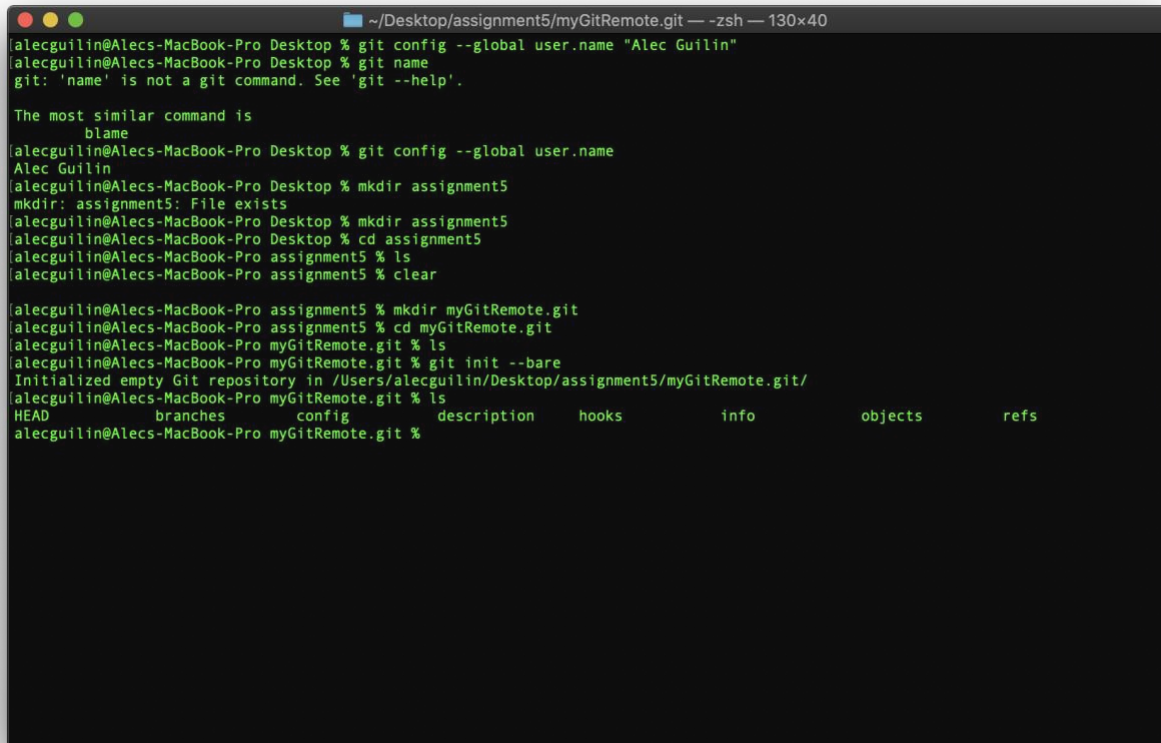


Alec Guilin
CS 441
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Assignment 5

Screenshot 1:

