

Working on Assignments

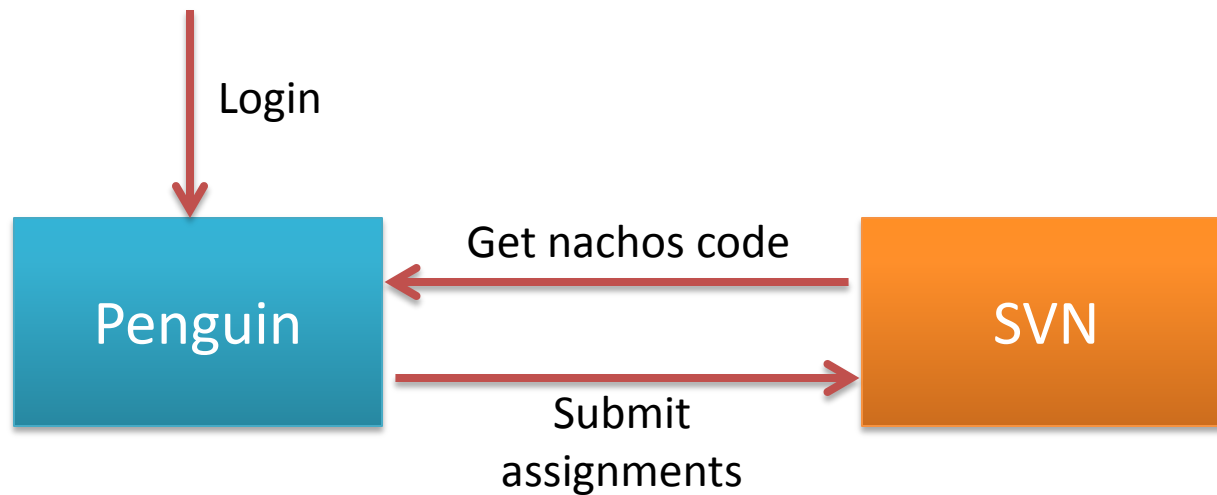
CS/SE 3SH3

Preparation

- Mac user
 - Terminal
- Windows user
