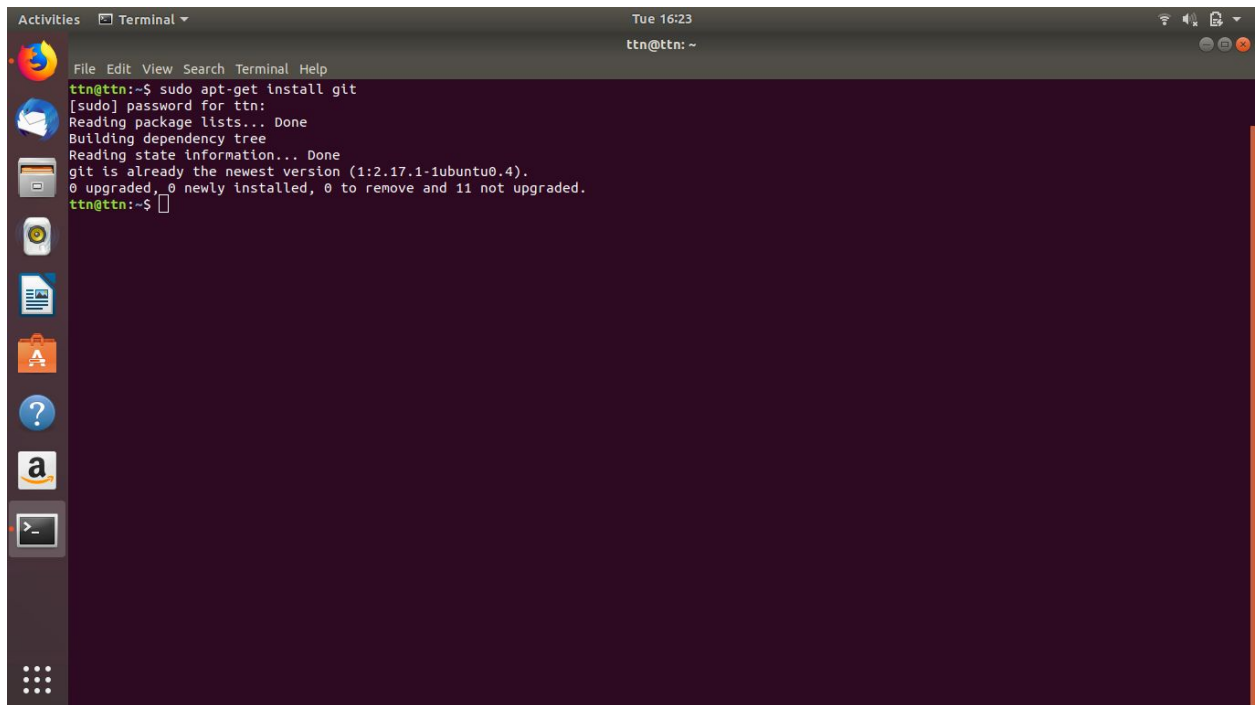


ANUJA PANDEY BATCH 5

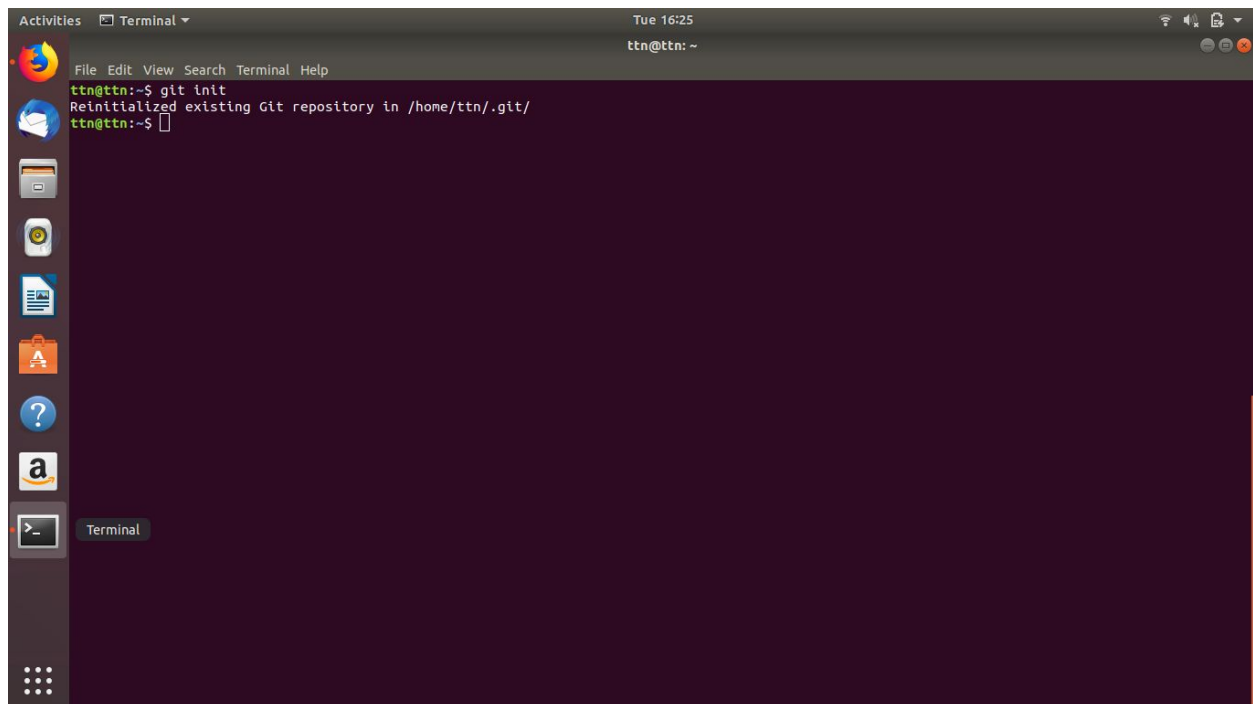
1. Git Setup <https://confluence.atlassian.com/bitbucket/set-up-git-744723531.html>



A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 16:23, ttn@ttn: ~). The terminal shows the command `sudo apt-get install git` being executed. The output indicates that Git is already installed at version 1:2.17.1-1ubuntu0.4 and is the newest version. The prompt returns to `ttn@ttn:~$`.

```
ttn@ttn:~$ sudo apt-get install git
[sudo] password for ttn:
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version (1:2.17.1-1ubuntu0.4).
0 upgraded, 0 newly installed, 0 to remove and 11 not upgraded.
ttn@ttn:~$
```

