

Revision Control Systems Training: Warmup Exercises

LRZ

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1 GIT / from lxlogin8.lrz.de

Read-only warmup:

1. give a look at the provided GIT cheat sheet
2. clone the GIT sources repository
`git clone git://git.kernel.org/pub/scm/git/git.git`
3. How big it is this dir ?
`cd git`
`du -sch .`
4. See last changes:
`git log --patch master | less`
5. Who edited last most of README.md ?
`git blame README.md`
6. How many commits does it have ?
Use `git log --oneline`
7. How many lines of code did the last commit have ?
`wc $(git ls-files)`
8. What does GIT mean ?
See: `git log --patch README.md | less`
9. Check out the first version
`git checkout e83c516331`
10. What's the first root ?
`git log --max-parents=0`
11. `git remote -v`

Non-write-only exercise:

1. Update git's README.md !
`vim README.md`

2. See your difference
`git diff`
3. Commit your changes
`git commit README.md -m 'my commit message'`
(see cheat sheet)
4. Modify a file (any file, again)
5. commit again
6. (Try to) push your changes !

2 GIT / GITLAB via browser

1. activate your `http://gitlab.lrz.de/` account with your temporary LRZ credentials
2. fill the minimally required information
3. familiarize with the GITLAB web user interface
4. instructions will follow

3 SVN

You have been provided an SVN cheat sheet.

1. `svn co https://svn.python.org/projects/python/trunk`
How long does it take ? now, `cd trunk`
2. use `svn log | less`
3. Look in the logs for 'mercurial', 'cvs', 'git'.
When are the oldest references of those ?
Use `less,wc...`
4. how many commits there are ?
5. which is the year of the oldest commit ?
6. `svn blame README`
7. `svn blame README | grep ros`
8. `svn diff -r2262:r2263`
9. `svn blame -r2262 Lib/string.py | nl | grep 84 -C 10`
10. `svn blame -r2262 Lib/string.py | sed -n '80,90p;d;'`

You can do the same exercise using GIT via the new GIT repo: `https://github.com/python/cpython`