

SVN Instructions for Command Line Users

SVN Software Setup

If you do not have svn installed on your system already and you need assistance with installing packages on your system, please submit a service request or send an email to ssl-sysadmin@ssl.berkeley.edu.

In the following instructions, a line starting with the following symbol denotes a command to enter in the terminal

>

This symbol should not be typed into any terminal window. Also, the URL's that are only used for demonstration purposes. Please check with the SVN site admin for the URL you should use for each project repository.

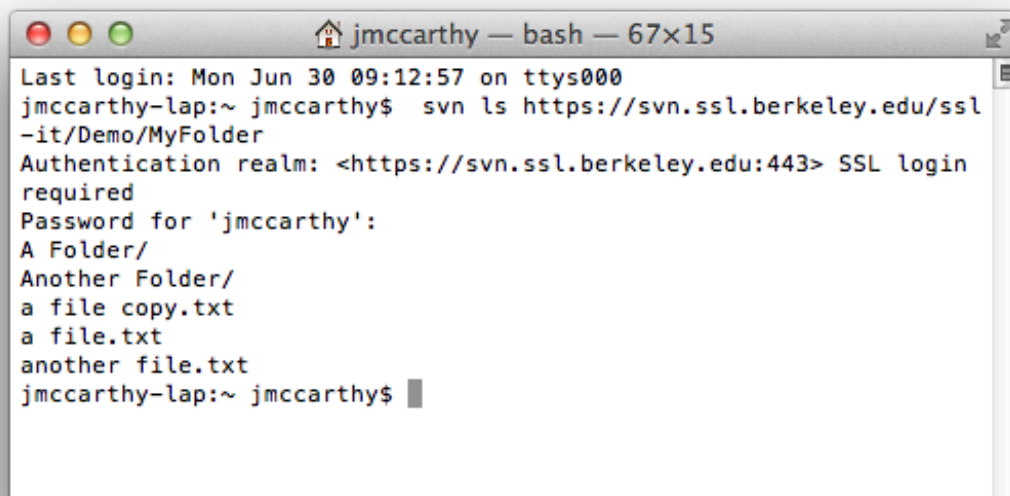
The "Commit message here" is to denote where text describing file/folder changes should be noted to track revision history. The commit message must be in ""

The term command shell and terminal can be used interchangeably in these instructions.

Browsing the SVN repository:

If you want to access only a specific file or folder and not all of the information in the link you provided use the following:

```
> svn ls https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder
```



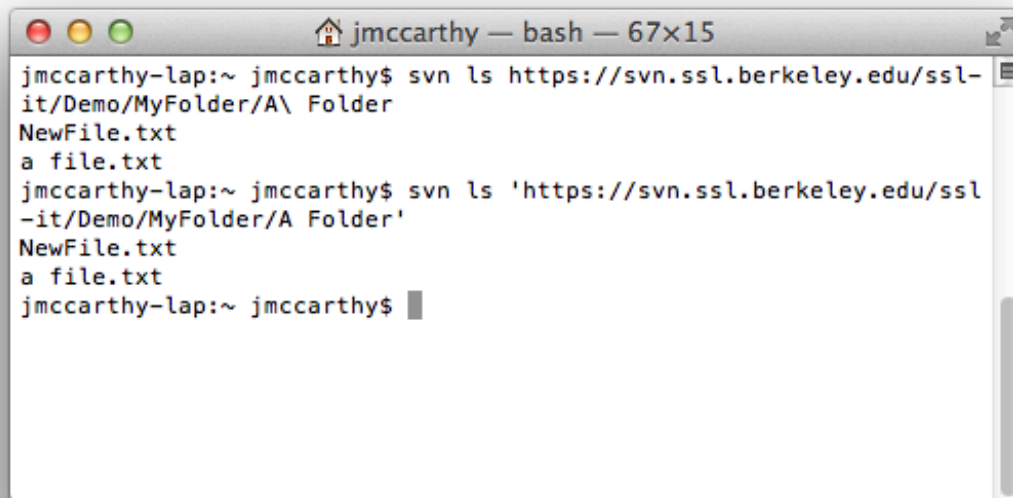
```
jmccarthy — bash — 67x15
Last login: Mon Jun 30 09:12:57 on ttys000
jmccarthy-lap:~ jmccarthy$ svn ls https://svn.ssl.berkeley.edu/ssl
-it/Demo/MyFolder
Authentication realm: <https://svn.ssl.berkeley.edu:443> SSL login
required
Password for 'jmccarthy':
A Folder/
Another Folder/
a file copy.txt
a file.txt
another file.txt
jmccarthy-lap:~ jmccarthy$
```

