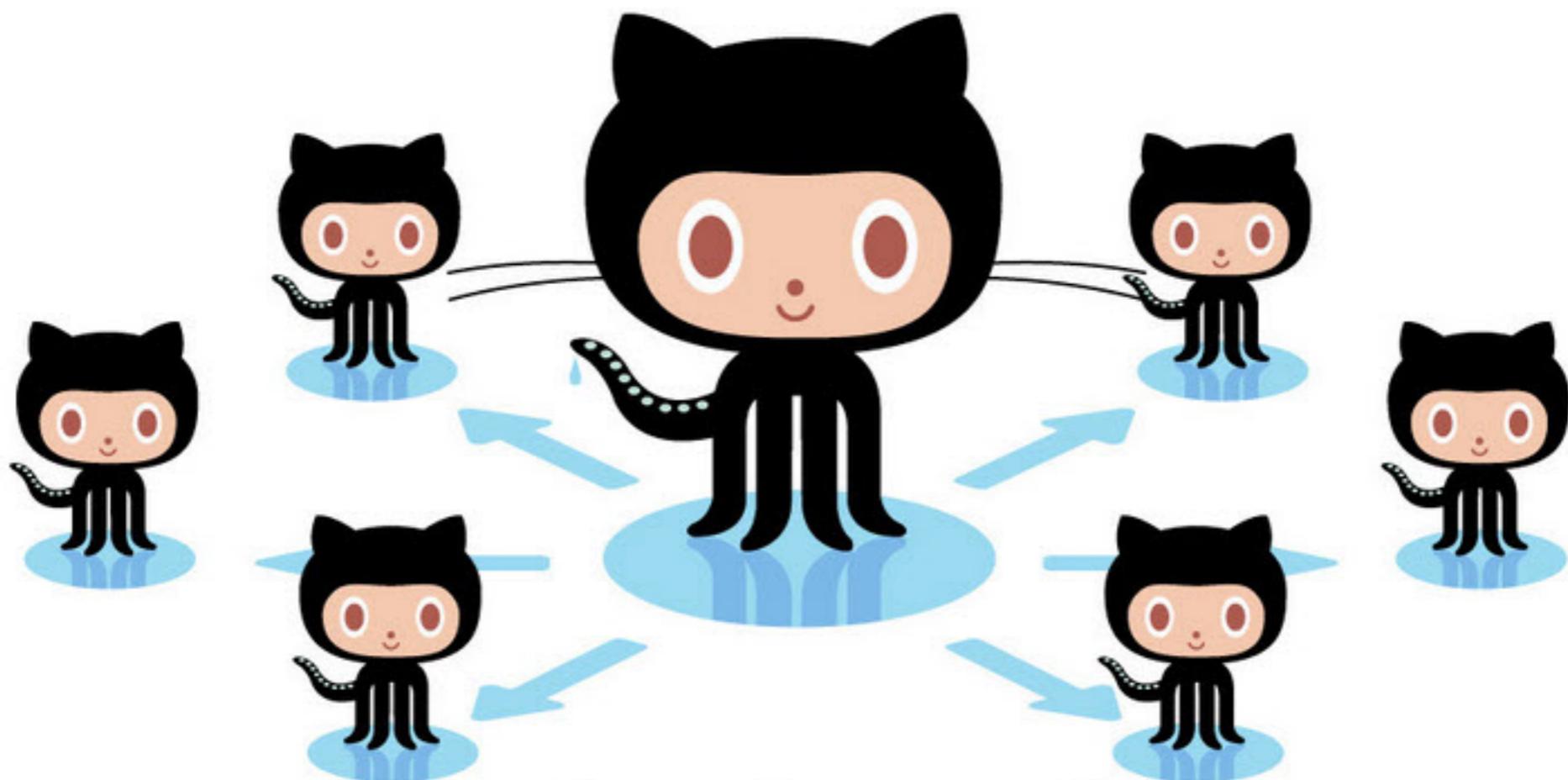
git merge origin/master

git remote add second-server ssh://

second.example.com/path/to/repo

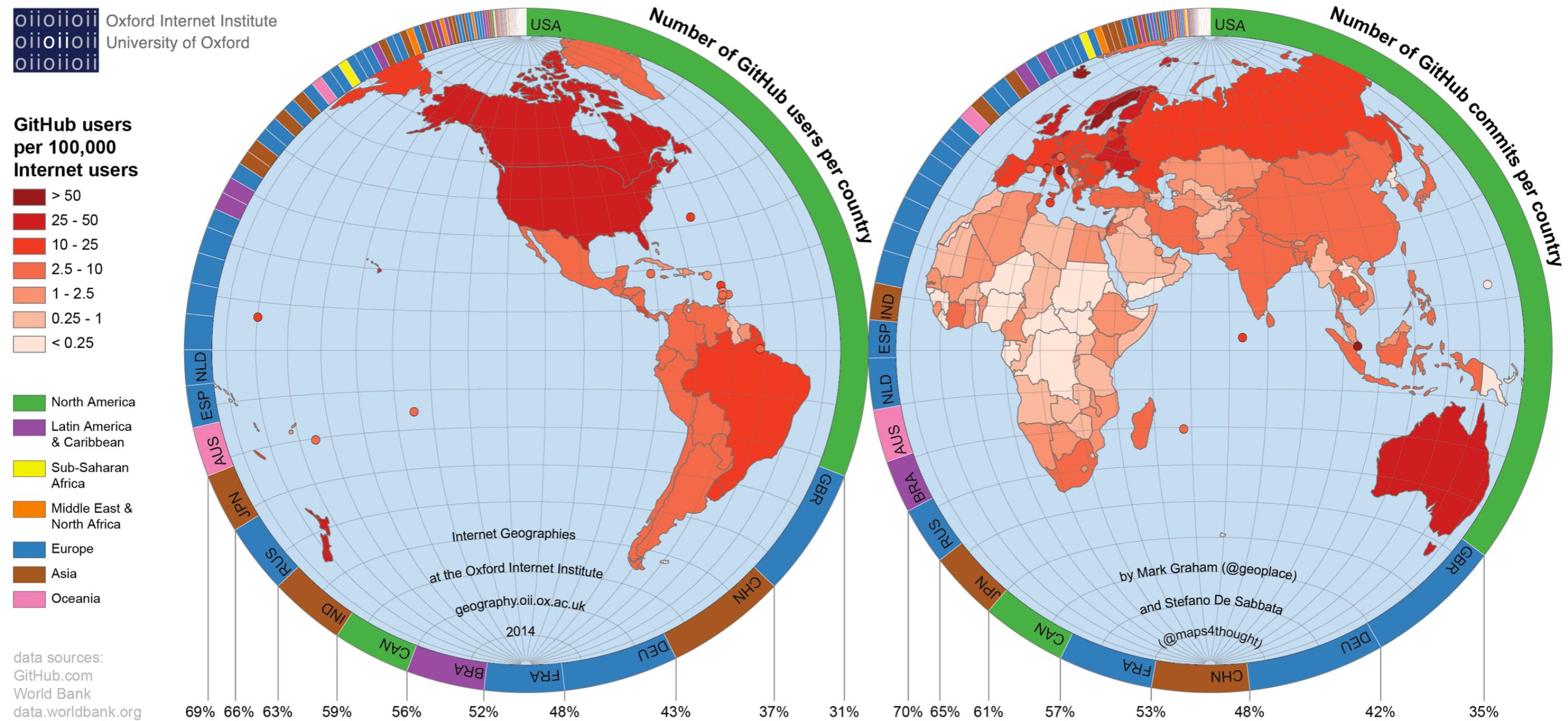
git —help

# Social coding

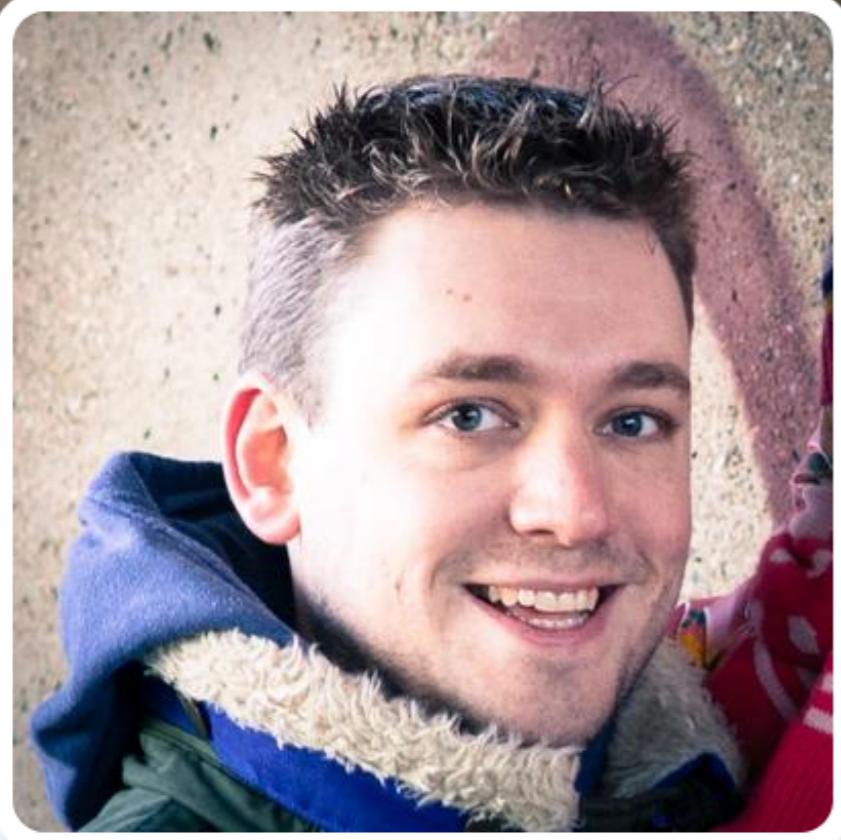


**github**  
SOCIAL CODING