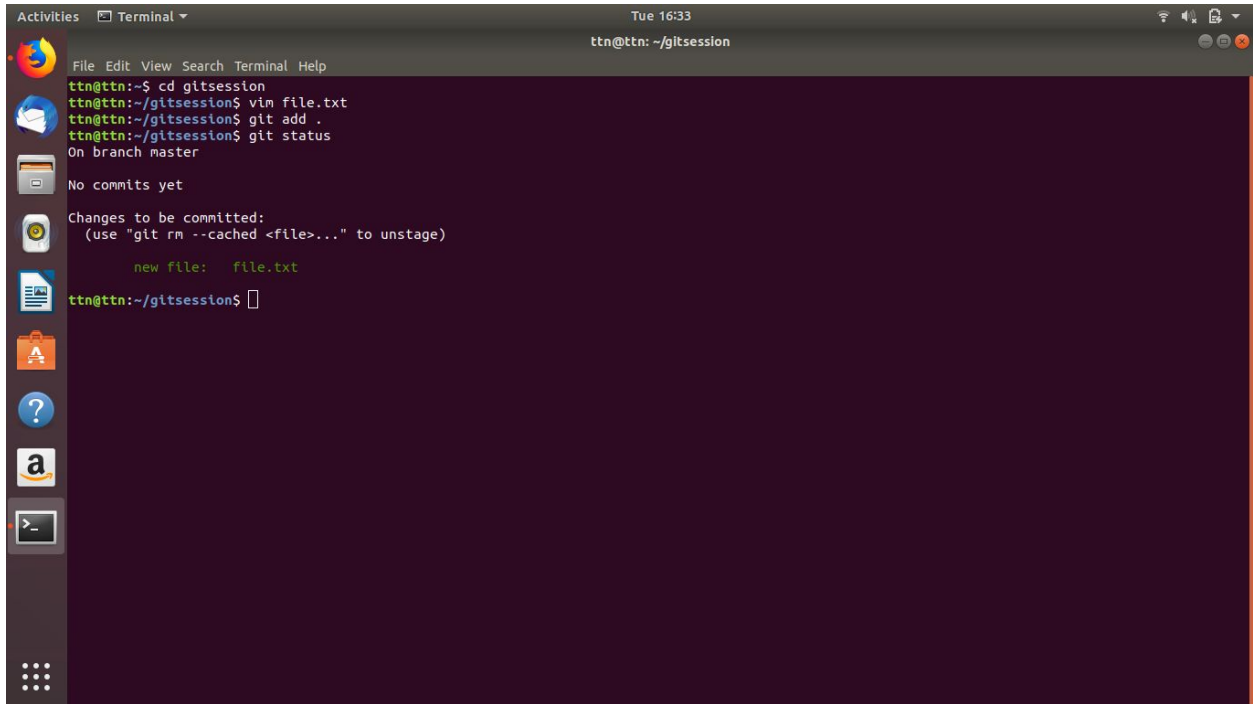
2. Initialize a Git Repository



A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 16:25, ttn@ttn: ~). The terminal shows the command `git init` being executed. The output indicates that a new Git repository has been initialized in the current directory. The prompt returns to `ttn@ttn:~$`.

```
ttn@ttn:~$ git init
Reinitialized existing Git repository in /home/ttn/.git/
ttn@ttn:~$
```

3. Add files to the repository.



A terminal window titled "Terminal" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 16:33, ttn@ttn: ~/gitsession). The terminal shows the following commands and output:

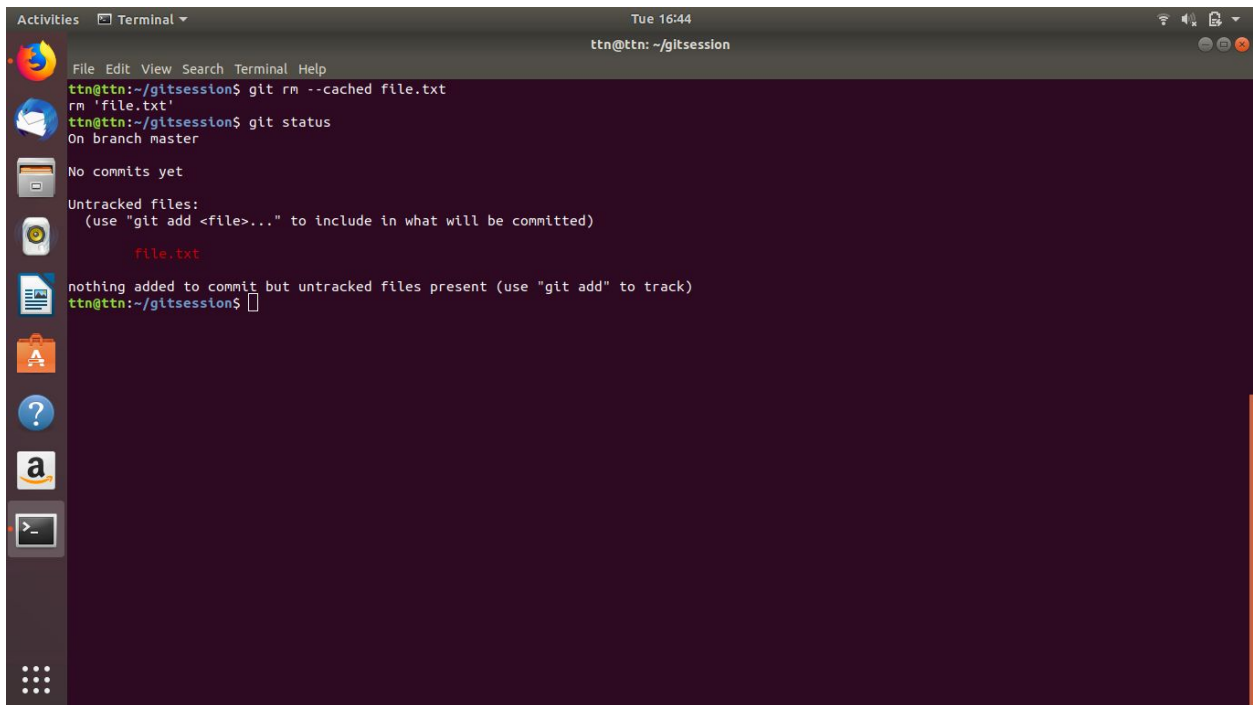
```
ttn@ttn:~$ cd gitsession
ttn@ttn:~/gitsession$ vim file.txt
ttn@ttn:~/gitsession$ git add .
ttn@ttn:~/gitsession$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   file.txt
ttn@ttn:~/gitsession$
```

