

SVN - RESOLVE CONFLICTS

http://www.tutorialspoint.com/svn/svn_resolve_conflicts.htm

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Tom decides to add a README file for their project. So he creates the README file and adds TODO list into that. After adding this, the file repository is at revision 6.

```
[tom@CentOS trunk]$ cat README
/* TODO: Add contents in README file */

[tom@CentOS trunk]$ svn status
?      README

[tom@CentOS trunk]$ svn add README
A      README

[tom@CentOS trunk]$ svn commit -m "Added README file. Will update it's content in
future."
Adding      trunk/README
Transmitting file data .
Committed revision 6.
```

Jerry checks out the latest code which is at revision 6. And immediately he starts working. After a few hours, *Tom* updates README file and commits his changes. The modified README will look like this.

```
[tom@CentOS trunk]$ cat README
* Supported operations:

1) Accept input
2) Display array elements

[tom@CentOS trunk]$ svn status
M      README

[tom@CentOS trunk]$ svn commit -m "Added supported operation in README"
Sending      trunk/README
Transmitting file data .
Committed revision 7.
```

Now, the repository is at revision 7 and *Jerry's* working copy is out of date. *Jerry* also updates the README file and tries to commit his changes.

Jerry's README file looks like this.

```
[jerry@CentOS trunk]$ cat README
* File list

1) array.c Implementation of array operation.
2) README Instructions for user.

[jerry@CentOS trunk]$ svn status
M      README

[jerry@CentOS trunk]$ svn commit -m "Updated README"
Sending      trunk/README
svn: Commit failed (details follow):
svn: File or directory 'README' is out of date; try updating
svn: resource out of date; try updating
```

Step 1: View Conflicts

Subversion has detected that the README file has changed since last updated. So, *Jerry* has to update his working copy.

```
[jerry@CentOS trunk]$ svn up
Conflict discovered in 'README'.
Select: (p) postpone, (df) diff-full, (e) edit,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options:
```

Subversion is complaining that there is a conflict with the README file, and Subversion does not know how to solve this. So *Jerry* chooses the *df* option to review the conflict.

```
[jerry@CentOS trunk]$ svn up
Conflict discovered in 'README'.
Select: (p) postpone, (df) diff-full, (e) edit,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options: df
--- .svn/text-base/README.svn-base Sat Aug 24 18:07:13 2013
+++ .svn/tmp/README.tmp Sat Aug 24 18:13:03 2013
@@ -1,11 @@
-/* TODO: Add contents in README file */
+<<<<<<< .mine
+* File list
+
+1) array.c Implementation of array operation.
+2) README Instructions for user.
+=====
+* Supported operations:
+
+1) Accept input
+2) Display array elements
+>>>>>>> .r7
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options:
```

Step 2: Postpone Conflicts

Next *Jerry* chooses the *postpone* options, so that he can resolve the conflict.

```
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options: p
C    README
Updated to revision 7.
Summary of conflicts:
  Text conflicts: 1
```

After opening the README in text editor he realizes that Subversion has included both *Tom's* code and his code with conflict markers.

```
[jerry@CentOS trunk]$ cat README
<<<<<<< .min
* File list

1) array.c Implementation of array operation.
2) README Instructions for user.
=====
* Supported operations:

1) Accept input
2) Display array elements
>>>>>>> .r7
```

Jerry wants *Tom's* changes as well as his, so he just removes the lines containing the conflict markers.

So, the modified README will look like this.

```
[jerry@CentOS trunk]$ cat README
* File list

1) array.c Implementation of array operation.
2) README Instructions for user.

* Supported operations:

1) Accept input
2) Display array elements
```

Jerry resolved the conflict and he retries commit.

```
[jerry@CentOS trunk]$ svn commit -m "Updated README"
svn: Commit failed (details follow):
svn: Aborting commit: '/home/jerry/project_repo/trunk/README' remains in conflict

[jerry@CentOS trunk]$ svn status
?      README.r6
?      README.r7
?      README.mine
C      README
```

Step 3: Resolve Conflicts

In the above commit, the letter **C** indicates that there is a conflict in the README file. *Jerry* resolved the conflict but didn't tell Subversion that he had resolved the conflict. He uses the `resolve` command to inform Subversion about the conflict resolution.

```
[jerry@CentOS trunk]$ svn resolve --accept=working README
Resolved conflicted state of 'README'

[jerry@CentOS trunk]$ svn status
M      README

[jerry@CentOS trunk]$ svn commit -m "Updated README"
Sending          trunk/README
Transmitting file data .
Committed revision 8

Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```