CS5010 (PDP) Subversion Reference

Getting Subversion

A Subversion client may be downloaded at:
http://subversion.tigris.org/

Binaries are available for several systems such as Windows, Mac OS X, and Linux. If you have Windows, for example, you can follow the link to “Windows binaries.” If you have Linux or Mac OS X, Subversion is likely pre-installed. On the NEU CCS Windows computers, the TortoiseSVN client is already installed.

You can confirm your Subversion installation by running it at your system’s command prompt:

% svn help

usage: svn <subcommand> [options] [args]
Subversion command-line client, version 1.5.4.

Command Reference

SVN Book

There is a comprehensive book about Subversion available at:
http://svnbook.red-bean.com/

Chapter 1 (Fundamental Concepts) gives a high-level description of how Subversion works. Chapter 2 (Basic Usage) covers all the commands you will need for this course.

Essential Commands

A brief description of some essential commands are given below:

help [command]
Displays usage information for the command command.

status [files or directories]
Displays information about changes since your last commit. (See also: log and diff.)

add [files or directories]
Places files or directories under svn’s control. Use this command when first creating a file. (This has no effect on the repository until you commit! See also: rm, mkdir, mv, and cp.)

SVN in PDP

Each pair has been assigned a Subversion repository such as pair987. In the following examples, $PAIR stands in for your pair repository name.

Your Subversion repository URL is:
https://trac.ccs.neu.edu/svn/cs5010fall2009/$PAIR/

Check it out with the command:

% svn checkout https://trac.ccs.neu.edu/svn/cs5010fall2009/$PAIR/

This creates a working copy of your repository in a new directory named $PAIR. If you want a different directory name, specify it as an option after the repository url.

Each homework assignment (1, 2, …, $n) must have a corresponding hand-in directory (set1, set2, …, set$n) in the root of your repository, which you may need to create (see svn help mkdir). For the first homework set, we have created set1 for you. You should find it in your working copy that you check out.

Each required problem must be placed in its own file whose name corresponds to its number. For Problem Set 1, you will write your solutions in files 1.scm, 2.scm, 3.scm, and 4.scm in your set1 directory. Be sure to put the relevant files under SVN version control (see svn help add). You may also include an ASCII text file readme.txt.

You submit your homework by placing the required files in the appropriate hand-in directory and committing them to the repository (see svn help commit).

We collect your homework by grabbing a snapshot of whatever you have submitted in the hand-in directory as of the deadline.

We strongly recommend that you use svn throughout the development of the homework solution. It is the most convenient, reliable and safe way to backup and manage your work and share your files with your homework partner. Commit your work as often as possible. This way you can have access to it from different machines without using any physical storage or email and without the fear of unintentionally overwriting your files and losing your work.