4. Unstage 1 file



A terminal window titled "Terminal" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 16:44, ttn@ttn: ~/gitsession). The terminal shows the following commands and output:

```
ttn@ttn:~/gitsession$ git rm --cached file.txt
rm 'file.txt'
ttn@ttn:~/gitsession$ git status
On branch master

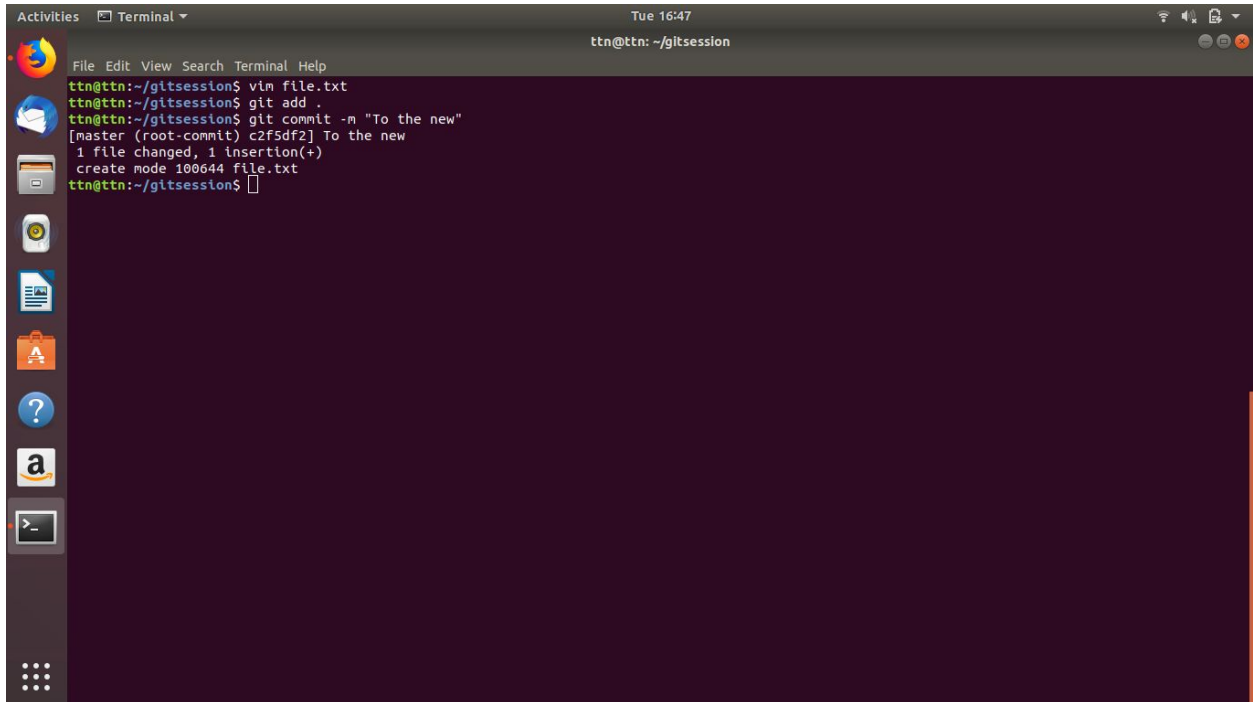
No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        file.txt

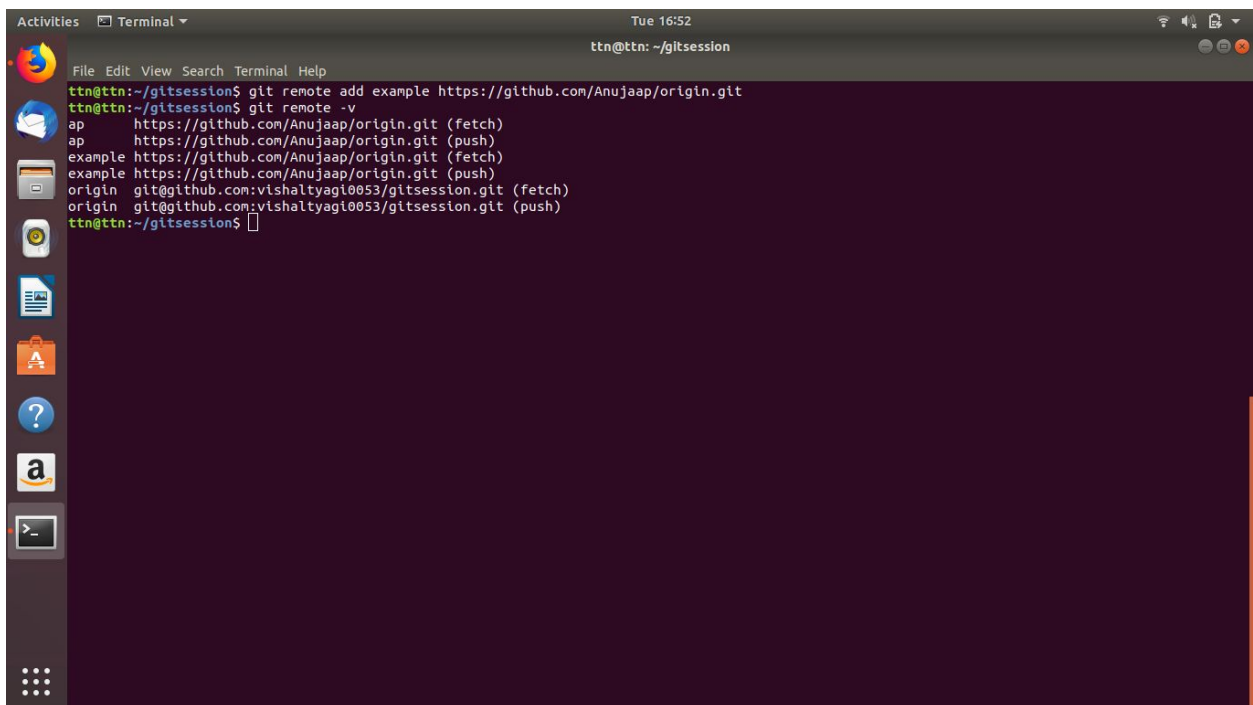
nothing added to commit but untracked files present (use "git add" to track)
ttn@ttn:~/gitsession$
```

