Subversion® Quick Reference Card

For Subversion 1.6

What is?

Atomic Commit – Collection of modifications either goes into the repository completely or not at all.

Branch – A line of development that exists independently of another line yet shares a common history.

Property – Name/value pairs associated with an element (directory or file) or a revision (unversioned).

Repository – A central store of data stored in the form of a filesystem tree (a typical hierarchy of files and directories).

Revision – The state of the repository after a singe atomic commit with an associated global revision number.

Tag – A snapshot of a project in time that is given a human-friendly name.

URL – Path to the repository or a working copy
  file:// Direct repository access (on local disk)
  http:// WebDAV access to Subversion aware Apache server.
  https:// Same as http://, but with SSL encryption
  svn:// Access via custom protocol to an svnserve server.
  svn+ssh:// Same as svn://, but through an SSH tunnel.

Working copy – A user's own local copy of portions of the repository where they can make changes.

svn Command Syntax Legend

URL – Subversion Repository URL
WCPATH – Working copy path
TARGET – Working copy path or URL
… – Multiple files, directories, TARGETS
REV – Revision number or revision keyword
OPREV:PEGREV – Revision range, using an operative revision and peg revision.
@PEGREV – Revision range, using peg revisions.

How do I?

Basics

Get help online? svn help [SUBCOMMAND]
Create a working copy? svn checkout URL
Update working copy? svn update [WCPATH…]
Add a file(s) and/or directory(ies)? svn add [WCPATH]
Delete a file(s)/directory(ies)? svn delete WCPATH \ URL
Move/rename file(s) and/or directory(ies)? svn move SRC DST
Revert all my local changes? svn revert WCPATH…
Copy a file(s) or directory(ies)? svn copy SRC DST
Commit changes to the repository? svn commit [WCPATH…]
If my commit fails due to a crash, cleanup my working copy to retry? svn cleanup [WCPATH…]
How do I lock a file/directory? svn lock TARGET…
How do I unlock a file/directory? svn unlock TARGET…

Reporting

Display commit logs? svn log [WCPATH] | URL [WCPATH…]
Determine who made what changes? svn blame TARGET
Get the status of my working copy? svn status [WCPATH…]
Get a list of directories in the repository? svn list [TARGET…]
Get information on PATHs? svn info [TARGET…]

Branch, Merge, Tag

Create a tag? svn copy here /tags/newtag
Create a branch? svn copy TARGET /branches/newbranch
Merge file changes from one branch to another? svn merge frombranchfile[targetbranchfile]
Merge trunk changes to branch? svn merge TRUNKURL

Merge a branch to trunk? svn merge --reintegrate BRANCHURL
Indicate that merge conflicts have been resolved? svn resolved WCPATH…
Display the differences between two revisions of a file? svn diff (* see command for exact syntax)

Properties

Create a property on file/dir/rev? svn propset PROPNAME
Edit a property value? svn propedit PROPNAME
Get the value of a property? svn propget PROPNAME
List properties? svn proplist
Delete a property from an item? svn propdel PROPNAME
Define the MIME type for a file? svn propset svn:mime-type
Which file patterns will Subversion ignore? svn propget svn:ignore Is a file listed as executable? svn propget svn:executablePopulate a working copy from another repo? svn propset svn:externals (*see command for exact syntax)

Miscellaneous

Update WC to another branch/tag/rev? svn switch URL [WCPATH]
Import dirs and files from file system? svn import [WCPATH] URL
Export dir without Subversion admin dirs/files? svn export
Set a keyword? svn propset svn:keywords
Set end of line style? svn propset svn:eol-style
Output the file contents from a repository? svn cat URL

File status

U File was updated.
A File was added.
D File was deleted.
R File was replaced.
G File was merged.
C Conflicting changes.
E File existed.
? Resource is not under version control.
! Resource is missing or incomplete

Standard Keywords

$Date$ Date of the last modification
Rev Revision Number
$Author$ Last user who changed the item
URL Full URL to the latest repository version of the file
ID Compressed combo of all keywords except URL

End of Line Styles

Native   Use the standard EOL style of the client OS
CRLF   Typical EOL style for Windows platform
LF   Typical EOL style for Unix platform
CR   Old Macintosh EOL style not likely to be used

svn Command Syntax

add WCPATH
    Switches: --targets, --non-recursive, --depth, --quiet, --config-dir, --force, --no-ignore, --auto-props, --no-auto-props.
blame TARGET[@REV] …
    Switches: --revision, --verbose, --incremental, --xml, --extensions [[--unified] [--ignore-space-change] [--ignore-all-space] [--ignore-eol-style]], --force, --username, --password, --no-auth-cache, --non-interactive, --use-merge-history, --config-dir
cat TARGET[@REV] …
    Switches: --revision, --username, --password, --no-auth-cache; --non-interactive, --config-dir