 - SSH client (PuTTY...)

Working on Assignments

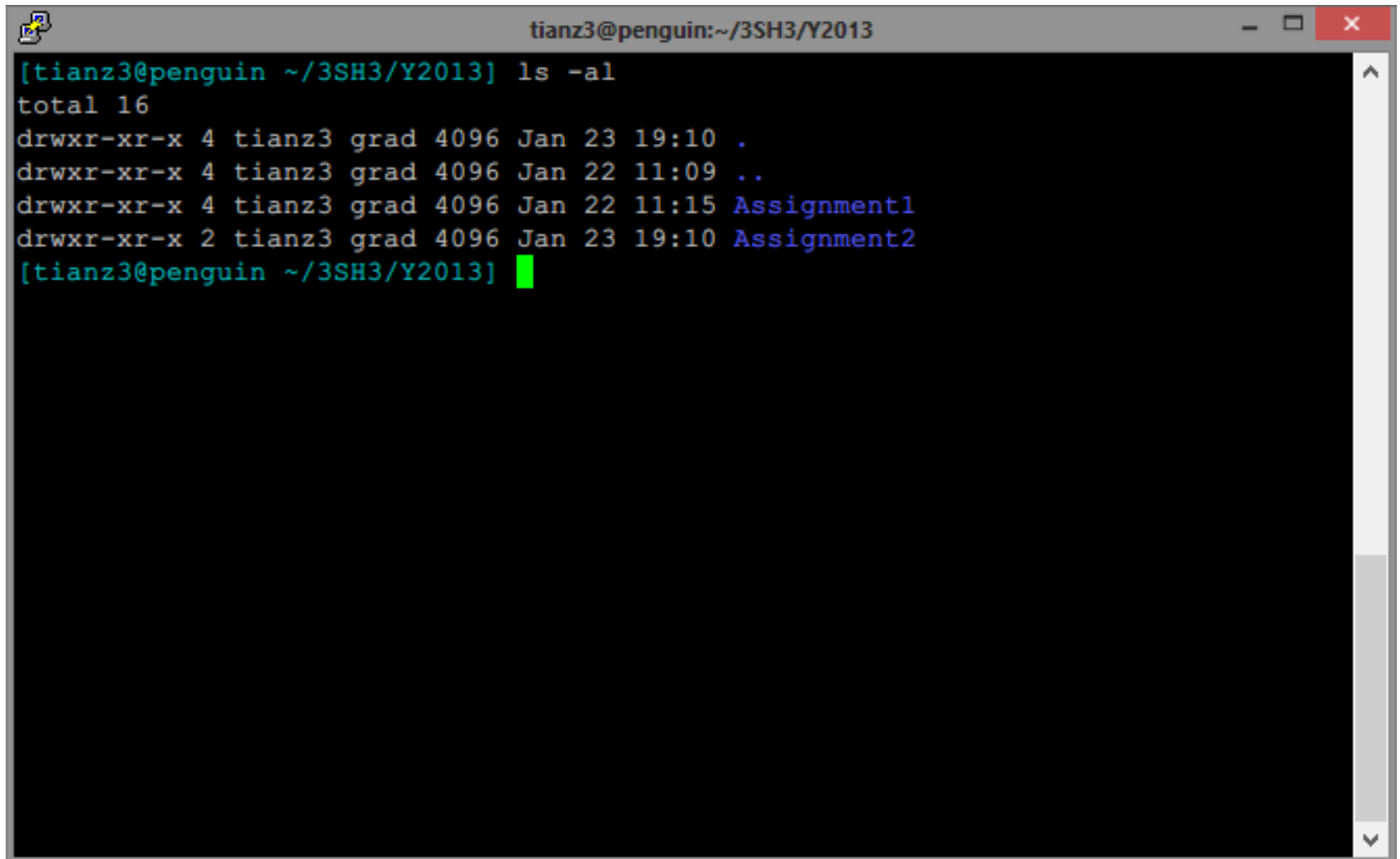
- Working on **Penguin**
- Submitting assignments to **SVN**



