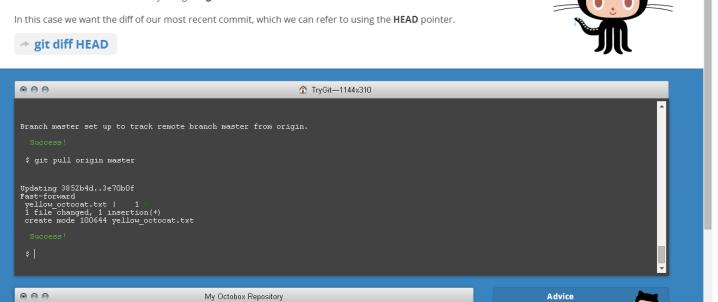




Uh oh, looks like there have been some additions and changes to the octocat family. Let's take a look at what is **different** from our last commit by using the **git diff** command.





# 1.14 · Staged Differences

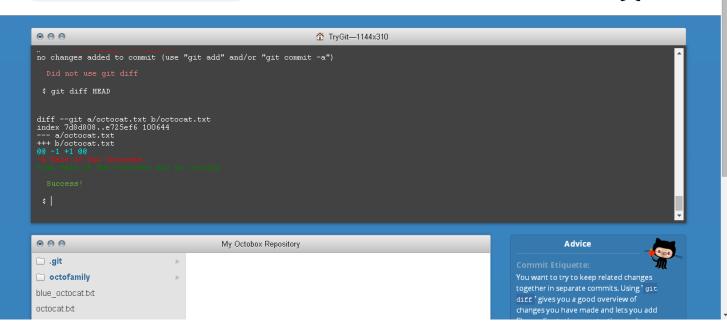
Another great use for **diff** is looking at changes within files that have already been staged. Remember, staged files are files we have told git that are ready to be committed.

Let's use **git add** to stage **octofamily/octodog.txt**, which I just added to the family for you.

→ git add octofamily/octodog.txt



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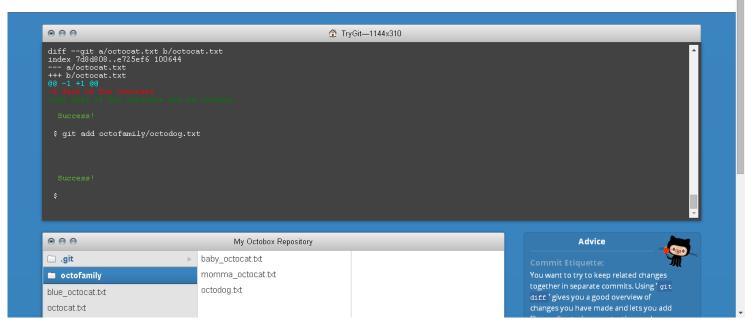




Good, now go ahead and run git diff with the --staged option to see the changes you just staged. You should see that octodog.txt was created.







## 1.16 · Resetting the Stage

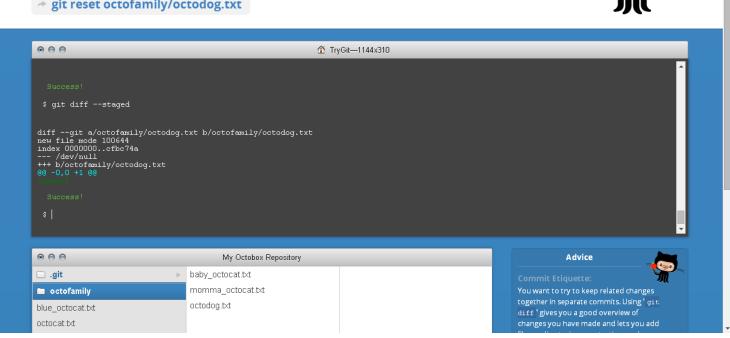
 $\langle \rangle$ 

So now that octodog is part of the family, octocat is all depressed. Since we love octocat more than octodog, we'll turn his frown around by removing  ${\bf octodog.txt.}$ 

You can unstage files by using the git reset command. Go ahead and remove octofamily/octodog.txt.