# Github per 100k users



# Git flow



TWEETS

20.8K

FOLLOWING

143

FOLLOWERS

5,511

LIKES

2,207

## Vincent Driesssen

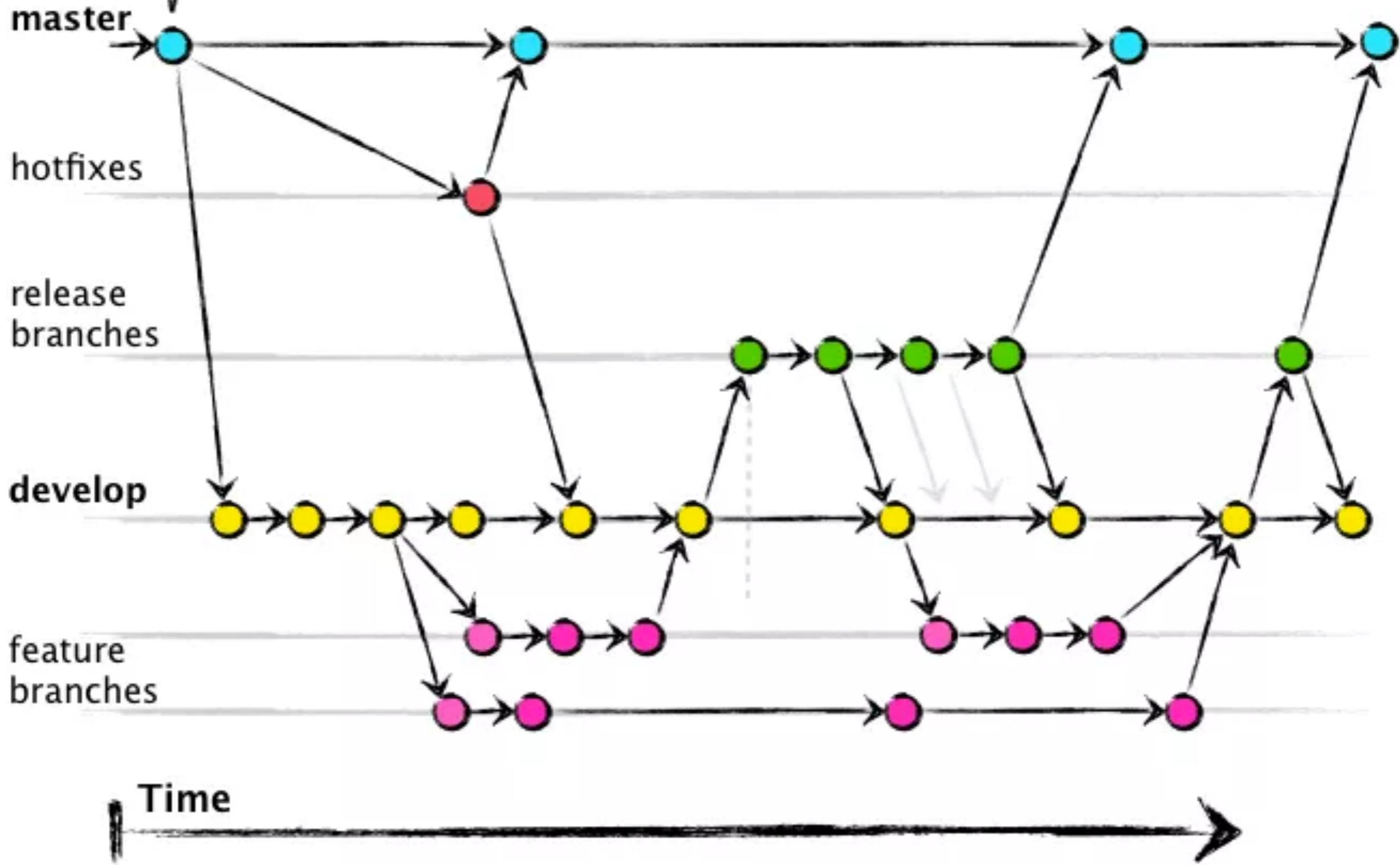
@nvie

Crafter of code, builder of products. CTO  
at [@GitPrime](#) (YC W16).

@a\_soldatenko

Tag  
0.1

Author: Vincent Driessen  
