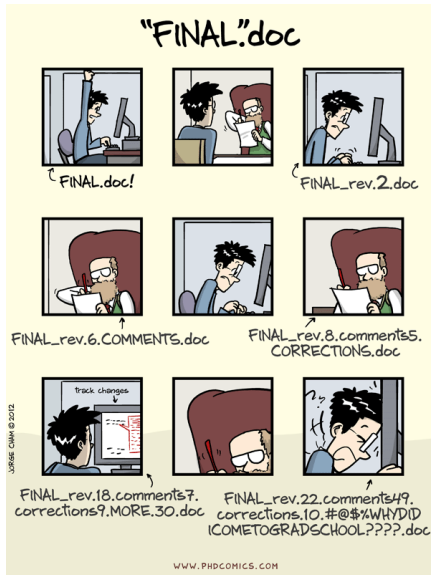


# A quick intro to Git and Github

Herbert Lange

Computational Syntax VP 2020

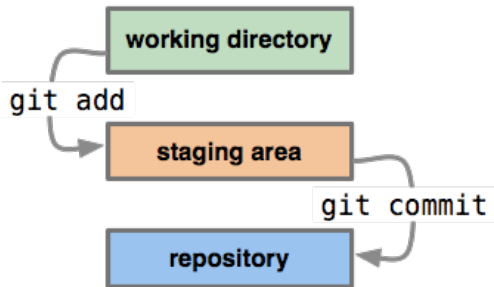
# Motivation



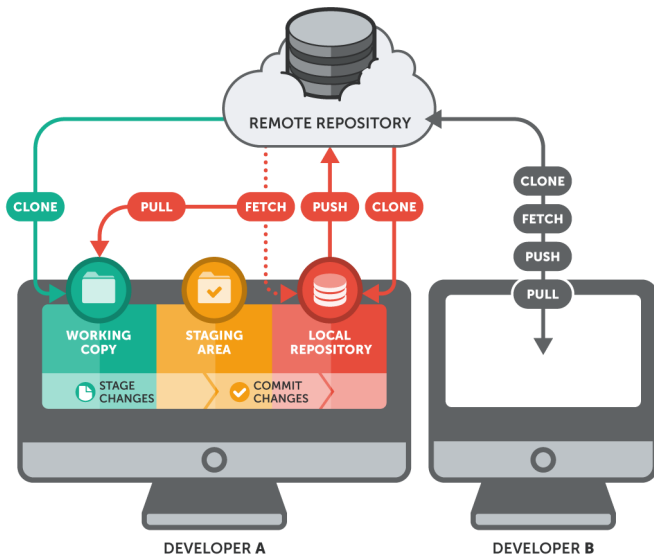
# Solution



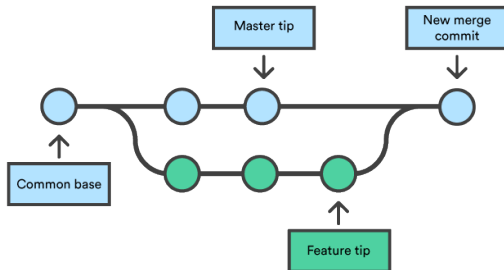
# Important Concepts



# 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.

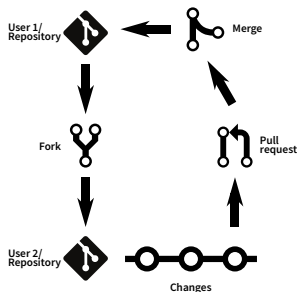
`git checkout` Changes/creates branches

`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
- ▶ Wait for the request to be merged and pull the new changes into your own fork

## Optional: Task 3

- ▶ Fork  
`https://github.com/GrammaticalFramework/comp-syntax-202`  
on Github (if you have not done so before)
- ▶ Clone the repository (your fork)
- ▶ Add a test file for lab 2
- ▶ Push the changes to your fork
- ▶ Send a pull request
- ▶ Wait for the request to be merged and pull the new changes into your own fork