

CISC 3140: Lab 6

Due 22 March @ 14:14:59

Task 1, Git Activity

Last login: Tue Mar 16 08:25:01 on console
Restored session: Mon Mar 15 14:15:42 EDT 2021

The default interactive shell is now zsh.

To update your account to use zsh, please run `chsh -s /bin/zsh`.

For more details, please visit <https://support.apple.com/kb/HT208050>.

```
ahsns-MacBook-Air:~ ahsannadeem$ cd ~/Desktop/
```

```
ahsns-MacBook-Air:Desktop ahsannadeem$ git init
```

```
Initialized empty Git repository in /Users/ahsannadeem/Desktop/.git/
```

```
ahsns-MacBook-Air:Desktop ahsannadeem$ git init Repo1
```

```
Initialized empty Git repository in /Users/ahsannadeem/Desktop/Repo1/.git/
```

```
ahsns-MacBook-Air:Desktop ahsannadeem$ cd ~/Desktop/Repo1/
```

```
ahsns-MacBook-Air:Repo1 ahsannadeem$ mkdir RepoMeta
```

```
ahsns-MacBook-Air:Repo1 ahsannadeem$ cd hello.py/
```

```
-bash: cd: hello.py/: Not a directory
```

```
ahsns-MacBook-Air:Repo1 ahsannadeem$ cd hello.py
```

```
-bash: cd: hello.py: Not a directory
```

```
ahsns-MacBook-Air:Repo1 ahsannadeem$ cd hello/
```

```
ahsns-MacBook-Air:hello ahsannadeem$ ls
```

```
hello.py
```

```
ahsns-MacBook-Air:hello ahsannadeem$ echo "Hello Ahsan Nadeem" >> hello.py
```

```
ahsns-MacBook-Air:hello ahsannadeem$ cat hello.py
```

```
def hello():
```

```
    return "Hello world"
```

```
if __name__ == '__main__':
```

```
    print(hello())Hello Ahsan Nadeem
```

```
ahsns-MacBook-Air:hello ahsannadeem$ git stash
```

```
fatal: bad revision 'HEAD'
```

```
fatal: bad revision 'HEAD'
```

```
fatal: Needed a single revision
```

```
You do not have the initial commit yet
```

```
ahsns-MacBook-Air:hello ahsannadeem$ git commit --amend echo "print('Hello Ahsan Nadeem')"
```

```
fatal: You have nothing to amend.
```

```
ahsns-MacBook-Air:hello ahsannadeem$ cat hello.py
```

```
def hello():
```

```
    return "Hello world"
```

```
if __name__ == '__main__':
```

```
    print(hello())Hello Ahsan Nadeem
```

```
ahsns-MacBook-Air:hello ahsannadeem$ git rebase -i echo "
```

```
> print('Hello Ahsan Nadeem')"
```

```
usage: git rebase [-i] [options] [--exec <cmd>] [--onto <newbase>] [<upstream>] [<branch>]
```

```
or: git rebase [-i] [options] [--exec <cmd>] [--onto <newbase>] --root [<branch>]
```

```
or: git-rebase --continue | --abort | --skip | --edit-todo
```

Available options are

- v, --verbose display a diffstat of what changed upstream
- q, --quiet be quiet. implies --no-stat
- autostash automatically stash/stash pop before and after
- fork-point use 'merge-base --fork-point' to refine upstream

```

--onto ...      rebase onto given branch instead of upstream
-p, --preserve-merges
                try to recreate merges instead of ignoring them
-s, --strategy ... use the given merge strategy
--no-ff         cherry-pick all commits, even if unchanged
-m, --merge     use merging strategies to rebase
-i, --interactive let the user edit the list of commits to rebase
-x, --exec ...  add exec lines after each commit of the editable list
-k, --keep-empty preserve empty commits during rebase
-f, --force-rebase force rebase even if branch is up to date
-X, --strategy-option ...
                pass the argument through to the merge strategy
--stat          display a diffstat of what changed upstream
-n, --no-stat   do not show diffstat of what changed upstream
--verify        allow pre-rebase hook to run
--rerere-autoupdate allow rerere to update index with resolved conflicts
--root          rebase all reachable commits up to the root(s)
--autosquash    move commits that begin with squash!/fixup! under -i
--committer-date-is-author-date
                passed to 'git am'
--ignore-date   passed to 'git am'
--signoff       passed to 'git am'
--whitespace ... passed to 'git apply'
--ignore-whitespace passed to 'git apply'
-C ...          passed to 'git apply'
-S, --gpg-sign[=...] GPG-sign commits