→ git reset octofamily/octodog.txt





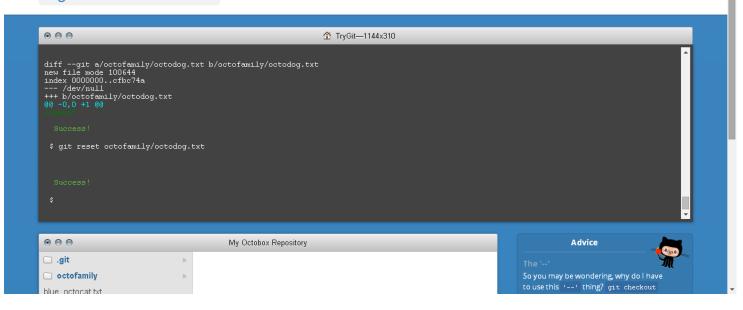


git reset did a great job of unstaging octodog.txt, but you'll notice that he's still there. He's just not staged anymore. It would be great if we could go back to how things were before octodog came around and ruined the party.





git checkout -- octocat.txt



## 1.18 · Branching Out

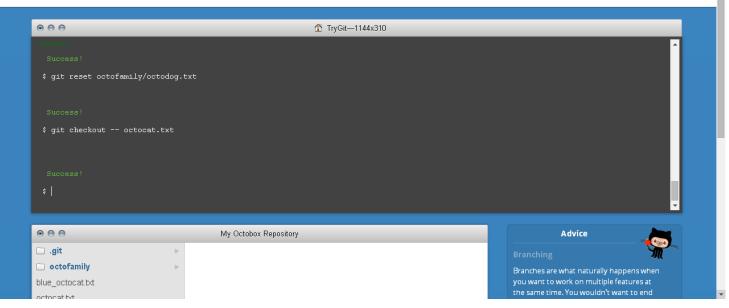
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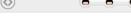
When developers are working on a feature or bug they'll often create a copy (aka. **branch**) of their code they can make separate commits to. Then when they're done they can merge this branch back into their main **master** branch.

We want to remove all these pesky octocats, so let's create a branch called **clean\_up**, where we'll do all the work:



git branch clean\_up





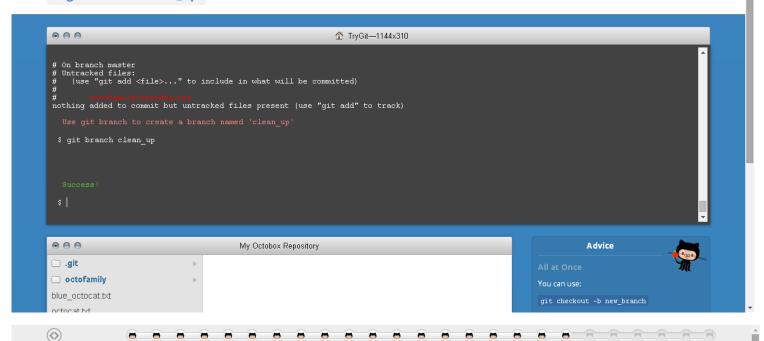
1.19 · Switching Branches

Great! Now if you type **git branch** you'll see two local branches: a main branch named **master** and your new branch named **clean\_up**.

You can switch branches using the **git checkout <branch>** command. Try it now to switch to the **clean\_up** branch:



git checkout clean\_up



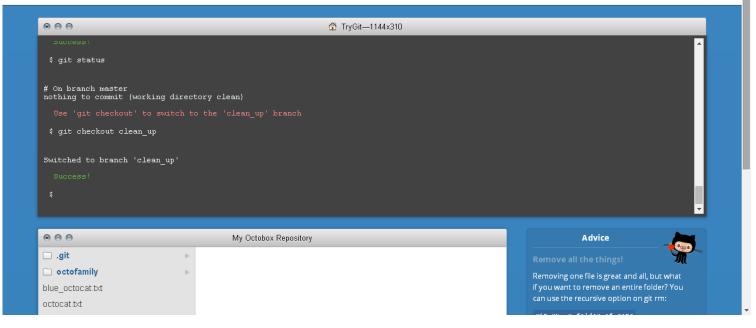
## 1.20 · Removing All The Things

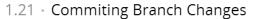
Ok, so you're in the **clean\_up** branch. You can finally remove all those pesky octocats by using the **git rm** command which will not only remove the actual files from disk, but will also stage the removal of the files for us.

You're going to want to use a wildcard again to get all the octocats in one sweep, go ahead and run:









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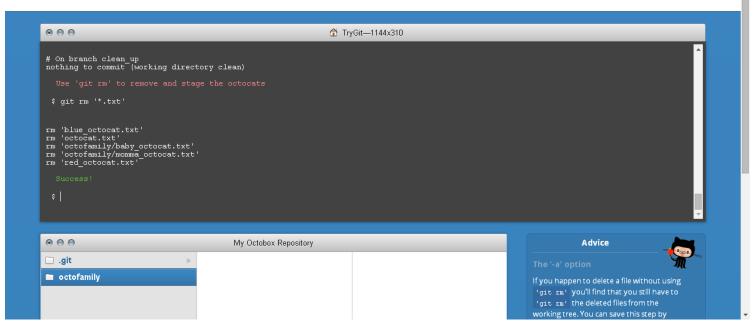
Now that you've removed all the cats you'll need to commit your changes.

