Obtaining a local copy

svn checkout URL_rep
svn checkout URL_rep dir   use the local directory dir to store local copy

Adding files and directories

svn add file1 file2 ...
svn add dir   manage the directory dir and **add all its con-tent**
svn add -N dir   manage the directory dir **but not its content**

Commiting changes to the repository

svn commit -m "**commit** message"

Updating the local copy

svn update

Seeing differences between two versions

svn diff file   see differences between the local version of file and
                           the one on the repository
svn diff -rn1:n2 file   see differences between revisions n1 and n2 for file

Seeing commit messages

svn log
svn log file   see messages about file

Reverting local changes

svn revert file
svn revert   for all local changes

Files and directories status

When calling **svn** status, files and directories are listed with a character signifying:

?   file not versioned
A   file added
D   file removed
U   file updated
C   there are conflits on the file
R   file has been replaced
G   file has been merged
!   file is missing or incomplete

Obtaining help

svn help command

Configuring editor

The editor used for commit messages etc. is managed by the EDITOR environment variable (gedit by default). To change it:

export EDITOR=path_to_editor

File conflicts syntax

```
<<<<<<< .mine
What is in my local version
=======
What is in the repository
>>>>>>> .rn
```

Resolving conflicts on `file.txt`

svn resolve --accept ARG file.txt where ARG can be:

working	keep local version with *manual resolution*
mine-full	keep only local version
theirs-full	keep only repository version
mine-conflict	choose local version when conflict
theirs-conflict	choose repository version when conflict

Classical repository organization

trunk	main development line
branches	branches
tags	tags

Creating directories in repository

svn mdkir URL_repo/new_directory -m "**commit** message"

Managing branches

Managing branches or tags is just managing directories.

svn copy URL_repo/FROM URL_repo/DEST	copy directory FROM to directory DEST
svn checkout URL_repo/branches/BRANCH_NAME	checkout a branch/tag
svn merge URL_repo/branches/BRANCH_NAME	merge a branch/tag

References

[1]   *Apache Subversion*. URL: http://subversion.apache.org/.

[2]   B. Collins-Sussman, B. W. Fitzpatrick, and C. Michael Pilato. *Version control with Subversion*. O'Reilly, 2004. URL: http://svnbook.red-bean.com/.

[3]   The Subclipse Team. *Subclipse*. Plugin for Eclipse. 2014. URL: http://subclipse.tigris.org/.

[4]   The TortoiseSVN Team. *TortoiseSVN*. Graphical client for Windows. 2014. URL: http://tortoisesvn.net/.

[5]   The RabbitCSV Team. *RabbitCVS*. Graphical client for Linux. 2014. URL: http://rabbitvcs.org/.