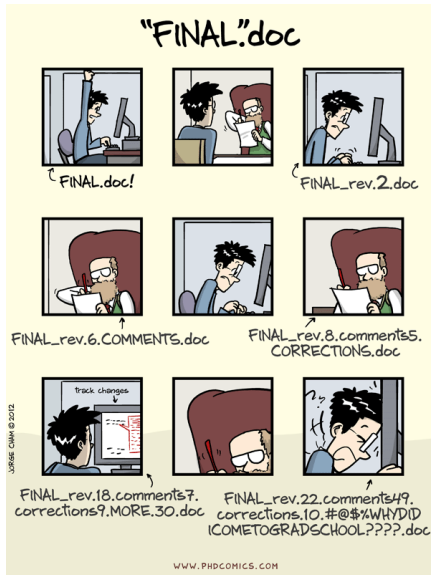


A quick intro to Git and Github

Herbert Lange

Computational Syntax VP 2020

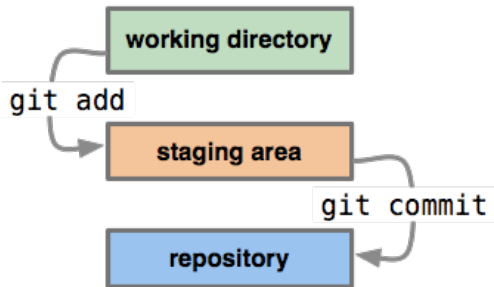
Motivation



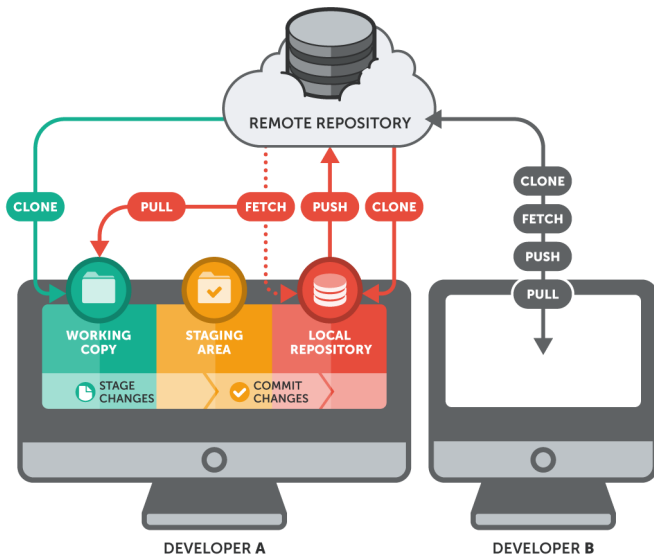
Solution



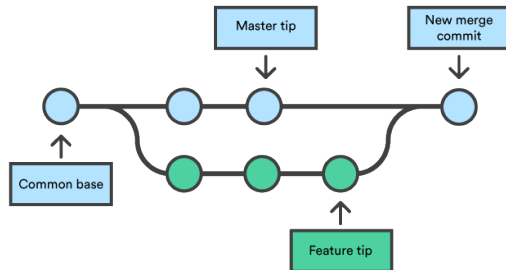
Important Concepts



Important Concepts ctd.



Important Concepts ctd.



Important Commands

`git init` Creates a new local repository

`git status` Shows the current state of the working directory

`git add` Adds changes to the staging area

`git rm/mv` Removes/renames a file

`git commit` Transfers changes from the staging area into the repository

`git log` Shows the history

`git help` Shows some help text for a git command

Important Commands ctd.

`git clone` Copies a remote repository to a local one

`git pull` Gets the latest changes from remote

`git push` Pushes the latest local changes to a remote

`git remote` Manages remote repositories

Important Commands ctd.

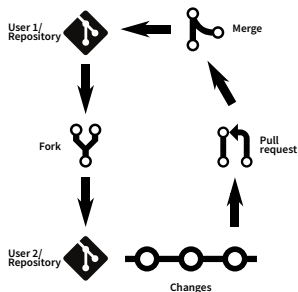
`git checkout` Changes/creates branches

`git merge` Merges changes from a branch

Github

fork Adds a copy of a repository to your account

pull request Asks the owner of a forked repository to accept changes from your fork



Further Resources

- ▶ <https://git-scm.com/book/en/v2>
- ▶ <https://www.atlassian.com/git/tutorials/learn-git-with-bitbucket-cloud>
- ▶ <https://help.github.com/>

Task 1

- ▶ Create a new local repository
- ▶ Create a file in it and commit it
- ▶ Change the file and commit the change
- ▶ Look at the history

Task 2

- ▶ Fork <https://github.com/daherb/GitTutorial> on Github
- ▶ Clone the repository (your fork, not mine)
- ▶ Add a file with your name and commit it
- ▶ Push the changes to your fork
- ▶ Send me a pull request

Task 3

- ▶ Fork
`https://github.com/GrammaticalFramework/comp-syntax-gu`
on Github (if you have not done so before)
- ▶ Clone the repository (your fork)
- ▶ Add a test file for lab 1
- ▶ Push the changes to your fork
- ▶ Later: Send a pull request
- ▶ Later: Wait for the request to be merged and pull the new changes into your own fork