changelist MYCHANGE foo.c bar.h
    Switches: --remove
checkout URL[@REV]…[WCPATH]
    Switches: --revision, --quiet, --non-recursive, --depth, --username, --password, --no-auth-cache; --non-interactive, --config-dir, --ignore-externals
cleanup [WCPATH…]
    Switches: --diff3-cmd, --config-dir
commit [WCPATH…]
    Switches: --quiet, --non-recursive, --depth, --targets, no-unlock, --message, --file, --changelist, --force-log, --editor-cmd, --encoding, --username, --password, --no-auth-cache, --non-interactive, --config-dir
copy SRC DST
    Switches: --revision, --quiet, --message, --file, --force-log, --editor-cmd, --encoding, --username, --password, --no-auth-cache, --non-interactive, --config-dir
delete WCPATH | URL
    Switches: --force, --quiet, --targets, --message, --file, --force-log, --editor-cmd, --encoding, --username, --password, --no-auth-cache, --non-interactive, --config-dir
diff
  • diff [-r N[:M]] [TARGET[@REV]…]
  • diff [-r N[:M]] --old OLD-TGT[@OLDREV] [--new NEW-TGT[@NEWREV]] [WCPATH…]
  • diff OLD-URL[@OLDREV] NEW-URL[@NEWREV]
  • Switches: --revision, --change, --old, --new, --changelist, --non-recursive, --depth, --diff-cmd, --extensions [--unified | --ignore-space-change | --ignore-all-space | --ignore-eol-style], --no-diff-deleted, --notice-ancestry, --summarize, --force, --username, --password, --no-auth-cache, --non-interactive, --config-dir
export [-r rev] URL[@PEGREV] | WCPATH1[@PEGREV] [WCPATH]
    Switches: --revision, --quiet, --non-recursive, --depth, --force, --username, --password, --no-auth-cache, --non-interactive, --config-dir arg, --native-eol arg, --ignore-externals
help [SUBCOMMAND…]
    Switches: --config-dir import [WCPATH] URL
    Switches: --quiet, --non-recursive, --auto-props, --no-auto-props, --message, --file, --force-log, --editor-cmd, --encoding, --no-ignore, --username, --password, --no-auth-cache, --non-interactive, --config-dir arg
import [PATH] URL
    Switches: --depth, --quiet, --force, --username, --password, --no-auth-cache, --non-interactive, --config-dir, --message, --file, --force-log, --editor-cmd, --encoding, --with-revprop, --auto-props, --no-auto-props, --no-ignore
info [TARGET…]
    Switches: --revision, --recursive, --depth, --targets, --changelist, --incremental, --xml, --username, --password, --no-auth-cache, --non-interactive, --config-dir
list [TARGET[@REV]…]
    Switches: --revision, --verbose, --recursive, --depth, --incremental, --xml, --username, --password, --no-auth-cache, --non-interactive, --config-dir arg
lock TARGET…
    Switches: --targets, --message, --file, --force-log, --encoding, --username, --password, --no-auth-cache, --non-interactive, --config-dir, --force
log
  • log [WCPATH]

- log URL [WCPATH…]
  - Switches: --revision, --quiet, --verbose, --targets, --stop-on-copy, --incremental, --xml, --username, --password, --no-auth-cache, --non-interactive, --config-dir, --use-merge-history, --limit

merge
- merge sourceURL1[@N] sourceURL2[@M] [WCPATH]
- merge sourceWCPATH1[@N] sourceWCPATH2[@M] [WCPATH]
- merge –r N:M SOURCE[@REV] [WCPATH]
- Switches: --revision, --change, --non-recursive, --depth, --quiet, --force, --record-only, --reintegrate, --dry-run, --diff3-cmd arg, --extensions [--unified | --ignore-space-change | --ignore-all-space | --ignore-eol-style], --ignore-ancestry, --username, --password, --no-auth-cache, --non-interactive, --config-dir

mergeinfo WCPATH
  Switches: --revision, --username, --password, --no-auth-cache, --non-interactive, --config-dir

mkdir WCPATH | URL …
  Switches: --quiet, --message, --file, --force-log, --editor-cmd, --encoding, --username, --password, --no-auth-cache, --non-interactive, --config-dir

move SRC DST
  Switches: --revision, --quiet, --force, --message, --file, --force-log, --editor-cmd, --encoding, --username, --password, --no-auth-cache, --non-interactive, --config-dir arg

propdel PROPNAME [WCPATH…] | --revprop –r REV [URL]
  Switches: --quiet, --recursive, --depth, --revision, --revprop, --changelist, --username, --password, --no-auth-cache, --non-interactive, --config-dir

propedit PROPNAME [WCPATH…] | --revprop –r REV [URL]
  Switches: --revision, --revprop, --username, --password, --no-auth-cache, --non-interactive, --encoding, --editor-cmd, --force, --config-dir

propget PROPNAME [WCPATH…] | --revprop –r REV [URL]
  Switches: --recursive, --depth, --revision, --revprop, --changelist, --strict, --username, --password, --no-auth-cache, --non-interactive, --config-dir

