



Version Control

Definitions

Version Control

 A system responsible for managing changes to computer program, documents, web sites or other collections of information.

• Git

• A popular distributed version control system. Created by Linus Torvalds

GitHub

 A hosting provider for git. Also provides additional features such as access control, bug/issue tracking, pull request, feature request, task management, wiki and more...

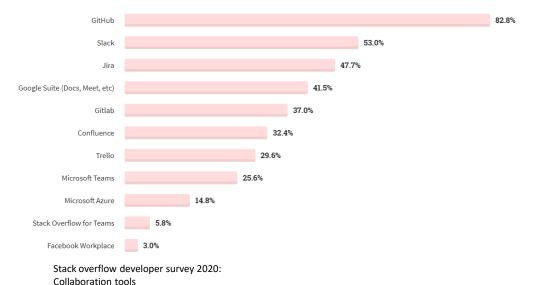
Why use version control?

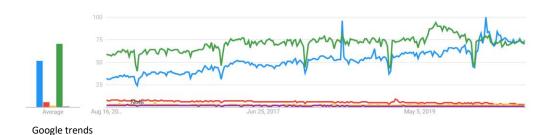
- Collaboration
 - Working on conflicting changes in parallel
- History
- Backup



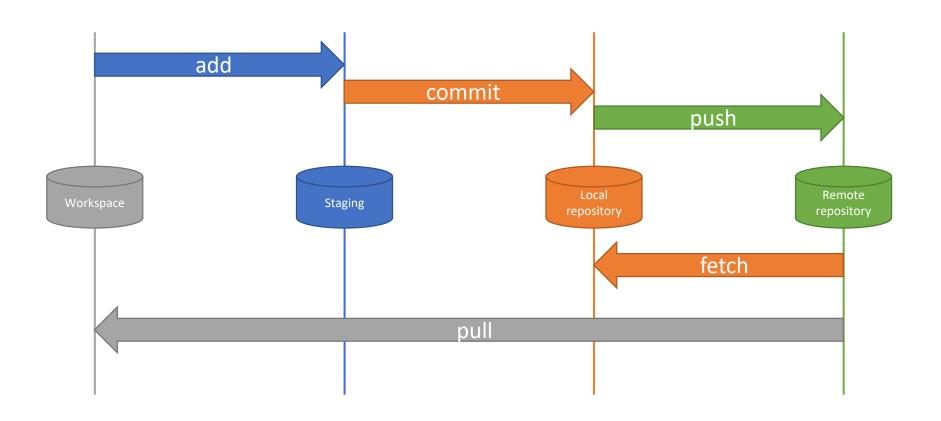
Why Git and GitHub?

- De facto tools
- Most popular collaboration tools according to 60000 stack overflow users





Overview



Getting started (manually)

- Create a repo
- Clone the repo git clone https://github.com/<user>/<repo>.git
- Create a initial commit git commit –m <message>
- Push to server git push
- Create some branches git branch <name> | git checkout <name> | git push origin –u <name>
- Merge some branches git merge <name>

Merge conflict

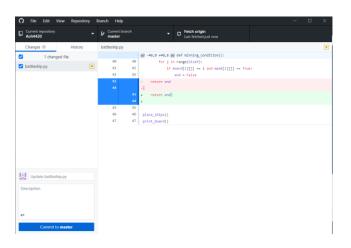
• How to resolve?

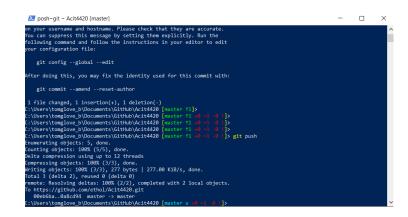
Different tools

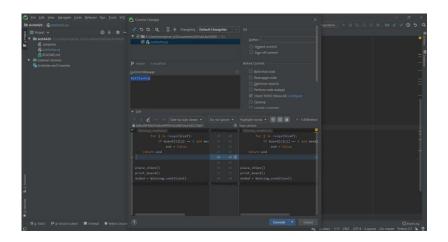
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** Administrator Command Frompt

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stage: git [--version] [--help] [-C <path>] [-C <path>] [-C <path>] [-- <path] [-- <path>] [-- <path] [-- <
```







Flashback to earlier

- Public/Private
- README.md
- .gitignore
- Licence?
- Head
- Origin

Some extra concepts in git

- Stash
- Blame
- Rebase
- Revert
- Force
- Hooks

Some extra concepts around git

- Pull request
- Code review
- Feature branching
- Continues integration
- Continues delivery / Continuous deployment
- Tests