Working on Penguin

- Penguin, Port 22
- `>SSH penguin.mcmaster.ca`
- `>SSH macid@penguin.mcmaster.ca`
- Login use **MacID**

> mkdir Assignment1
> mkdir Assignment2



```
tianz3@penguin:~/3SH3/Y2013  
[tianz3@penguin ~/3SH3/Y2013] ls -al  
total 16  
drwxr-xr-x 4 tianz3 grad 4096 Jan 23 19:10 .  
drwxr-xr-x 4 tianz3 grad 4096 Jan 22 11:09 ..  
drwxr-xr-x 4 tianz3 grad 4096 Jan 22 11:15 Assignment1  
drwxr-xr-x 2 tianz3 grad 4096 Jan 23 19:10 Assignment2  
[tianz3@penguin ~/3SH3/Y2013]
```

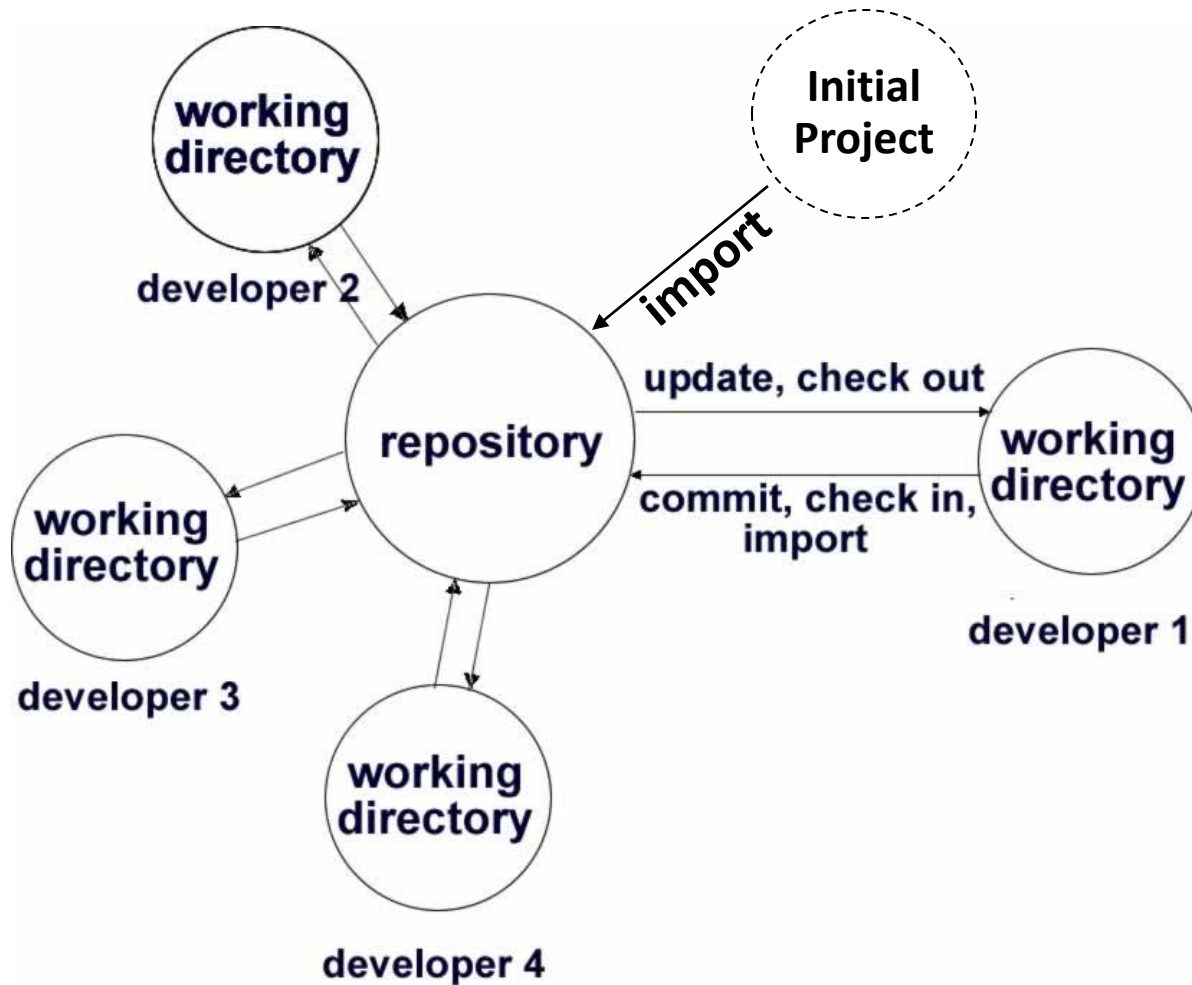
SVN Address

<https://websvn.mcmaster.ca/nachos/>
+ group number

For example:

<https://websvn.mcmaster.ca/nachos/group1/>

How SVN works?

