How GitHub uses GitHub to build GitHub

Ted Behling
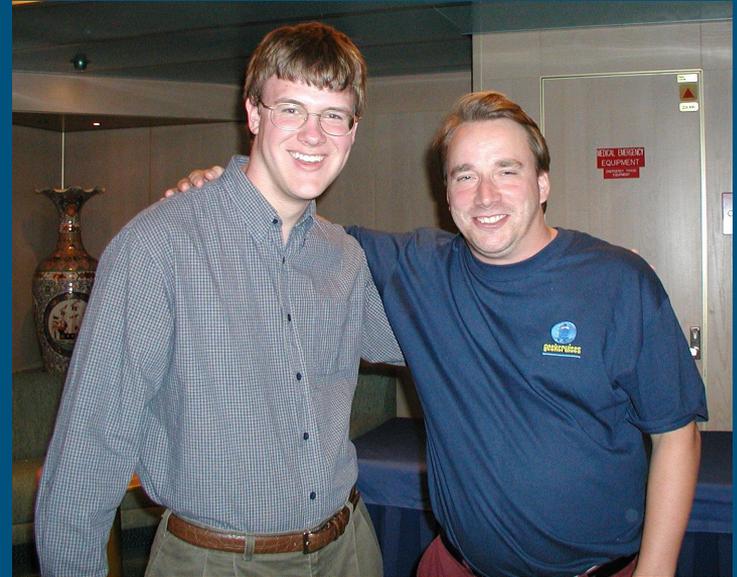Systems Engineer
GitHub

Hello!

What's GitHub?

- Source code hosting
- Collaboration
- Software project management
- Tooling & APIs

- 76+ million projects hosted
- 27 million users (more than population of Texas)
- 749 employees worldwide
- Started in 2007

So, Git?

- Version control system
- Open source
- Decentralized or centralized
- Originally invented for Linux kernel
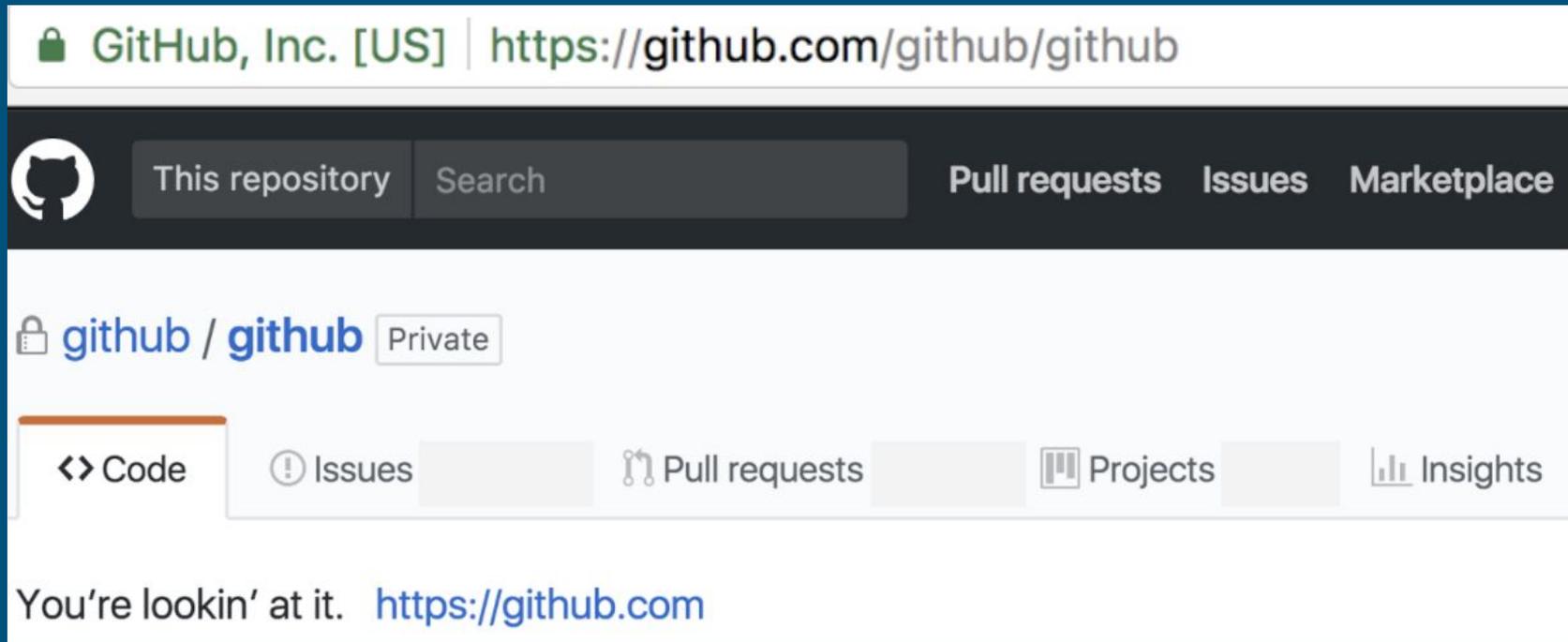
How Does GitHub **Communicate**?