If you wanted to look into the folder "A Folder" you could do the following:

```
> svn ls https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A\ Folder
```

Or

```
> svn ls 'https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder'
```

A terminal window titled "jmccarthy — bash — 67x15" showing two successful SVN ls commands. The first command uses a backslash to escape the space in the folder name, and the second uses single quotes. Both return the same output: "NewFile.txt" and "a file.txt".

```
jmccarthy-lap:~ jmccarthy$ svn ls https://svn.ssl.berkeley.edu/ssl-  
it/Demo/MyFolder/A\ Folder  
NewFile.txt  
a file.txt  
jmccarthy-lap:~ jmccarthy$ svn ls 'https://svn.ssl.berkeley.edu/ssl  
-it/Demo/MyFolder/A Folder'  
NewFile.txt  
a file.txt  
jmccarthy-lap:~ jmccarthy$
```

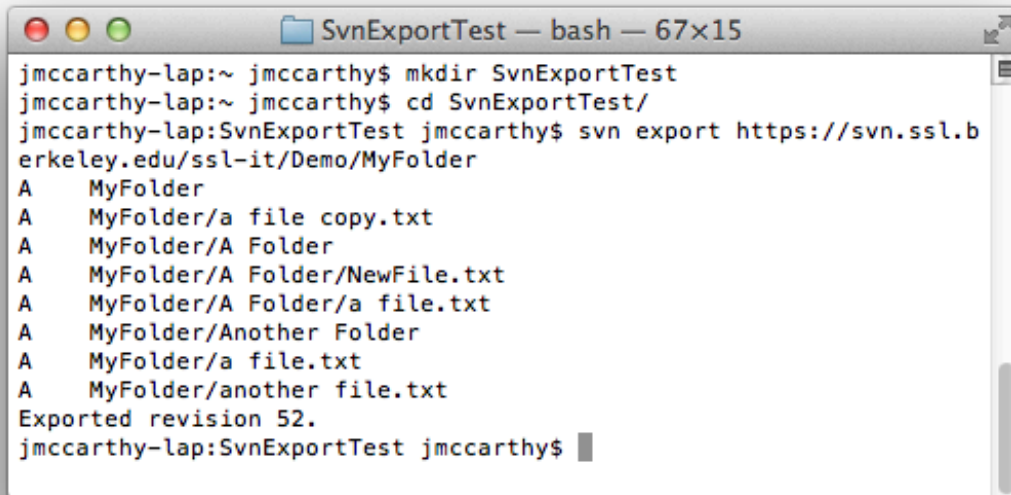
SVN Without a Local Repository Copy

If you do not need to modify any files/folders and only rarely need access, the following commands may suit your needs. Otherwise, the local repository copy is recommended.

-Copy a file/folder to your local system

```
> svn export https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder
```

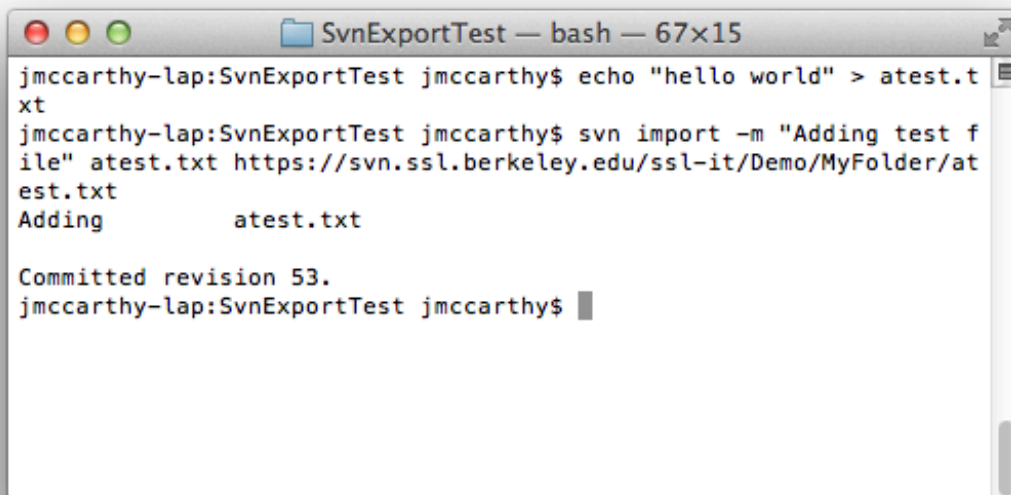
This will copy "MyFolder" into the current directory on the local system



```
jmccarthy-lap:~ jmccarthy$ mkdir SvnExportTest
jmccarthy-lap:~ jmccarthy$ cd SvnExportTest/
jmccarthy-lap:SvnExportTest jmccarthy$ svn export https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder
A    MyFolder
A    MyFolder/a file copy.txt
A    MyFolder/A Folder
A    MyFolder/A Folder/NewFile.txt
A    MyFolder/A Folder/a file.txt
A    MyFolder/Another Folder
A    MyFolder/a file.txt
A    MyFolder/another file.txt
Exported revision 52.
jmccarthy-lap:SvnExportTest jmccarthy$
```