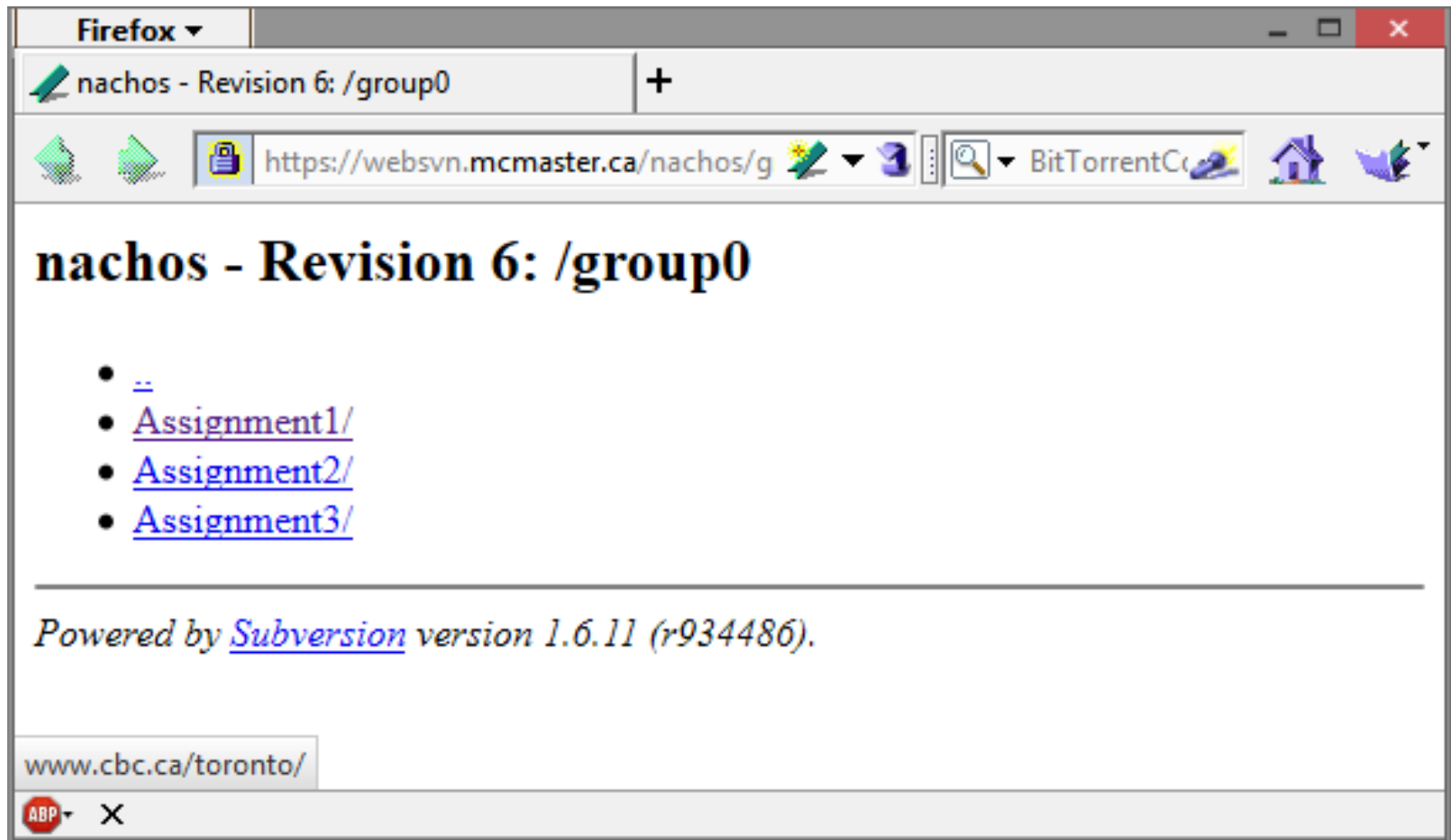


Useful SVN commands

- Check out
 - Retrieve files from repository to working directory
- Commit (**check in**)
 - Place the changes in the working directory into repository
- Update
 - Merge the latest changes in the repository into the working copy files

For Each Assignment

- Create a directory on [penguin](#)
- Checkout nachos code from assignment SVN directory



Check Out – Get a nachos Copy

- `svn checkout repository-URL [working_dir]`
- `svn co repository-URL [working_dir]`
- `> svn co https://websvn.mcmaster.ca/nachos/group1/Assignment1 ~/Assignment1`



This checks out a nachos copy to “~/Assignment1”