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Feel free to run git status to check the changes you're about to commit.

→ git commit -m "Remove all the cats"





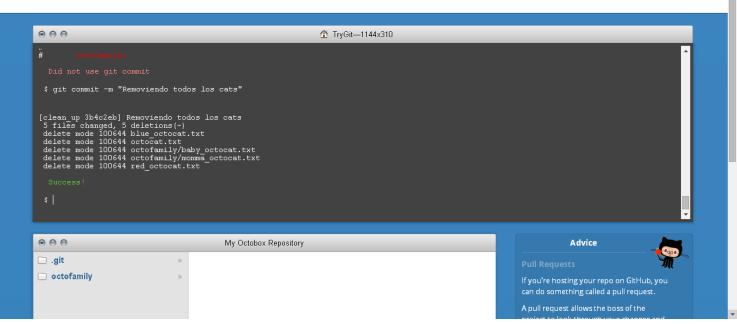
# 1.22 · Switching Back to master

Great, you're almost finished with the cat... er the bug fix, you just need to switch back to the **master** branch so you can copy (or **merge**) your changes from the **clean\_up** branch back into the **master** branch.

Go ahead and checkout the master branch:

→ git checkout master





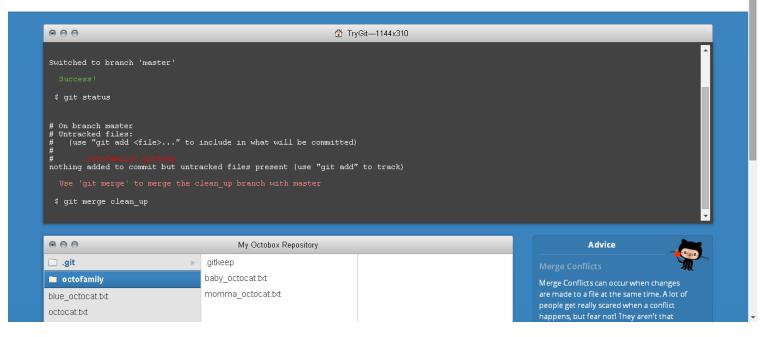


Alrighty, the moment has come when you have to merge your changes from the **clean\_up** branch into the **master** branch. Take a deep breath, it's not that scary.

We're already on the **master** branch, so we just need to tell Git to merge the **clean\_up** branch into it:

→ git merge clean\_up





# 1.24 · Keeping Things Clean

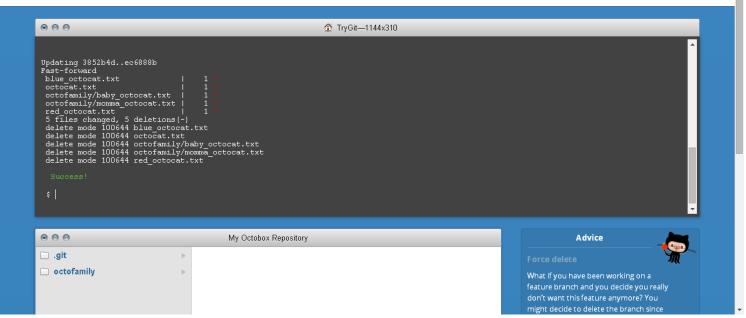
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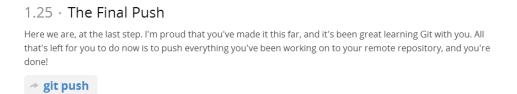
Congratulations! You just accomplished your first successful bugfix and merge. All that's left to do is clean up after yourself. Since you're done with the **clean\_up** branch you don't need it anymore.

You can use git branch -d <br/> sranch name> to delete a branch. Go ahead and delete the clean\_up branch now:

→ git branch -d clean\_up

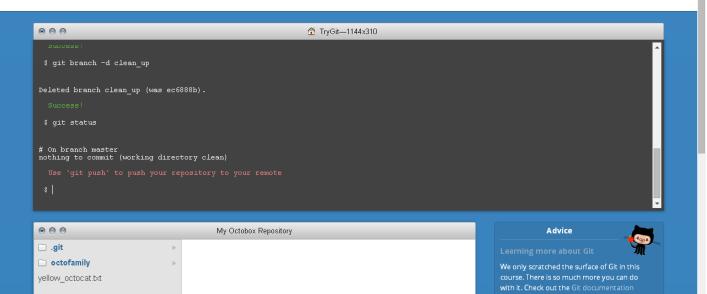






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#### 1.25 · The Final Push

Great! You now have a little taste of the greatness of Git. You can take a look at the wrap up page for a little more information on Git and GitHub, oh, and of course your badge!



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