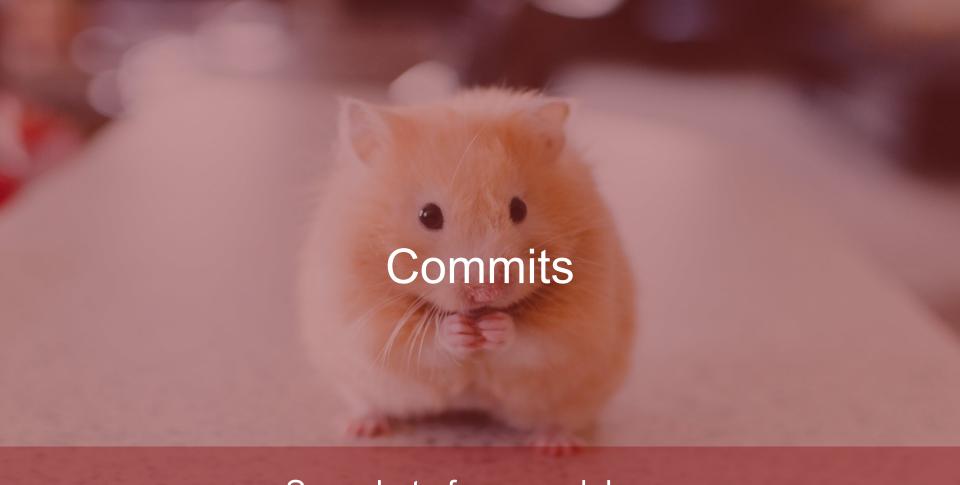


A solution to collaboration and codebase management a presentation by Cole Lawrence



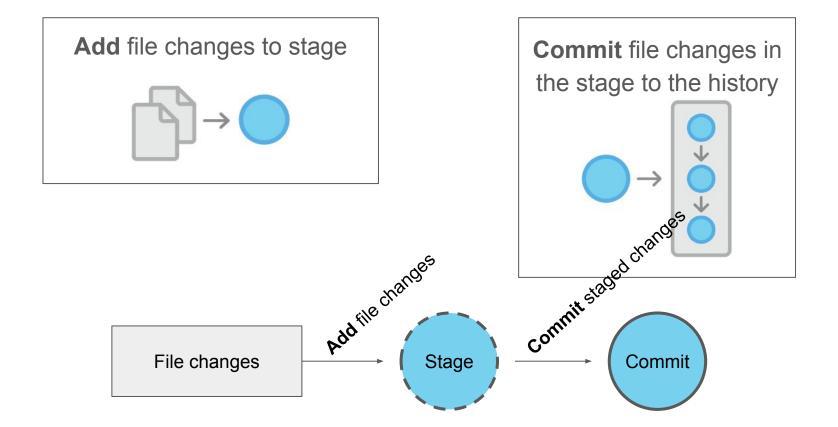
Git Repository

The **working copy** of code along with the **complete history** of the code base.