Compile Nachos

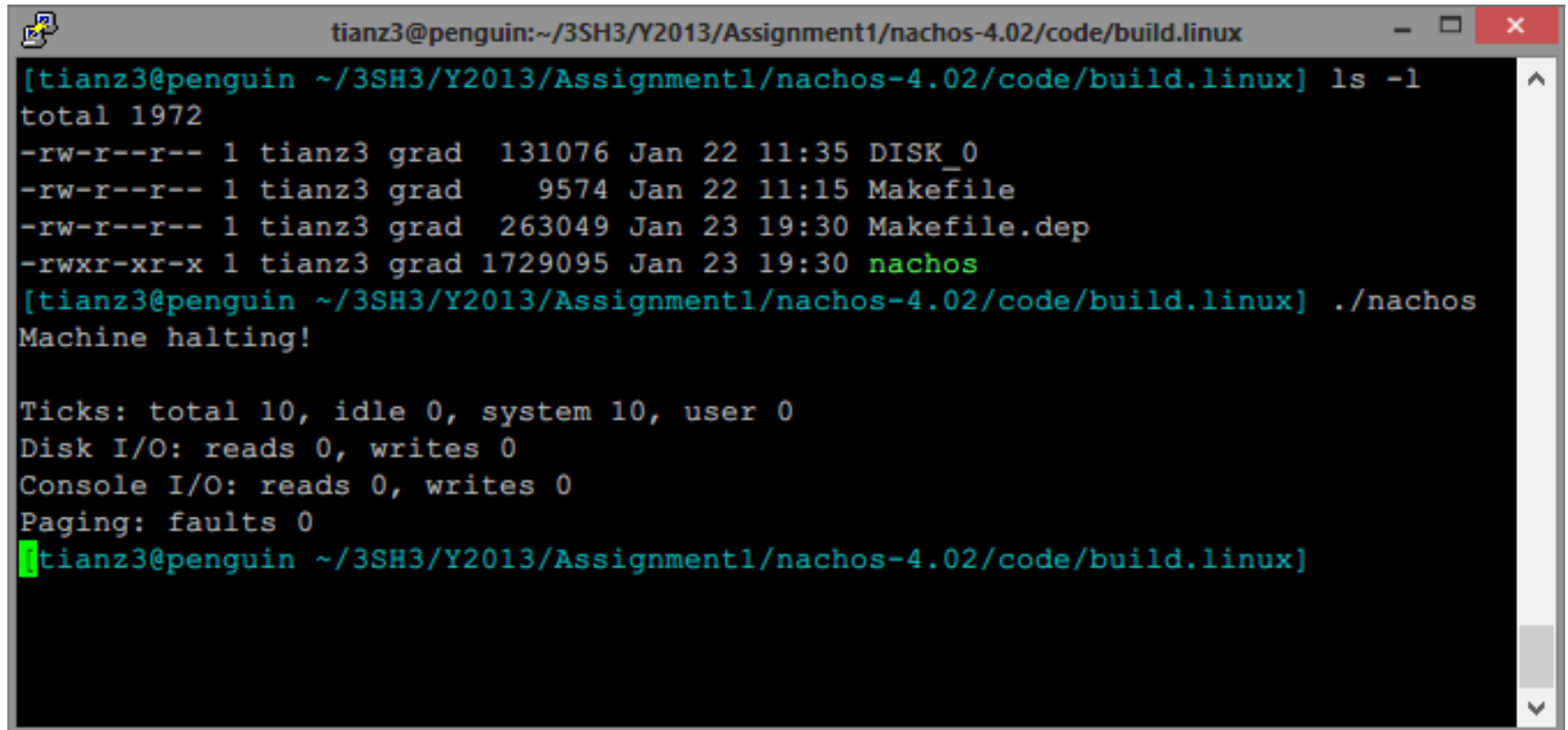
- Goto directory

“~/Assignment1/nachos-4.02/code/build.linux”

- > make clean
- > make depend
- > make

Compile succeeded

- Run nachos
 - > `./nachos`

A terminal window titled "tianz3@penguin:~/3SH3/Y2013/Assignment1/nachos-4.02/code/build.linux" showing the execution of the nachos program. The user runs 'ls -l' and then './nachos'. The output shows system statistics and the message "Machine halting!".

```
tianz3@penguin:~/3SH3/Y2013/Assignment1/nachos-4.02/code/build.linux
[tianz3@penguin ~/3SH3/Y2013/Assignment1/nachos-4.02/code/build.linux] ls -l
total 1972
-rw-r--r-- 1 tianz3 grad 131076 Jan 22 11:35 DISK_0
-rw-r--r-- 1 tianz3 grad 9574 Jan 22 11:15 Makefile
-rw-r--r-- 1 tianz3 grad 263049 Jan 23 19:30 Makefile.dep
-rwxr-xr-x 1 tianz3 grad 1729095 Jan 23 19:30 nachos
[tianz3@penguin ~/3SH3/Y2013/Assignment1/nachos-4.02/code/build.linux] ./nachos
Machine halting!

Ticks: total 10, idle 0, system 10, user 0
Disk I/O: reads 0, writes 0
Console I/O: reads 0, writes 0
Paging: faults 0
[tianz3@penguin ~/3SH3/Y2013/Assignment1/nachos-4.02/code/build.linux]
```