-Add a file to the repository

```
> svn import -m "Commit message here" atest.txt https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/atest.txt
```




```
jmccarthy-lap:SvnExportTest jmccarthy$ echo "hello world" > atest.txt
jmccarthy-lap:SvnExportTest jmccarthy$ svn import -m "Adding test file" atest.txt https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/atest.txt
Adding          atest.txt

Committed revision 53.
jmccarthy-lap:SvnExportTest jmccarthy$
```

-Move a file (within the repository)

```
> svn mv https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/atest.txt
"https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/atest.txt" -m "Move atest to a folder"
```

A terminal window titled "SvnExportTest — bash — 67x15" showing a successful SVN move command. The command is: `svn mv https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/atest.txt "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/atest.txt" -m "Move atest to a folder"`. The output is: `Committed revision 54.`

```
jmccarthy-lap:SvnExportTest jmccarthy$ svn mv https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/atest.txt "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/atest.txt" -m "Move atest to a folder"

Committed revision 54.
jmccarthy-lap:SvnExportTest jmccarthy$
```

-Rename a file

```
> svn mv "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/atest.txt" "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/btest.txt" -m "Commit message here"
```

A terminal window titled "SvnExportTest — bash — 67x15" showing an SVN mv command used for renaming a file. The command is: `svn mv "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/atest.txt" "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/btest.txt" -m "Rename File"`. The output is: `Committed revision 55.`

```
jmccarthy-lap:SvnExportTest jmccarthy$ svn mv "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/atest.txt" "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/btest.txt" -m "Rename File"

Committed revision 55.
jmccarthy-lap:SvnExportTest jmccarthy$
```

-Remove a File

```
> svn rm "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/btest.txt" -m "Commit message here"
```



```
jmccarthy-lap:SvnExportTest jmccarthy$ svn rm "https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder/A Folder/btest.txt" -m "Removing test file"

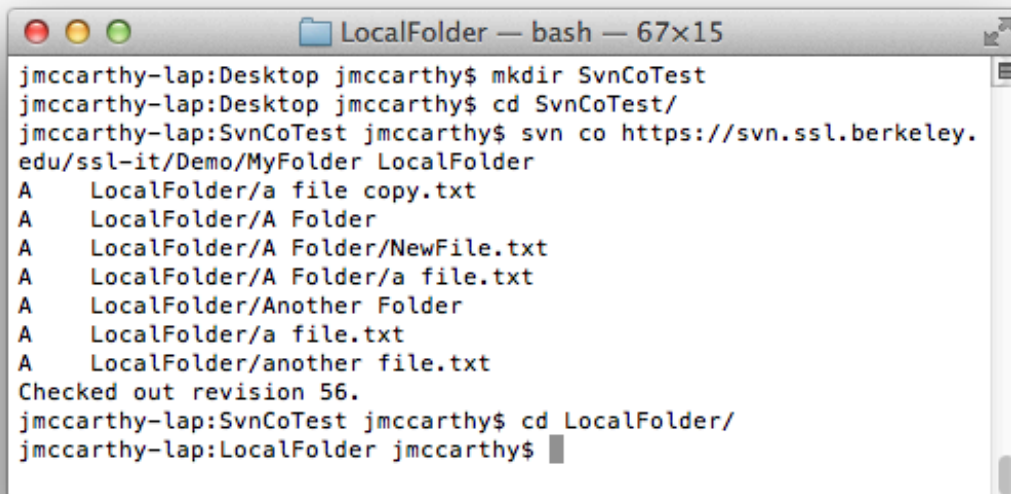
Committed revision 56.
jmccarthy-lap:SvnExportTest jmccarthy$
```

SVN With Local Repository Copy Setup

First, change your current directory in a terminal window to a folder you would like to store a local version of the repository you need to work with.