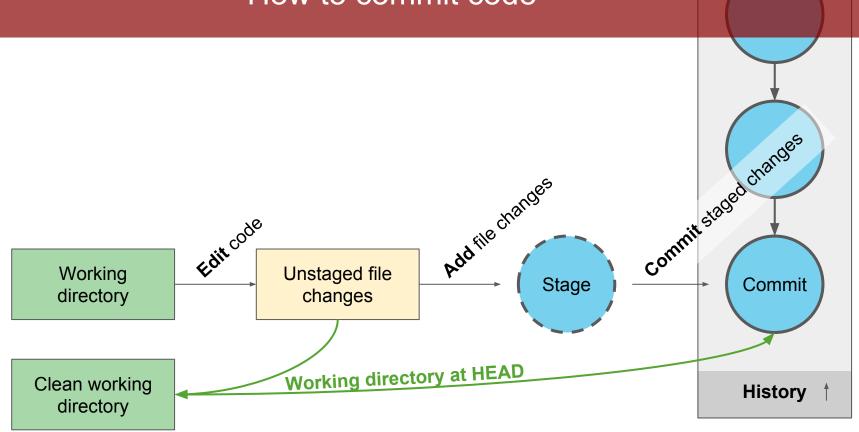


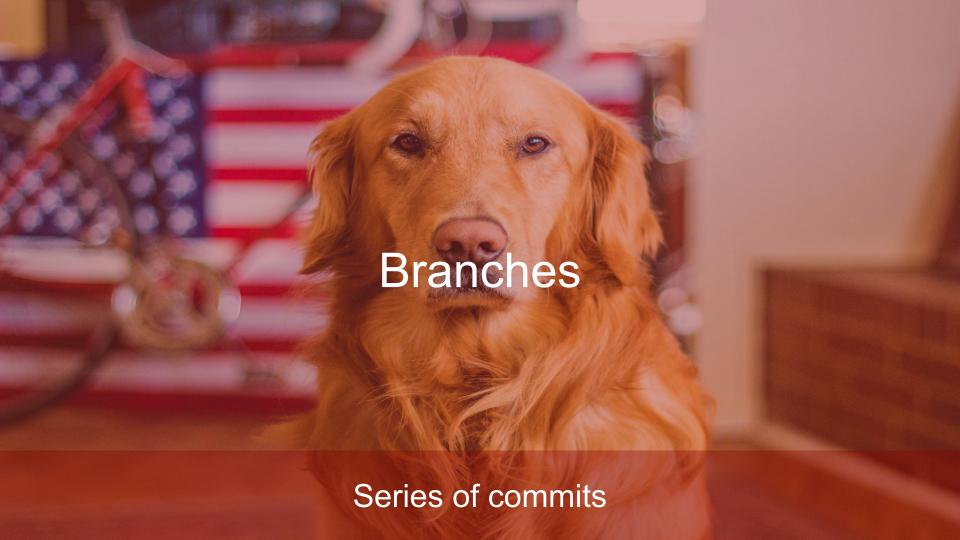
Snapshot of your codebase

How to commit code

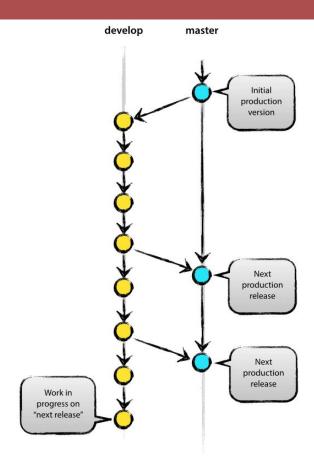


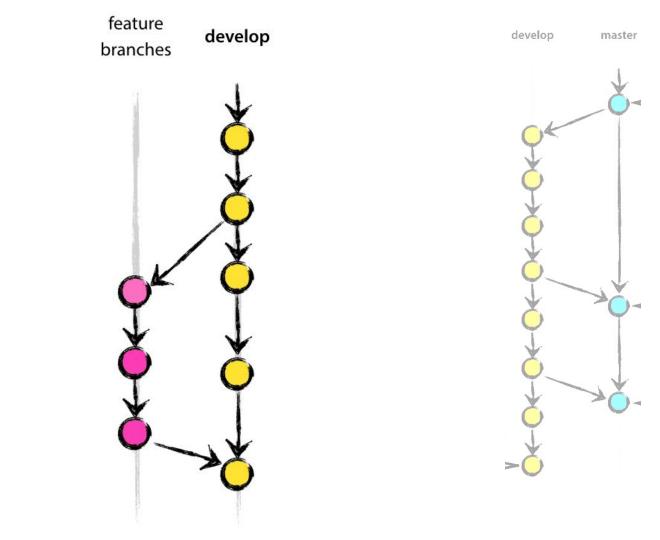
How to commit code

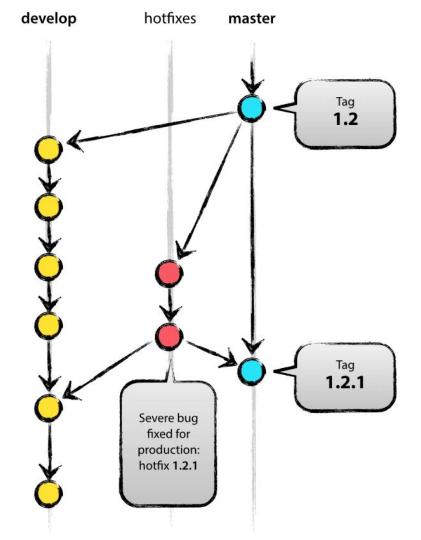


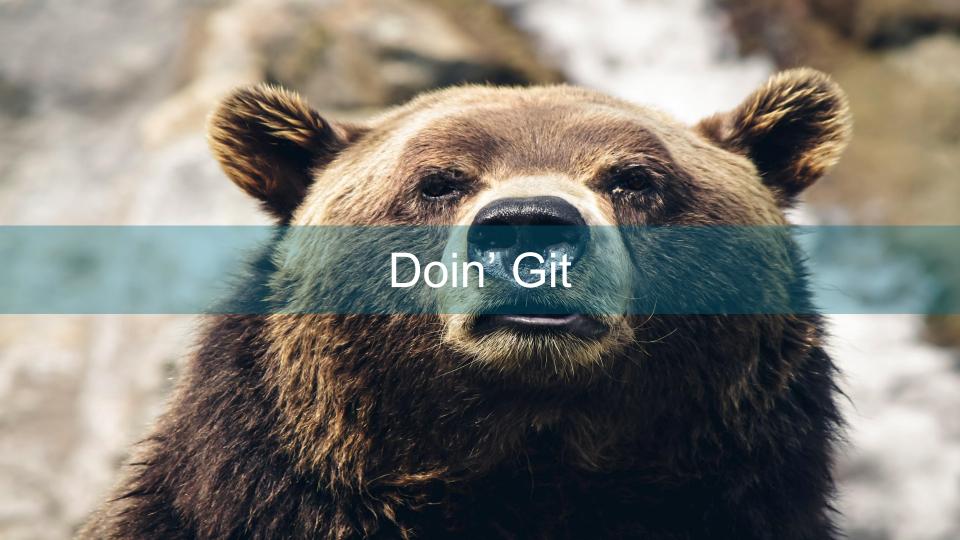


Branches



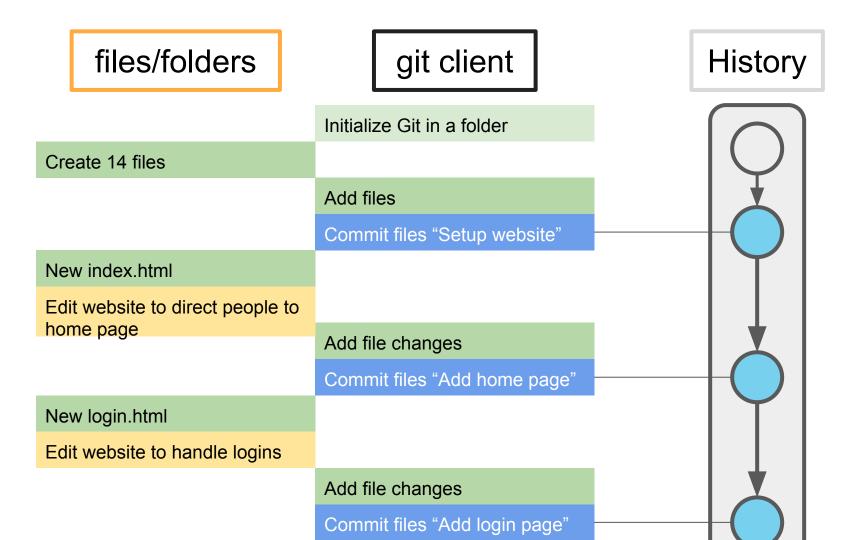






Commits





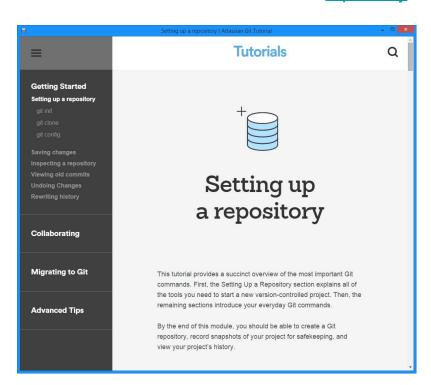


Atlassian Git Tutorials

https://www.atlassian.com/pt/git/tutorial/git-basics

https://www.atlassian.com/git/tutorials/setting-up-a-repository