Original blog post: <http://nvie.com/archives/323>  
License: Creative Commons



# Git flow

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# Git flow script

<https://github.com/nvie/gitflow>



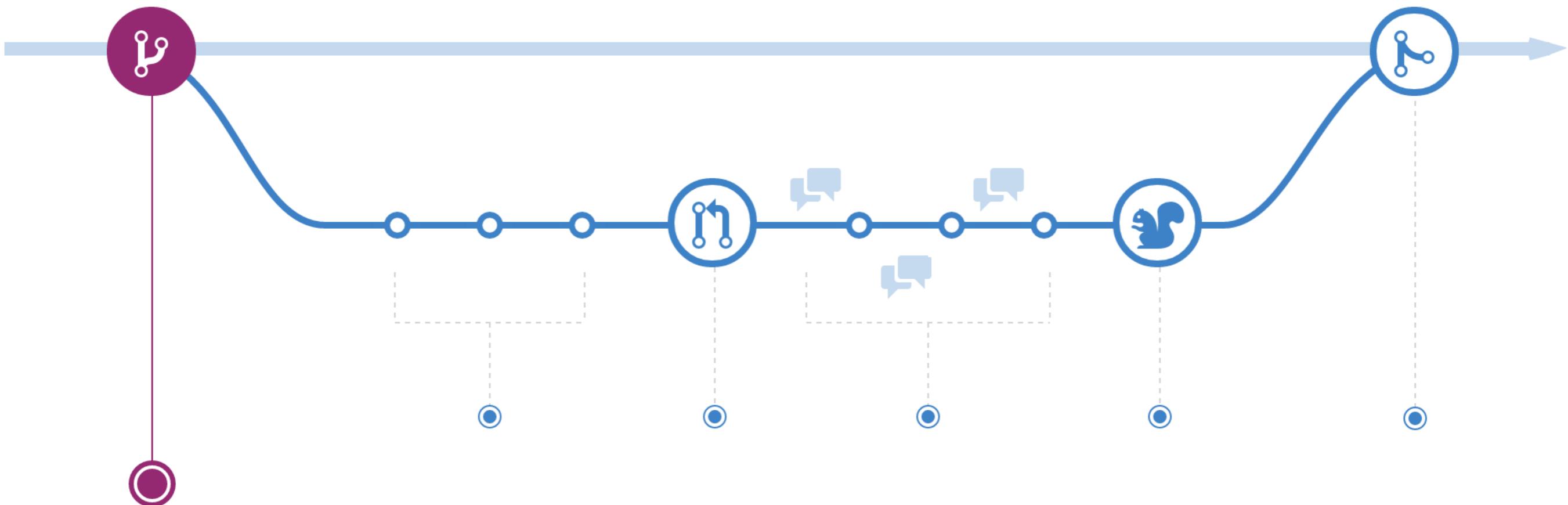
So, why don't we use  
git-flow at GitHub?

