## References

- [http://www.cvshome.org/](http://www.cvshome.org/)
- [http://www.tortoisecvs.org/](http://www.tortoisecvs.org/)
- Stremler’s remote CVS on Rohan page
  - [http://www-rohan.sdsu.edu/~stremler/CS530/AS1/remote_cvs.html](http://www-rohan.sdsu.edu/~stremler/CS530/AS1/remote_cvs.html)
- UCB InfoSys 255 course information on CVS & Eclipse
  - [http://www.sims.berkeley.edu/academics/courses/is255/f04/labs/lab090904/CVSHowTo/eclipseCvsHowTo.html](http://www.sims.berkeley.edu/academics/courses/is255/f04/labs/lab090904/CVSHowTo/eclipseCvsHowTo.html)
- CVS Eclipse Plug-in FAQ
  - [http://dev.eclipse.org/viewcvs/index.cgi/%7Echeckout%7E/platform-vcm-home/docs/online/cvs_features2.0/cvs-faq.html](http://dev.eclipse.org/viewcvs/index.cgi/%7Echeckout%7E/platform-vcm-home/docs/online/cvs_features2.0/cvs-faq.html)

## Books

- Manual
- There are a number of books on CVS
  - Pragmatic Version Control by Thomas & Hunt
Concurrent Versions System

Command line interface in Unix

Various interfaces in Windows

For remote access need
  Client
  Server
<table>
<thead>
<tr>
<th>TortoiseCVS</th>
<th>CVS &amp; Eclipse</th>
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<tbody>
<tr>
<td>Nice CVS client and Server for Windows</td>
<td>Eclipse has a GUI interface for accessing CVS repositories</td>
</tr>
<tr>
<td>Adds CVS menu options in Windows Explorer</td>
<td>Can access local &amp; remote CVS repositories</td>
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<tr>
<td>Can use Rohan as remote server</td>
<td>See</td>
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<td>CVS Eclipse Plugin- FAQ</td>
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http://www.tortoisecvs.org/
CVS Issues

Initial setup
Creating new Project
Adding files
Versions
Branches
Remote Access
CVS On Unix
CVS Root on Unix

One Time Only

To store your own files you need a cvs root (repository)

cvs -d cvsLocation init

Example

cvs -d /home/ma/whitney/cvsRoot init

On Rohan cvs commands are in

/usr/local/bin
Starting a New Project

rohan-> mkdir xmlrpcClient
rohan-> cd xmlrpcClient/
rohan-> cvs import -m "start assn1" cs580/xmlrpcClient yoyo start
cvs -d /home/ma/whitney/cvsRoot checkout C/D/Project2

cvs -d /home/ma/whitney/cvsRoot co C/D/Project2

cvs co C/D/Project2 #set CVSROOT

cvs co p2 #Create module
Setting CVSROOT

For tcsh or csh in .cshrc or .login file add a line

    setenv CVSROOT /home/ma/whitney/cvsRoot

For other shells you may need to use:

    set CVSROOT="/home/ma/whitney/cvsRoot"
Creating a CVS shortcut or Module

Get modules file

rohan-> cd ..

rohan-> cvs checkout CVSROOT/modules
rohan-> cd CVSROOT/
rohan-> ls
CVS/ modules

Edit modules file

Add the following line at the end the file

assn1 cs580/xmlrpcClient

Commit the changes

rohan-> cvs commit -m "Added assn1 module" modules

Release the module file

rohan-> cd ..
rohan-> cvs release -d CVSROOT/
Getting assn1 Project

rohan-> **cvs checkout assn1**
rohan-> cd assn1
rohan-> ls
CVS/
Adding Files

Create a file called client.java using an editor

Tell cvs about the file

rohan-> **cvs add -m "main client file" client.java**

Commit any changes

rohan-> **cvs commit -m "added main"**
cvs commit: Examining .
RCS file: /home/ma/whitney/cvsRoot/cs580/xmlrpcClient/client.java,v
done
Checking in client.java;
/home/ma/whitney/cvsRoot/cs580/xmlrpcClient/client.java,v <-- client.java
initial revision: 1.1
done
Accessing the log data

rohan-> **cvs log**
cvs log: Logging.

RCS file: /home/ma/whitney/cvsRoot/cs580/xmlRpcClient/client.java,v
Working file: client.java
head: 1.2
branch:
locks: strict
access list:
symbolic names:
keyword substitution: kv
total revisions: 2; selected revisions: 2
description:
main client file

-----------------------------
revision 1.2
date: 2002/09/12 22:45:17; author: whitney; state: Exp; lines: +2 -0
added foobar method
-----------------------------
revision 1.1
date: 2002/09/12 22:44:16; author: whitney; state: Exp;
added main
Comparing Files

rohan-> **cvs diff -r 1.1 -r 1.2 client.java**
Index: client.java
============================================
RCS file: /home/ma/whitney/cvsRoot/cs580/xmlrpcClient/client.java,v
retrieving revision 1.1
retrieving revision 1.2
diff -r1.1 -r1.2
1a2,3
> // main
> // more code
Files by Date

rohan-> `cvs checkout -D yesterday assn1`

rohan-> `cvs checkout -D "2002-9-11 20:00" assn1`

rohan-> `cvs checkout -D "2002-9-11" assn1`

rohan-> `cvs checkout -d "1 hour ago" assn1`
Files by Version

rohan-> cvs checkout -r 1.1 assn1
Creating a Branch

rohan->cvs co assn1
rohan->cd assn1
rohan->**cvs tab -b branchA**

Branch now created, but is in repository
Must check out branch to work on it

    cvs co -r branchA assn1
Merging

Check out a branch
cvs co assn1

Merge another branch
cvs update -j branchA assn1

Now edit files to resolve conflicts
Remote Access to CVS via Unix

For complete instructions see the page by Stewart Stremler:
http://www-rohan.sdsu.edu/~stremler/CS530/AS1/remote_cvs.html

Set CVS_RSH

setenv CVS_RSH /usr/bin/ssh

Set the CVSROOT environment variable

The general format is:

:ext:username@servermachine:/absolutePathToCVSRoot

For example I use:

setenv CVSROOT :ext:whitney@rohan.sdsu.edu:/home/ma/whitney/cvsRoot
Remote Access to Rohan CVS using TortoiseCVS

Right-click on Windows Explorer window
Select "CVS Checkout"

Protocol: Secure shell (:ext:)
Server: rohan.sdsu.edu
Port: (keep blank)
Repository folder: /Full/path/to/your/repository
Username: your rohan login

Must select a Module

To avoid having to enter password each time see:
http://www.tortoisecvs.org/faq.html#sshkeys