Check In – Submit your works

- Before Checkin your work
- 1. Compile and test
- 2. Check conflict with peers

- > `svn update`
- > `svn commit -m "message"`

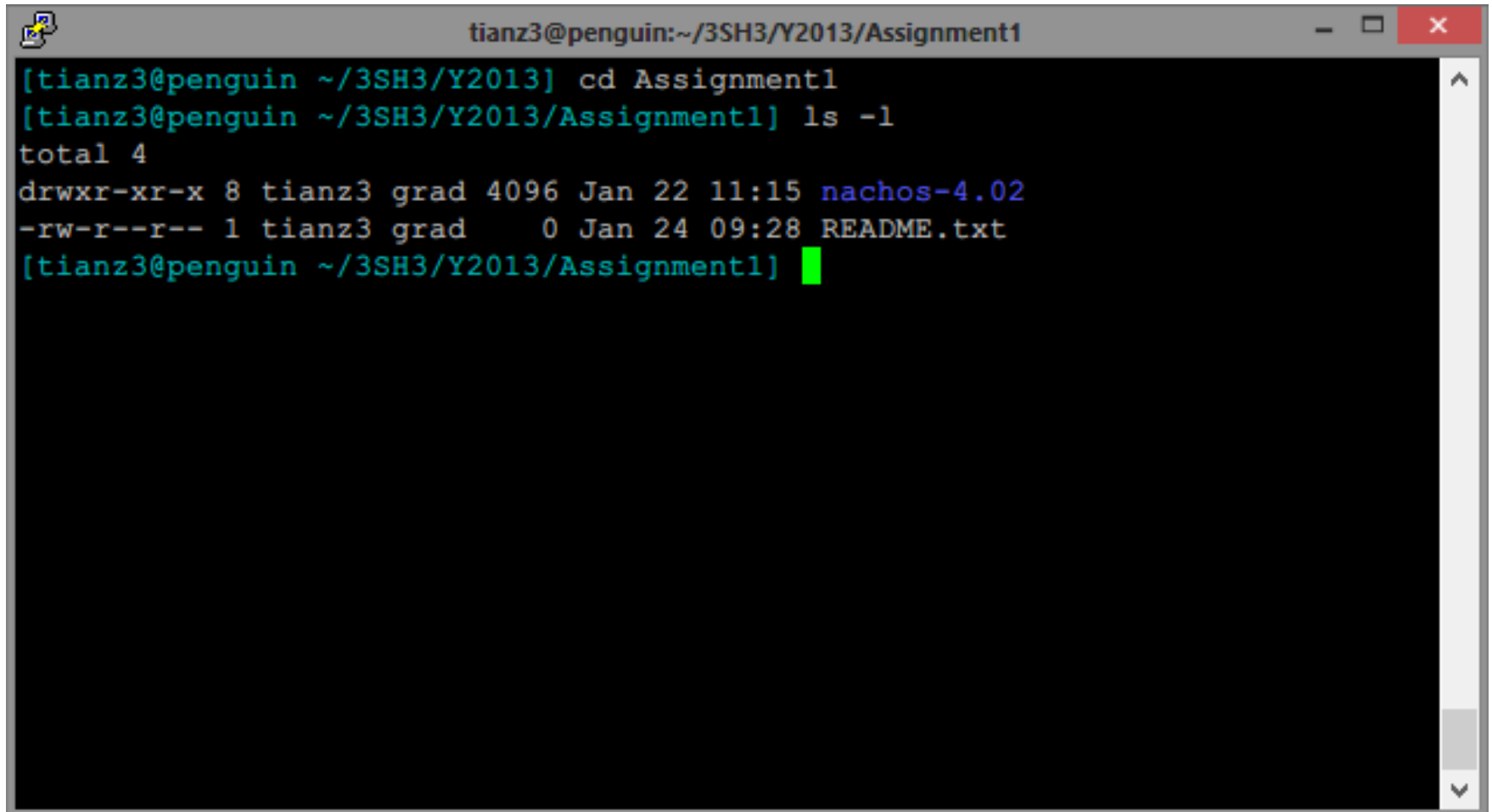
About assignment

- README.txt
 - Plain text
 - 60 chars / line
- Nachos codes
 - Compiled, tested and well commented

README.txt

- Names of all team members
- How late this assignment is, how much extension time left
- File names modified and added
- Your design ideas (code snips)
- Output of your test