What's the Development **Process**?

How is the process **Automated**?

Communication

What's in a URL?

🔒 GitHub, Inc. [US] | https://**github.com**/github/github

○ | This repository | Search | **Pull requests**   **Issues**   **Marketplace**

🔒 github / **github** Private

<> Code   ⓘ Issues   ⅂⅂ Pull requests   ▥ Projects   ⊪ Insights

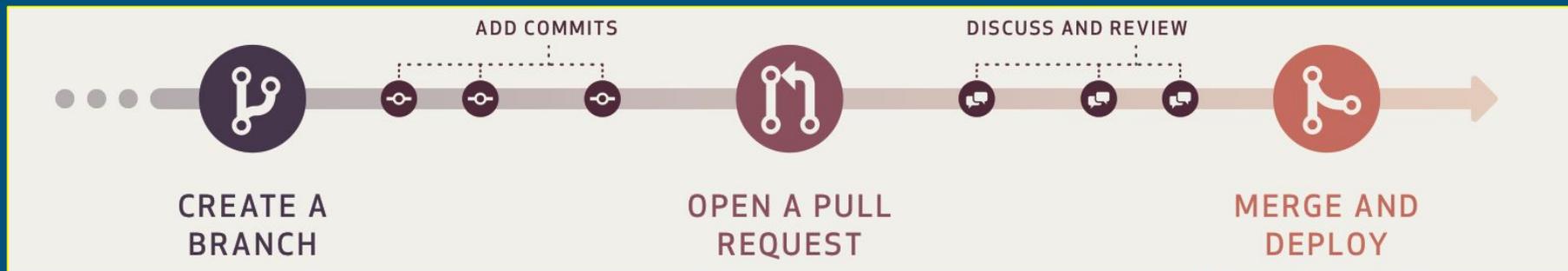You're lookin' at it.   https://github.com

Our tools support our process

- Center of work: Pull Requests
    - Asynchronous messaging
    - Rich text (Markdown)
    - Tied to code
    - Docs are also in the repo
- A "Radar" issue opens weekly to capture comments on statuses/updates
- Chat rooms (group + 1:1)
    - Open to the whole company
- Video conferencing
    - 1:1s, pairing
    - Weekly team meeting -- NOT for status

Development process

GitHub Flow

ADD COMMITS

DISCUSS AND REVIEW

CREATE A
BRANCH

OPEN A PULL
REQUEST

MERGE AND
DEPLOY

https://guides.github.com/introduction/flow/

Process automation

ChatOps with Hubot

- Hubot runs in most chat rooms and responds to commands using scripts
- Replies are visible in the chat room to the whole team
- `.ci build github/tbehling/new-button`
- `.deploy github/tbehling/new-button to staging`
- `.sparkle rubiojr for being a solid manager`

Deploying with ChatOps

Questions

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