

Subversion Quick-Start Guide

Last Updated 03 Oct 2011

The following is a quick guide to using Subversion to maintain the FLTK code.

Contents

- [Subversion for CVS Users](#)
- [Subversion Software](#)
- [Retrieving Software From the SVN Server](#)
- [Updating the Software](#)
- [Adding, Moving, and Removing Files](#)
- [Checking Your Changes In](#)
- [Creating Patch Files](#)
- [Miscellaneous Admin Commands](#)

Subversion for CVS Users

If you are already familiar with the CVS software, you will find that Subversion is very similar. You'll use the `svn` command instead of `cv`s, and if you set your `CVSE`EDITOR environment variable, just set the `SVN_EDITOR` environment variable to the same thing. The following table maps CVS commands to Subversion:

CVS Command	Subversion Command
<code>cv</code> s -d <i>repos</i> get fltk	<code>svn co repos/trunk fltk</code>
<code>cv</code> s update -dP	<code>svn update</code>
<code>cv</code> s add name	<code>svn add name</code>
<code>rm -f name</code> <code>cv</code> s remove name	<code>svn remove name</code>
<code>mv name newname</code> <code>cv</code> s remove name <code>cv</code> s add newname	<code>svn move name newname</code>
<code>cv</code> s commit	<code>svn commit</code>
<code>cv</code> s diff	<code>svn diff</code>
<code>cv</code> s -d <i>repos</i> get -r foo fltk	<code>svn co repos/branches/foo fltk</code> <code>svn co repos/releases/foo fltk</code>
<code>cv</code> s update -r foo	<code>svn switch repos/branches/foo</code> <code>svn switch repos/releases/foo</code>
<code>cv</code> s tag foo	<code>svn copy repos/releases/foo</code>
<code>cv</code> s tag -b foo	<code>svn copy repos/branches/foo</code>

repos = `username@cv`s.sf.net:/cvsroot/fltk for CVS and
`https://svn.easysw.com/public/fltk/fltk` for Subversion.

Subversion Software

To download source code from the ESP Subversion server you will need the the Subversion (SVN) software for your system. Most Linux distributions include SVN, and Xcode 1.5 and higher supports SVN on MacOS

X. The SVN software can be found at the following sites:

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

The latter site provides a GUI interface for Microsoft Windows.

Retrieving Software From the SVN Server

To retrieve, or check out, the software, use one of the following commands:

FLTK 1.1.x:

```
svn co https://svn.easysw.com/public/ftlk/ftlk/branches/branch-1.1 fltk-1.1 ENTER
```

FLTK 2.x (in development):

```
svn co https://svn.easysw.com/public/ftlk/ftlk/trunk fltk ENTER
```

FLTK Applications (in development):

```
svn co https://svn.easysw.com/public/ftlk/applications/trunk fltk ENTER
```

FLTK Web Site:

```
svn co https://svn.easysw.com/public/ftlk/www/trunk fltk ENTER
```

Updating the Software

To update your local copy of the source code, run the following command:

```
svn update ENTER
```

Adding, Moving, and Removing Files

Note: All of these commands act on your local copy of the files. Your changes will not be saved on the server until you commit them.

To add a file, run the following command:

```
svn add filename ENTER
```

To move a file, run the following command:

```
svn move filename newfilename ENTER
```

To remove a file, run the following command:

```
svn remove filename ENTER
```

Don't forget to commit your changes when you are done.

Subversion Quick-Start Guide - Fast Light Toolkit (FLTK)

When adding a source file (Makefile, .cxx, etc), set the properties before commit:

```
svn add foo.cxx
svn propset svn:eol-style "native" foo.cxx ENTER
svn propset svn:keywords "author date id revision" foo.cxx ENTER
```

When adding a binary file (eg. images), set the properties before commit:

```
svn add foo.png
svn propset svn:mime-type "application/octet-stream" foo.png ENTER
```

Adding a new directory:

```
mkdir examples ENTER
cp foo.cxx examples/ ENTER
cp bar.cxx examples/ ENTER
svn add examples ENTER
```

Checking Your Changes In

To commit your changes to the server for everyone to see, run the following command:

```
svn commit ENTER
```

Creating Patch Files

To prepare a patch file for submission to the FLTK team, run the following command:

```
svn diff >filename.patch ENTER
```

Miscellaneous Administration Commands

To list all the tags for fltk:

```
svn ls http://svn.easysw.com/public/fltk/fltk/tags/ ENTER
```

To get the revision/date info for a specific fltk release:

```
svn info http://svn.easysw.com/public/fltk/fltk/tags/release-1.3.0 ENTER
```

See the changes in a specific revision:

```
svn diff -c 7496 ENTER
```

To rename a file:

```
svn rename old.cxx new.cxx ENTER
```

To revert a rename (before being committed):

```
svn revert old.cxx ENTER
svn revert new.cxx ENTER
```

Subversion Quick-Start Guide - Fast Light Toolkit (FLTK)

```
rm new.cxx ENTER
```

View the properties on a file

```
svn pl -v foo.cxx ENTER
```