```

Actions:

```

--continue      continue
--abort         abort and check out the original branch
--skip          skip current patch and continue
--edit-todo     edit the todo list during an interactive rebase
--quit         abort but keep HEAD where it is

```

```
ahsns-MacBook-Air:hello ahsannadeem$ cat hello.py
```

```
def hello():
    return "Hello world"
```

```
if __name__ == '__main__':
```

```
    print(hello())
    print("Hello Ahsan Nadeem")
```

```
ahsns-MacBook-Air:hello ahsannadeem$
```

```
ahsns-MacBook-Air:~ ahsannadeem$ cd ~/Desktop/
```

```
ahsns-MacBook-Air:Desktop ahsannadeem$ cd Repo1/
```

```
ahsns-MacBook-Air:Repo1 ahsannadeem$ cd hello/
```

```
ahsns-MacBook-Air:hello ahsannadeem$ git commit -m "Added "hello Ahsan Nadeem" to my hello.py file"
```

```
error: pathspec 'Ahsan' did not match any file(s) known to git.
```

```
error: pathspec 'Nadeem' to my hello.py file' did not match any file(s) known to git.
```

```
ahsns-MacBook-Air:hello ahsannadeem$ git commit -m "Added hello Ahsan Nadeem to hello.py"
```

```
On branch master
```

```
Initial commit
```

```
Untracked files:
```

```
./
```

```
nothing added to commit but untracked files present
ahsns-MacBook-Air:hello ahsannadeem$ ls hello.py
hello.py
ahsns-MacBook-Air:hello ahsannadeem$ cat hello.py
def hello():
    return "Hello world"

if __name__ == '__main__':
    print(hello())
    print("Hello Ahsan Nadeem")
ahsns-MacBook-Air:hello ahsannadeem$ git commit -m "Added my name to the print message"
On branch master
```

Initial commit

Untracked files:

./

```
nothing added to commit but untracked files present
ahsns-MacBook-Air:hello ahsannadeem$ git add hello.py
ahsns-MacBook-Air:hello ahsannadeem$ git pull
fatal: No remote repository specified. Please, specify either a URL or a
remote name from which new revisions should be fetched.
ahsns-MacBook-Air:hello ahsannadeem$ git pull ~/hello.py/
fatal: '/Users/ahsannadeem/hello.py/' does not appear to be a git repository
fatal: Could not read from remote repository.
```

Please make sure you have the correct access rights
and the repository exists.

```
ahsns-MacBook-Air:hello ahsannadeem$ git pull Repo1/hello/hello.py/
fatal: 'Repo1/hello/hello.py/' does not appear to be a git repository
fatal: Could not read from remote repository.
```

Please make sure you have the correct access rights
and the repository exists.

```
ahsns-MacBook-Air:hello ahsannadeem$ git add hello.py
ahsns-MacBook-Air:hello ahsannadeem$ git add --all
ahsns-MacBook-Air:hello ahsannadeem$ git add -u
ahsns-MacBook-Air:hello ahsannadeem$ git pull
fatal: No remote repository specified. Please, specify either a URL or a
remote name from which new revisions should be fetched.
ahsns-MacBook-Air:hello ahsannadeem$ cd ~/Desktop/
-bash: cd: ~/Desktop/: No such file or directory
ahsns-MacBook-Air:hello ahsannadeem$ cd ~/Desktop/
ahsns-MacBook-Air:Desktop ahsannadeem$ git add ~/Repo1/
fatal: Invalid path '/Users/ahsannadeem/Repo1': No such file or directory
ahsns-MacBook-Air:Desktop ahsannadeem$ git add Desktop/Repo1/
fatal: pathspec 'Desktop/Repo1/' did not match any files
ahsns-MacBook-Air:Desktop ahsannadeem$ git add ~/Desktop/Repo1/
ahsns-MacBook-Air:Desktop ahsannadeem$
```

Task 2, Svn Activity

The default interactive shell is now zsh.