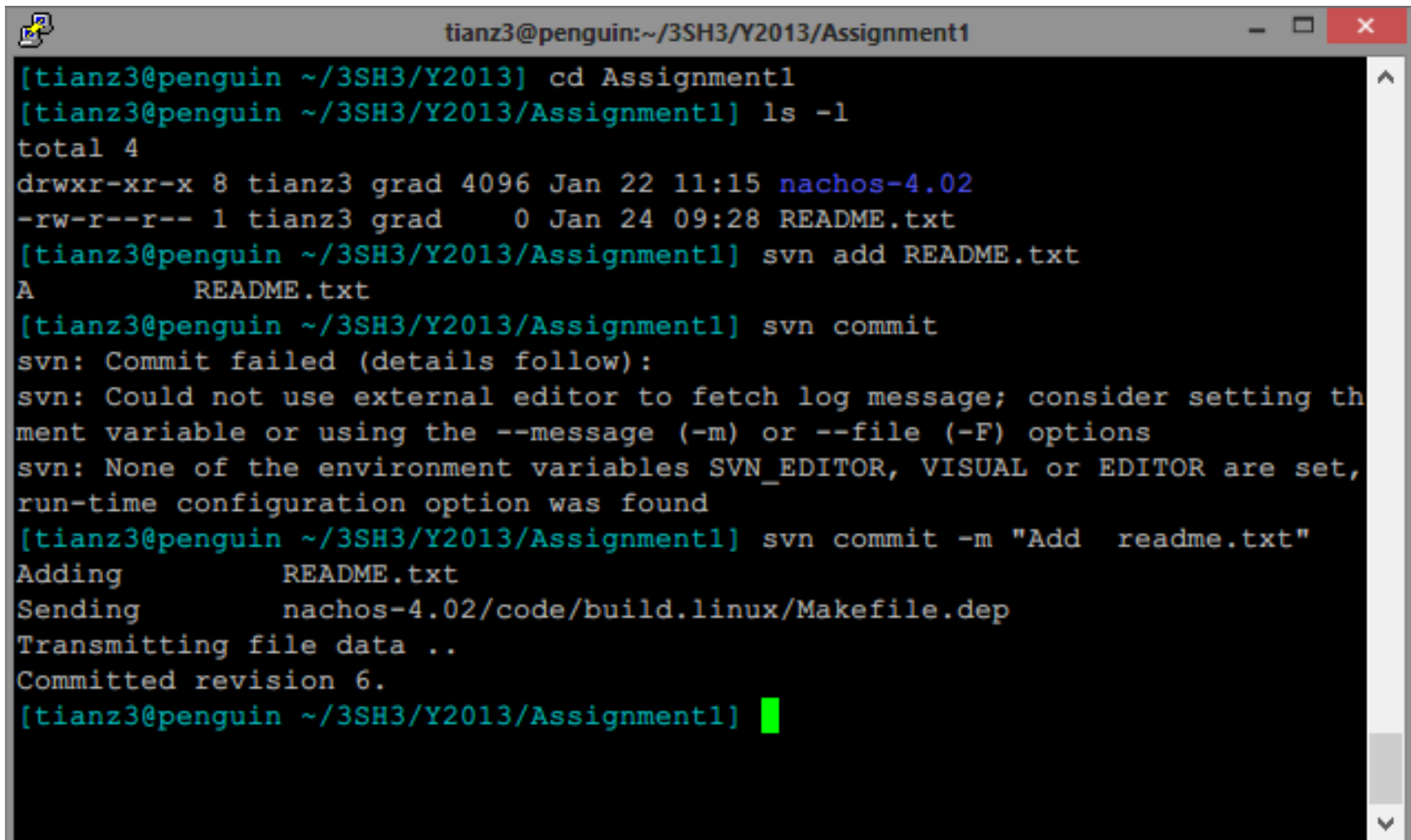
Assignment submitted

A terminal window titled "tianz3@penguin:~/3SH3/Y2013/Assignment1" with standard window controls. The terminal shows the user navigating to the "Assignment1" directory and listing its contents with "ls -l". The output shows two files: "nachos-4.02" (a directory) and "README.txt" (a text file).

```
tianz3@penguin:~/3SH3/Y2013/Assignment1
[tianz3@penguin ~/3SH3/Y2013] cd Assignment1
[tianz3@penguin ~/3SH3/Y2013/Assignment1] ls -l
total 4
drwxr-xr-x 8 tianz3 grad 4096 Jan 22 11:15 nachos-4.02
-rw-r--r-- 1 tianz3 grad   0 Jan 24 09:28 README.txt
[tianz3@penguin ~/3SH3/Y2013/Assignment1] █
```


