

TUTORIAL DE GIT

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Presentacion Clase #3...

Code School - Try Git

https://try.github.io/levels/1/challenges/1

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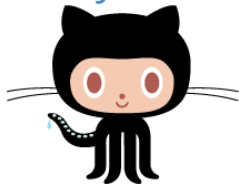
1.1 · Got 15 minutes and want to learn Git?

Git allows groups of people to work on the same documents (often code) at the same time, and without stepping on each other's toes. It's a distributed version control system.

Our terminal prompt below is currently in directory we decided to name "octobox". To initialize a Git repository here, type the following command:

git init

tryGit



TryGit—887x310

Press enter to submit commands

> |

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1.2 · Checking the Status


Good job! As Git just told us, our "octobox" directory now has an empty repository in `/.git/`. The repository is a hidden directory where Git operates.

To save your progress as you go through this tutorial -- and earn a badge when you successfully complete it -- head over to [create a free Code School account](#). We'll wait for you here.

Next up, let's type the git status command to see what the current state of our project is:

git status

tryGit



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Press enter to submit commands

> git init

Initialized empty Git repository in /.git/

Success!

\$ |

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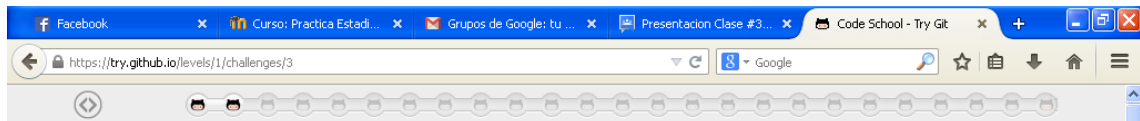
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Code School - Try Git

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Google

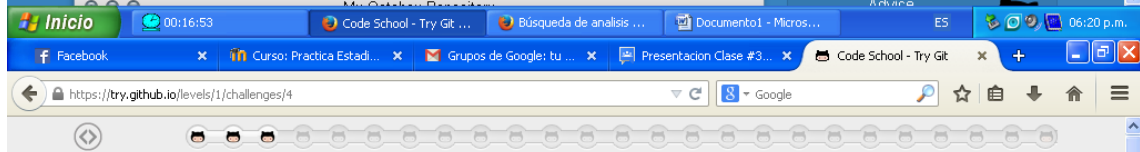
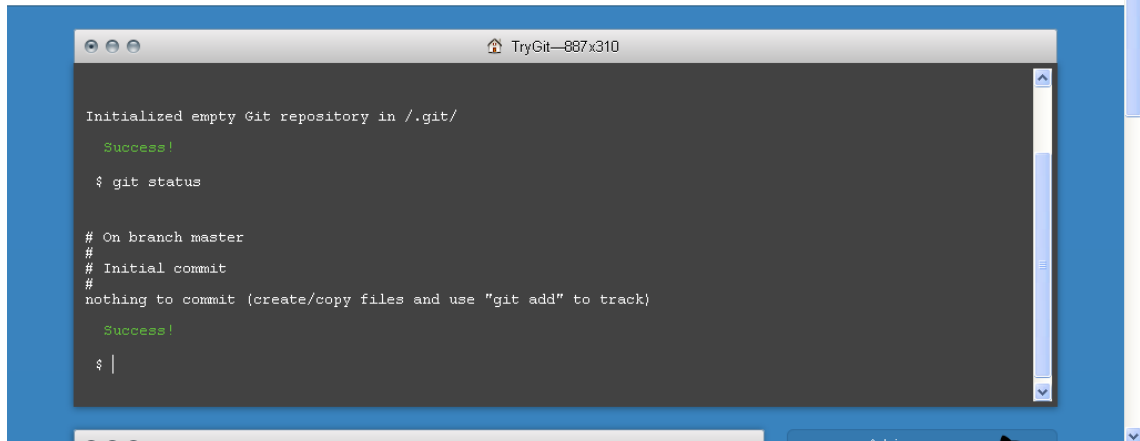


1.3 - Adding & Committing

I created a file called octocat.txt in the octobox repository for you (as you can see in the browser below).