To update your account to use zsh, please run `chsh -s /bin/zsh`.

For more details, please visit <https://support.apple.com/kb/HT208050>.

```
ahsns-MacBook-Air:Desktop ahsannadeem$ svnadmin create ~/Desktop/Repo2
ahsns-MacBook-Air:Desktop ahsannadeem$ svn commit message "inverted the equality symbol in my assert"
svn: E155007: '/Users/ahsannadeem/Desktop/message' is not a working copy
ahsns-MacBook-Air:Desktop ahsannadeem$ svn revert plugins/south
svn: E155007: '/Users/ahsannadeem/Desktop/plugins/south' is not a working copy
ahsns-MacBook-Air:Desktop ahsannadeem$ rm -rf content
ahsns-MacBook-Air:Desktop ahsannadeem$ svn checkout content
svn: E205000: Try 'svn help checkout' for more information
svn: E205000: Error parsing arguments
ahsns-MacBook-Air:Desktop ahsannadeem$ svn commit message "inverted equality symbol in assert"
svn: E155007: '/Users/ahsannadeem/Desktop/message' is not a working copy
ahsns-MacBook-Air:Desktop ahsannadeem$ svn checkout content
svn: E205000: Try 'svn help checkout' for more information
svn: E205000: Error parsing arguments
ahsns-MacBook-Air:Desktop ahsannadeem$
```

The default interactive shell is now zsh.

To update your account to use zsh, please run `chsh -s /bin/zsh`.

For more details, please visit <https://support.apple.com/kb/HT208050>.

```
ahsns-MacBook-Air:~ ahsannadeem$ cd ~/Desktop/
ahsns-MacBook-Air:Desktop ahsannadeem$ cd Repo1/
ahsns-MacBook-Air:Repo1 ahsannadeem$ cd hello/
ahsns-MacBook-Air:hello ahsannadeem$ git commit -m "Added "hello Ahsan Nadeem" to my hello.py file"
error: pathspec 'Ahsan' did not match any file(s) known to git.
error: pathspec 'Nadeem to my hello.py file' did not match any file(s) known to git.
ahsns-MacBook-Air:hello ahsannadeem$ git commit -m "Added hello Ahsan Nadeem to hello.py"
On branch master
```

Initial commit

Untracked files:

./

nothing added to commit but untracked files present

```
ahsns-MacBook-Air:hello ahsannadeem$ ls hello.py
```

hello.py

```
ahsns-MacBook-Air:hello ahsannadeem$ cat hello.py
```

```
def hello():
    return "Hello world"
```

```
if __name__ == '__main__':
```

```
    print(hello())
```

```
    print("Hello Ahsan Nadeem")
```

```
ahsns-MacBook-Air:hello ahsannadeem$ git commit -m "Added my name to the print message"
```

On branch master

Initial commit

Untracked files:

./

nothing added to commit but untracked files present

```
ahsns-MacBook-Air:hello ahsannadeem$ git add hello.py
```

```
ahsns-MacBook-Air:hello ahsannadeem$ git pull
```

fatal: No remote repository specified. Please, specify either a URL or a remote name from which new revisions should be fetched.

```
ahsns-MacBook-Air:hello ahsannadeem$ git pull ~/hello.py/
```

```
fatal: '/Users/ahsannadeem/hello.py/' does not appear to be a git repository
fatal: Could not read from remote repository.
```

Please make sure you have the correct access rights
and the repository exists.

```
ahsns-MacBook-Air:hello ahnsannadeem$ git pull Repo1/hello/hello.py/
fatal: 'Repo1/hello/hello.py/' does not appear to be a git repository
fatal: Could not read from remote repository.
```

