Subversion Centralised version control

CONCEPTS

Revisions are repository-wide numbers: r42 is the whole tree at one point, not one file.

Working copy your files
↓ svn commit
Repository central server, revisions
↓ svn update
Working copy everyone else's

Branches and tags are ordinary directories made with svn copy; the layout trunk/ branches/ tags/ is only convention.

WORKING COPY

svn checkout *<url>* **[***<dir>***]**
Check out a working copy

svn update
Bring working copy up to date

svn update -r *<rev>*
Update to a specific revision

svn info
Show URL, revision, repo root

svn cleanup
Release locks after a crash

svn switch *<url>*
Point working copy at another branch

svn export *<url> <dir>*
Clean tree without .svn

CHANGES

svn status
List local changes

svn status -u
Also show server-side changes

svn add *<path>*
Schedule files for addition

svn delete *<path>*
Schedule removal

svn move *<src> <dst>*
Rename, keeping history

svn copy *<src> <dst>*
Copy, keeping history

CHANGES (cont.)

svn mkdir *<dir>*
Create a versioned directory

svn revert -R *<path>*
Undo local changes recursively

svn commit -m "*<msg>***"**
Commit local changes

INSPECT

svn diff
Local changes against base

svn diff -c *<rev>*
Changes made in one revision

svn diff -r *<a>*:*<b> <path>*
Compare two revisions

svn log -l *<n>*
Last n log entries

svn log -v
Include changed paths

svn log -r *<a>*:*<b>*
Log for a revision range

svn blame *<file>*
Who last changed each line

BRANCH AND MERGE

svn copy *<trunk-url> <branch-url>* **-m "***<msg>***"**
Create a branch

svn switch *<branch-url>*
Work on the branch

svn merge *<branch-url>*
Merge branch changes into here

CONFLICTS

svn resolve --accept working *<path>*
Keep your edited file

A conflict leaves .mine and .rNN files next to the file; resolve removes them.

PROPERTIES AND LOCKS

svn propset svn:ignore "*<pattern>***"** *<dir>*
Ignore files in a directory