**Scott Chacon**  
schacon

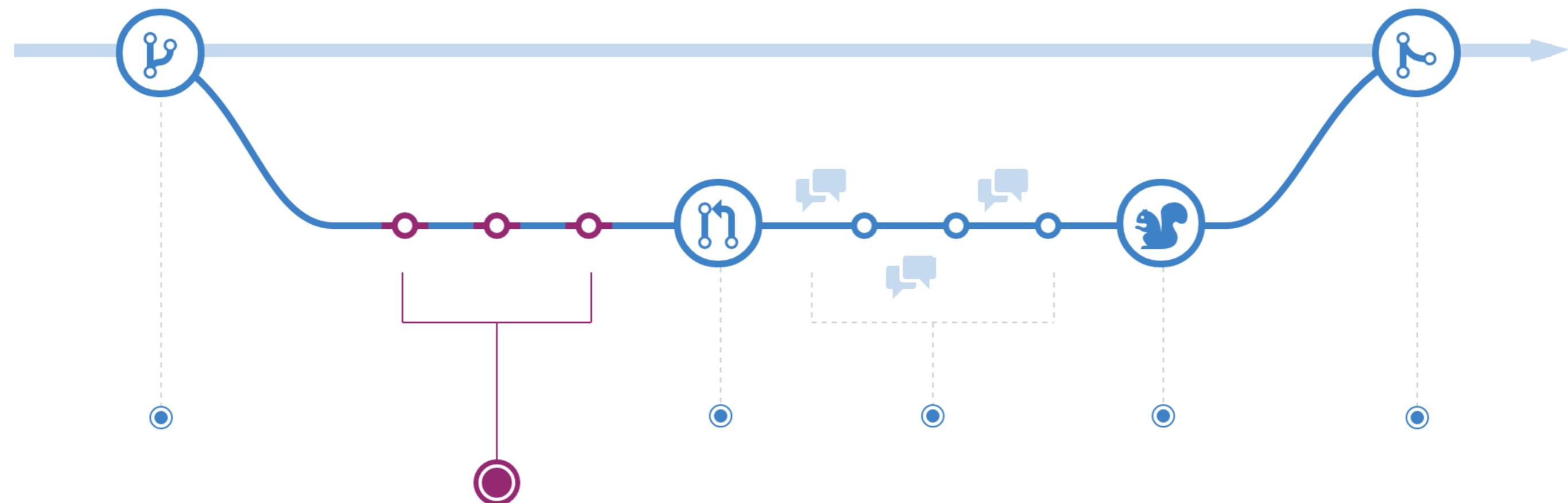
# Fast deployment statistics

Amazon deploys every 11.6 seconds

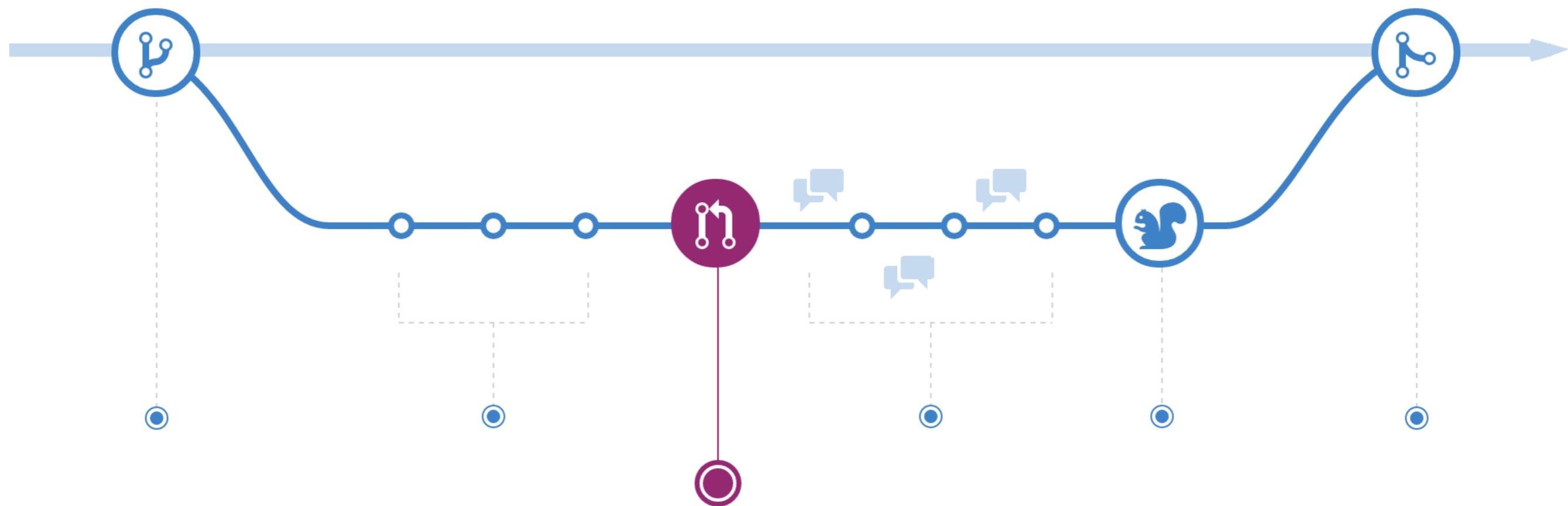
# Create a branch



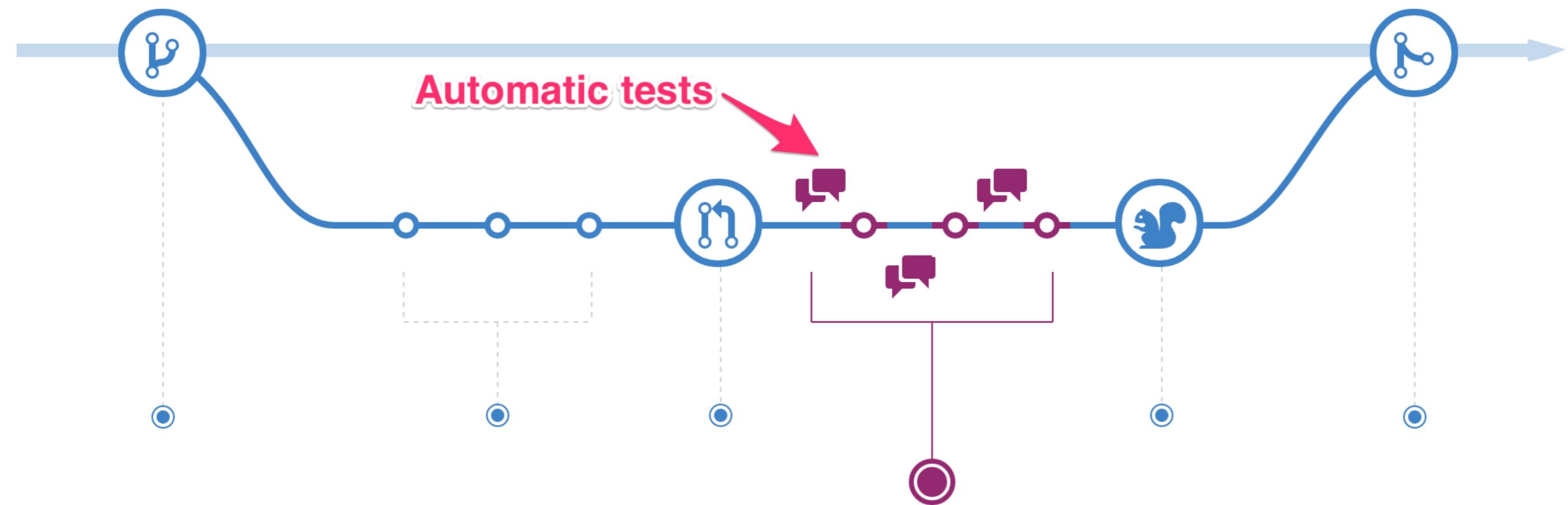
# Add commits



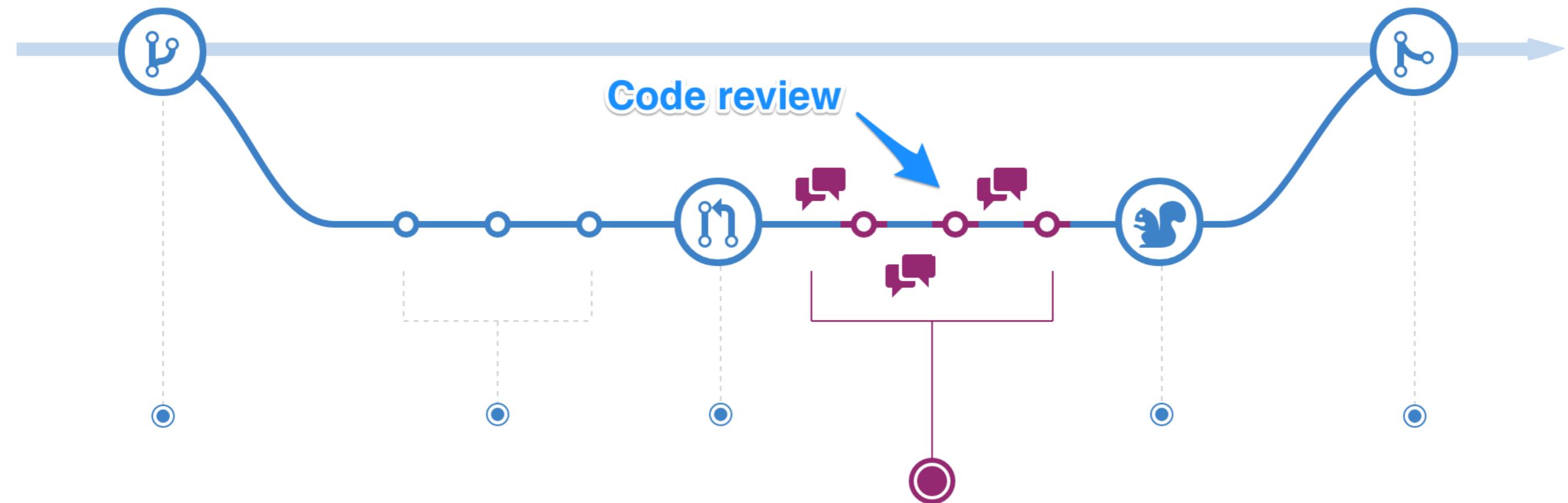
# Open Pull Request



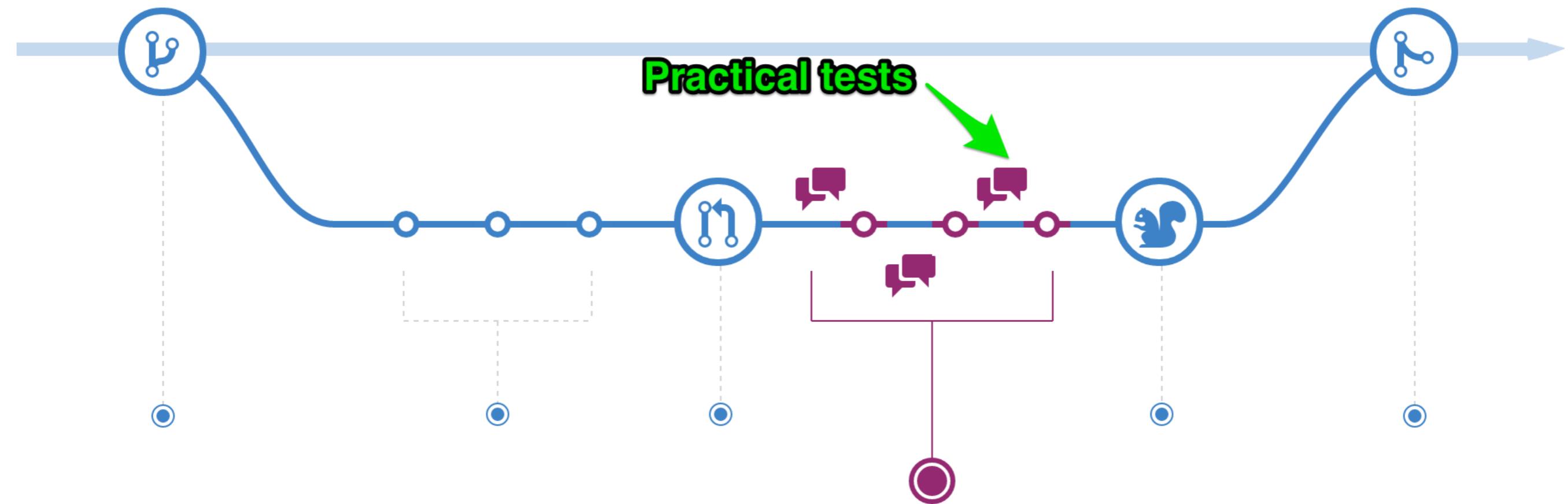