5. Commit the file



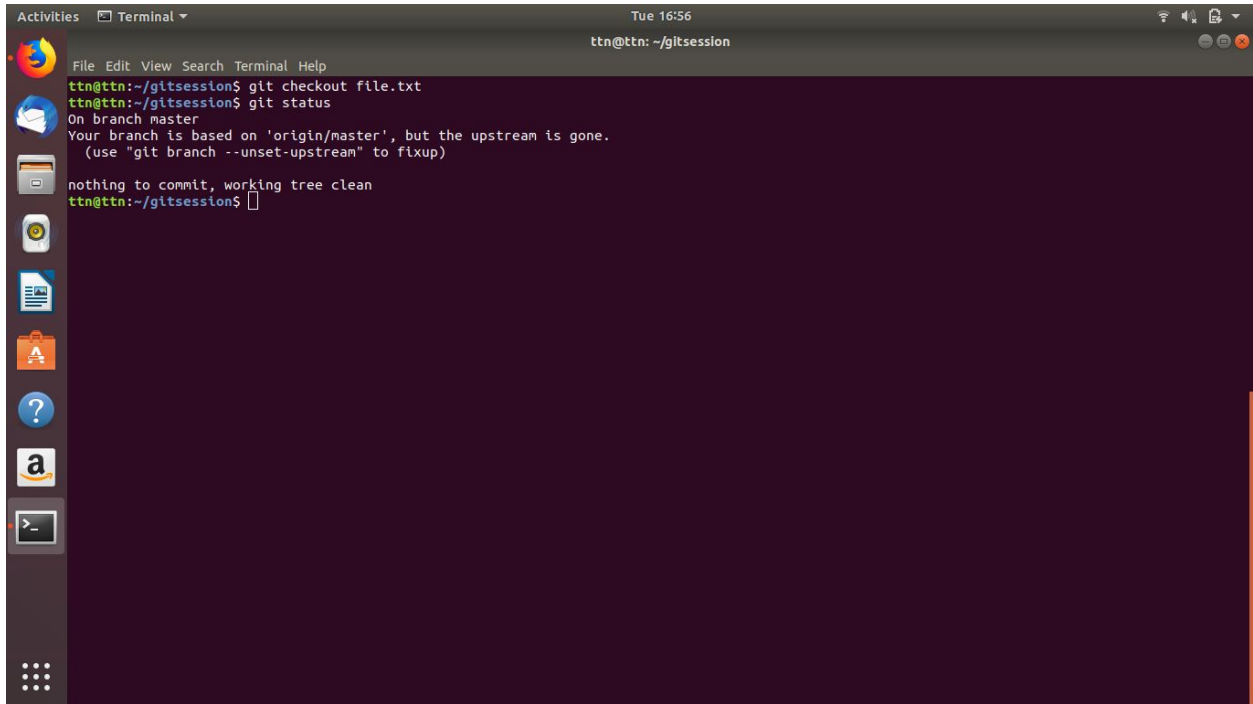
```
Activities Terminal Tue 16:47
ttn@ttn: ~/gitsession
File Edit View Search Terminal Help
ttn@ttn:~/gitsession$ vim file.txt
ttn@ttn:~/gitsession$ git add .
ttn@ttn:~/gitsession$ git commit -m "To the new"
[master (root-commit) c2f5df2] To the new
1 file changed, 1 insertion(+)
create mode 100644 file.txt
ttn@ttn:~/gitsession$
```

6. Add a remote.



```
Activities Terminal Tue 16:52
ttn@ttn: ~/gitsession
File Edit View Search Terminal Help
ttn@ttn:~/gitsession$ git remote add example https://github.com/Anujaap/origin.git
ttn@ttn:~/gitsession$ git remote -v
ap      https://github.com/Anujaap/origin.git (fetch)
ap      https://github.com/Anujaap/origin.git (push)
example https://github.com/Anujaap/origin.git (fetch)
example https://github.com/Anujaap/origin.git (push)
origin  git@github.com:vishalenyagi0053/gitsession.git (fetch)
origin  git@github.com:vishalenyagi0053/gitsession.git (push)
ttn@ttn:~/gitsession$
```

7. Undo changes to a particular file.

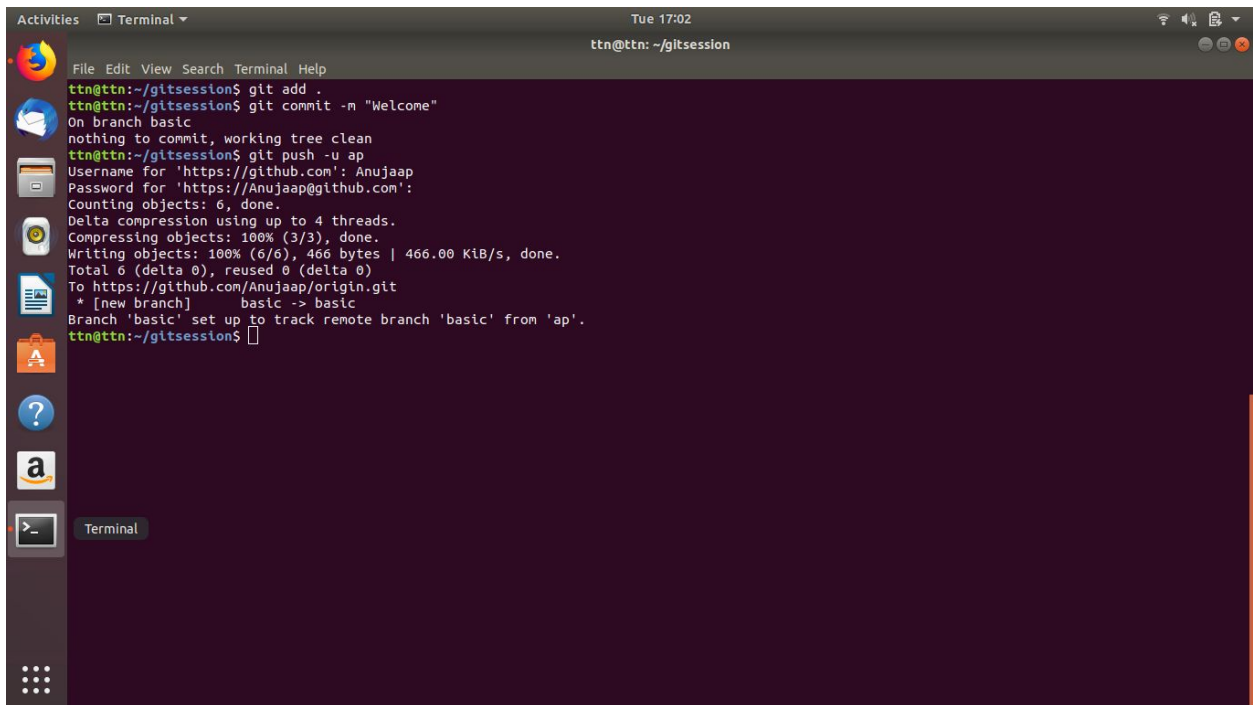


A terminal window titled "Terminal" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 16:56, ttn@ttn: ~/gitssession). The terminal shows the following commands and output:

```
ttn@ttn:~/gitssession$ git checkout file.txt
ttn@ttn:~/gitssession$ git status
On branch master
Your branch is based on 'origin/master', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)

nothing to commit, working tree clean
ttn@ttn:~/gitssession$
```