To check out a local copy of the file or folder specified in the URL to the current directory:

```
> svn co https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder LocalFolder
```



```
jmccarthy-lap:Desktop jmccarthy$ mkdir SvnCoTest
jmccarthy-lap:Desktop jmccarthy$ cd SvnCoTest/
jmccarthy-lap:SvnCoTest jmccarthy$ svn co https://svn.ssl.berkeley.edu/ssl-it/Demo/MyFolder LocalFolder
A    LocalFolder/a file copy.txt
A    LocalFolder/A Folder
A    LocalFolder/A Folder/NewFile.txt
A    LocalFolder/A Folder/a file.txt
A    LocalFolder/Another Folder
A    LocalFolder/a file.txt
A    LocalFolder/another file.txt
Checked out revision 56.
jmccarthy-lap:SvnCoTest jmccarthy$ cd LocalFolder/
jmccarthy-lap:LocalFolder jmccarthy$
```

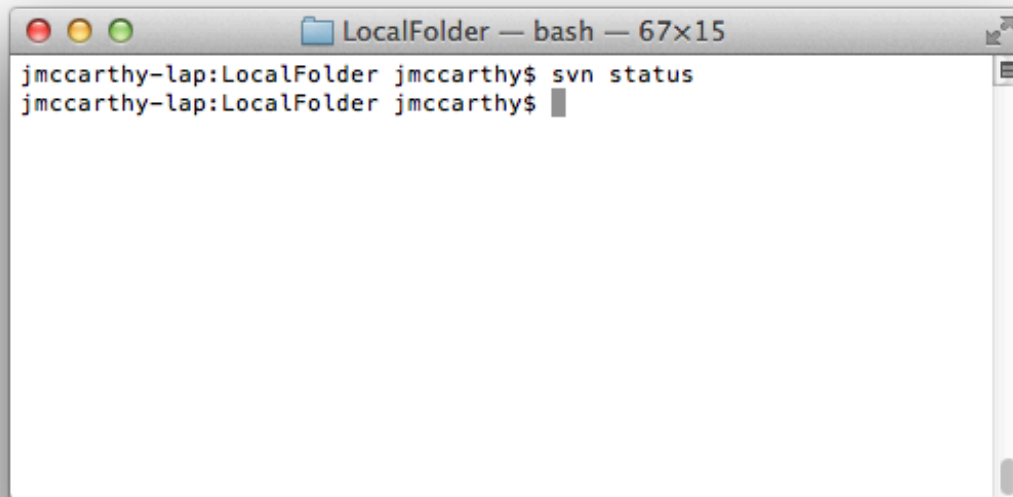
In this case the folder "LocalFolder" will be created in the current directory.

For the following commands, change your current directory to the folder holding items in the svn repo. In the example above, cd to the "LocalFolder" folder or subfolder.

SVN Status

This compares your local repository status with the server.

> svn status

A screenshot of a terminal window titled "LocalFolder — bash — 67x15". The window shows the command "svn status" being executed in a directory named "LocalFolder". The prompt is "jmccarthy-lap:LocalFolder jmccarthy\$". The output of the command is empty, followed by a new prompt "jmccarthy-lap:LocalFolder jmccarthy\$".

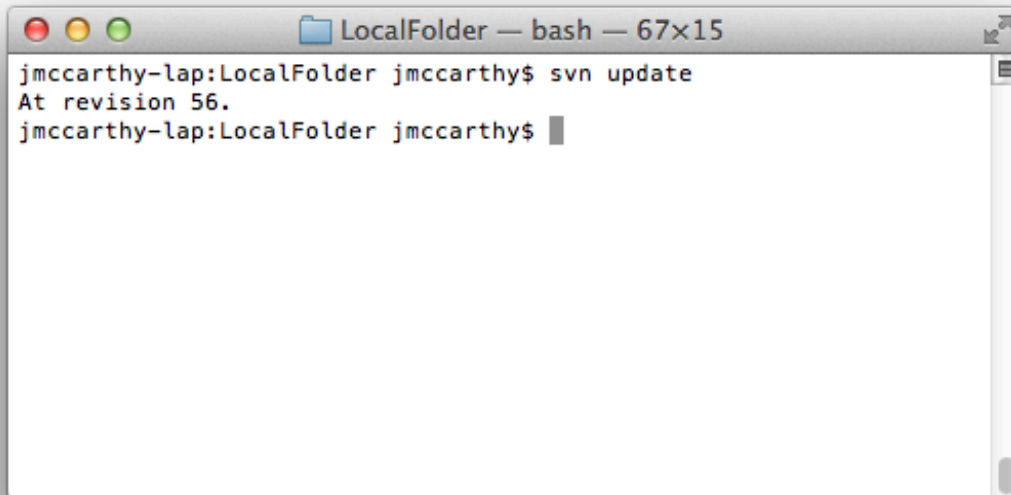
```
jmccarthy-lap:LocalFolder jmccarthy$ svn status
jmccarthy-lap:LocalFolder jmccarthy$
```