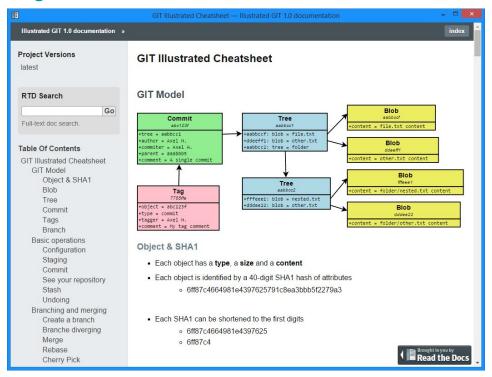
GitHub Git Tutorials

Guided git commits in the browser - https://try.github.io/levels/1/challenges/1



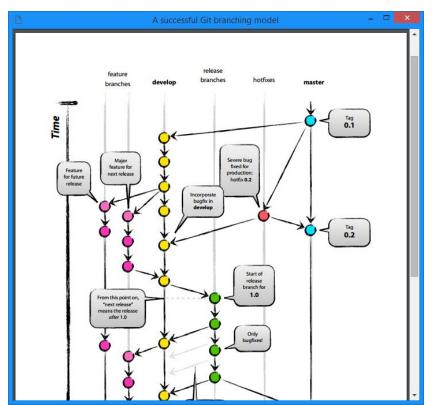
Git Illustrated

Less information than the git-help pages, and illustrated - https://illustrated-git.readthedocs.org/en/latest/



Git Branching Model

Git branching best-practices - http://nvie.com/files/Git-branching-model.pdf



Sources

Background images

- "Dog with ball" Andrew Pons, February 23, 2015, via unsplash.com
- "Hamster" Ricky Kharawala, February 27, 2015, via unsplash.com
- "Dog" Caleb Fisher, January 29, 2015, via unsplash.com
- "Bear" Thomas Lefebvre, August 18, 2014, via unsplash.com
- "Sheep" Ariana Prestes, January 27, 2015, via unsplash.com

Branches images

"A successful Git branching model" http://nvie.com/posts/a-successful-git-branching-model/

How to commit code miscellaneous images

"Git Basics - Atlassian" https://www.atlassian.com/pt/git/tutorial/git-basics

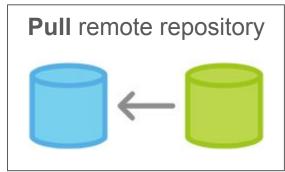


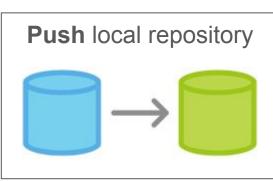


Why we are using git.

Merge file changes.

Team of developers may work on the same codebase, then merge their changes to the same files.