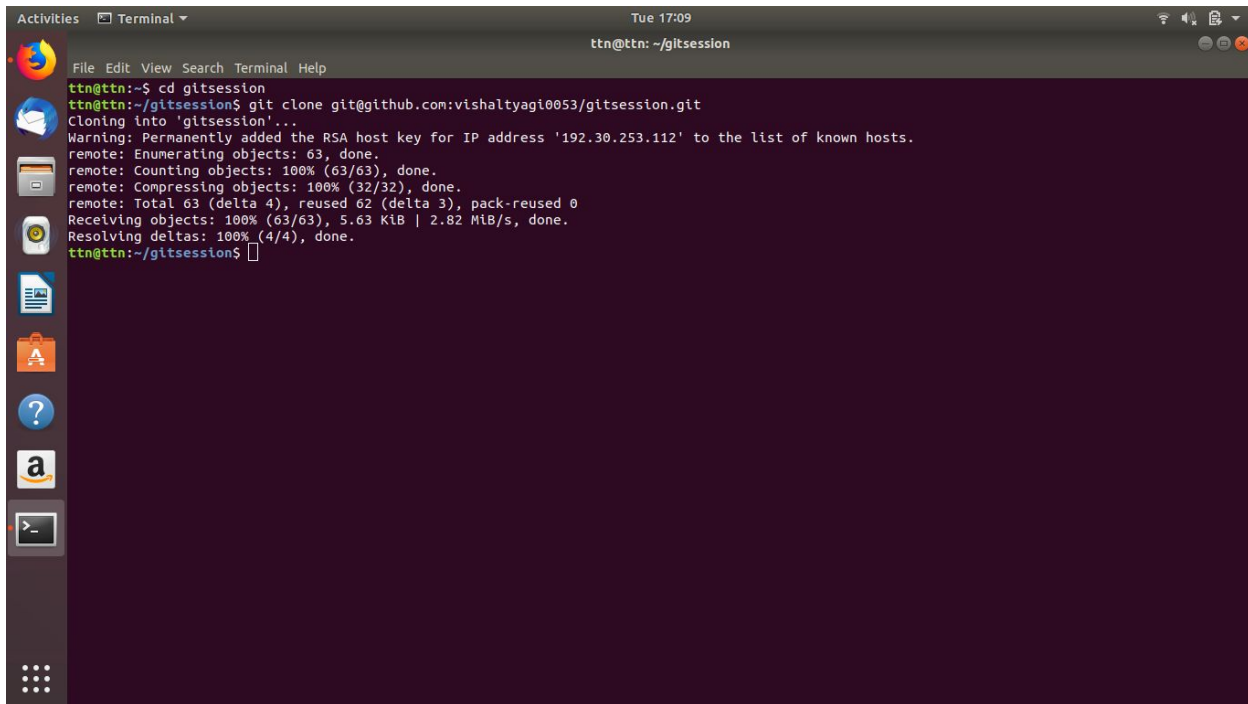
8. Push changes to Github.



A terminal window titled "Terminal" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 17:02, ttn@ttn: ~/gitssession). The terminal shows the following commands and output:

```
ttn@ttn:~/gitssession$ git add .
ttn@ttn:~/gitssession$ git commit -m "Welcome"
On branch basic
nothing to commit, working tree clean
ttn@ttn:~/gitssession$ git push -u ap
Username for 'https://github.com': Anujaap
Password for 'https://Anujaap@github.com':
Counting objects: 6, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 466 bytes | 466.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0)
To https://github.com/Anujaap/origin.git
 * [new branch]      basic -> basic
Branch 'basic' set up to track remote branch 'basic' from 'ap'.
ttn@ttn:~/gitssession$
```

9. Clone the repository.

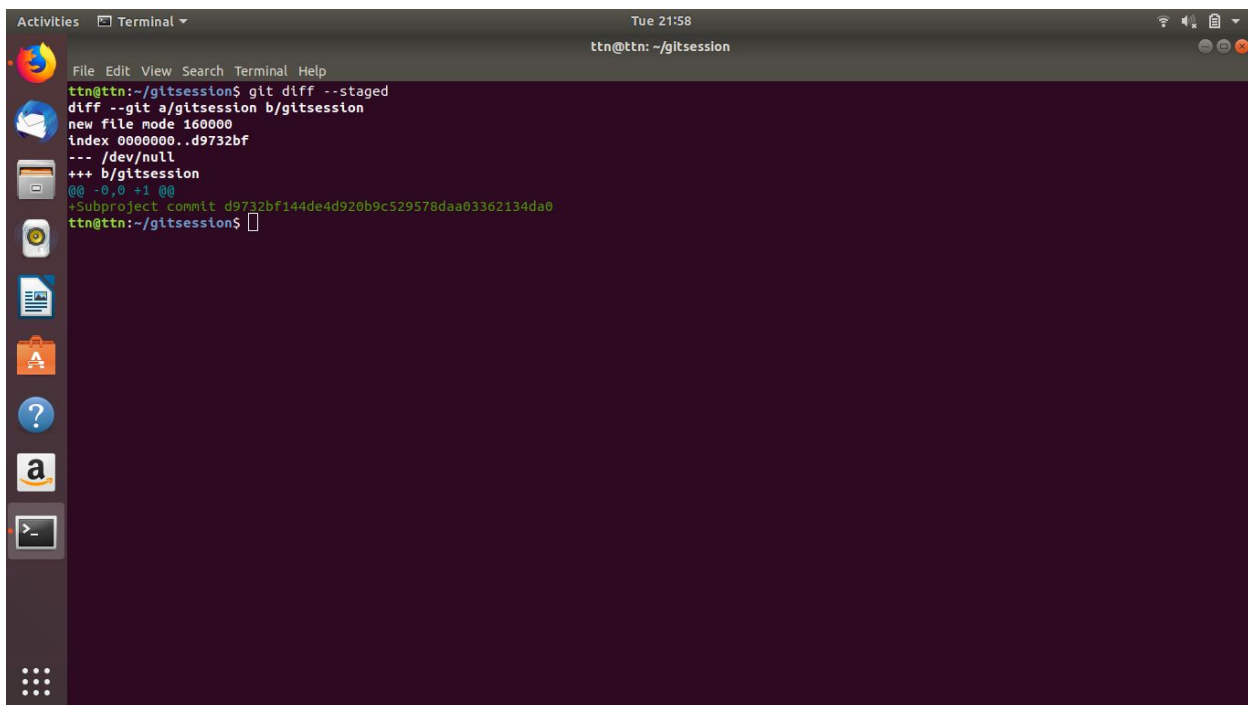


A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 17:09, ttn@ttn: ~/gitsession). The terminal shows the following commands and output:

```
ttn@ttn:~$ cd gitsession
ttn@ttn:~/gitsession$ git clone git@github.com:vishalatyagi0053/gitsession.git
Cloning into 'gitsession'...
Warning: Permanently added the RSA host key for IP address '192.30.253.112' to the list of known hosts.
remote: Enumerating objects: 63, done.
remote: Counting objects: 100% (63/63), done.
remote: Compressing objects: 100% (32/32), done.
remote: Total 63 (delta 4), reused 62 (delta 3), pack-reused 0
Receiving objects: 100% (63/63), 5.63 KiB | 2.82 MiB/s, done.
Resolving deltas: 100% (4/4), done.
ttn@ttn:~/gitsession$
```

