

Subversion Quick Reference Card

§Rev: 28 §

Subversion is a version control system that is a replacement for CVS. It has most of CVS's features. Generally, Subversion's interface to a particular feature is similar to CVS's, except where there's a compelling reason to do otherwise.

Quick start

```
svnadmin create /var/svnroot
svn import LocalDir file:///var/svnroot/ProjectName
svn checkout file:///var/svnroot/ProjectName
cd ProjectName
svn help [command]
```

Subversion URLs

file:// **Direct repository access (on local disk).**
http:// **Access via WebDAV protocol 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.**

svn subcommands

add **Adds files and directories.**
blame (praise, annotate, ann) **Shows author and revision information in-line for the specified files or URLs.**
cat **Outputs the contents of the specified files or URLs.**
checkout (co) **Checks out a working copy from a repository.**
cleanup **Recursively clean up the working copy.**
commit (ci) **Send changes from your working copy to the repository.**
copy (cp) **Copy a file or directory in a working copy or in the repository.**
delete (del, remove, rm) **Delete an item from a working copy or the repository.**
diff (di) **Display the differences between two paths.**
export **Exports a clean directory tree.**
help **Prints help text.**
import **Recursively commit a copy of local dir into a repository.**
info **Print information about PATHs.**
list (ls) **List directory entries in the repository.**
log **Displays commit log messages.**

merge **Apply the differences between two sources to a working copy path.**
mkdir **Create a new directory under version control.**
move (mv, rename, ren) **Move a file or directory.**
propdel (pdel, pd) **Remove a property from an item.**
propedit (pedit, pe) **Edit the property of one or more items under version control.**
propget (pget, pg) **Prints the value of a property.**
proplist (plist, pl) **Lists all properties.**
propset (pset, ps) **Sets a property on files, directories, or revisions.**
resolved **Remove conflicted state on working copy files or directories.**
revert **Undo all local edits.**
status (stat, st) **Print the status of working copy files and directories.**
switch (sw) **Update working copy to a different URL.**
update (up) **Updates your working copy.**

svn switches

##config#dir DIR **Read configuration from DIR instead of ~/.subversion.**
##diff#cmd CMD **Use external program CMD for generating diff output instead of internal diff engine.**
##diff3#cmd CMD **Use external program CMD for merging files.**
##dry#run **Run the command without changing anything.**
##editor#cmd CMD **Use external program CMD for editing files.**
##encoding ENC **Instructs Subversion to use encoding ENC to store log messages.**
##extensions ARG (#X) **Additional arguments for external diff, eg.: svn ##diff#cmd diff #x ##normal diff main.c.**
##file FILE (#F) **Use the contents of file FILE as an argument for a given subcommand.**
##force **Forces a particular subcommand to run.**
##force#log **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.**

##ignore#ancestry **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.**
##no#auth#cache **Prevents caching of authentication information.**
##no#auto#props **Disable auto#props, overriding the enable#auto#props directive in the config file.**
##no#diff#deleted **Prevents Subversion from printing differences for deleted files.**
##no#ignore **Shows files in the status listing that would normally be omitted since they match a pattern in the svn:ignore property.**
##non#interactive **Prevents prompting for authentication information.**
##non#recursive (#N) **Stops a subcommand from recursing into subdirectories.**
##notice#ancestry **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.**
##recursive (#R) **Makes a subcommand recurse into subdirectories.**
##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 a revision REV (or range of revisions) for a particular operation.**
##revprop **Operates on a revision property instead of a Subversion property specific to a file or directory (requires ##revision switch).**
##show#updates (#u) **Causes the client to display information about which files in your working copy are out-of-date.**

##stop##copy

Stop harvesting historical information when a copy is encountered.

##strict

Causes Subversion to use strict semantics.

##targets FILE

Get the list of ples that you wish to operate on from the ple FILE.

##username NAME

Username for authentication.

##verbose (#v)

Verbose mode.

##version

Prints the client version info.

##xml

Prints output in XML format.

svnadmin subcommands

list##unused##dblogs

Ask Berkeley DB which log ples can be safely deleted.

create

Create a new, empty repository.

dump

Dump the contents of plesystem to stdout.

help

Help.

hotcopy

Makes a hot copy of a repository.

load

Read a dumpple-formatted stream from stdin.

lstxns

Print the names of all uncommitted transactions.

recover

Recovers any lost state in a repository.

rmixns

Deletes transactions from a repository.

setlog

Set the log-message on a revision.

svnadmin switches

##bypass##hooks

Bypass the repository hook system.

##copies

Follow copy history when examining a path.

##in##repos##template ARG

Specify a template for the repository structure when creating a new repository.

##incremental

Dump a revision only as a diP against the previous revision, instead of the usual fulltext.

##on##disk##template ARG

Specify a template to use for the on-disk structure of the repository you want to create.

##revision ARG (#r)

Specify a particular revision to operate on.

svnlook subcommands

author

Prints the author.

cat

Print the contents of a ple.

changed

Print the paths that were changed.

date

Print the date stamp.

diff

Prints diPerences of changed ples and properties.

dirs##changed

Print the directories that were themselves changed.

help

Help.

history

Print information about the history of a path in the repository.

info

Print the author, date stamp, log message size, and log message.

log

Print the log message.

proplist

Print the names and values of versioned ple and directory properties.

tree

Print the tree.

youngest

Print the youngest revision number.

svnlook switches

##no##diff##deleted

Prevents svnlook from printing diPerences for deleted ples.

##revision REV (#r)

Specify a particular revision number that you wish to examine.

##transaction TID (#t)

Specify a particular transaction id TID that you wish to examine.

##show##ids

Show the plesystem node revision IDs for each path in the plesystem tree.

File status

U

File was updated.

A

File was added.

D

File was deleted.

R

File was replaced.

G

File was merged.

C

Con icting changes.

?

Resource is not under version control.

!

Resource is missing or incomplete (removed by another tool than Subversion).

Special properties

svn:executable Executable ple permission.

svn:mime##type

MIME type of a ple.

svn:ignore

List of ple patterns which certain Subversion operations will ignore. Full list may be obtained by `svn status ##no##ignore`.

svn:eol##style

Possible values are: native, CRLF, LF, CR.

svn:externals

Instructions for Subversion to populate a versioned directory with one or more other checked-out Subversion working copies.

svn:keywords

List of keywords that will be substituted during commit:

\$Date\$ date of the last modipcation

\$Rev\$ revision number

\$Author\$ the last user who changed the ple

\$URL\$ full URL to the latest version of the ple in the repository

\$Id\$ compressed combination of keywords above

Client conpuration

File `~/subversion/config`:

```
[helpers]
editor##cmd = vim
```

```
[miscellany]
log##encoding = iso##8859##2
enable##auto##props = yes
```

```
[auto##props]
*.sh = svn:executable
*.bat = svn:eol##style=CRLF
*.c = svn:eol##style=##native;svn:keywords=##Id
```

Autocompletion in bash:

```
shopt ##s extglob progcomp
. /usr/share/subversion/.../bash_completion
```

Other sources of information

<http://subversion.tigris.org>

Home page of the Subversion project.

<http://svnbook.red##bean.com>

Version Control with Subversion | a book on Subversion.

<http://tortoisesvn.tigris.org/>

TortoiseSVN is a Windows client for Subversion implemented as a windows shell extension.