

Figure 2: Checking out a repository with KDESvn.

ing, I commit modifications made to the document back to the repository. At this stage, Subversion creates a new version of the document in the repository and records all the changes made to it. The good news is that all this is done transparently, with Subversion doing its job behind the scenes.

Once you've checked a document out, the important question is how often you should commit modifications to the repository. Because Subversion does not limit how many versions of a particular document you may have, it is completely up to you how often you perform commits. A rule of thumb is to commit modifications every time you make significant changes to your document that you might want to undo later.

Getting Started with Subversion

Now that you know the basics, you can put Subversion to use. First you must install the required software. Most Linux distributions have Subversion in their package repositories, so you can install the tool easily with your distribution's package manager (Figure 1). On Ubuntu, you can install Subversion with the `apt-get install subversion` command.

Besides Subversion itself, you should install a graphical SVN client, which makes it significantly easier to commit changes and manage document versions. If you are using KDE, KDESvn is your best bet. KDESvn is not only a powerful and easy-to-use SVN client, but it also integrates nicely with KDE so you

can, for example, access Subversion commands in Konqueror. On some distributions, such as PCLinuxOS, you must install the `kdesvn-kio-plugins` package that provides this integration.

With all the pieces in place, it is time to create your first repository. As an example, you can create a repository for a book consisting of three directories

for each book chapter, with a `.odt` document in each directory. First, create a temporary folder (e.g., `temp`) in your home directory. In the `temp` directory, create a `chapters` directory with three folders in it: `chapter1`, `chapter2`, and `chapter3`. Then create three Writer documents – `chapter1.odt`, `chapter2.odt`, and `chapter3.odt` – and move them into the respective chapter folders. Next, you must create an empty `book` repository in your home directory with the command

```
svnadmin create ~/book
```

and then move the contents of the `temp` directory into the `book` repository with the import command:

```
svn import ~/temp \
file:///home/dmpop/book -m \
"Initial import"
```

Delete the `temp` directory and your first Subversion repository is ready to go. The next step is to check out one or several chapters you want to edit, which you can do from the command line or with the KDESvn client if you prefer the GUI way (Figure 2). Next, right-click on the `book` directory in Konqueror and choose `Open With | kdesvn` to check out all the chapters at once.

In KDESvn, right-click on the `chapters` folder and choose the `Checkout current repository` path command. Next, select the target directory (for example, your home directory) and press `OK`: You should then see the checked-out `chapters` folder in the specified directory. In a similar way, you can check out only a single chapter; to do so, select the desired chapter in KDESvn and use the described checkout procedure.

Once the documents are checked out, you can work with them in a normal manner. Use Konqueror or work directly from within KDESvn, which automatically switches to the checked-out directory. When you need to commit document modification, open the checked-out directory in KDESvn. The modified documents should be highlighted in red with their status set to "Locally modified" (Figure 3).

Selecting edited documents one by one and pressing the `Commit` button will

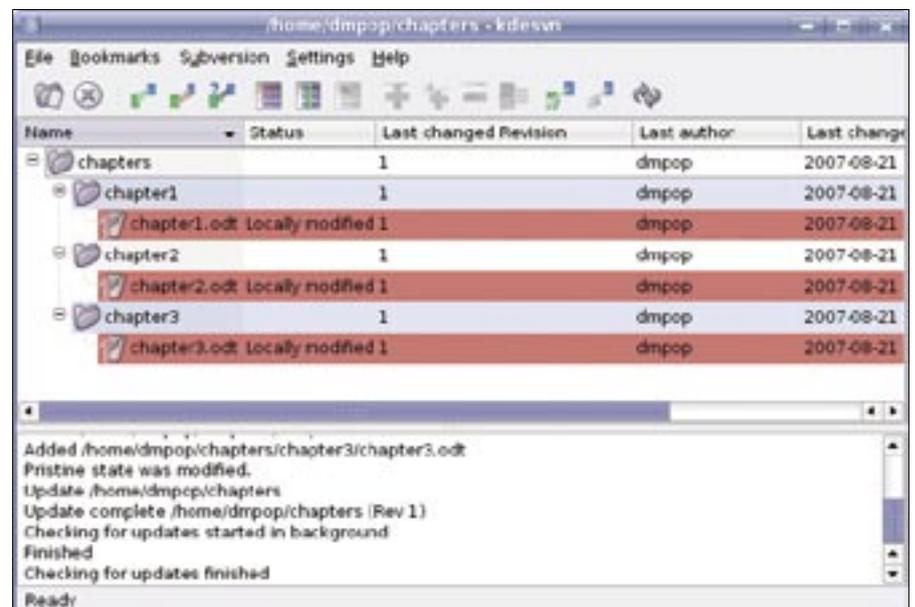


Figure 3: KDESvn conveniently highlights the modified documents.

commit modifications. This allows you to enter short descriptions of the changes for each document. Alternatively, you can select the root directory (i.e., the *chapters* folder) and press the *Commit* button to commit all changes in one fell swoop. Because KDesVn integrates tightly with KDE, you can commit changes using a context menu. For example, to commit changes to the *chapter1.odt* document, right-click on it and choose *Actions | Subversion (kdesvn) | KDesVn Commit*.