# Test



# Code review



# Practical tests



# Social testing



## Review requested

[Show all reviewers](#)

Review has been requested on this pull request. It is not required to merge. [Learn more.](#)



## All checks have passed

[Hide all checks](#)

3 successful checks



**ci/circleci** — Your tests passed on CircleCI!

[Details](#)

**codecov/patch** — Coverage not affected when comparing 6dad515...94a1d83

[Details](#)

**codecov/project** — 94.67% (+0.03%) compared to 6dad515

[Details](#)

## This branch has no conflicts with the base branch

Merging can be performed automatically.

[Merge pull request](#)

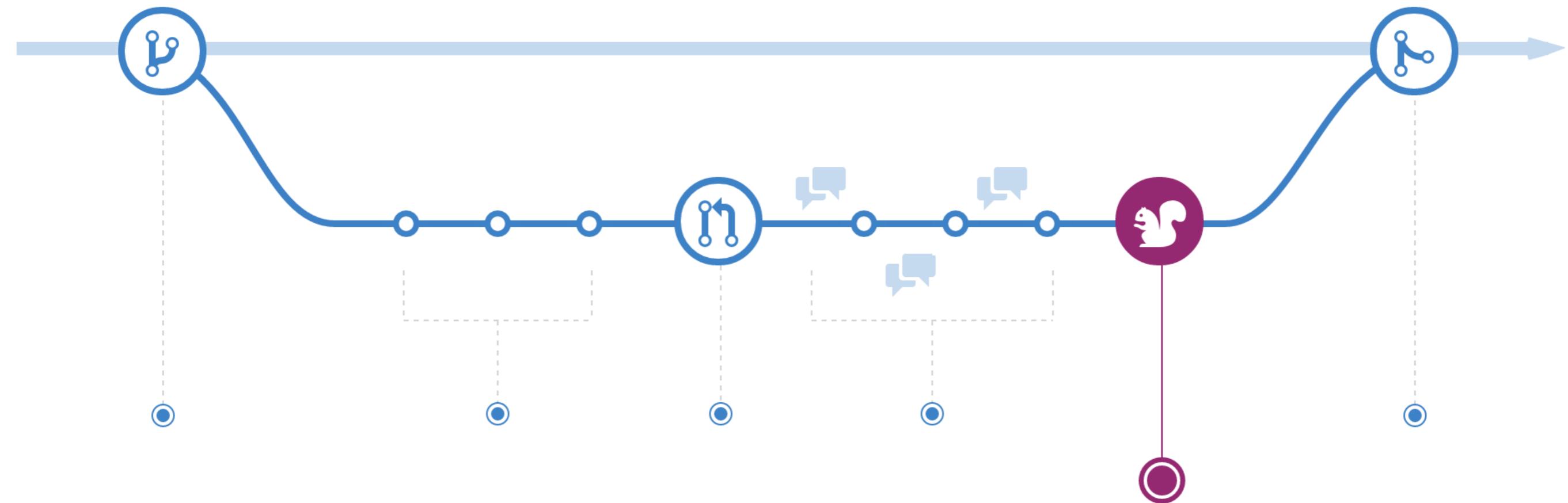
You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



