# Index

## A



## B

# C

# D

# E



# F

# G



# H



# I



# J



# K



# L

# M



# N

# O



# P



# Q



# R

# S

# T

# U



# V



# W



# X



# Z

# CVS Commands

Note: This card contains the most important CVS commands, options, and keywords. For a complete list, see Chapter 11.

## Basic Structure of CVS Commands

**cvs [*global_options*] *command* [*command_options*]**

**[*command_args*]**

## Global Options

| Option | Purpose |
|---|---|
| **--allow-root=*rootdir*** | Specify legal CVSROOT directory (server only) (not in CVS 1.9 and older). |
| **-a** | Authenticate all communication (client only) (not in CVS 1.9 and older). |
| **-b** | Specify RCS location (CVS 1.9 and older). |
| **-d *rootdir*** | Specify the CVSROOT. |
| **-e *editor*** | Edit messages with editor. |
| **-f** | Do not read the ~/.cvsrc file. |
| **-H [*command*]** or **--help [*command*]** | Print a help message. If a command is indicated, the help will be context-sensitive. |
| **-l** | Do not log in to CVSROOT/history file. |
| **-n** | Do not change any files. |
| **-Q** | Operate in quiet mode. |
| **-q** | Be somewhat quiet. |
| **-r** | Make new working files read-only. |
| **-s *variable=value*** | Set a user variable. |
| **-T *tempdir*** | Put temporary files in *tempdir*. |
| **-t** | Trace CVS execution. |
| **-v or --version** | Display version and copyright information for CVS. |
| **-w** | Make new working files read-write. |
| **-x** | Encrypt all communication (client only). |
| **-z *gzip-level*** | Set the compression level (client only). |

## Keyword Expansion Modes

| Mode | Expansion |
|---|---|
| **-kb** | *no expansion; file is binary* |
| **-kk** | **$Id$** |
| **-kkv** | **$Id: file1,v 1.1 2000/12/09 03:21:13 moshe Exp $** |
| **-kkvl** | **$Id: file1,v 1.1 2000/12/09 03:21:13 moshe Exp karl $** |
| **-ko** | *no expansion* |
| **-kv** | **file1,v 1.1 2000/12/09 03:21:13 moshe Exp** |

## Keywords

| Keyword | Expanded Form Example |
|---|---|
| **$Author$** | **$Author: moshe $** |
| **$Date$** | **$Date: 2000/12/09 03:21:13 $** |
| **$Header$** | **$Header: /home/files/file1,v 1.1 1993/12/09 \ 03:21:13 moshe Exp karl $** |
| **$Id$** | **$Id: file1,v 1.1 1993/12/09 03:21:13 moshe \ Exp karl $** |
| **$Locker$** | **$Locker: karl $** |
| **$Name$** | **$Name: snapshot_1_14 $** |
| **$RCSfile$** | **$RCSfile: file1,v $** |
| **$Revision$** | **$Revision: 1.1 $** |
| **$Source$** | **$Source: /home/files/file1,v $** |
| **$State$** | **$State: Exp $** |
| **$Log$** | **$Log: file1,v $** |

## Commands, Command Options, and Command Arguments

### add

Syntax: **add [*options*] [*files*]**

Used for: Adding a new file or directory.

| Option/Argument | Purpose |
|---|---|
| **-k*kflag*** | Set keyword expansion. |
| **-m *msg*** | Set file description. |

### admin

Syntax: **admin [*options*] [*files*]**

Used for: Administration of history files in the repository.

| Option/Argument | Purpose |
|---|---|
| **-b[*rev*]** | Set default branch. |
| **-k*subst*** | Set keyword substitution. |
| **-l[*rev*]** | Lock revision *rev*, or latest revision. |
| **-m*rev*:*msg*** | Replace the log message of revision *rev* with *msg*. |
| **-o*orange*** | Delete revisions from the repository. |
| **-q** | Run quietly; do not print diagnostics. |
| **-s*state*[:*rev*]** | Set the state. |
| **-t** | Set file description from standard input. |
| **-t*file*** | Set file description from *file*. |
| **-t-*string*** | Set file description to *string*. |
| **-u[*rev*]** | Unlock revision *rev*, or latest revision. |

## annotate

Syntax: **annotate [*options*] [*files*]**

Used for: Showing the last revision where each line was modified.

| Option/Argument | Purpose |
|---|---|
| **-D *date*** | Annotate the most recent revision no later than *date*. |
| **-f** | Use head revision if tag/date not found. |
| **-l** | Local; run only in current working directory. |
| **-R** | Operate recursively (default). |
| **-r *rev*** | Annotate revision *rev*. |

## checkout

Syntax: **checkout [*options* ] *project(s)***

Used for: Checking out a module from the repository into a working copy.

