

Basics of version control

Data plumbers' corner, session 8

Arianna Masciolini

Språkbanken Text, University of Gothenburg

Today's session

1. intro to version control and Git (again)
2. hands-on Git tutorial
3. first steps with GitHub

What you will need

- ❏ a Unix-like shell
- ❏ the basic Git CLI program
- ❏ a GitHub account

Manual versioning

"FINAL".doc



FINAL.doc!



FINAL_rev.2.doc



FINAL_rev.6.COMMENTS.doc



FINAL_rev.8.comments5.
CORRECTIONS.doc



FINAL_rev.18.comments7.
corrections9.MORE.30.doc



FINAL_rev.22.comments49.
corrections.10.##\$%WHYDID
ICOMETOGRADSCHOOL?????.doc

WWW.PHDCOMICS.COM

Version Control Systems

1. need to save disk space: **patch-based VCS** (e.g. RCS)
2. need for collaborative development: **centralized VCSs** (e.g. SVN)
3. need to work offline and prevent the server from being the “single point of failure”: **distributed VCSs** (e.g. Git, the current *de facto* standard)

Behind Git



Linus Torvalds, the creator of both Linux and Git
recommended: youtube.com/watch?v=4XpnKHJAok8

Git: basic concepts



	COMMENT	DATE
○	CREATED MAIN LOOP & TIMING CONTROL	14 HOURS AGO
○	ENABLED CONFIG FILE PARSING	9 HOURS AGO
○	MISC BUGFIXES	5 HOURS AGO
○	CODE ADDITIONS/EDITS	4 HOURS AGO
○	MORE CODE	4 HOURS AGO
○	HERE HAVE CODE	4 HOURS AGO
○	AAAAAAA	3 HOURS AGO
○	ADKFJSLKDFJSDKLFJ	3 HOURS AGO
○	MY HANDS ARE TYPING WORDS	2 HOURS AGO
○	HAHAHAHAHAANDS	2 HOURS AGO

AS A PROJECT DRAGS ON, MY GIT COMMIT
MESSAGES GET LESS AND LESS INFORMATIVE.

image from xkcd.com

- ❏ (named) filesystem snapshots rather than patches
- ❏ version history as a directed graph
- ❏ distributed, supports easy branching
- ❏ several interfaces and “hubs”

Hands-on Git tutorial

1. local usage (simple versioning)
2. setting up a remote GitHub repository
(versioning + backup)
3. collaborative usage with GitHub