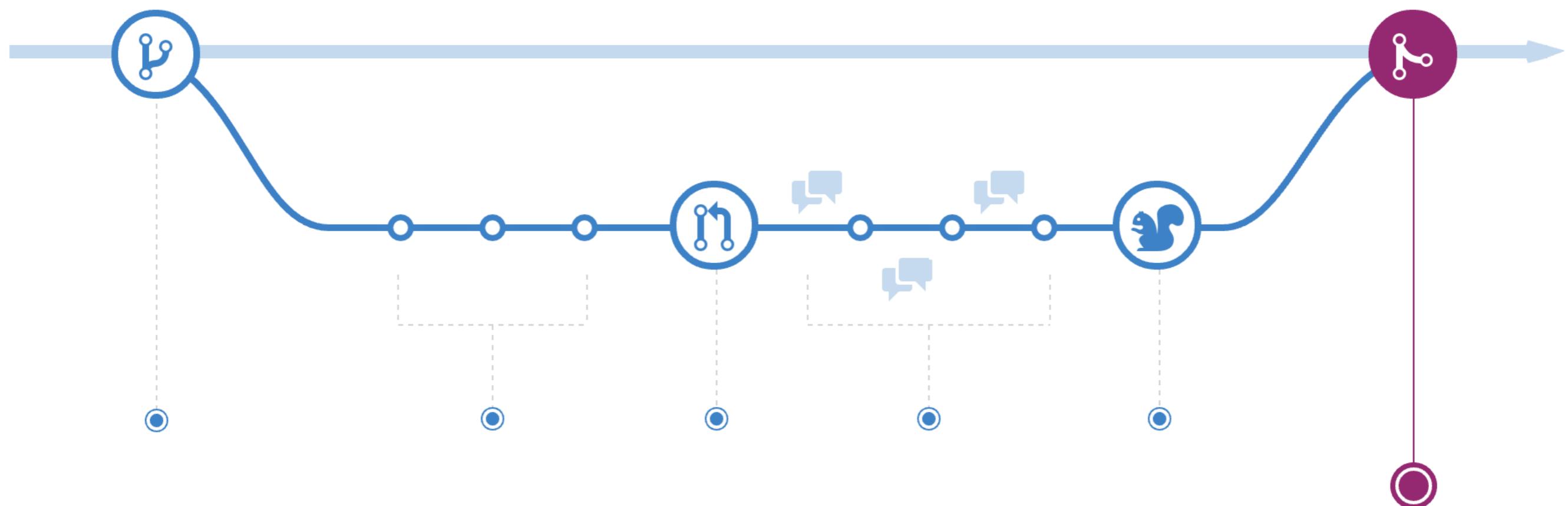
@a\_soldatenko



# Deploy



# Merge



# Codecov Report

Merging #5337 into staging will decrease coverage by -0.01%.

The diff coverage is 100%.

@@	Coverage	Diff	@@
##	staging	#5337	+/- ##
=====			
- Coverage	94.67%	94.67%	-0.01%
=====			
Files	341	341	
Lines	36124	36101	-23
Branches	3928	3926	-2
=====			
- Hits	34202	34179	-23
Misses	1626	1626	
Partials	296	296	

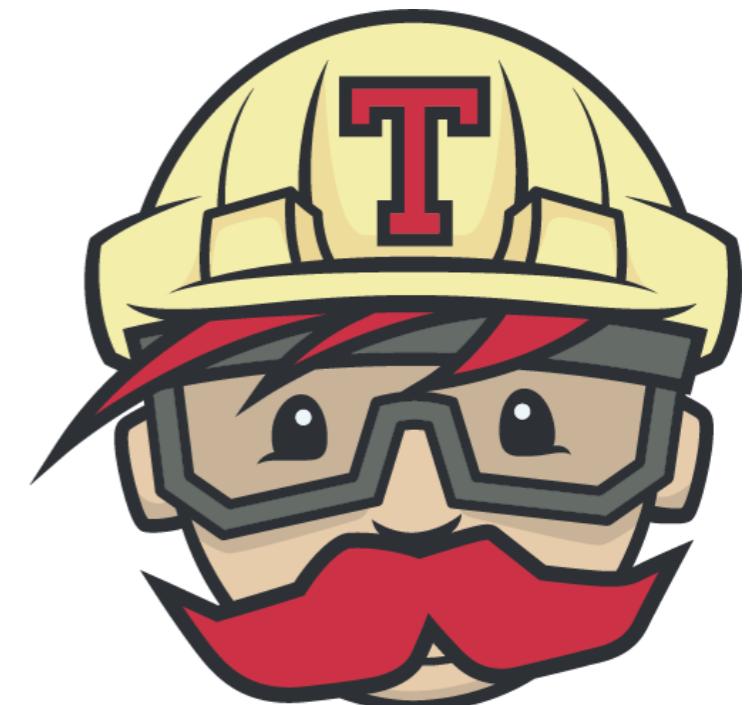
# Codecov Report

Merging #1662 into master will decrease coverage by **-0.01%**.  
The diff coverage is **100%**.

	Coverage	Diff	
##	master	#1662	+/- ##
=====			
- Coverage	96.86%	96.86%	<b>-0.01%</b>
=====			
Files	34	34	
Lines	7302	7301	-1
Branches	1265	1265	
=====			
- Hits	7073	7072	-1
Misses	137	137	
Partials	92	92	

Impacted Files	Coverage Δ	
aiohttp/web_urldispatcher.py	99.41% <100%> (-0.01%)	<span style="color: red;">X</span>

# Release each PR with CI



# Jenkins

**Do practical testing after  
code review**

# .github/PULL\_REQUEST\_TEMPLATE.md

DEV-XXXX

---

## Story

---

As a user I want to see feature A on page B

## Overview

---

Example: When you add a pull request template to your repository, project contributors will automatically see the template's contents in the pull request form body. Templates customize and standardize the information you'd like included when contributors create pull requests.

