

Hello, Octokitty!

An Introduction to GitHub

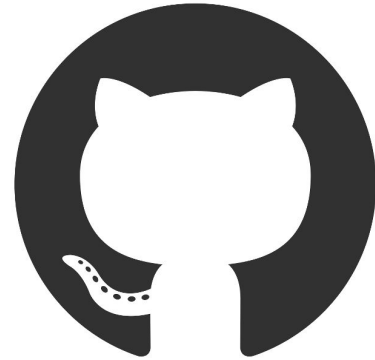
Talking Tech session #4
4/19/2017

Ethan Gates, NYU-MIAP and
Dinah Handel, NYPL



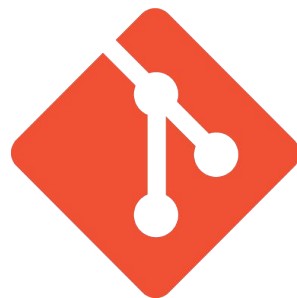
What is GitHub?

- Software development platform
- Hosting for code/applications
- “Social network”
- Both personal and enterprise service
- Web-based, graphical interface for git



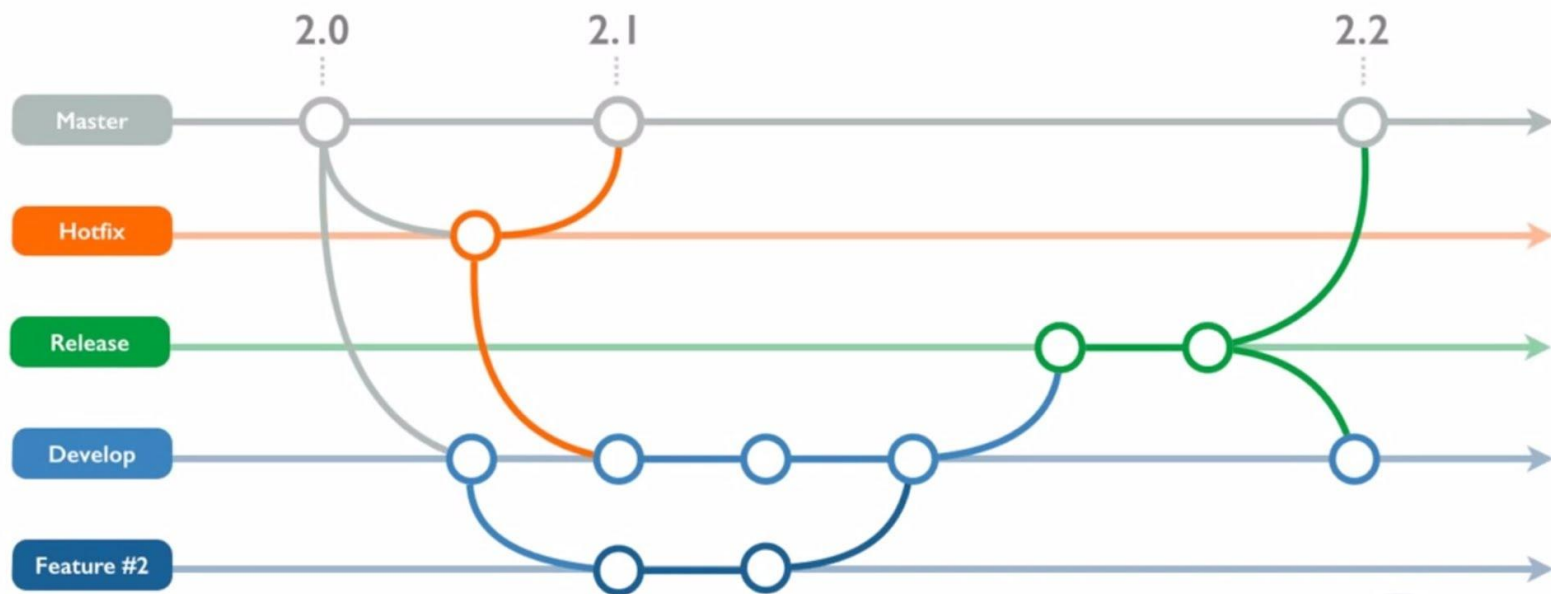
Git and Version Control

- Command-line software developed by Linus Torvalds in 2005 for development of the Linux kernel
- Tracks and saves all changes to a given directory
- Snapshot-based
- Can be used locally or over a network
- Supports non-linear development



git

Release Branches



Repositories

- “Repo”
- The directory that contains your project
- Can be hosted locally or remotely



Trending in open source

See what the GitHub community is most excited about today.