You should run the git status command again to see how the repository status has changed:

[git status](#)

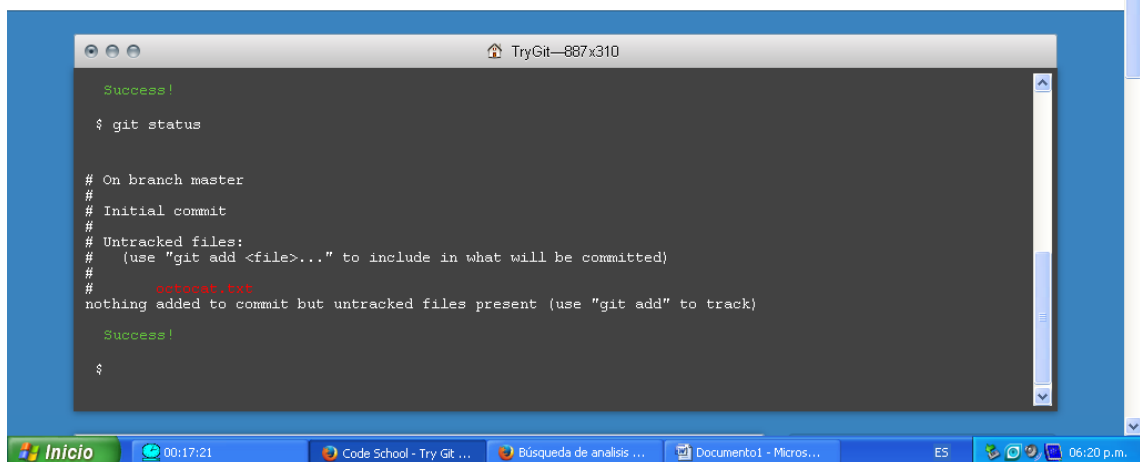


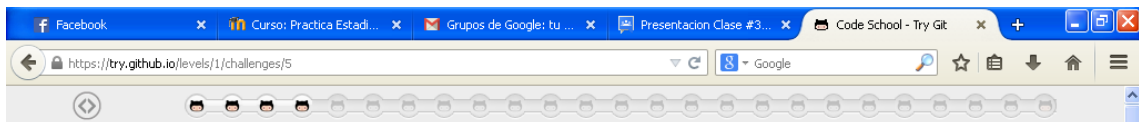
1.4 - Adding Changes

Good, it looks like our Git repository is working properly. Notice how Git says octocat.txt is "untracked"? That means Git sees that octocat.txt is a new file.

To tell Git to start tracking changes made to octocat.txt, we first need to add it to the staging area by using git add.

[git add octocat.txt](#)

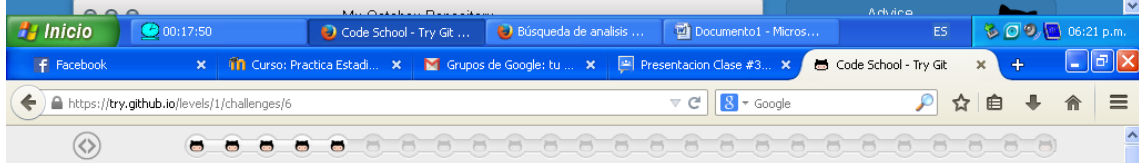
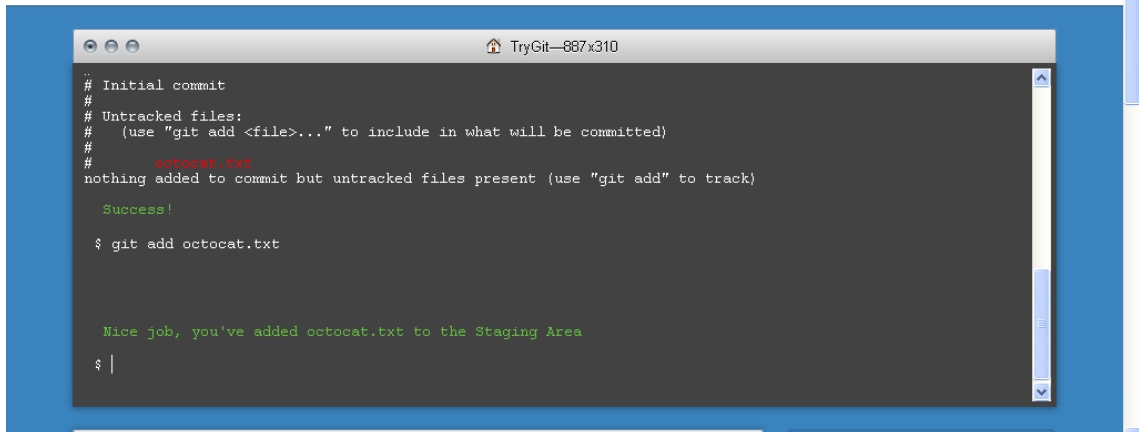




1.5 · Checking for Changes

Good job! Git is now tracking our octocat.txt file. Let's run git status again to see where we stand:

➔ `git status`

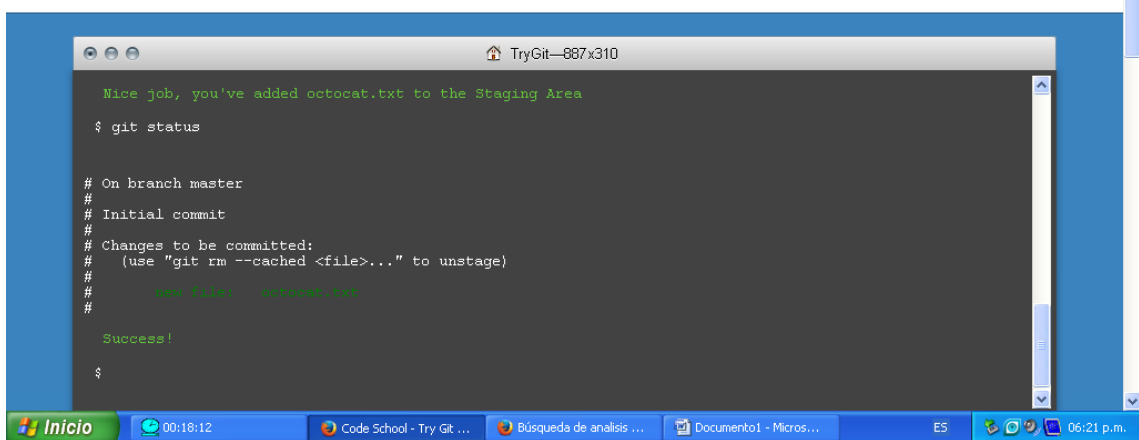


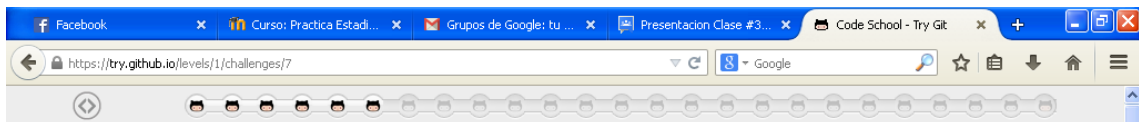
1.6 · Committing

Notice how Git says changes to be committed? The files listed here are in the Staging Area, and they are not in our repository yet. We could add or remove files from the stage before we store them in the repository.

To store our staged changes we run the commit command with a message describing what we've changed. Let's do that now by typing:

➔ `git commit -m "Add cute octocat story"`



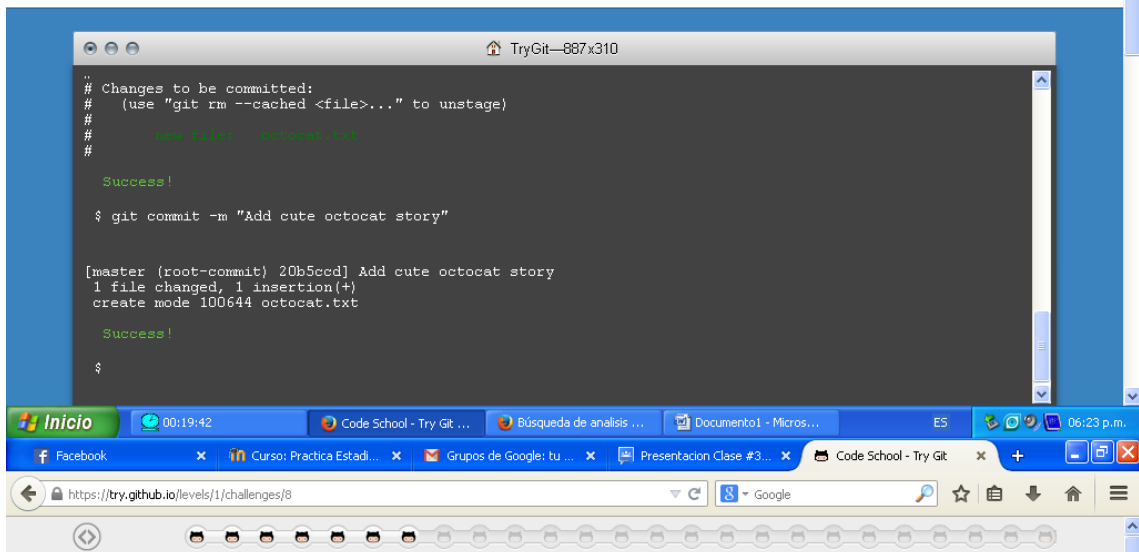


1.7 · Adding All Changes

Great! You also can use wildcards if you want to add many files of the same type. Notice that I've added a bunch of .txt files into your directory below.

I put some in a directory named "octofamily" and some others ended up in the root of our "octobox" directory. Luckily, we can add all the new files using a wildcard with git add. Don't forget the quotes!