10. Add changes to one of the copies and pull the changes in the other.

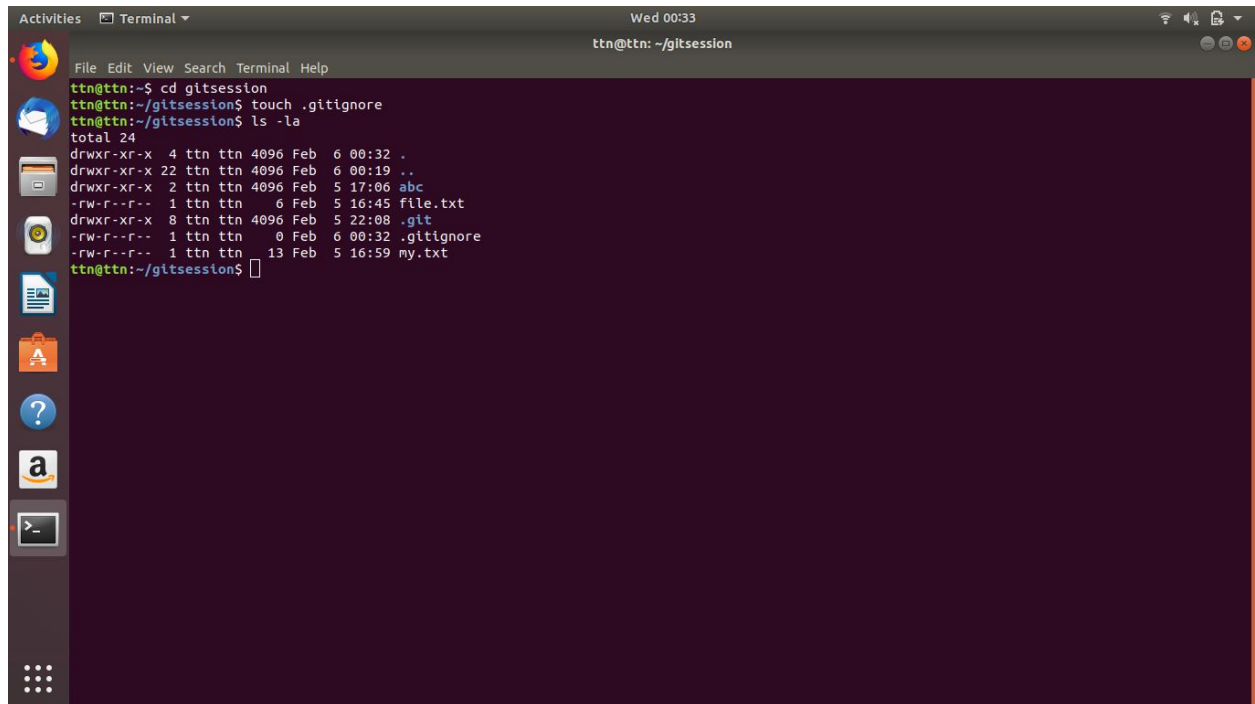
11. Check differences between a file and its staged version.



A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 21:58, ttn@ttn: ~/gitsession). The terminal shows the following commands and output:

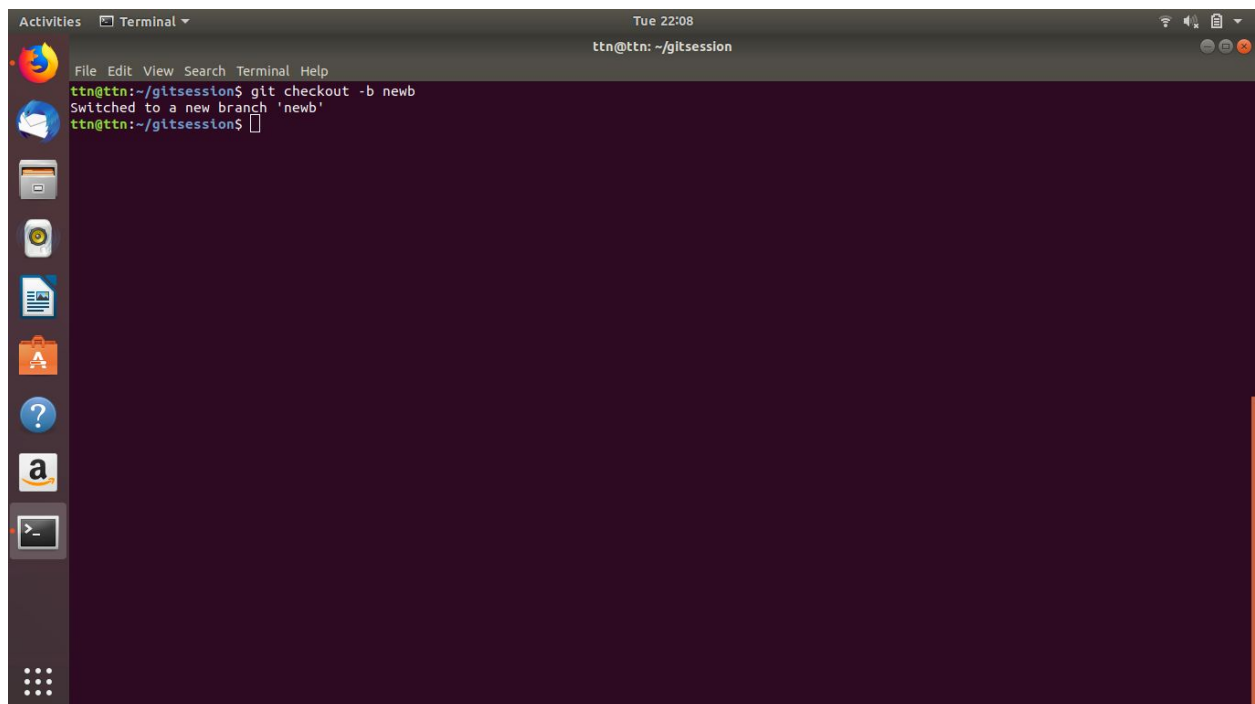
```
ttn@ttn:~/gitsession$ git diff --staged
diff --git a/gitsession b/gitsession
new file mode 160000
index 0000000..d9732bf
--- /dev/null
+++ b/gitsession
@@ -0,0 +1 @@
+Subproject commit d9732bf144de4d920b9c529578daa03362134da0
ttn@ttn:~/gitsession$
```

