

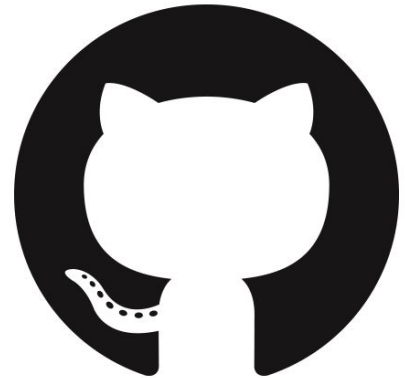


Neuro Data Science 2019: Using GitHub for Project Collaboration



What is Github?

- **Git** is a language used for version control
- **Github** offers a platform to store and share code online
 - Used for collaborating on projects

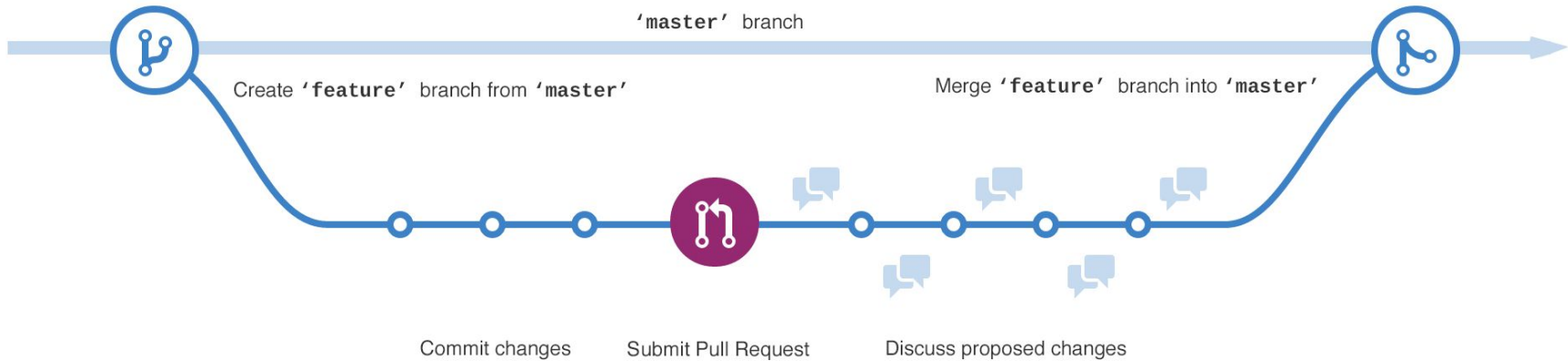




How do we collaborate on Github?

1. Create a repository or fork an existing repo
2. Create a branch.
3. Make and commit changes.
4. Open a Pull Request (PR).
5. Merge a PR.

Overview of making and incorporating changes





Step 1: Create a GitHub repository

- A repository holds a single project.
- Repositories can contain
 - Folders
 - Text files
 - README documentation files
 - Datasets *
 - Scripts
 - Jupyter notebooks

* We'll get back to this, but for now, neuroimaging datasets are too big to store on Github easily

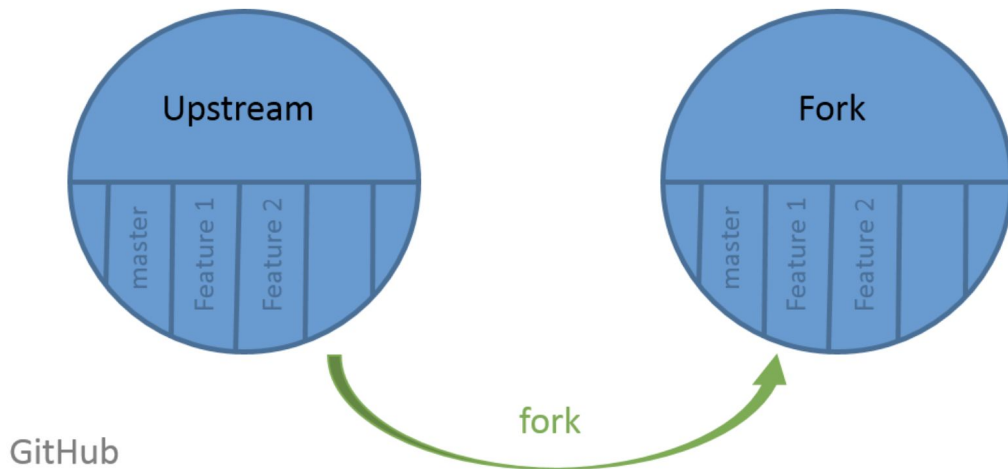
Step 2: Branches

- **Good practice:** a new branch per feature
- **Branching** is a way to work on different *versions* of a project at one time.
- By default, your repository has one **branch** named “master”.
- When you create a **branch** of the “master” branch, you’re making a copy of the “master” branch as it exists at that point in time

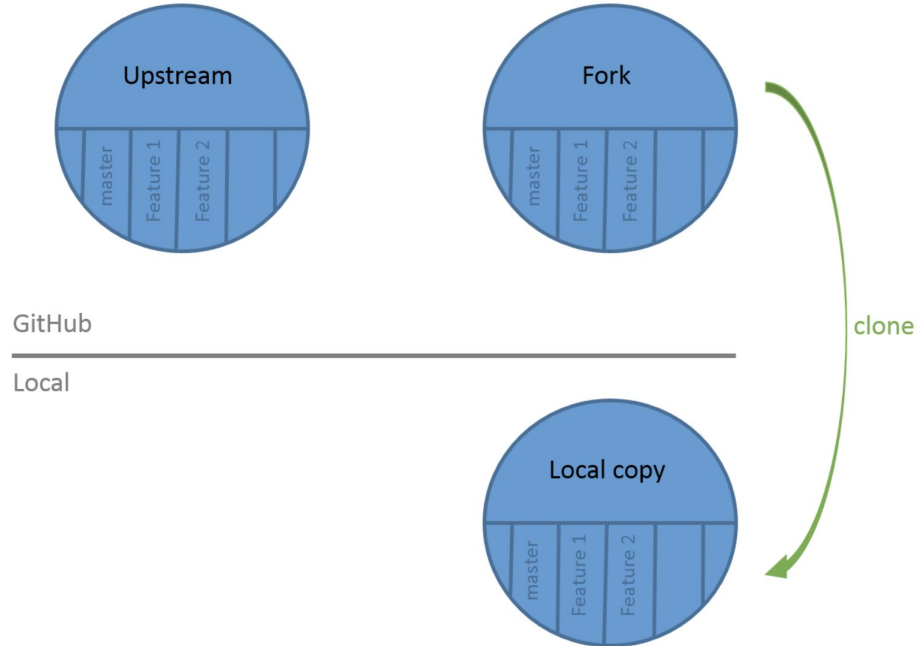


Open-source development process

- Contributing to an existing project requires forking the repo
 - Your Github account will have a copy of the repo associated with it



Clone the GitHub repo to your computer





GitHub Etiquette

- Keep commits atomic
- One PR per feature → a descriptive message about the feature
- Keep commit messages under 50 characters
 - Short commits are more readable
- Don't include curse words in your commit messages
- Generally - just be polite throughout the review process