If the command has no output, your files are sync with the server.

SVN Update

The update command updates your local files to the latest copy from the server. This does not change any data on the server.

> svn update

A terminal window titled "LocalFolder — bash — 67x15" showing the execution of the 'svn update' command. The output indicates the local files are up to date at revision 56.

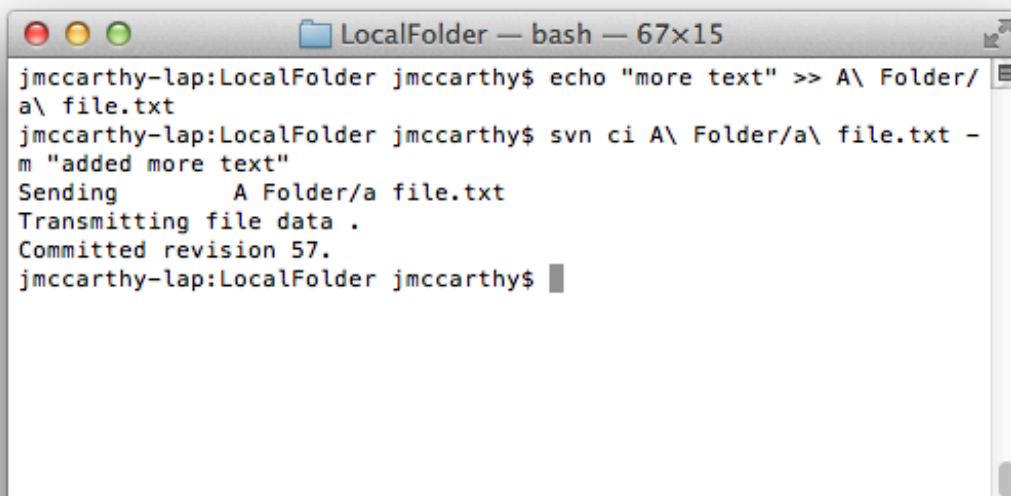
```
jmccarthy-lap:LocalFolder jmccarthy$ svn update
At revision 56.
jmccarthy-lap:LocalFolder jmccarthy$
```

SVN Commit (check in)

The commit (check in) command commits changes you made to a repo file locally back to the server. This does not change any of your local files.

To commit a specific file:

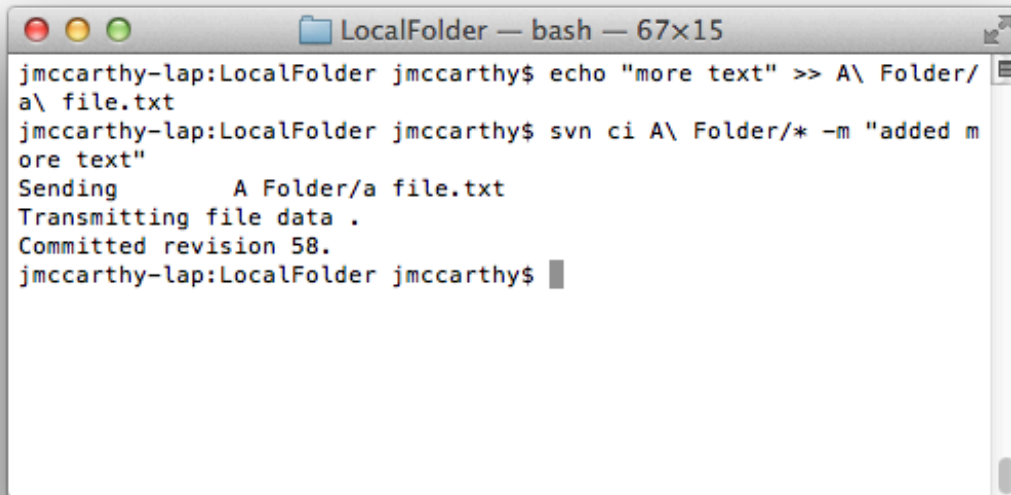
```
> svn another\ file.txt ci -m "Commit message here"
```

