A quick intro to Git and Github

Herbert Lange

Computational Syntax VP 2018

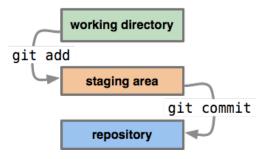
Motivation



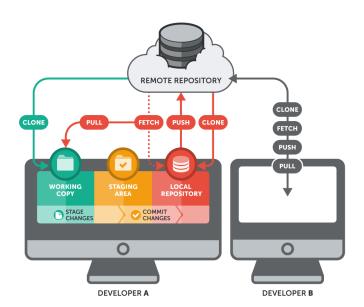
Solution

THIS IS GIT. IT TRACKS COLLABORATIVE WORK ON PROJECTS THROUGH A BEAUTIFUL DISTRIBUTED GRAPH THEORY TREE MODEL. COOL. HOU DO WE USE IT? NO IDEA. JUST MEMORIZE THESE SHELL COMMANDS AND TYPE THEM TO SYNC UP. IF YOU GET ERRORS, SAVE YOUR WORK ELSEWHERE, DELETE THE PROJECT, AND DOUNLOAD A FRESH COPY.

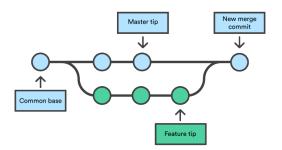
Important Concepts



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.

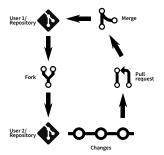
git clone Copies a remote repository to a local one git pull Gets the latest changes from remote git push Pushes the latest local changes to a remote git remote Manages remote repositories

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/