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Subversion Quickstart with SmartSVN

Requirements

- Java installed
- SmartSVN from <http://www.smartcvs.com/smartsvn/> - does not require installation
- Access to the internet

Overview

- Click on <http://smartcvs.com/download/smartsvn/webstart/smartsvn.jnlp> to run (no installation necessary, you only need Java and Webstart installed) the SmartSVN client
- While you wait, read "Book excerpt quickstart". It explains how to use Subversion from the command line, but the concepts (and terminology) apply as-is to any GUI.
- Then, read "Walkthru SmartSVN" to guide you how to do the next couple of steps in SmartSVN
- Start by checking out the test repository <http://repository.ciser.cornell.edu/public/test> (you type this into SmartSVN directly)
- Create a branch (a new directory) within the local copy of the repository
- Move code to the workspace, using whatever editors/tools/etc you are comfortable with
- Use SmartSVN to "add" that code to your repository
- "Check-in" the code to the repository

Book excerpt quickstart

This is taken from <http://svnbook.red-bean.com/en/1.1/ch01s07.html> :

In order to start manipulating repository data, you need to create a new “working copy” of the data, a sort of private workspace. Ask Subversion to “check out” a working copy of the repository's trunk directory:

```
-----  
$ svn checkout file:///path/to/repos/trunk project  
A project/foo.c  
A project/bar.c  
A project/Makefile  
...  
Checked out revision 1.  
-----
```

Now you have a personal copy of part of the repository in a new directory named project. You can edit the files in your working copy and then commit those changes back into the repository.

- * Enter your working copy and edit a file's contents.
- * Run `svn diff` to see unified diff output of your changes.
- * Run `svn commit` to commit the new version of your file to the repository.
- * Run `svn update` to bring your working copy "up-to-date" with the repository.

For a full tour of all the things you can do with your working copy, read Chapter 3, Guided Tour (<http://svnbook.red-bean.com/en/1.1/ch03.html>).

Walkthru SmartSVN

Somebody should add screenshots and links to definitions of Subversion terms.

- On first run, accept license
- On first run, select "Foundation Version" (the free one)
- You will be prompted by a Wizard. Select "Check out project from Repository"
- In the "Check out" screen, select "Manage"
- In the "Manage" screen, select "Add"
- In the "Add Repository Profile", select "Enter SVN URL..."
- Enter the test repository URL:

```
http://repository.ciser.cornell.edu/public/test
```

- Click OK
- Select "User Name/Password"
- Enter the same login/password combination as for the Wiki
- (Optionally) "Store password on disk"
- Click OK multiple times, then click "Next". SmartSVN will query the repository for contents, and show something like this:

```
+ branches
+ releases
+ trunk
```

- Select the level you want to check out. We will assume you check out everything ("HEAD"). SmartSVN should be creating a directory structure like this:

```
/branches
/releases
/trunk
```

- Select Next, and
 - choose a local directory ("Desktop/SubversionWorkspace" is a good choice).
 - Select (for good practice), "Into subdirectory" and enter the name of the project
 - Click Next
- Enter the name of the project as you want to remember it on your computer. "Test" might be a good choice here. The default selections are OK here. Click Next.
- Click Finish. SmartSVN will now fetch ("check out") the data in the repository

You can now edit directly, using SmartSVN's editor, or simply use your favorite editor. You can also move files into and out of the directory, but be careful what SVN tracks. New files need to be declared, and to delete a file in the repository (in this revision), you need to make SVN aware of that too. These are right-click options in SmartSVN:

- Rename
- Remove (delete physically removes the file, remove makes SVN aware of a deletion)
- Add (make SVN aware of a new file)

You can verify how your changes appear on the server by going to

<http://repository.ciser.cornell.edu/viewcvs-public/test>

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- This page was last modified 11:29, 7 Dec 2005.
- This page was last modified 11:29, 7 Dec 2005 by Lars Vilhuber.