proplist [TARGET[@REV…] | --revprop –r REV [URL]
  Switches: --verbose, --recursive, --depth, --revision, --quiet, --revprop, --changelist, --username, --password, --no-auth-cache, --non-interactive, --config-dir

propset
- PROPNAME [PROPVAL | -F VALNAME] WCPATH…
- PROPNAME --revprop –r REV [PROPVAL | -F VALNAME] [URL]
  Switches: --file, --encoding, --quiet, --revision, --targets, --recursive, --depth, --revprop, --changelist, --username, --password, --no-auth-cache, --non-interactive, --force, --config-dir

resolved WCPATH …
  Switches: --targets, --recursive, --depth, --quiet, --config-dir

revert WCPATH…
  Switches: --targets, --changelist, --recursive, --depth, --quiet, --config-dir

status [WCPATH…]
  Switches: --show-updates, --verbose, --non-recursive, --depth, --changelist, --quiet, --no-ignore, --incremental, --xml, --username, --password, --no-auth-cache, --non-interactive, --config-dir, --ignore-externals

switch URL [WCPATH] | --relocate FROM TO [WCPATH…]

Switches: --revision, --non-recursive, --depth, --quiet, --diff3-cmd, --relocate, --username, --password, --no-auth-cache, --non-interactive, --config-dir

unlock TARGET…
  Switches: --targets, --username, --password, --no-auth-cache, --non-interactive, --config-dir, --force

update [WCPATH…]
  Switches: --revision, --non-recursive, --changelist, --depth, --quiet, --diff3-cmd, --username, --password, --no-auth-cache, --non-interactive, --config-dir, --ignore-externals

svn switches
change (c) ARG
  The change made by revision ARG (like -r ARG-1:ARG). If ARG is negative this is like -r ARG:ARG-1
changelist ARG
  Filters targets based upon the members of the changelist.
configdir DIR
  Read configuration from DIR instead of ~/.subversion.
depth=[empty|files|immediates|infinity]
  Sets depth values as it updates the working copy,
diffcmd CMD
  Use external program CMD for generating diff output instead of internal diff engine.
diff3cmd CMD
  Use external program CMD for merging files.
dryrun
  Run the command without changing anything.
editorcmd CMD
  Use external program CMD for editing files.
encoding ENC
  Instructs Subversion to use encoding ENC to store log messages.
extensions *ARG* (x)
  Default: '-u'. When Subversion is invoking an external diff program, ARG is simply passed along to the program. But when Subversion is using its default internal diff implementation, or when Subversion is displaying blame annotations, ARG could be any of the following:
  --unified (-u)
     Output 3 lines of unified context.
  --ignore-space-change (-b)
     Ignore changes in the amount of white space.
  --ignore-all-space (-w)
     Ignore all white space.
  --ignore-eol-style
     Ignore changes in EOL style
file FILE (F)
  Use the contents of file FILE as an argument for a given subcommand.
force
  Forces a particular subcommand to run.
forcelog
  Forces a suspicious parameter passed to the message options to be accepted as valid.
help (h or ?)
  Prints help for a given command or general help text.
ignoreancestry
  Ignore ancestry when calculating differences (rely on path contents alone).
incremental
  Prints output in a format suitable for concatenation.

message (m) MSG
  Specify a commit message MSG.
noauthcache
  Prevents caching of authentication information.
noautoprops
  Disable autoprops, overriding the enableautoprops directive in the config file.
nodiffdeleted
  Prevents Subversion from printing differences for deleted files.
noignore
  Shows files in the status listing that would normally be omitted since they match a pattern in the svn:ignore property.
noninteractive
  Prevents prompting for authentication information.
nonrecursive (N)
  Stops a subcommand from recursing into subdirectories.
noticeancestry
  Pay attention to ancestry when calculating differences.
old ARG
  Uses ARG as the older target.
password PASS
  Password for authentication.
quiet (q)
  Print only essential information while performing an operation.
record-only   Mark revisions as merged (use with -r).
recursive (R)
  Makes a subcommand recurse into subdirectories.
reintegrate
  Used when merging a branch back to trunk
relocate FROM TO [PATH...]
  Used with the svn switch subcommand, changes the location of the repository that your working copy references.
revision REV (r)
  Supply revision (or range of revisions) for the operation.
revprop
  Operates on a revision property instead of a Subversion property specific to a file or directory (requires revision switch).
showupdates (u)
  Causes the client to display information about which files in your working copy are out-of-date.
stoponcopy
  Stop harvesting historical information when a copy is encountered.
strict
  Causes Subversion to use strict semantics.
summarize
  Show a summary of the results
targets FILE
  Get the list of files that you wish to operate on from the file FILE.
username NAME
  Username for authentication.
verbose (v)
  Verbose mode.
version
  Prints the client version info.
xml
  Prints output in XML format.