| Option/Argument | Purpose |
|---|---|
| **-A** | Reset any sticky tags/date/options. |
| **-c** | Output the module database. |
| **-D *date*** | Check out revisions as of *date* (is sticky). |
| **-d *dir*** | Check out into *dir*. |
| **-f** | Use head revision if tag/date not found. |
| **-j *rev*** | Merge in changes. |
| **-k *kflag*** | Use *kflag* keyword expansion. |
| **-l** | Local; run only in current working directory. |
| **-N** | Don't "shorten" module paths if **-d** specified. |
| **-n** | Do not run module program (if any). |
| **-P** | Prune empty directories. |
| **-p** | Check out files to standard output (avoids stickiness). |
| **-R** | Operate recursively (default). |
| **-r *tag*** | Check out revision *tag* (is sticky). |
| **-s** | Like **-c**, but include module status. |

## commit

Syntax: **commit [*options*] [*files*]**

Used for: Checking changes into the repository.

| Option/Argument | Purpose |
|---|---|
| **-F *file*** | Read log message from *file*. |
| **-f** | Force the file to be committed; disables recursion. |
| **-l** | Local; run only in current working directory. |
| **-m *msg*** | Use *msg* as log message. |
| **-n** | Do not run module program (if any). |
| **-R** | Operate recursively (default). |
| **-r *rev*** | Commit to *rev*. |

## diff

Syntax: **diff [*options*] [*files*]**

Used for: Showing differences between revisions. In addition to the options shown here, accepts a wide variety of options to control output style—for example, **-c** for context diffs.

| Option/Argument | Purpose |
|---|---|
| **-D *date1*** | Diff revision for *date1* against working file. |
| **-D *date2*** | Diff *rev1*/*date1* against *date2*. |
| **-l** | Local; run only in current working directory. |
| **-R** | Operate recursively (default). |
| **-r *rev1*** | Diff revision for *rev1* against working file. |
| **-r *rev2*** | Diff *rev1*/*date1* against *rev2*. |

## edit

Syntax: **edit [*options*] [*files*]**

Used for: Getting ready to edit a watched file.

| Option/Argument | Purpose |
|---|---|
| **-a *actions*** | Specify actions for temporary watch, where ***actions*** is **edit**, **unedit**, **commit**, **all**, or **none**. |
| **-l** | Local; run only in current working directory. |
| **-R** | Operate recursively (default). |

## editors

Syntax: **editors [*options*] [*files*]**

Used for: Seeing who is editing a watched file.

| Option/Argument | Purpose |
|---|---|
| **-l** | Local; run only in current working directory. |
| **-R** | Operate recursively (default). |

## export

Syntax: **export [*options*] *project(s)***

Used for: Exporting files from CVS.

| Option/Argument | Purpose |
|---|---|
| **-D *date*** | Check out revisions as of *date*. |
| **-d *dir*** | Check out into *dir*. |
| **-f** | Use head revision if tag/date not found. |
| **-k *kflag*** | Use *kflag* keyword expansion. |
| **-l** | Local; run only in current working directory. |
| **-N** | Don't shorten module paths if **-d** specified. |
| **-n** | Do not run module program (if any). |
| **-P** | Prune empty directories. |
| **-R** | Operate recursively (default). |
| **-r *tag*** | Check out revision *tag* (is sticky). |

## history

Syntax: **history [*options*] [*files*]**

Used for: Showing repository access history.

| Option/Argument | Purpose |
|---|---|
| **-a** | Apply to all users (default is self). |
| **-b *str*** | Back to record with *str* in module/file/repos field. |
| **-c** | Report on committed (modified) files. |
| **-D *date*** | Check out revisions as of *date*. |
| **-e** | Report on all record types. |
| **-f *file*** | Report the most recent event concerning a file. |
| **-l** | Last modified (committed or modified report). |
| **-m *module*** | Report on *module* (repeatable). |
| **-n *module*** | Check out revision in *module*. |
| **-o** | Report on checked out modules. |
| **-p *repository*** | Show data for a particular directory in the repository. |
| **-r *rev*** | Check out revision since revision *rev*. |
| **-T** | Produce report on all tags. |
| **-t *tag*** | Check out revision since *tag* record was placed in history file (by anyone). |
| **-u *user*** | Check out revisions for user *user* (repeatable). |
| **-w** | Working directory must match. |
| **-x *types*** | Report on *types*. |
| **-z *zone*** | Output for time zone *zone*. |

## import

Syntax: **import [*options*] *repository vendor_tag release_tag(s)***

Used for: Importing new sources into the repository, either creating a new project or a new vendor revision on a vendor branch of an existing project.

| Option/Argument | Purpose |
|---|---|
| **-b *branch*** | Import to vendor branch *branch*. |
| **-d** | Use the file's modification time as the time of import. |
| **-I *ign*** | Indicate files to ignore (! to reset). |
| **-k *kflag*** | Set default keyword substitution mode. |
| **-m *msg*** | Use *msg* for log message. |
| **-W *spec*** | Indicate which wrappers. |

## init

Syntax: **init**

Used for: Creating a CVS repository if it doesn't exist.

