CSC207 SVN Demo with images of directory structure
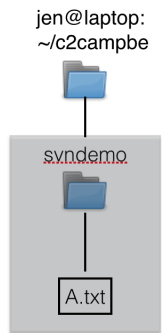
Note that comments follow the symbol #.
========== On Jen's laptop: =========

```
jen@laptop:~$ # Check out a local copy of the repository:
jen@laptop:~$ svn --username c2campbe co https://markus.cdf.toronto.edu/svn/csc207-2015-01/c2campbe
A    c2campbe/svndemo
Checked out revision 1.
jen@laptop:~$ cd c2campbe                 # Change to directory named c2campbe (the root of the repo).
jen@laptop:~/c2campbe$ cd svndemo          # Change to directory named svndemo.
jen@laptop:~/c2campbe/svndemo$ pico A.txt  # Create a file named A.txt with editor called pico.
jen@laptop:~/c2campbe/svndemo$ cat A.txt   # Display the content of the file named A.txt.
Alice
Bob

jen@laptop:~/c2campbe/svndemo$ svn status
?       A.txt                              # '?' means the file A.txt is not tracked by svn.
jen@laptop:~/c2campbe/svndemo$  svn add A.txt    # Flag the file A.txt for addition to the repo.
A       A.txt                              # 'A' means the file has flagged for addition.
jen@laptop:~/c2campbe/svndemo$ svn status
A       A.txt                              # 'A' means the file has flagged for addition.
jen@laptop:~/c2campbe/svndemo$ svn commit -m 'Alice and Bob'  # Commit the local changes to the master
Adding          svndemo/A.txt                                 # with the given log message.
Transmitting file data .
Committed revision 2.
jen@laptop:~/c2campbe/svndemo$ svn status       # There are no changes since last commit.
jen@laptop:~/c2campbe/svndemo$
```

The local copy on jen@laptop (at this point, the local copy is up-to-date):

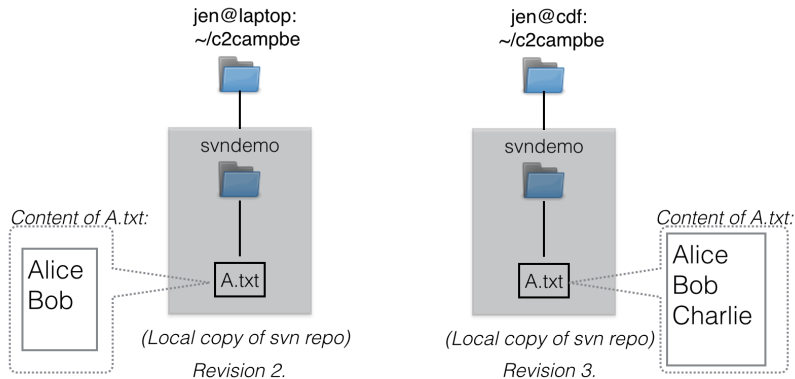
(Local copy of svn repo)

========== On CDF: =========

```
jen@cdf:~/c2campbe$ # The repository has already been checked out.
jen@cdf:~/c2campbe$ # The present working directory is the root directory of local copy of the repo.
jen@cdf:~/c2campbe$  svn update              # Update this local copy.
A    svndemo/A.txt
Updated to revision 2.
jen@cdf:~/c2campbe$ cd svndemo/              # Change to the directory named svndemo.
jen@cdf:~/c2campbe/svndemo$ ls               # List the content of this directory.
A.txt

jen@cdf:~/c2campbe/svndemo$ cat A.txt        # Display contents of file A.txt.
```

```
Alice
Bob

jen@cdf:~/c2campbe/svndemo$ pico A.txt              # Edit the file A.txt with an editor called pico.
jen@cdf:~/c2campbe/svndemo$ svn status             # Show whether there are changes since last commit
M       A.txt                                       # 'M' means the local copy of A.txt has been modified.
jen@cdf:~/c2campbe/svndemo$ svn commit -m 'added Charlie!'  # Commit the changes.
Sending        svndemo/A.txt
Transmitting file data .
Committed revision 3.
jen@cdf:~/c2campbe/svndemo$
```

The local copy on the laptop is at revision 2 and the one on CDF is at revision 3:
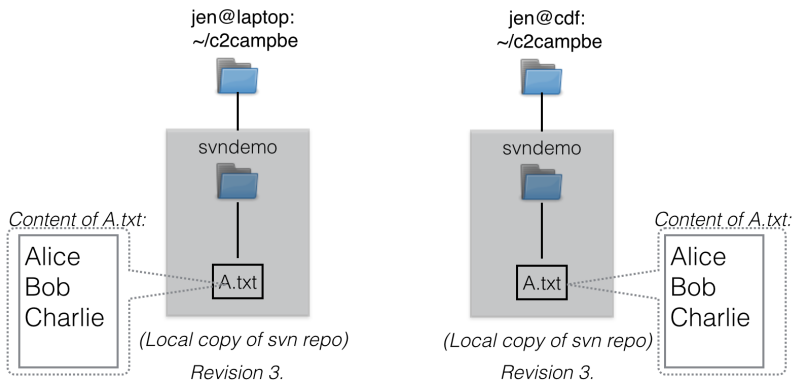

========== On Jen's laptop: =========

```
jen@laptop:~/c2campbe/svndemo$ svn update       # Update the local copy.
U    A.txt                                       # 'U' means the file has been updated.
Updated to revision 3.
jen@laptop:~/c2campbe/svndemo$ cat A.txt         # Display contents of file A.txt.
Alice
Bob
Charlie

jen@laptop:~/c2campbe/svndemo$
```

