



GIT Summary

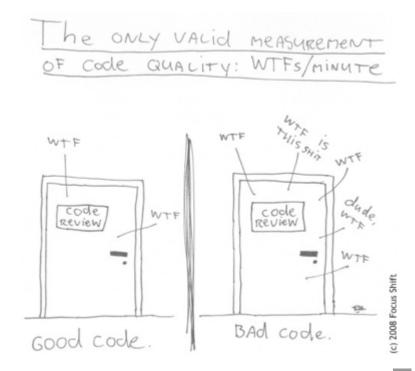
Part 1: From blank page to deployed website

Tools and git

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New problems

- Editing code and making backups
- Commenting out code
- -> Need for a version control system

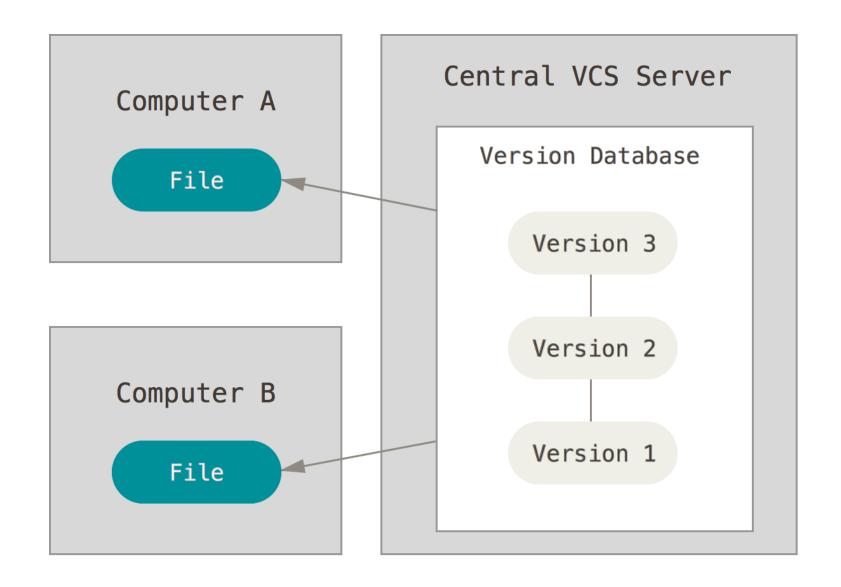


Git

Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Download on git-scm.com

Centralized VCS



Distributed VCS like Git

Distributed VCS Advantages

- FAST
- OFFLINE (fix/commit multiple operations)
- Geography
- Flexible Workflows
- Easier Merging
- Implicit Backup
- Scale out, not just up

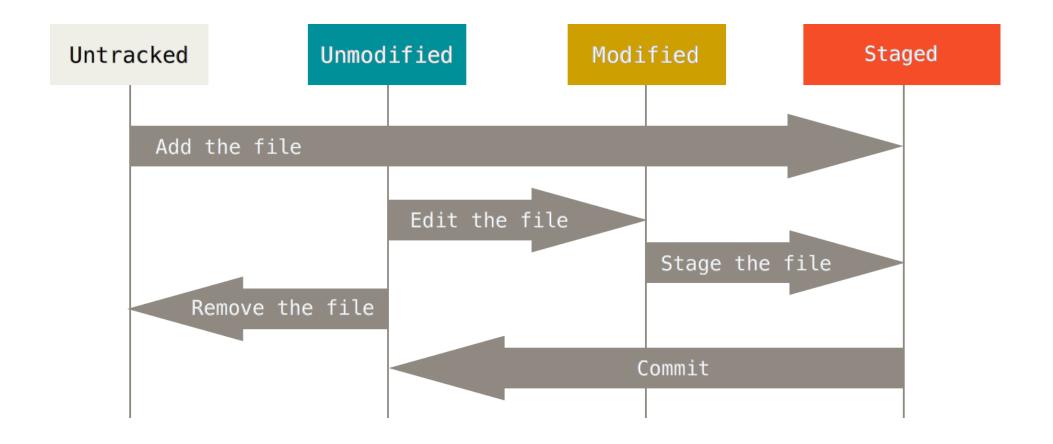
Disadvantages: no Locks, Disk space

http://ericsink.com/vcbe/html/dvcs_advantages.html

Git basics

- git init create a new local git repository
- git add . add all modified and new files to stage
- git commit -m 'msg' commit staged files with msg
- git push send commits to remote server
- git pull download remote commits
- git clone copy a remote repository
- .gitignore ignore files or folders