## log

Syntax: **log [*options*] [*files*]**

Used for: Printing out history information for files.

| Option/Argument | Purpose |
|---|---|
| **-b** | Only list revisions on the default branch. |
| **-d*dates*** | Specify dates (*d1*<*d2* for range, *d* for latest before). |
| **-h** | Only print header. |
| **-l** | Local; run only in current working directory. |
| **-N** | Do not list tags. |
| **-R** | Only print name of RCS file. |
| **-r*revs*** | Only list revisions *revs*. |
| **-s*states*** | Only list revisions with specified states. |
| **-t** | Only print header and descriptive text. |
| **-w*logins*** | Only list revisions checked in by specified logins. |

## login

Syntax: **login**

Used for: Prompting for password for authenticating server.

## logout

Syntax: **logout**

Used for: Removing stored password for authenticating server.

## rdiff

Syntax: **rdiff [*options*] *projects***

Used for: Showing differences between releases.

| Option/Argument | Purpose |
|---|---|
| **-c** | Use context diff output format (default). |
| **-D *date*** | Select revisions based on *date*. |
| **-f** | Use head revision if tag/date not found. |
| **-l** | Local; run only in current working directory. |
| **-R** | Operate recursively (default). |
| **-r *rev*** | Select revisions based on *rev*. |
| **-s** | Show differences in "short patch form"—one line per file. |
| **-t** | Show differences inthe top two diffs—last change made to the file. |
| **-u** | Use unidiff output format. |

## release

Syntax: **release [*options*] *directory***

Used for: Indicating that a directory is no longer in use.

| Option/Argument | Purpose |
|---|---|
| **-d** | Delete the given directory. |

## remove

Syntax: **remove [*options*] [*files*]**

Used for: Removing an entry from the repository.

| Option/Argument | Purpose |
|---|---|
| **-f** | Delete the file before removing it. |
| **-l** | Local; run only in current working directory. |
| **-R** | Operate recursively (default). |

## rtag

Syntax: **rtag [*options*] *tag project(s)***

Used for: Adding a symbolic tag to a module.

| Option/Argument | Purpose |
|---|---|
| **-a** | Clear tag from removed files that would not otherwise be tagged. |
| **-b** | Create a branch named *tag*. |
| **-D *date*** | Tag revisions as of *date*. |
| **-d** | Delete the given tag. |
| **-F** | Move tag if it already exists. |
| **-f** | Force a head revision match if tag/date not found. |
| **-l** | Local; run only in current working directory. |
| **-n** | No execution of tag program. |
| **-R** | Operate recursively (default). |
| **-r *tag*** | Tag existing tag *tag*. |

## status

Syntax: **status [*options*] [*files*]**

Used for: Displaying status information in a working directory.

| Option/Argument | Purpose |
|---|---|
| **-l** | Local; run only in current working directory. |
| **-R** | Operate recursively (default). |
| **-v** | Include tag information for file. |

## tag

Syntax: **tag [*options*] *tag* [*files*]**

Used for: Adding a symbolic tag to checked out version of files.

| Option/Argument | Purpose |
|---|---|
| **-b** | Create a branch named *tag*. |
| **-D *date*** | Tag revisions as of *date*. |
| **-d** | Delete the given tag. |
| **-F** | Move tag if it already exists. |
| **-f** | Force a head revision match if tag/date not found. |
| **-l** | Local; run only in current working directory. |
| **-n** | No execution of tag program. |
| **-R** | Operate recursively (default). |
| **-r *tag*** | Tag existing tag *tag*. |

## unedit

Syntax: **unedit [*options*] [*files*]**

Used for: Undoing an edit command.

| Option/Argument | Purpose |
|---|---|
| **-l** | Local; run only in current working directory. |
| **-R** | Operate recursively (default). |

## update

Syntax: **update [*options*] [*files*]**

Used for: Bringing work tree in sync with repository.

| Option/Argument | Purpose |
|---|---|
| **-A** | Reset any sticky tags/date/options. |
| **-D *date*** | Check out revisions as of *date* (is sticky). |
| **-d** | Create directories. |
| **-f** | Use head revision if tag/date not found. |
| **-I *ign*** | Ignore these files while syncing (! to reset). |
| **-j *rev*** | Merge in changes. |
| **-k *kflag*** | Use *kflag* keyword expansion. |
| **-l** | Local; run only in current working directory. |
| **-P** | Prune empty directories. |
| **-p** | Check out files to standard output (avoids stickiness). |
| **-R** | Operate recursively (default). |
| **-r *tag*** | Check out revision *tag* (is sticky). |
| **-W *spec*** | Use these wrappers. |

## watch

Syntax: **watch on|off|add|remove [*options*] [*files*]**

Used for: Turning on/off, or adding/removing a watch on read-only files.

| Option/Argument | Purpose |
|---|---|
| **-a *actions*** | Specify actions for temporary watch, where ***actions*** is **edit**, **unedit**, **commit**, **all**, or **none**. |
| **-l** | Local; run only in current working directory. |
| **-R** | Operate recursively (default). |

## watchers

Syntax: **watchers [*options*] [*files*]**

Used for: Seeing who is watching a file.

| Option/Argument | Purpose |
|---|---|
| **-l** | Local; run only in current working directory. |
| **-R** | Operate recursively (default). |