## Acceptance Criteria

---

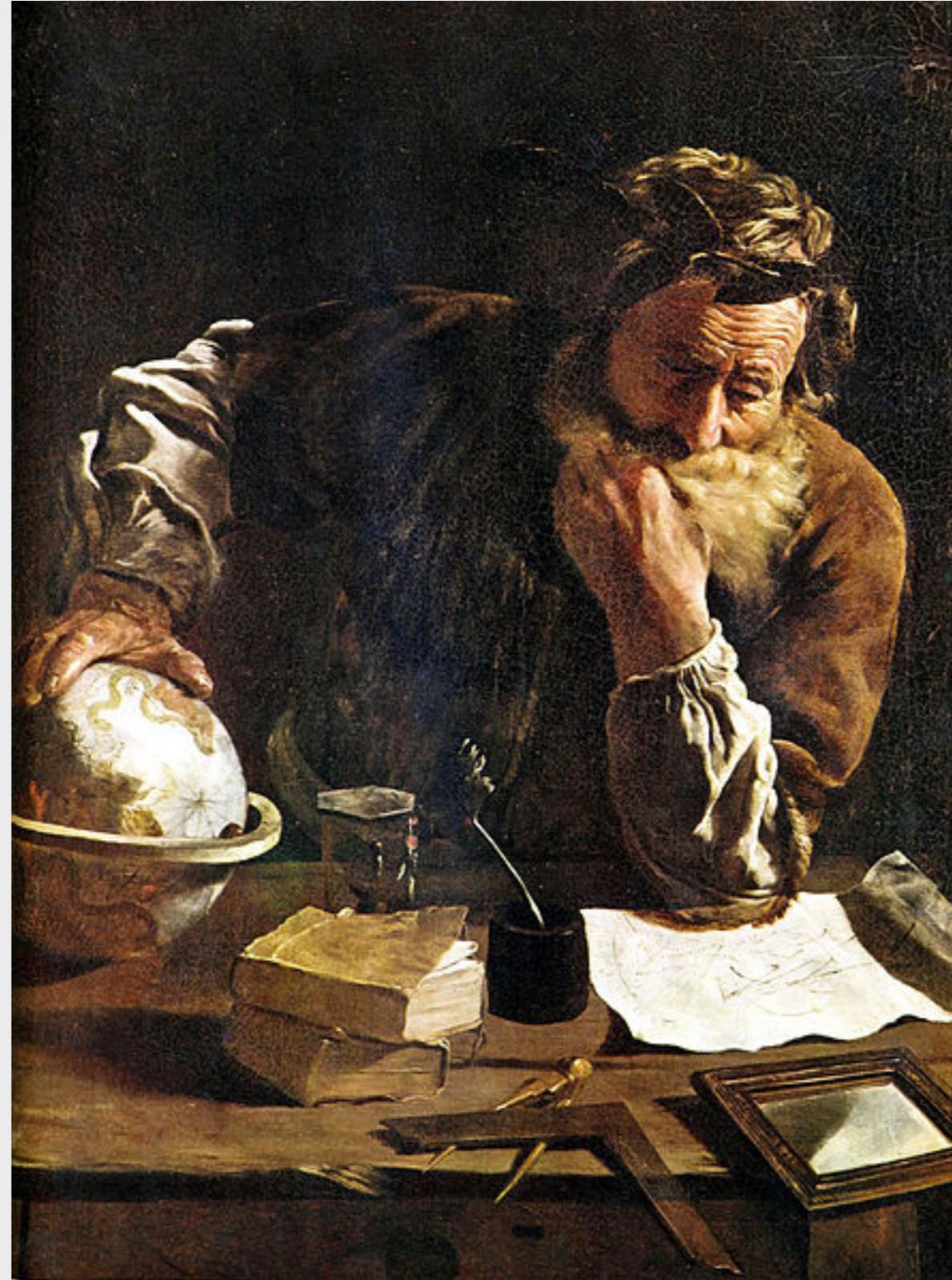
- Make sure that item one is exists on page A
- Make sure that item two is exists on page B
- Make sure that item one is exists on page C

- Make sure that item one is exists on page C
- Make sure that item two is exists on page B
- Make sure that item one is exists on page A

# git standup

```
→(master) ✘ git standup 'Andrii Soldatenko' "last  
Mon" today  
52abd4b - CTS-126 Added selenium tests for feature X  
( 10 seconds ago) <Andrii Soldatenko>  
eb4e4ae - CTS-124 Finish selenium camp demos ( 31  
seconds ago) <Andrii Soldatenko>  
29c1be8 - XXX-123 Finish selenium camp slides ( 4  
minutes ago) <Andrii Soldatenko>
```

# Git book



# Git Hooks



git



A photograph of a dense rainforest. The forest covers a steep hillside, with trees of various heights and shades of green. In the foreground, there is a body of water, possibly a river or a lake, with some rocks visible at the shore. The overall scene is lush and green.

# Rainforest QA

# Final Thoughts

- learn new tools;
- improve your DEV/QA flows
- be passion in what you do



**What's next?**

We are hiring



<https://www.toptal.com/#connect-fantastic-computer-engineers>

# Questions



# Thank You

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**@a\_soldatenko**

**https://asoldatenko.com**

