VERSION CONTROL WITH



ROB'S TECHNICAL SEMINAR

18.10.2013Dominik Klaes

Outline

- What is version control? Why is it useful?
- Why git(hub)?
- Advantage = Disadvantage?
- How git works
- How to get it
- How to use it
- What to do after the seminar

What is version control? Why is it useful?

What is version control? Useful?

Everyone is developing code

□ <u>Backups...</u>

- Why did the code run but now not?
- Why did I do that?
- □ "Werewolf" effect (beer, coffee, sleep…)
- Working with different computers and users (Dropbox?)
- Reproducing data with old scripts?
- Conflicts?

What is version control? Useful?

CVS / SVN / GIT

- Backups with history
- See changes between different versions
- Why did I do that? Comments! Explain what you did! At least YOU have to understand it!
- Why not Dropbox? You are working with the same files!
- You can easily use an older version!
- Take one day to get to know it! It helps!!!



Why git?

- 7
- □ Git is free, not depending on local staff
- Can be on your own server or on e.g. github
- Easy to learn, very fast.
- If a file changes, only the differences are transfered (especially for long scripts...)!
- Changes can be committed (reported) on your own machine! Later sync with server (not possible with svn).
- Different users? Different branches!
- Realeses

Why github?

- Online readable access to textfiles
- Issues
- Pull requests
- Wikipage
- Pulse / statistics (How much did I really work?)
- Checking out other repositories, perhaps someone already did something (similar) you want to do...

Advantage = Disadvantage?

Advantage = Disadvantage?

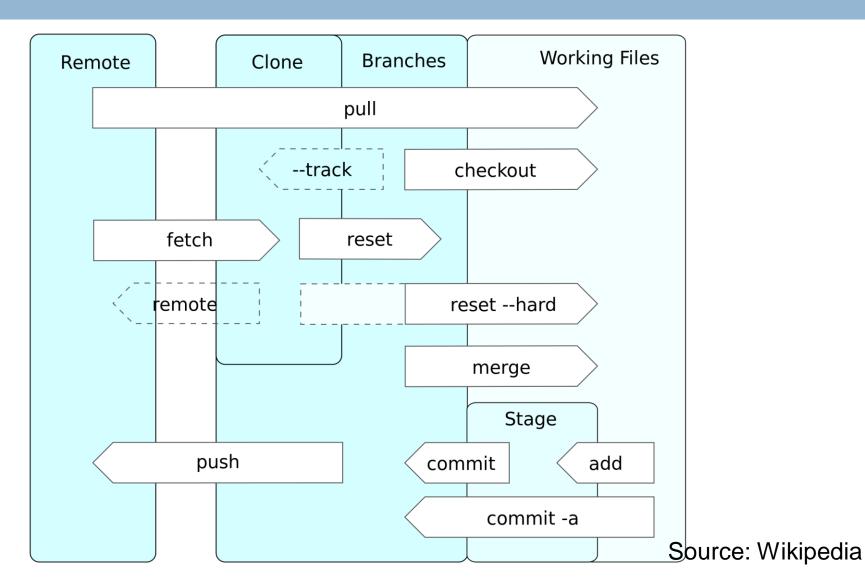
On github all projects are freely available but "closed" repositories are available for money.

Statistics mean too much "control"



How git works

12





How to get it

Already installed at AlfA!

Otherwise: Check your software center, it's not hard!



How to use it

- 16
- □ git clone : Clone a repository from source
- git add [FILE] : Add a file that is under version control
- git commit : Commit to repository with a comment
- □ git push : Copy all changes to server
- □ git pull : Get all changes to local machine
- □ git tag –a [VERSION] : Tag a version

What to do after the seminar

What to do after the seminar

- Take a coffee
- Go to your computer
- Go to http://www.github.com
- Create an account
- Create a repository
- Start working with it
- Enjoy!

See also: http://git.or.cz/course/svn.html

Questions?