Add "README.txt" to SVN

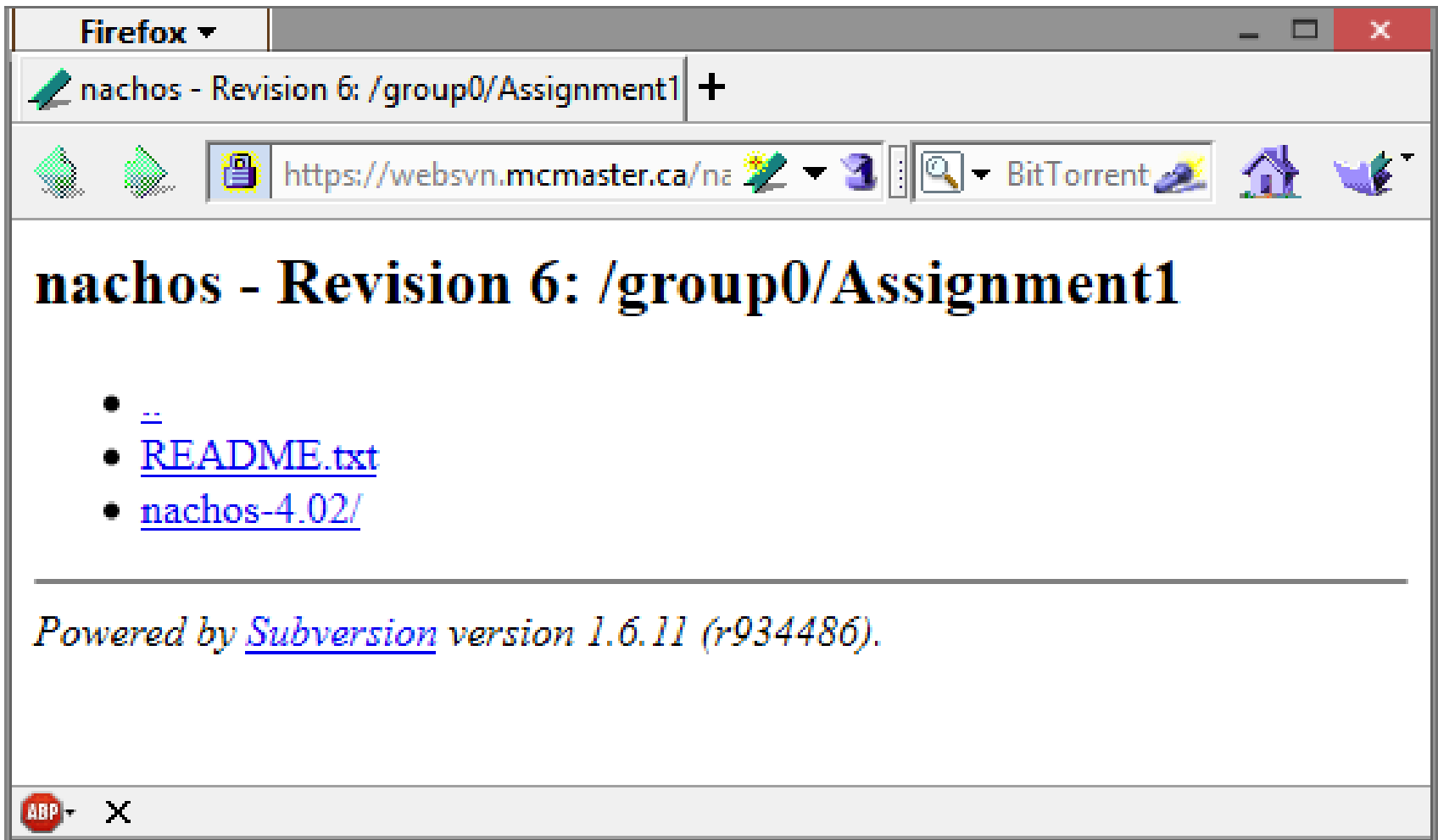
- > `svn add README.txt`



```
tianz3@penguin:~/3SH3/Y2013/Assignment1
[tianz3@penguin ~/3SH3/Y2013] cd Assignment1
[tianz3@penguin ~/3SH3/Y2013/Assignment1] ls -l
total 4
drwxr-xr-x 8 tianz3 grad 4096 Jan 22 11:15 nachos-4.02
-rw-r--r-- 1 tianz3 grad  0 Jan 24 09:28 README.txt
[tianz3@penguin ~/3SH3/Y2013/Assignment1] svn add README.txt
A
    README.txt
[tianz3@penguin ~/3SH3/Y2013/Assignment1] svn commit
svn: Commit failed (details follow):
svn: Could not use external editor to fetch log message; consider setting the
svn: None of the environment variables SVN_EDITOR, VISUAL or EDITOR are set,
run-time configuration option was found
[tianz3@penguin ~/3SH3/Y2013/Assignment1] svn commit -m "Add readme.txt"
Adding
    README.txt
Sending
    nachos-4.02/code/build.linux/Makefile.dep
Transmitting file data ..
Committed revision 6.
[tianz3@penguin ~/3SH3/Y2013/Assignment1] █
```

After Assignment Submission

- Check your submission using a browser



Questions ?