12. Ignore a few files to be checked in.

A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Wed 00:33, ttn@ttn: ~/gitlsession). The terminal shows the following commands and output:

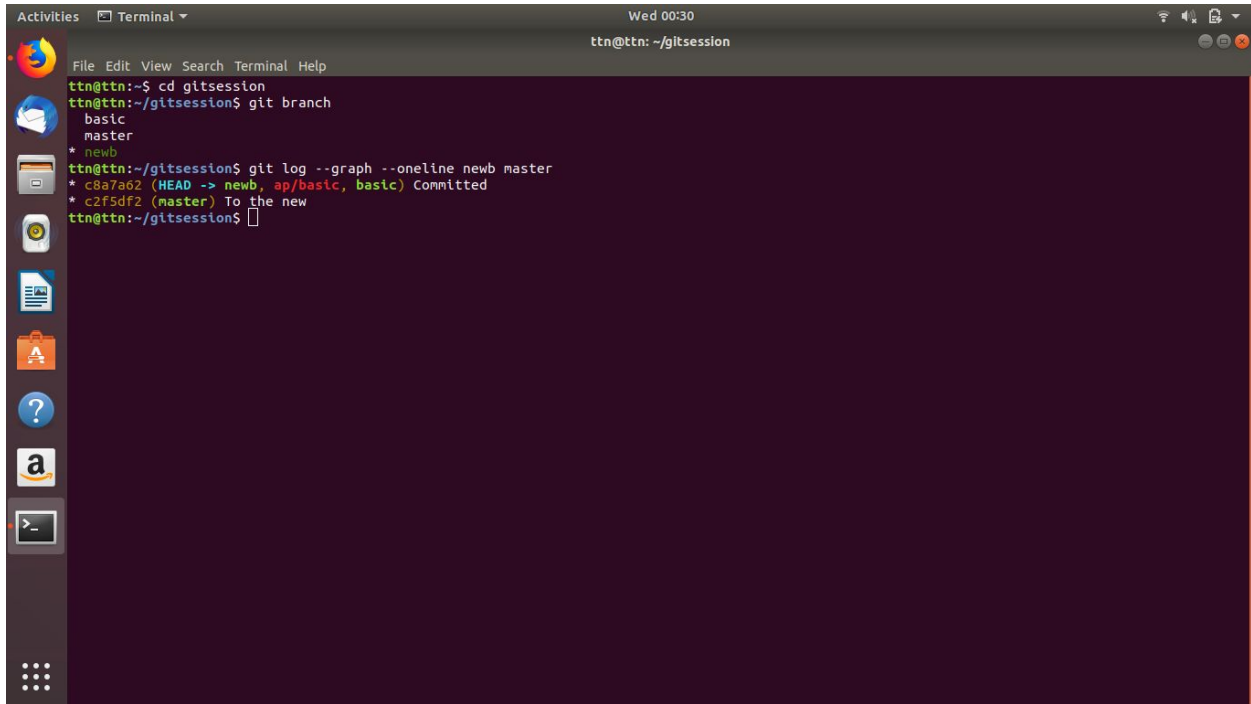
```
ttn@ttn:~$ cd gitlsession
ttn@ttn:~/gitlsession$ touch .gitignore
ttn@ttn:~/gitlsession$ ls -la
total 24
drwxr-xr-x  4 ttn ttn 4096 Feb  6 00:32 .
drwxr-xr-x 22 ttn ttn 4096 Feb  6 00:19 ..
drwxr-xr-x  2 ttn ttn 4096 Feb  5 17:06 abc
-rw-r--r--  1 ttn ttn   6 Feb  5 16:45 file.txt
drwxr-xr-x  8 ttn ttn 4096 Feb  5 22:08 .git
-rw-r--r--  1 ttn ttn   0 Feb  6 00:32 .gitignore
-rw-r--r--  1 ttn ttn  13 Feb  5 16:59 my.txt
ttn@ttn:~/gitlsession$
```

13. Create a new branch.

A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Tue 22:08, ttn@ttn: ~/gitlsession). The terminal shows the following commands and output:

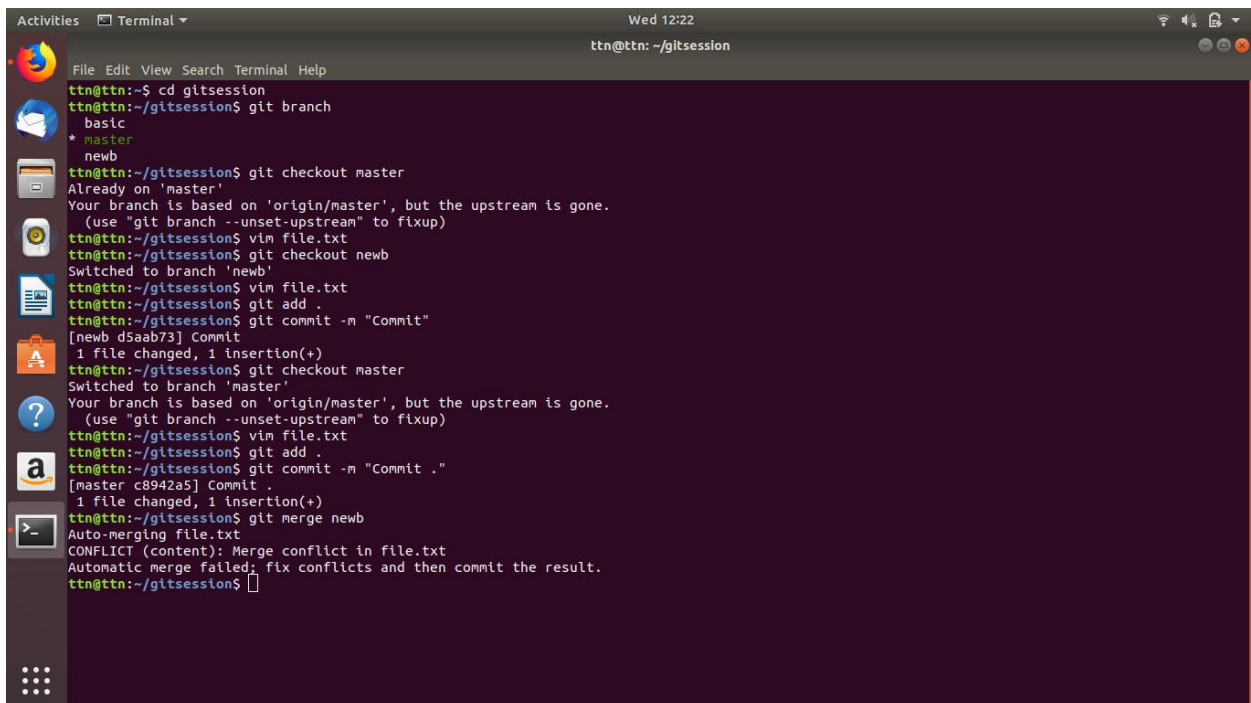
```
ttn@ttn:~/gitlsession$ git checkout -b newb
Switched to a new branch 'newb'
ttn@ttn:~/gitlsession$
```