Git lifecycle



http://git-scm.com/book/en/v2/Git-Basics-Recording-Changes-to-the-Repository

Ressources

- http://git-scm.com/book/en/v2/Getting-Started-About-Version-Control
- http://rogerdudler.github.io/git-guide/
- http://onlywei.github.io/explain-git-with-d3/#freeplay
- http://pcottle.github.io/learnGitBranching/
- http://git-scm.com/book/en/v2/Git-Basics-Recording-Changes-to-the-Repository

GitHub

GitHub is a web-based Git repository hosting service, adding its own features:

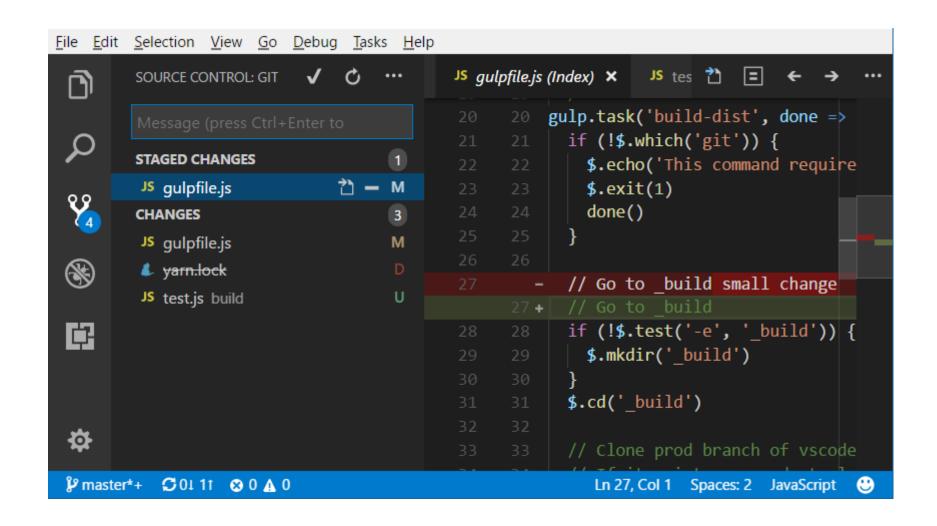
Wikis, bug tracking, **Markdown** rendering and static page hosting.

Unlike Git, which is strictly a command-line tool, GitHub provides a web-based **graphical interface**

Github Web

Browse commits, issues, fork, pull requests, wiki, Readme.md

Visual Studio Code Git Support



Do Your Commit Messages Suck?

https://www.youtube.com/watch?v=8YjSty6bfog

Rocky Mountain Ruby 2011 - Lightning Talk: Do Your Commit Messag...

Conventional Commits

https://www.conventionalcommits.org/fr/v1.0.0/

- Automatically generating CHANGELOGs.
- Automatically determining a semantic version bump (based on the types of commits landed).
- Communicating the nature of changes to teammates, the public, and other stakeholders.
- Triggering build and publish processes.
- Making it easier for people to contribute to your projects, by allowing them to explore a more structured commit history.

https://github.com/vuejs/vue/blob/dev/.github/COMMIT_CONVEI

Markdown

From text to HTML

Markdown Basics

Markdown allows you to write using an easy-to-read, easy-to-write plain text format, which then converts to valid HTML.

```
**bold**
```

Markdown List and Table

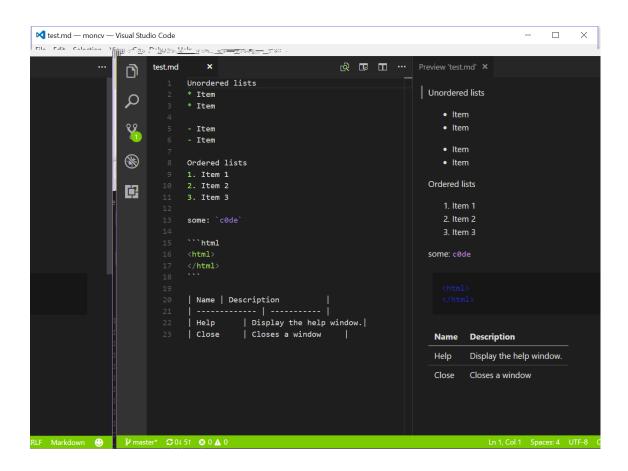
- Item
- Item
- 1. Item 1
- 2. Item 2

some:

Name	Description
Help	Display the help window.
Close	Closes a window

Visual Studio Code

Can preview markdown in realtime.



Warning: markdown on github is a special variant!