



INTRODUCTION TO VERSION CONTROL

Time travel for beginners

June 29, 2018 | Julia Sprenger | INM-6/10



Part I: Why should I care about versions?

"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



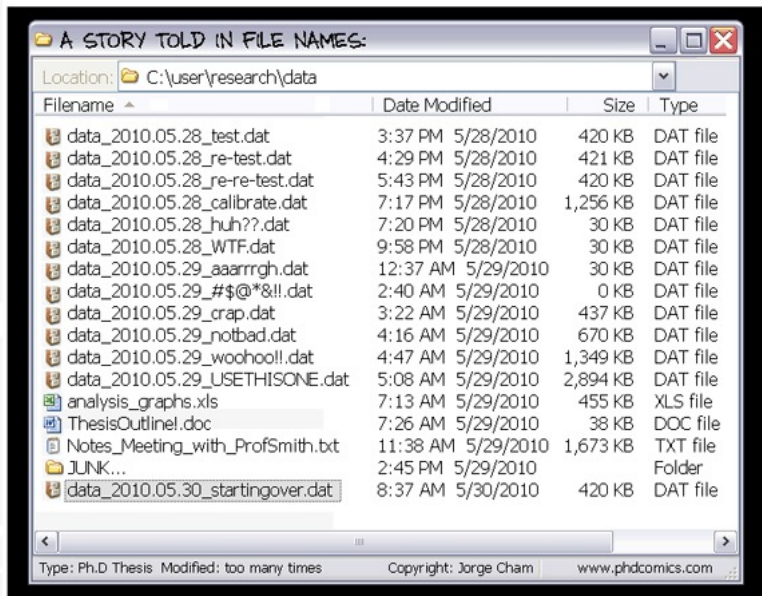
FINAL_rev.22.comments49.
corrections.10. #@\$%WHYDID
ICOMETOGRADSCHOOL????.doc



JORGE CHAM © 2012

WWW.PHDCOMICS.COM

<http://phdcomics.com/comics.php?f=1531>



<http://phdcomics.com/comics.php?f=1323>

VERSION CONTROL USING FOLDER AND FILENAMES

- only readable by you ...

VERSION CONTROL USING FOLDER AND FILENAMES

- only readable by you ...
- ... as long as you remember

VERSION CONTROL USING FOLDER AND FILENAMES

- only readable by you ...
- ... as long as you remember
- no consistent structure or naming scheme enforced

VERSION CONTROL USING FOLDER AND FILENAMES

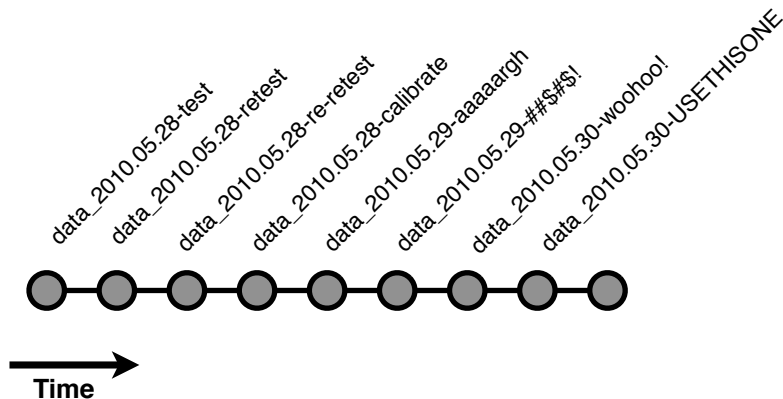
- only readable by you ...
- ... as long as you remember
- no consistent structure or naming scheme enforced
- no detailed description of changes (why were changes performed?)

VERSION CONTROL USING FOLDER AND FILENAMES

- only readable by you ...
- ... as long as you remember
- no consistent structure or naming scheme enforced
- no detailed description of changes (why were changes performed?)
- no easy way of comparing changes between versions (which changes were performed?)