A terminal window titled "LocalFolder — bash — 67x15" showing the execution of the 'svn ci' command for a specific file. The output shows the file being sent, data transmitted, and the commit being recorded as revision 57.

```
jmccarthy-lap:LocalFolder jmccarthy$ echo "more text" >> A\ Folder/
a\ file.txt
jmccarthy-lap:LocalFolder jmccarthy$ svn ci A\ Folder/a\ file.txt -
m "added more text"
Sending          A Folder/a file.txt
Transmitting file data .
Committed revision 57.
jmccarthy-lap:LocalFolder jmccarthy$
```

To commit all files added in a local repo directory:

```
> svn directory/* ci -m "Commit message here"
```

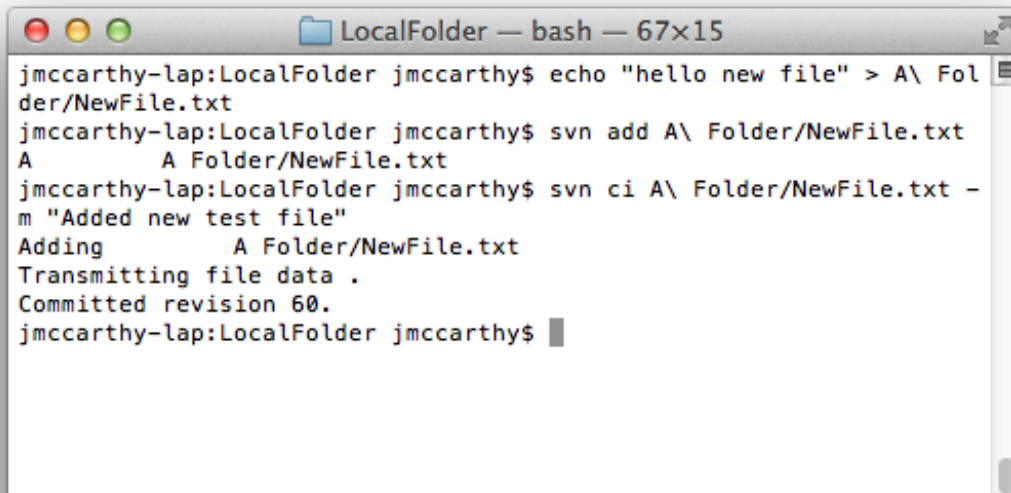
A terminal window titled "LocalFolder — bash — 67x15" showing a sequence of commands and their outputs. The user creates a file, commits it with a message, and the terminal shows the file being sent and the commit being successful.

```
jmccarthy-lap:LocalFolder jmccarthy$ echo "more text" >> A\ Folder/a\ file.txt
jmccarthy-lap:LocalFolder jmccarthy$ svn ci A\ Folder/* -m "added more text"
Sending          A Folder/a file.txt
Transmitting file data .
Committed revision 58.
jmccarthy-lap:LocalFolder jmccarthy$
```

Add a file

You can add a file/folder to a svn repository that was not in the repo already.

```
>svn add a\ file\ copy.txt
>svn ci a\ file\ copy.txt -m "Commit message here"
```

A terminal window titled "LocalFolder — bash — 67x15" showing the process of adding a new file to a repository. The user creates a file, uses 'svn add' to stage it, and then 'svn ci' to commit it with a message. The terminal shows the file being added and the commit being successful.

```
jmccarthy-lap:LocalFolder jmccarthy$ echo "hello new file" > A\ Folder/NewFile.txt
jmccarthy-lap:LocalFolder jmccarthy$ svn add A\ Folder/NewFile.txt
A          A Folder/NewFile.txt
jmccarthy-lap:LocalFolder jmccarthy$ svn ci A\ Folder/NewFile.txt -m "Added new test file"
Adding          A Folder/NewFile.txt
Transmitting file data .
Committed revision 60.
jmccarthy-lap:LocalFolder jmccarthy$
```

More Information

Please check the following resource for general SVN information:

<http://svnbook.red-bean.com/en/1.7/svn.tour.cycle.html>