OOoSVN: Using Subversion with OpenOffice.org

Once you have learned the ropes, Subversion is rather straightforward. However, if you want to use Subversion to keep track of your OpenOffice.org documents only, OOoSVN [2] is the perfect tool for the job. This extension adds a new menu containing all the essential Subversion commands in OpenOffice.org's main toolbar.

To install OOoSVN, download the latest release of the extension, choose *Tools | Extension Manager* in OpenOffice.org, press *Add*, point to the downloaded zip file, and press *OK*. Restart OpenOffice.org, and you should see the SVN menu in the main toolbar. To configure OOoSVN, choose *Place under version control* from the SVN menu. OOoSVN then prompts you to run a setup routine that sets up a repository and moves the currently opened document into it (Fig-



Figure 5: OOoSVN offers a few handy commands.

ure 4). Once OOoSVN is configured, you can use it to commit changes, and more. For example, the *Compare with older/newer version* selection allows you to compare two versions of the document using OpenOffice.org's own Compare feature (Figure 5).

Final Word

In this article, I covered only the most basic features of Subversion, although you can do much more with the tool. A web front-end added to your Subversion

installation will allow you to access your documents from anywhere. For a detailed description of how this can be done, check the How-To Geek's tutorial [3]. Also, you can add more users, thus turning your Subversion system into a powerful collaboration platform. No matter how you want to use Subversion, the online *Version Control with Subversion* book [4] will help you to get the most out of this software. ■

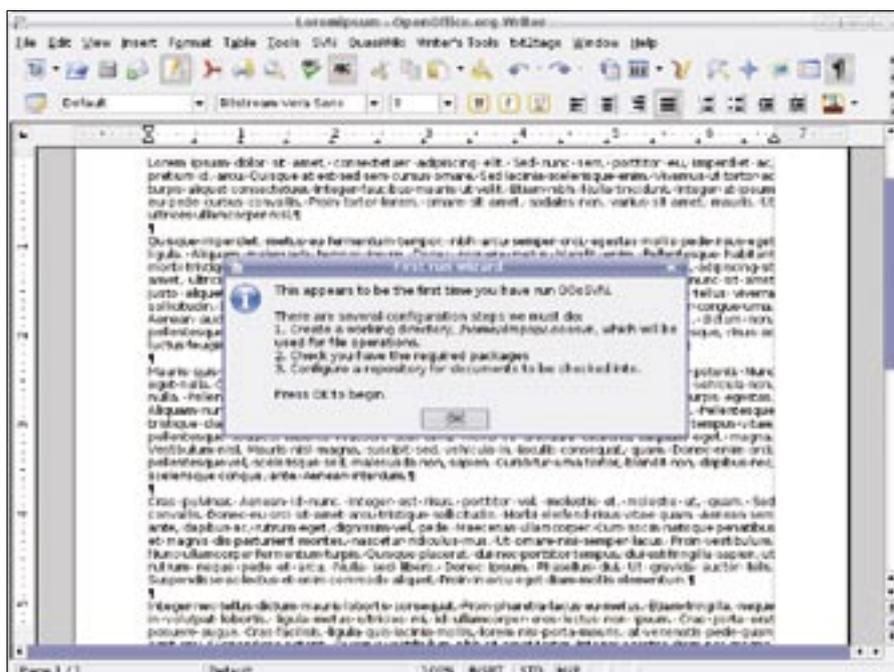


Figure 4: OOoSVN includes a setup wizard that does all the heavy lifting for you.

INFO

- [1] Subversion: <http://subversion.tigris.org/>
- [2] OOoSVN: <http://sourceforge.net/projects/ooosvn/>
- [3] Install Subversion with web access on Ubuntu: <http://tinyurl.com/2v6of8>
- [4] Collins-Sussman, Ben, Fitzpatrick, Brian W., and Pilato, C. Michael. *Version Control with Subversion*. O'Reilly Media, 2004. <http://svnbook.red-bean.com/>

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