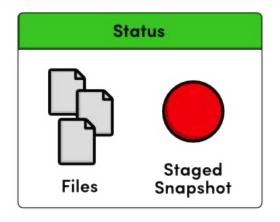


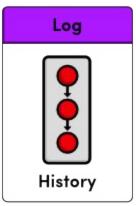


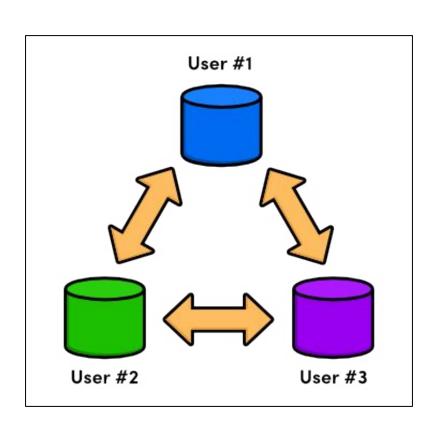
Resources

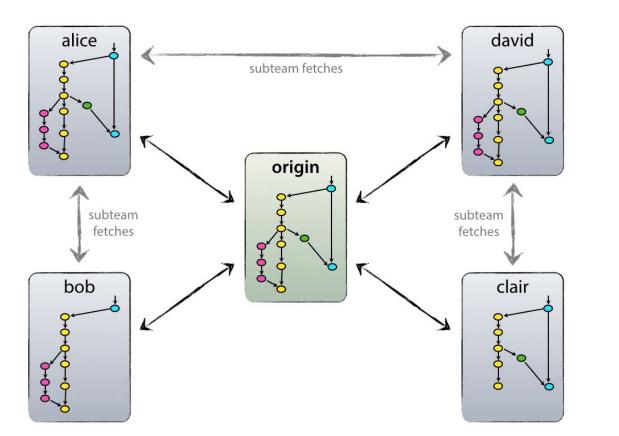
- Learn
 - <u>Documentation and getting started resources</u>
 - Try Git in browser
- Cool repositories
 - google/deepdream IPython Notebook combining images by movement, a study of neural networks, <u>blog post</u>
 - golang/go A new compiled language developed for productivity and asynchronous programming
 - codemirror/CodeMirror An in-browser code editor
 - <u>/explore</u> Explore up and coming developing software trending on Github

Status output vs. Log output

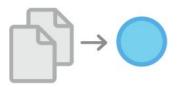




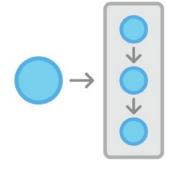


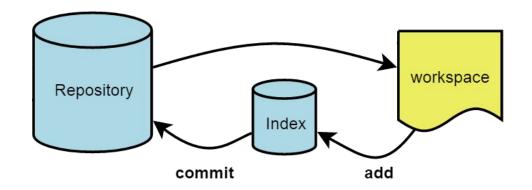


Add file changes to stage

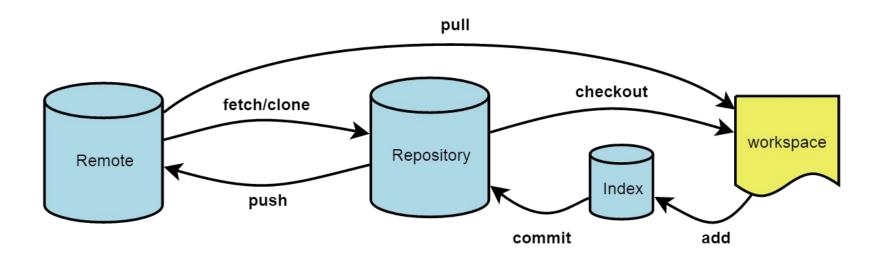


Commit file changes





Syncing your database



Commands

git init

Create a Git repository in the current folder

View the status of each file in a repository

git add <file>

Stage a file for the next commit

Git commit

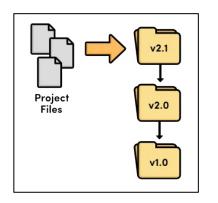
Commit the staged files with a descriptive message

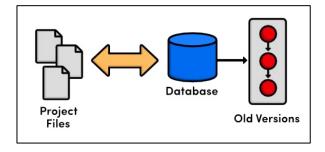
View a repository's commit history.

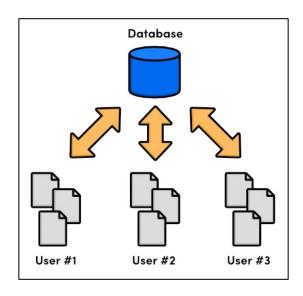
Version Control System

VCS

How have we solved version control?

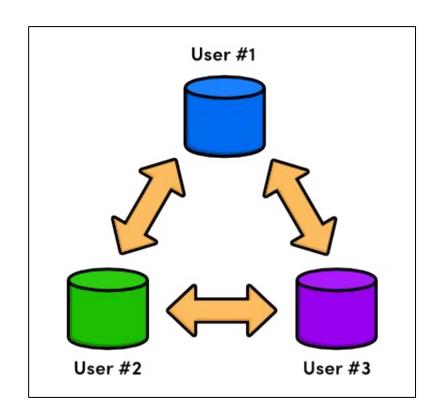






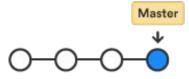
Today

- Local database of history
- Everyone can sync DBs easily
- Easy codebase management



Branching

History



Branches

