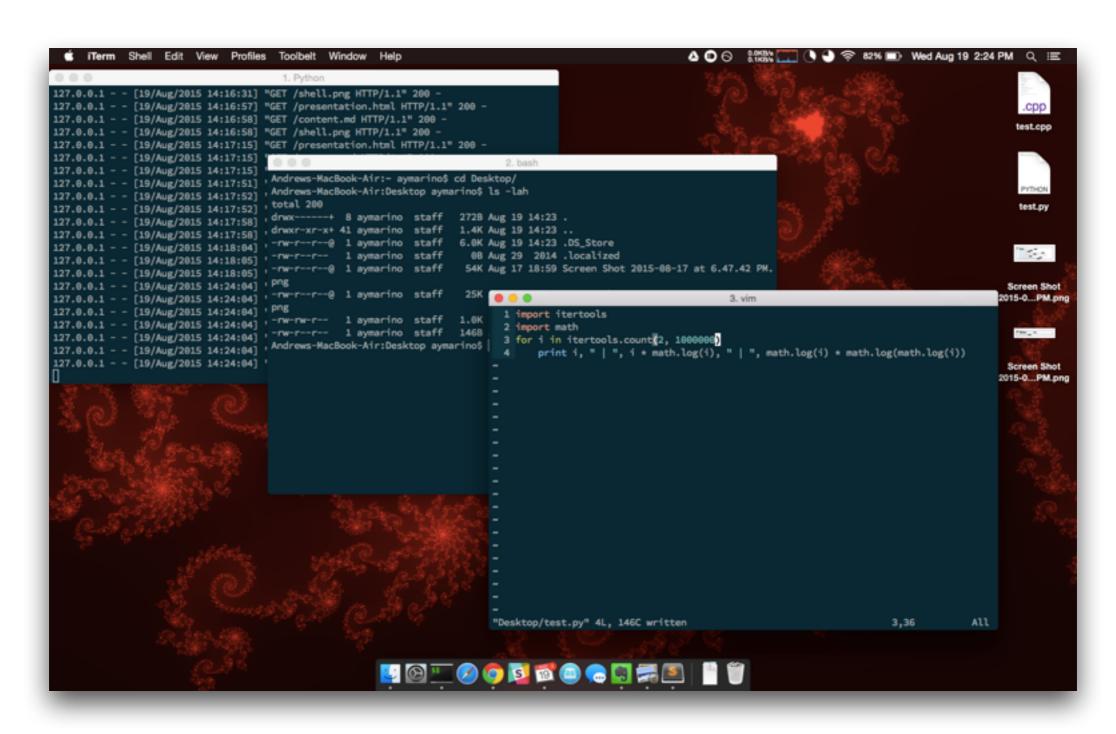
CLI & VCS

An acronym-filled introduction to hackathons.

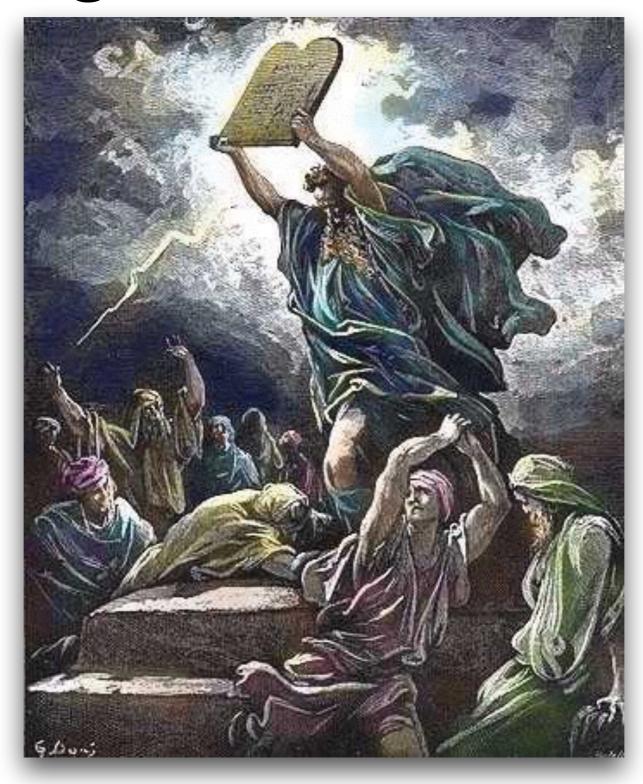
Andrew Marino & Chelsea Pugh (a.k.a. Apple) Midnight September 12, 2015

Command Line Interfaces (CLI)

A textual user interface



The original command line



(A different kind of textual interface)

The actual original command line



Basic Unix Command Reference

cd [path]	c hange d irectory to [path]	
Is	list files/folders in directory	Is -la (detailed list)
pwd	p rint w orking d irectory	
cat [file]	show (text) content of file	
mkdir [folder name or path]	make directory	
cp [origin] [destination]	сору	
mv [origin] [destination]	move	
rm [file] [-r for folders] [-f for force delete]	remove	CAUTION

less	Pipe output to "less"	Easier for reading long outputs (files, compiler
tail [- #] file	Last # of lines of file	
head [- #] file	First # of lines of file	
grep [search] [file]	Finds lines with search term in file(s)	Use with regex: "-E"
ssh user@hostname	Secure shell into "hostname" as "user"	Connect into a remote host's shell
Ctrl-A	Cursor to front of command	
Ctrl-E	Cursor to end of command	
Ctrl-L	Clear screen	
Ctrl-R	Reverse command search	Find that one long-ass command you typed a few minutes ago