14. Diverge them with commits.

A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Wed 00:30, ttn@ttn: ~/gitstsession). The terminal shows the following commands and output:

```
ttn@ttn:~$ cd gitstsession
ttn@ttn:~/gitstsession$ git branch
  basic
* master
* newb
ttn@ttn:~/gitstsession$ git log --graph --oneline newb master
* c8a7a62 (HEAD -> newb, ap/basic, basic) Committed
* c2f5df2 (master) To the new
ttn@ttn:~/gitstsession$
```

15. Edit the same file at the same line on both branches and commit.

A terminal window titled 'Terminal' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Wed 12:22, ttn@ttn: ~/gitstsession). The terminal shows the following commands and output:

```
ttn@ttn:~$ cd gitstsession
ttn@ttn:~/gitstsession$ git branch
  basic
* master
* newb
ttn@ttn:~/gitstsession$ git checkout master
Already on 'master'
Your branch is based on 'origin/master', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)
ttn@ttn:~/gitstsession$ vim file.txt
ttn@ttn:~/gitstsession$ git checkout newb
Switched to branch 'newb'
ttn@ttn:~/gitstsession$ vim file.txt
ttn@ttn:~/gitstsession$ git add .
ttn@ttn:~/gitstsession$ git commit -m "Commit"
[newb d5aab73] Commit
1 file changed, 1 insertion(+)
ttn@ttn:~/gitstsession$ git checkout master
Switched to branch 'master'
Your branch is based on 'origin/master', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)
ttn@ttn:~/gitstsession$ vim file.txt
ttn@ttn:~/gitstsession$ git add .
ttn@ttn:~/gitstsession$ git commit -m "Commit ."
[master c8942a5] Commit .
1 file changed, 1 insertion(+)
ttn@ttn:~/gitstsession$ git merge newb
Auto-merging file.txt
CONFLICT (content): Merge conflict in file.txt
Automatic merge failed; fix conflicts and then commit the result.
ttn@ttn:~/gitstsession$
```

16. Try merging and resolve merge conflicts.


```
Activities Terminal Wed 12:24
ttn@ttn: ~/gltsession

File Edit View Search Terminal Help
ttn@ttn:~/gltsession$ vim file.txt
ttn@ttn:~/gltsession$ git add .
ttn@ttn:~/gltsession$ git commit -m "Commit"
[newb d5aab73] Commit
1 file changed, 1 insertion(+)
ttn@ttn:~/gltsession$ git checkout master
Switched to branch 'master'
Your branch is based on 'origin/master', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)
ttn@ttn:~/gltsession$ vim file.txt
ttn@ttn:~/gltsession$ git add .
ttn@ttn:~/gltsession$ git commit -m "Commit ."
[master c8942a5] Commit .
1 file changed, 1 insertion(+)
ttn@ttn:~/gltsession$ git merge newb
Auto-merging file.txt
CONFLICT (content): Merge conflict in file.txt
Automatic merge failed; fix conflicts and then commit the result.
ttn@ttn:~/gltsession$ git status
On branch master
Your branch is based on 'origin/master', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)

        both modified:   file.txt

no changes added to commit (use "git add" and/or "git commit -a")
ttn@ttn:~/gltsession$ vim file.txt
ttn@ttn:~/gltsession$ git add .
ttn@ttn:~/gltsession$ git commit -m "Resolved"
[master 54d9ca4] Resolved
ttn@ttn:~/gltsession$
```

17. Stash the changes and pop them.

```
Activities Terminal Wed 12:27
ttn@ttn: ~/gltsession

File Edit View Search Terminal Help
  (use "git branch --unset-upstream" to fixup)

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)

        both modified:   file.txt

no changes added to commit (use "git add" and/or "git commit -a")
ttn@ttn:~/gltsession$ vim file.txt
ttn@ttn:~/gltsession$ git add .
ttn@ttn:~/gltsession$ git commit -m "Resolved"
[master 54d9ca4] Resolved
ttn@ttn:~/gltsession$ git checkout master
Already on 'master'
Your branch is based on 'origin/master', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)
ttn@ttn:~/gltsession$ vim file.txt
ttn@ttn:~/gltsession$ git add .
ttn@ttn:~/gltsession$ git stash
Saved working directory and index state WIP on master: 54d9ca4 Resolved
ttn@ttn:~/gltsession$ git stash list
stash@{0}: WIP on master: 54d9ca4 Resolved
ttn@ttn:~/gltsession$ git checkout newb
Switched to branch 'newb'
ttn@ttn:~/gltsession$ vim file.txt
ttn@ttn:~/gltsession$ git stash pop
Auto-merging file.txt
CONFLICT (content): Merge conflict in file.txt
ttn@ttn:~/gltsession$ vim file.txt
ttn@ttn:~/gltsession$ git add .
ttn@ttn:~/gltsession$ git commit -m "Done"
[newb 8d3d08b] Done
1 file changed, 3 insertions(+)
ttn@ttn:~/gltsession$
```

18. Add the following code to your .bashrc file : color_prompt="yes"

```
parse_git_branch() {
```



```
git branch 2> /dev/null | sed -e '/^[^*]/d' -e 's/* \(.*/(\1)/'

}

if [ "$color_prompt" = yes ]; then

    PS1="\u@\h\[\033[00m\]:\[\033[01;34m\]\W\[\033[01;31m\]
$(parse_git_branch)\[\033[00m\]\$ '

else

    PS1="\u@\h:\W $(parse_git_branch)\$ '

fi

unset color_prompt force_color_prompt
```