VERSION CONTROL USING FOLDER AND FILENAMES

- only readable by you ...
- ... as long as you remember
- no consistent structure or naming scheme enforced
- no detailed description of changes (why were changes performed?)
- no easy way of comparing changes between versions (which changes were performed?)
- ...



The history of a project can be
viewed as a series of changes

Changes

- A unique identifier
- What changed?
- When did it change?
- Who changed it?
- Why did it change?



Part II: Version Control Systems

DIFFERENT VERSION CONTROL SYSTEMS



GIT

distributed system



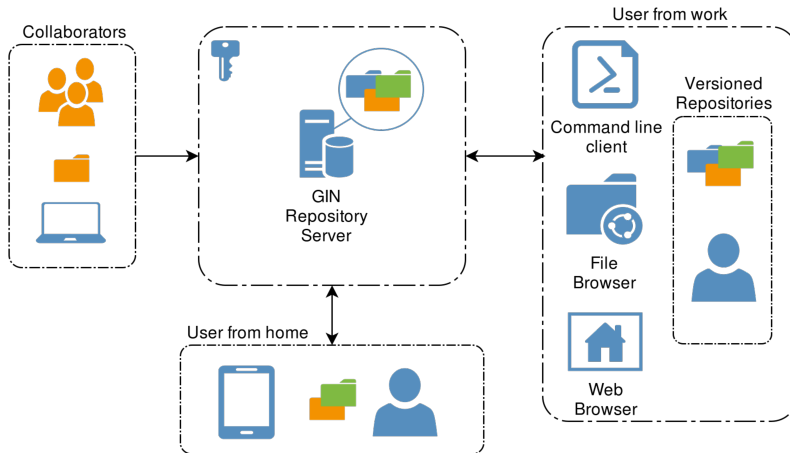
Mercurial

distributed system



SVN

centralized system



THIS IS GIT. IT TRACKS COLLABORATIVE WORK
ON PROJECTS THROUGH A BEAUTIFUL
DISTRIBUTED GRAPH THEORY TREE MODEL.

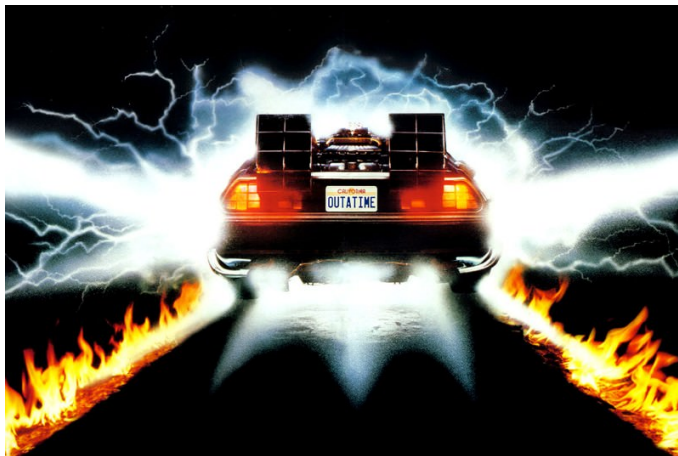
COOL. HOW DO WE USE IT?

NO IDEA. JUST MEMORIZE THESE SHELL
COMMANDS AND TYPE THEM TO SYNC UP.
IF YOU GET ERRORS, SAVE YOUR WORK
ELSEWHERE, DELETE THE PROJECT,
AND DOWNLOAD A FRESH COPY.



<https://xkcd.com/1597>

THANKS FOR YOUR ATTENTION



<https://www.newscientist.com/article/dn28374-back-to-the-future-does-physics-of-martys-time-travel-add-up/>

REFERENCES AND FURTHER READS

This presentation is available at https://github.com/JuliaSprenger/vc_talk Inspiration for this presentation comes from

- Version Control Tutorial & GIT
<https://github.com/rstudio/webinars/tree/master/06-Collaboration-and-time-travel-version-control>
- iaeie