Now both local copies are at revision 3:
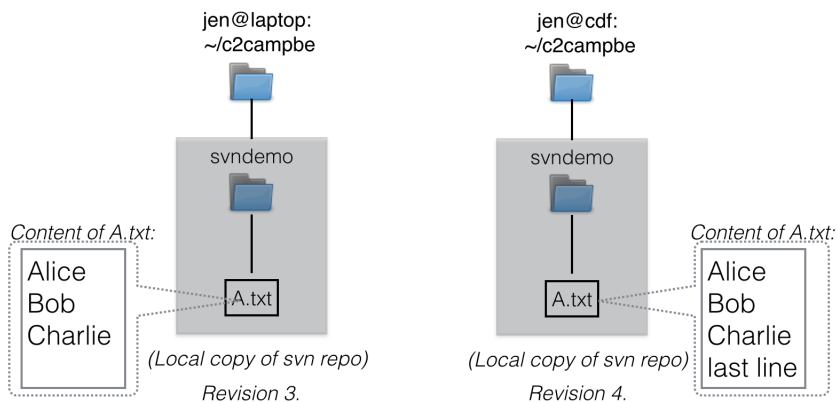

========== On CDF: =========

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```
jen@cdf:~/c2campbe/svndemo$ # Now let's create a conflict.
jen@cdf:~/c2campbe/svndemo$ pico A.txt         # Open the file A.txt with editor pico.
jen@cdf:~/c2campbe/svndemo$ cat A.txt          # Display contents of file A.txt.
Alice
Bob
Charlie
last line
jen@cdf:~/c2campbe/svndemo$ svn commit -m 'add last line'  # Commit the changes to the repo.
Sending        svndemo/A.txt
Transmitting file data .
Committed revision 4.
jen@cdf:~/c2campbe/svndemo$
```

One local copy is at revision 3 and the other is at revision 4:

========== On Jen's laptop: =========

```
jen@laptop:~/c2campbe/svndemo$ # Still at r3.
jen@laptop:~/c2campbe/svndemo$ pico A.txt                         # Edit r3 version of the file; add a 4th line.
jen@laptop:~/c2campbe/svndemo$ cat A.txt
Alice
Bob
Charlie
4th line
jen@laptop:~/c2campbe/svndemo$
```
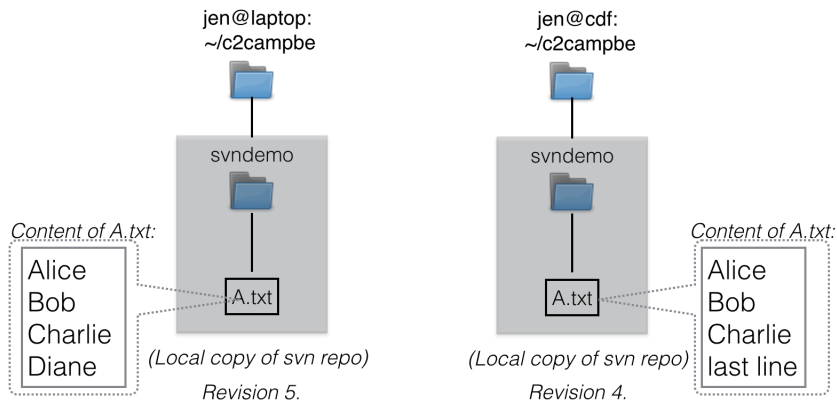
(Continues on next page)

```
jen@laptop:~/c2campbe/svndemo$ # Now, try to commit the modified version A.txt.
jen@laptop:~/c2campbe/svndemo$ svn commit -m 'a different last line'
Sending        svndemo/A.txt
svn: Commit failed (details follow):
svn: File or directory 'A.txt' is out of date; try updating
svn: resource out of date; try updating
jen@laptop:~/c2campbe/svndemo$ svn update                    # There was a conflict -- need to update.
Conflict discovered in 'A.txt'.
Select: (p) postpone, (df) diff-full, (e) edit,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options: e                             # I'm choosing the "edit" option
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options: r                  # After editing the last line, I'm selecting "resolved".
G    A.txt                                        # 'G' means merged.
Updated to revision 4.
jen@laptop:~/c2campbe/svndemo$ svn commit -m 'a new version of last line'
Sending        svndemo/A.txt
Transmitting file data .
Committed revision 5.
jen@laptop:~/c2campbe/svndemo$
jen@laptop:~/c2campbe/svndemo$ cat A.txt
Alice
Bob
Charlie
Diane
jen@laptop:~/c2campbe/svndemo$
```

One local copy is at revision 5 and the other is at revision 4:


```
========== On CDF: =========
```

```
jen@cdf:~/c2campbe/svndemo$ svn update
U    A.txt
Updated to revision 5.
jen@cdf:~/c2campbe/svndemo$ cat A.txt
Alice
Bob
Charlie
Diane
jen@cdf:~/c2campbe/svndemo$
```

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Both local copies are up-to-date (r5):

jen@laptop:
~/c2campbe

svndemo

Content of A.txt:

Alice
Bob
Charlie
Diane

A.txt

(Local copy of svn repo)

Revision 5.

jen@cdf:
~/c2campbe

svndemo

A.txt

Content of A.txt:

Alice
Bob
Charlie
Diane

(Local copy of svn repo)

Revision 5.