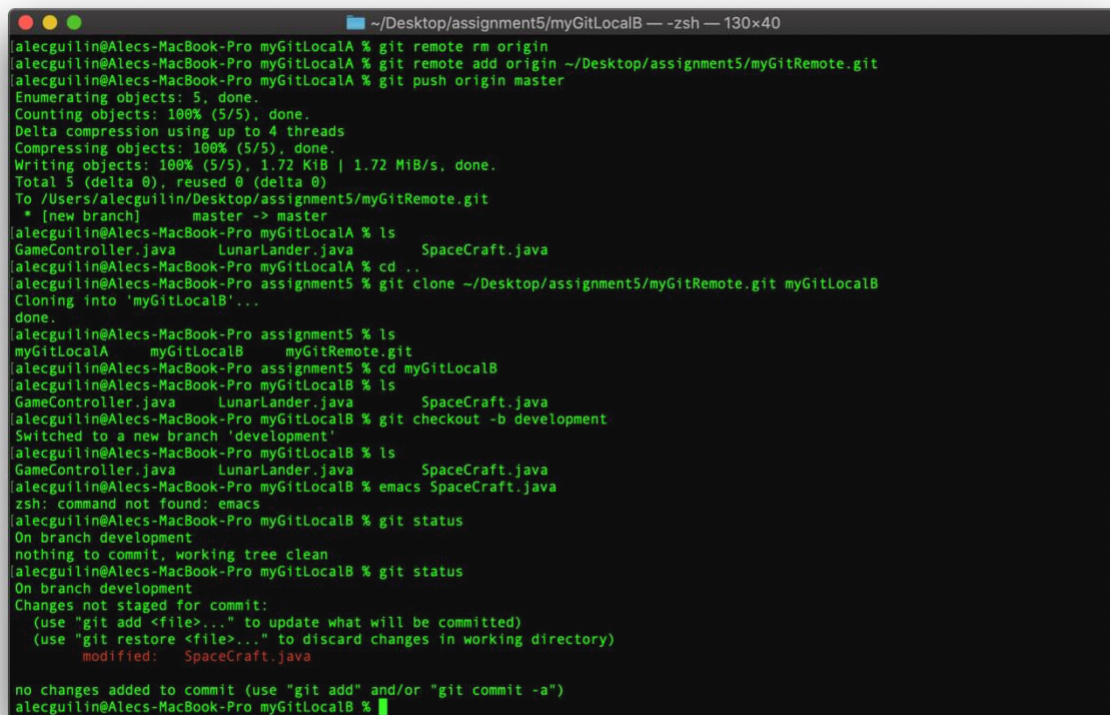


```
~/Desktop/assignment5/myGitRemote.git — zsh — 130x40
alecguilin@Alecs-MacBook-Pro Desktop % git config --global user.name "Alec Guilin"
alecguilin@Alecs-MacBook-Pro Desktop % git name
git: 'name' is not a git command. See 'git --help'.

The most similar command is
  blame
alecguilin@Alecs-MacBook-Pro Desktop % git config --global user.name
Alec Guilin
alecguilin@Alecs-MacBook-Pro Desktop % mkdir assignment5
mkdir: assignment5: File exists
alecguilin@Alecs-MacBook-Pro Desktop % mkdir assignment5
alecguilin@Alecs-MacBook-Pro Desktop % cd assignment5
alecguilin@Alecs-MacBook-Pro assignment5 % ls
alecguilin@Alecs-MacBook-Pro assignment5 % clear

alecguilin@Alecs-MacBook-Pro assignment5 % mkdir myGitRemote.git
alecguilin@Alecs-MacBook-Pro assignment5 % cd myGitRemote.git
alecguilin@Alecs-MacBook-Pro myGitRemote.git % ls
alecguilin@Alecs-MacBook-Pro myGitRemote.git % git init --bare
Initialized empty Git repository in /Users/alecguilin/Desktop/assignment5/myGitRemote.git/
alecguilin@Alecs-MacBook-Pro myGitRemote.git % ls
HEAD          branches      config        description   hooks         info          objects       refs
alecguilin@Alecs-MacBook-Pro myGitRemote.git %
```

Screenshot 2:



```
alecguilin@Alecs-MacBook-Pro myGitLocalA % git remote rm origin
alecguilin@Alecs-MacBook-Pro myGitLocalA % git remote add origin ~/Desktop/assignment5/myGitRemote.git
alecguilin@Alecs-MacBook-Pro myGitLocalA % git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 1.72 KiB | 1.72 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0)
To /Users/alecguilin/Desktop/assignment5/myGitRemote.git
 * [new branch]      master -> master
alecguilin@Alecs-MacBook-Pro myGitLocalA % ls
GameController.java  LunarLander.java  SpaceCraft.java
alecguilin@Alecs-MacBook-Pro myGitLocalA % cd ..
alecguilin@Alecs-MacBook-Pro assignment5 % git clone ~/Desktop/assignment5/myGitRemote.git myGitLocalB
Cloning into 'myGitLocalB'...
done.
alecguilin@Alecs-MacBook-Pro assignment5 % ls
myGitLocalA  myGitLocalB  myGitRemote.git
alecguilin@Alecs-MacBook-Pro assignment5 % cd myGitLocalB
alecguilin@Alecs-MacBook-Pro myGitLocalB % ls
GameController.java  LunarLander.java  SpaceCraft.java
alecguilin@Alecs-MacBook-Pro myGitLocalB % git checkout -b development
Switched to a new branch 'development'
alecguilin@Alecs-MacBook-Pro myGitLocalB % ls
GameController.java  LunarLander.java  SpaceCraft.java
alecguilin@Alecs-MacBook-Pro myGitLocalB % emacs SpaceCraft.java
zsh: command not found: emacs
alecguilin@Alecs-MacBook-Pro myGitLocalB % git status
On branch development
nothing to commit, working tree clean
alecguilin@Alecs-MacBook-Pro myGitLocalB % git status
On branch development
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   SpaceCraft.java

no changes added to commit (use "git add" and/or "git commit -a")
alecguilin@Alecs-MacBook-Pro myGitLocalB %
```

Question 1:

Open the file SpaceCraft.java again. Are your changes still there? Why?

Changes are not there because we switched back to the master branch from the newly created development branch where we made our changes.

