

Computer lab Numerical Algorithms

Winter term 2012/2013

Prof. Dr. M. Rumpf – B. Geihe, B. Heeren

Introduction to Subversion

Subversion commands for Linux

Checkout	<code>svn co --username praktikum https://source-numod.ins.uni-bonn.de/webdav/praktWS1213/master [LocalFolder]</code> Here [LocalFolder] refers to the name of a local folder, which will be created. The password is given by: <code>rjghb4</code>
Update	<code>svn up</code> (call in the folder to be updated)
current status	<code>svn st -u</code>
view log file	<code>svn log</code>
view changes	<code>svn diff modifiedFile</code>
upload changes	<code>svn ci</code> (if you only want to commit certain files, state them explicitly; an editor is opened to enter a commit message, alternatively call: <code>svn ci modifiedFile -m "some message")</code>
add file	<code>svn add newFile</code>
delete file	<code>svn del wrongFile</code> (Caution! The file is also deleted locally!)
Help!	<code>svn help</code>

When calling “`svn st`” or “`svn up`” various symbols might appear in front of a filename:

- A *added*: file will be added to the repository at the next commit.
- D *deleted*: file will be removed from the repository at the next commit.
- M *modified*: changes will be transferred to the repository at the next commit.
- U *updated*: local copy has been updated.
- G *merged*: local changes have been merged with changes in the repository.
- C *conflict*: refers to a conflict that could not be solved automatically.
Now inconsistent changes (i.e. local vs. global changes) are marked in the file separately and have to be corrected by hand. Afterwards call:
`svn resolved conflictedFile`.
- ? This file is not under subversion control.

Caution: Subversion stores passwords by default. To avoid storing your password edit `~/.subversion/config` in the following way: `store-passwords = no`

Using Subversion with Windows

- Step 1.** Install current version of TortoiseSVN from <http://tortoisesvn.net/downloads> and reboot your system.
- Step 2.** Create a directory where the code templates provided in the lab will be stored.
- Step 3.** Right-click on the folder and chose "SVN Checkout".
- Step 4.** Edit "URL of repository" by writing
`https://source-numod.ins.uni-bonn.de/webdav/praktWS1213/master`
and press "OK".

You can use the svn commands stated above by right-clicking on the corresponding file.