Please make sure you have the correct access rights
and the repository exists.

```
ahsns-MacBook-Air:hello ahnsannadeem$ git add hello.py
ahsns-MacBook-Air:hello ahnsannadeem$ git add --all
ahsns-MacBook-Air:hello ahnsannadeem$ git add -u
ahsns-MacBook-Air:hello ahnsannadeem$ git pull
fatal: No remote repository specified. Please, specify either a URL or a
remote name from which new revisions should be fetched.
ahsns-MacBook-Air:hello ahnsannadeem$ cd ~/Desktop/
-bash: cd: ~/Desktop/: No such file or directory
ahsns-MacBook-Air:hello ahnsannadeem$ cd ~/Desktop/
ahsns-MacBook-Air:Desktop ahnsannadeem$ git add ~/Repo1/
fatal: Invalid path '/Users/ahsannadeem/Repo1': No such file or directory
ahsns-MacBook-Air:Desktop ahnsannadeem$ git add Desktop/Repo1/
fatal: pathspec 'Desktop/Repo1/' did not match any files
ahsns-MacBook-Air:Desktop ahnsannadeem$ git add ~/Desktop/Repo1/
ahsns-MacBook-Air:Desktop ahnsannadeem$
[Restored Mar 17, 2021 at 11:10:30]
Last login: Wed Mar 17 10:37:50 on ttys000
Restored session: Wed Mar 17 11:10:24 EDT 2021
```

The default interactive shell is now zsh.

To update your account to use zsh, please run `chsh -s /bin/zsh`.

For more details, please visit <https://support.apple.com/kb/HT208050>.

```
ahsns-MacBook-Air:Desktop ahnsannadeem$ svnadmin create ~/Desktop/Repo2
ahsns-MacBook-Air:Desktop ahnsannadeem$ svn commit message "inverted the equality symbol in my assert"
svn: E155007: '/Users/ahsannadeem/Desktop/message' is not a working copy
ahsns-MacBook-Air:Desktop ahnsannadeem$ svn revert plugins/south
svn: E155007: '/Users/ahsannadeem/Desktop/plugins/south' is not a working copy
ahsns-MacBook-Air:Desktop ahnsannadeem$ rm -rf content
ahsns-MacBook-Air:Desktop ahnsannadeem$ svn checkout content
svn: E205000: Try 'svn help checkout' for more information
svn: E205000: Error parsing arguments
ahsns-MacBook-Air:Desktop ahnsannadeem$ svn commit message "inverted equality symbol in assert"
svn: E155007: '/Users/ahsannadeem/Desktop/message' is not a working copy
ahsns-MacBook-Air:Desktop ahnsannadeem$ svn checkout content
svn: E205000: Try 'svn help checkout' for more information
svn: E205000: Error parsing arguments
ahsns-MacBook-Air:Desktop ahnsannadeem$
[Restored Mar 18, 2021 at 10:08:30]
Last login: Thu Mar 18 08:32:44 on console
Restored session: Wed Mar 17 12:01:07 EDT 2021
```

The default interactive shell is now zsh.

To update your account to use zsh, please run `chsh -s /bin/zsh`.