Question 2:

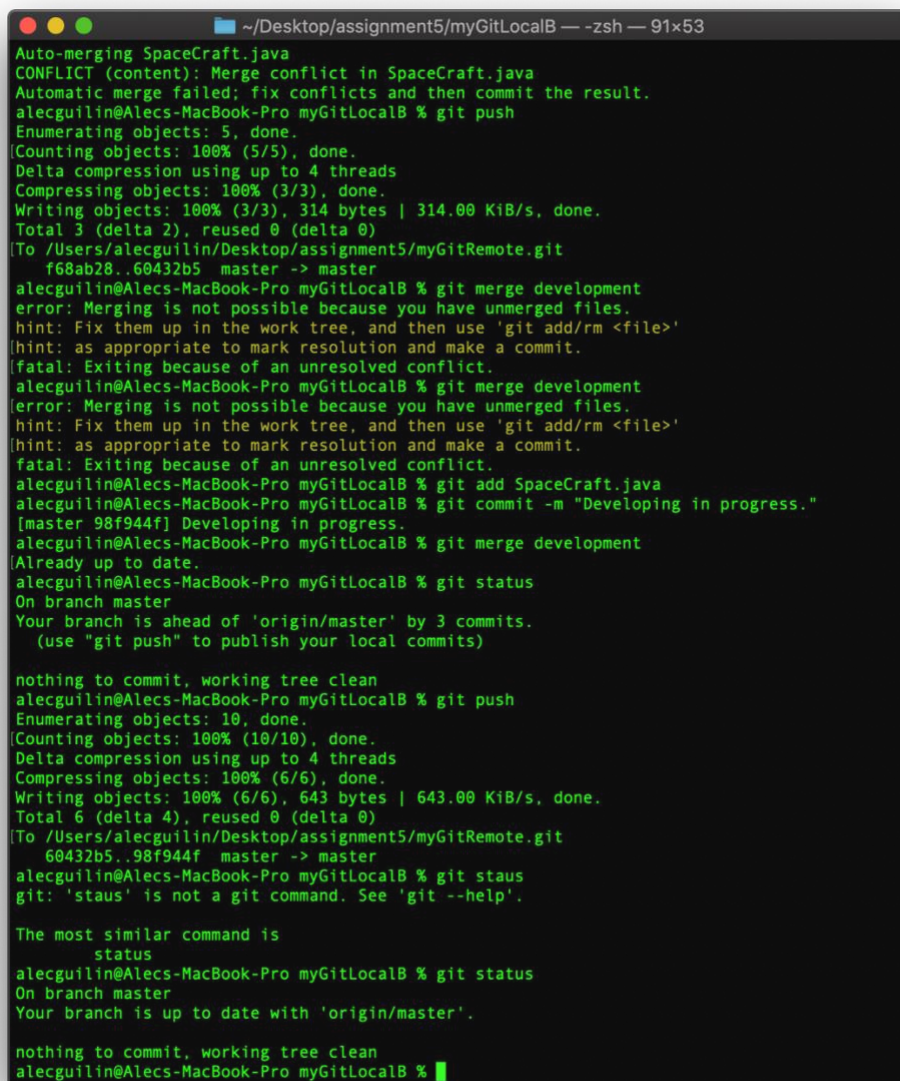
Open the file SpaceCraft.java. Do you see the changes you just made? Again, why?

Yes, we see the changes because we created a tracking branch from the remote branch origin/development where our original changes to SpaceCraft.java were made.

Task 1:

In order to cause a merging conflict, I made some changes to the same line of code in the same file (SpaceCraft.java) in different branches. Once I finished making the changes, I stashed and committed them to the DEVELOPMENT branch. When I attempted to checkout the MASTER branch and merge the DEVELOPMENT branch, a merging conflict arose. I had to manually change the conflicting line of code (which was just a comment at the beginning of the program) then I was able to successfully merge DEVELOPMENT with MASTER and use git push to push to the remote repository without any errors.

Screenshot 3:



```
~/Desktop/assignment5/myGitLocalB — zsh — 91x53
Auto-merging SpaceCraft.java
CONFLICT (content): Merge conflict in SpaceCraft.java
Automatic merge failed; fix conflicts and then commit the result.
alecguilin@Alecs-MacBook-Pro myGitLocalB % git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 314 bytes | 314.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0)
To /Users/alecguilin/Desktop/assignment5/myGitRemote.git
 f68ab28..60432b5 master -> master
alecguilin@Alecs-MacBook-Pro myGitLocalB % git merge development
error: Merging is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
alecguilin@Alecs-MacBook-Pro myGitLocalB % git merge development
error: Merging is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
alecguilin@Alecs-MacBook-Pro myGitLocalB % git add SpaceCraft.java
alecguilin@Alecs-MacBook-Pro myGitLocalB % git commit -m "Developing in progress."
[master 98f944f] Developing in progress.
alecguilin@Alecs-MacBook-Pro myGitLocalB % git merge development
Already up to date.
alecguilin@Alecs-MacBook-Pro myGitLocalB % git status
On branch master
Your branch is ahead of 'origin/master' by 3 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
alecguilin@Alecs-MacBook-Pro myGitLocalB % git push
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 643 bytes | 643.00 KiB/s, done.
Total 6 (delta 4), reused 0 (delta 0)
To /Users/alecguilin/Desktop/assignment5/myGitRemote.git
 60432b5..98f944f master -> master
alecguilin@Alecs-MacBook-Pro myGitLocalB % git staus
git: 'staus' is not a git command. See 'git --help'.

The most similar command is
  status
alecguilin@Alecs-MacBook-Pro myGitLocalB % git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
alecguilin@Alecs-MacBook-Pro myGitLocalB %
```