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Homework 9 Log

First I want to recopy the diffutils folder:

```
$ git clone git://git.savannah.gnu.org/diffutils.git
```

I then want to checkout version 3 under a branch called "quote":

```
$ cd diffutils
```

```
$ git checkout v3.0 -b quote
```

which outputs:

```
Switched to a new branch 'quote'
```

Then, I want to apply the patch that I had created in the lab:

```
$ patch -p1 < ~/cs35l/lab9/gitroot/diffutils/quote-3.0-patch.txt
```

which outputs:

```
patching file src/cmp.c
patching file src/diff.c
patching file src/diff3.c
patching file src/dir.c
patching file src/sdiff.c
patching file src/util.c
```

I then want to see what the add-change-log-entry-other-window command does in emacs. I see that this command adds a new entry to the change log file for the file I am editing.

I just use emacs to add change log entrys:

```
$ emacs
```

```
C-x 4 a
```

I save the ChangeLog using C-x c, so that a copy of all the changes I made in the directory I saved.

I then want to add and commit it using:

```
$ git add .
```

```
$ git commit -F ChangeLog
```

I want to see if it works so I use

```
$ git log
```

and see my changelog entries:

```
From 9d2118ae33b2f1ac5f94971c93aa585c0742 Mon Sep 17 00:00:00 2001
From: Lauren Jeanne Fromm <jeanne@lnxsrv07.seas.ucla.edu>
Date: Sat, 2 Dec 2017 16:12:28 -0800
```

Subject: [PATCH] 2017-12-02 Lauren Jeanne Fromm
<jeanne@lnxsrv07.seas.ucla.edu>

```

      *
---
src/cmp.c      | 12 ++++++-----
src/diff.c     | 28 ++++++++-----
src/diff3.c    | 20 ++++++++-----
src/dir.c      |  4 ++--
src/sdiff.c    | 16 ++++++-----
src/util.c     |  8 ++++----
6 files changed, 44 insertions(+), 44 deletions(-)

```

I then want to use git format-patch to create a new patch.
\$ git format-patch -1 --stdout > formatted-patch.txt

I use emacs to look at the patch, and it has worked.

I then want to test that it has worked using a partner.
I scp my formatted-patch.txt out of linux and send it to
him and he does the same thing and then I scp it in.

Partner : Ryan Standt

I call his file ryan-patch.txt, and I move it to
my current directory.

I then check out v3.0 again under "partner":
\$ git checkout v3.0 -b partner
And then apply the patch with git am:
\$ git am < ryan-patch.txt

I then build the system

```
$ ./bootstrap
$ ./configure
$ make
$ make check

```

I check that his works using
\$./src/diff . -
and
\$./src/diff --help

and everything is working correctly, so Ryan's patch
was succesfull.
I talked to Ryan and he said mine was also successful.

I check that my changelog works by using:
\$ make distdir

This creates a new directory called diffutils-3.0.1-0e18.

So I cd into it:

```
$ cd diffutils-3.0.1-0e18
```

and then I use emacs to look at the ChangeLog file.

I see that it shows:

```
017-12-03 Ryan Standt <standt@lnxsrv09.seas.ucla.edu>
```

```
    2017-12-03 Ryan Standt <standt@lnxsrv09.seas.ucla.edu>
```

```
        * src/cmp.c: Changed occurrences of ` to ' based on a
change in GNU coding standards
```

```
        * src/diff.c: Changed occurrences of ` to ' based on a
change in GNU coding standards
```

```
        * src/diff3.c: Changed occurrences of ` to ' based on a
change in GNU coding standards
```

```
        * src/dir.c: Changed occurrences of ` to ' based on a
change in GNU coding standards
```

```
        * src/sdiff.c: Changed occurrences of ` to ' based on a
change in GNU coding standards
```

```
        * src/util.c: Changed occurrences of ` to ' based on a
change in GNU coding standards
```

So it worked.

I then want to go into ~eggert/src/gnu/emacs and use gitk.

I first use a new window to log into the linux server:

```
$ ssh -X jeanne@lnxsrv.seas.ucla.edu
```

I then switch directories:

```
$ cd ~eggert/src/gnu/emacs
```

And I make sure my path is correct:

```
$ export PATH=/usr/local/cs/bin:$PATH
```

Finally, I use gitk

```
$ gitk
```

which opens up a new window in XQuartz, which is shown in my screenshot.

The newest merge that is not newer than 2015-01-25 occurs on 2015-01-15 where the description reads "Merge branch 'master' into xwidget". There is also a merge on 2015-01-24 that is "merge master".