For more details, please visit <https://support.apple.com/kb/HT208050>.

```
ahsns-MacBook-Air:Desktop ahnsannadeem$ cd ~/Desktop/Repo2
ahsns-MacBook-Air:Repo2 ahnsannadeem$ svn commit message "assert equality symbol inverted"
```

```
svn: E155007: '/Users/ahsannadeem/Desktop/Repo2/message' is not a working copy
ahsns-MacBook-Air:Repo2 ahsannadeem$ svn commit --force-log -F test_hello.py foo.c
svn: E000002: Can't open file 'test_hello.py': No such file or directory
ahsns-MacBook-Air:Repo2 ahsannadeem$ cd ~/Repo2/test_hello.svn
-bash: cd: /Users/ahsannadeem/Repo2/test_hello.svn: No such file or directory
ahsns-MacBook-Air:Repo2 ahsannadeem$ cd ~/Repo2/test_hello.svn/
-bash: cd: /Users/ahsannadeem/Repo2/test_hello.svn/: No such file or directory
ahsns-MacBook-Air:Repo2 ahsannadeem$ cd Desktop/Repo2/test_hello.svn/
-bash: cd: Desktop/Repo2/test_hello.svn/: No such file or directory
ahsns-MacBook-Air:Repo2 ahsannadeem$ cd Desktop/Repo2/test_hello.svn/test_hello.py/
-bash: cd: Desktop/Repo2/test_hello.svn/test_hello.py/: No such file or directory
ahsns-MacBook-Air:Repo2 ahsannadeem$ cd ~/Desktop/test_hello.svn/
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ svn commit --force-log -F test_hello.py foo.c
svn: E155007: '/Users/ahsannadeem/Desktop/test_hello.svn/foo.c' is not a working copy
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ cd test_hello.svn/test_hello.py
-bash: cd: test_hello.svn/test_hello.py: No such file or directory
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ cd ~/test_hello.svn/test_hello.py/
-bash: cd: /Users/ahsannadeem/test_hello.svn/test_hello.py/: No such file or directory
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ cd /Users/ahsannadeem/Desktop/test_hello.svn/test_hello.py/
-bash: cd: /Users/ahsannadeem/Desktop/test_hello.svn/test_hello.py/: Not a directory
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ cd test_hello.py/
-bash: cd: test_hello.py/: Not a directory
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ cd ~/test_hello.py/
-bash: cd: /Users/ahsannadeem/test_hello.py/: No such file or directory
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ cd test_hello.svn/test_hello.py/
-bash: cd: test_hello.svn/test_hello.py/: No such file or directory
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ svn commit -m "invert assert symbol" test_hello.py
svn: E155007: '/Users/ahsannadeem/Desktop/test_hello.svn/test_hello.py' is not a working copy
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ svn add /Users/ahsannadeem/Desktop/test_hello.svn/test_hello.py
svn: E155007: '/Users/ahsannadeem/Desktop/test_hello.svn' is not a working copy
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ svn add test_hello.py
svn: E155007: '/Users/ahsannadeem/Desktop/test_hello.svn' is not a working copy
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ svn checkout
svn: E205001: Try 'svn help checkout' for more information
svn: E205001: Not enough arguments provided
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ svn checkout test_hello.py
svn: E205000: Try 'svn help checkout' for more information
svn: E205000: Error parsing arguments
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ cd Repo2/
-bash: cd: Repo2/: No such file or directory
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ cd ~/Desktop/Repo2/
ahsns-MacBook-Air:Repo2 ahsannadeem$ svn add test_hello.svn
svn: E155007: '/Users/ahsannadeem/Desktop/Repo2' is not a working copy
ahsns-MacBook-Air:Repo2 ahsannadeem$ cd test_hello.svn
-bash: cd: test_hello.svn: No such file or directory
ahsns-MacBook-Air:Repo2 ahsannadeem$ cd ~/Desktop/test_hello.svn/
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ svn add test_hello.py
svn: E155007: '/Users/ahsannadeem/Desktop/test_hello.svn' is not a working copy
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ svn commiy
Unknown subcommand: 'commiy'
Type 'svn help' for usage.
ahsns-MacBook-Air:test_hello.svn ahsannadeem$ svn commit
svn: E155007: '/Users/ahsannadeem/Desktop/test_hello.svn' is not a working copy
ahsns-MacBook-Air:test_hello.svn ahsannadeem$
```

Lab 6, Task 3

<https://www.perforce.com/blog/vcs/git-vs-svn-what-difference#:~:text=Why%20SVN%20Is%20Better%20Than,auditability%2C%20based%20on%20your%20needs>

1. I completed each task by following the instructions for each task.
2. I like Git for its easier and shorter commands than Subversion, plus I have been using it more than Subversion. Subversion supports exclusive access control *svn lock* which is useful for hard-to-merge files. Subversion supports binary and large files, among other strengths. Git, on the other hand, has strong branching capabilities. It captures and stores file snapshots only for changed files, and keeps references of unchanged files.
3. Git and Svn have similar learning curves, but the former is a decentralized (or “distributed”) VCS and the latter is a centralized VCS.
4. As noted earlier, Git is best used for multiple branching which facilitates group collaboration on large projects, allowing for multiple changes to be merged into one source. Svn, on the other hand, is a central repository, allowing admins to maintain top down security, control, and permissions.
5. I prefer Git because it was the first VCS I came across. Thus it became easier to use over time and I came to accept it. I first gained exposure to Svn in this assignment and will learn more afterwards.