Repositories Developers Trending: today ▾


All languages

- Unknown languages
- C++
- HTML
- Java
- JavaScript
- PHP
- Python
- Ruby

Other: Languages ▾


gurugio / lowlevelprogramming-university ★ Star

How to be low-level programmer

★ 2,263 🍴 104 Built by  ★ 1,767 stars today


freeCodeCamp / freeCodeCamp ★ Star

The <https://freeCodeCamp.com> open source codebase and curriculum. Learn to code and help nonprofits.

JavaScript ★ 257,527 🍴 10,916 Built by  ★ 602 stars today


prettier / prettier ★ Star

Prettier is an opinionated JavaScript formatter.

JavaScript ★ 7,550 🍴 245 Built by  ★ 561 stars today

tootsuite / mastodon ★ Star

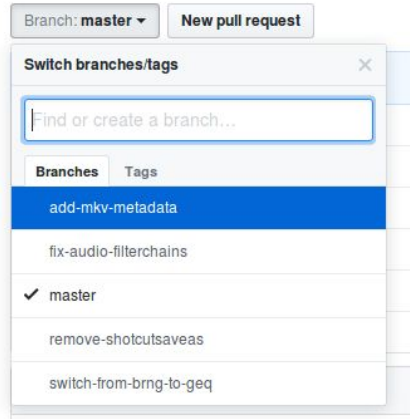
A GNU Social-compatible microblogging server

Ruby ★ 6,309 🍴 897 Built by  ★ 499 stars today

ProTip! Looking for most starred repositories? [Try this search](#)

Branches

- Individual versions of the repository
- “Master” branch: front-facing, most stable (the copy of a project or app others will download/use/edit)
- All editing or changes to codebase occur in branches



Commit

- Updating the codebase with the changes you've made, either to the master branch or via a pull request from another branch or a forked repository



Commit changes

added example sentence

Add an optional extended description...

Commit directly to the `master` branch.

Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes

Cancel

Forking

- A copy of a repository
- When you “fork” a repo, you are able to make changes to the code without it affecting the codebase
- Forks are useful for proposing changes to someone else’s code, or build your own project using someone else’s code as the starting point.



The screenshot shows a GitHub repository interface. At the top, it displays the repository name 'dinahhandel / cable-bible' in blue, with a fork icon to the left. Below the name, it says 'forked from amiaopensource/cable-bible'. At the bottom, there are three interactive buttons: 'Unwatch' with a dropdown arrow and the number '1', 'Star' with a star icon and the number '0', and 'Fork' with a fork icon and the number '8'.

Pull Request

- Form of communication and notification on GitHub when working in branches or forks
- Tells others about changes you've made to the code
- Method of integrating changes to the code
- You create the pull request and someone else merges your pull request into the code, assuming there are no conflicts
- Mostly useful when editing code using the GitHub Desktop application

Markdown

- A plain text formatting syntax
- A software tool that converts plain text formatting to HTML
- Used on GitHub to structure text-based files- documentation, README's, are some examples
- Relatively straightforward and simple once you remember the important symbols and rules

Internal and External Documentation

https://github.com/yorkulibraries/preservation_documentation

<https://github.com/mediamicroservices/mm>

<https://github.com/CarnegieHall>

Test Repos

<https://github.com/dinahhandel/NYUclasspractice>

<https://github.com/MIAPtech/talking-tech-test>

Resources

- [GitHub Guides](#)
- [Open Source Guides](#)
- [git - the simple guide](#)
- [“Non-technical person’s guide to becoming an open source contributor via Github”, Ashley Blewer](#)
- [“Learning GitHub \(or, if I can do it, you can too!\)”, Andrew Weaver](#)
- [Markdown Syntax](#)
- [Jekyll](#)