Git & GitHub

An introductory workflow

Motivations behind version control

Ease of collaboration & sharing



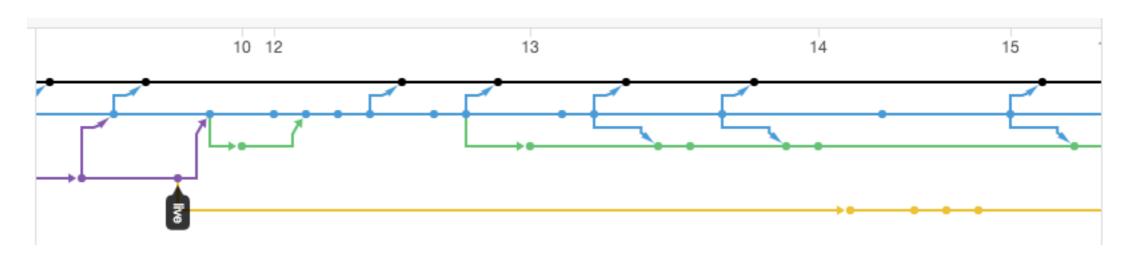
Motivations behind version control

- Ease of collaboration & sharing
- Serves as a distributed backup

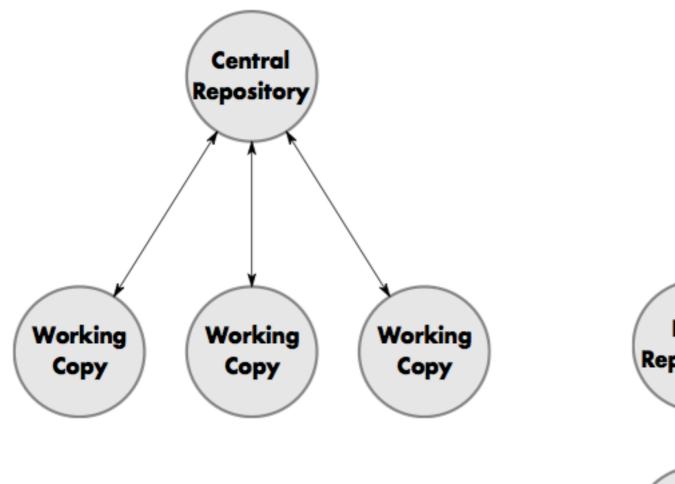


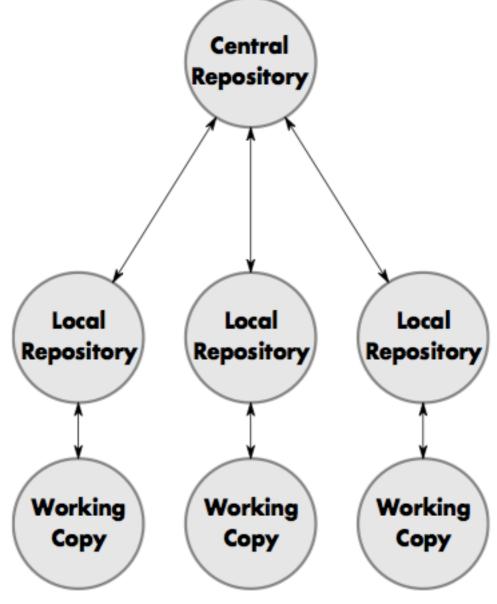
Motivations behind version control

- Ease of collaboration & sharing
- Serves as a distributed backup
- Builds a narrative of your project:



Distributed





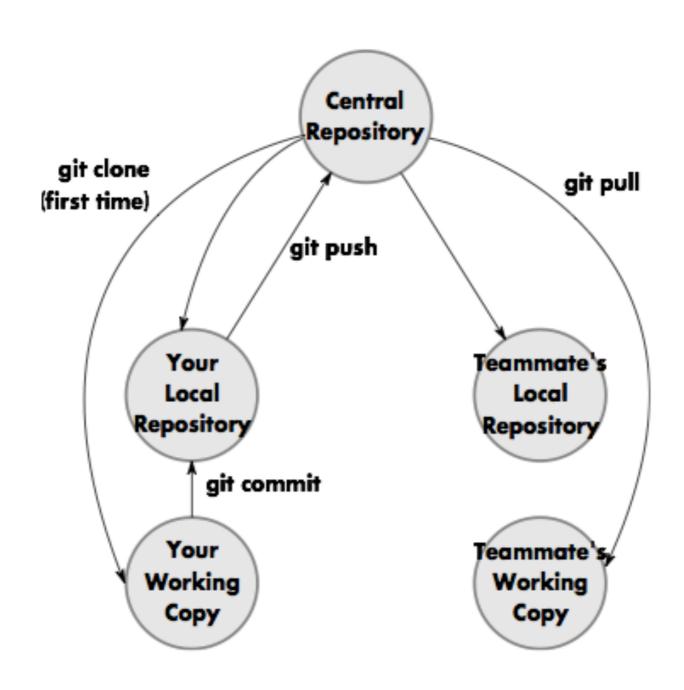
Centralized (à la SVN)

Distributed repos (à la git)

Ways to use git

- Graphical interfaces:
 - Xcode
 - GitHub Desktop
 - Sublime Text
- Command Line

Collaborating via git



Git Reference

- Git commands: init, clone, add, commit, push, pull, checkout, branch, merge, diff, log, status
- Live workflow example
- Reference for these commands: Google Search "git cheat sheet"

Best practices with git

- Don't use commits as "save".
- Don't wait too long to commit.
- Careful not to commit sensitive info when pushing to GitHub.
- Choose helpful commit messages. (Spoiler: good luck with this one at 4 AM.)

Best practices with git

 Choose helpful commit messages. (Spoiler: good luck with this one at 4 AM.)