→ `git add '*.txt'`

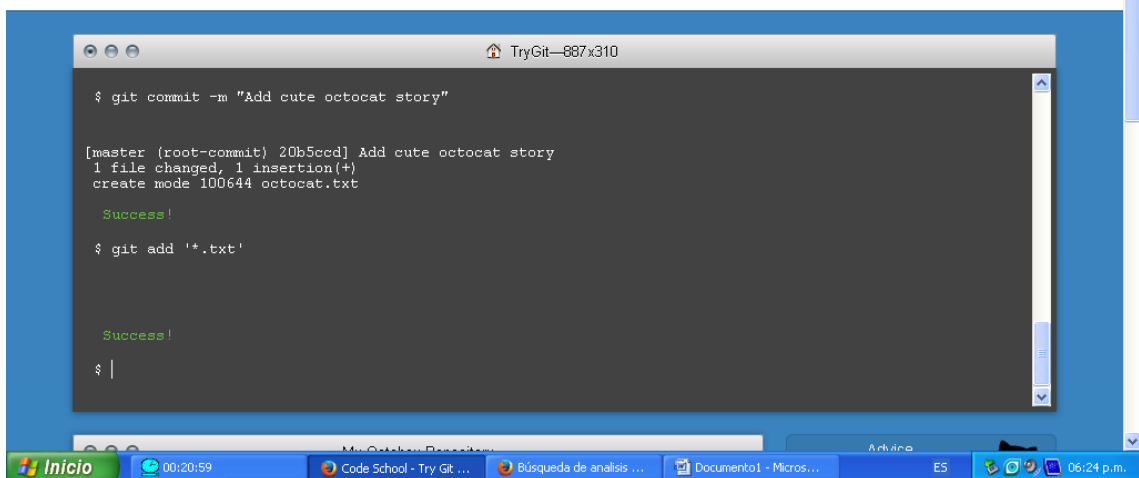


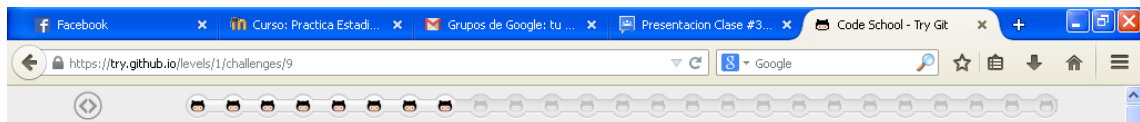
1.8 · Committing All Changes

Okay, you've added all the text files to the staging area. Feel free to run git status to see what you're about to commit.

If it looks good, go ahead and run:

→ `git commit -m 'Add all the octocat txt files'`



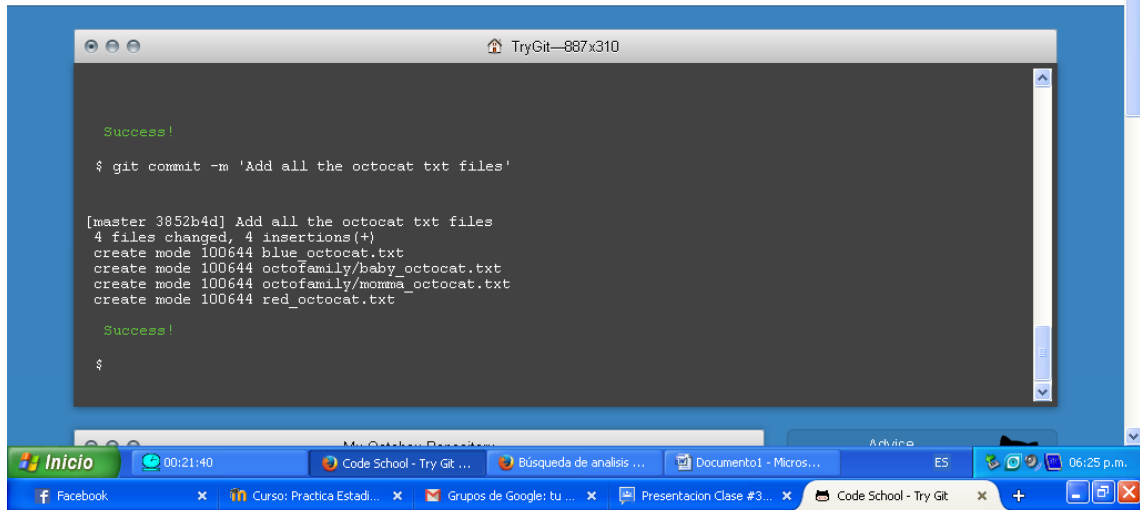


1.9 · History

So we've made a few commits. Now let's browse them to see what we changed.

Fortunately for us, there's the git log. Think of Git's log as a journal that remembers all the changes we've committed so far, in the order we committed them. Try running it now:

[git log](#)



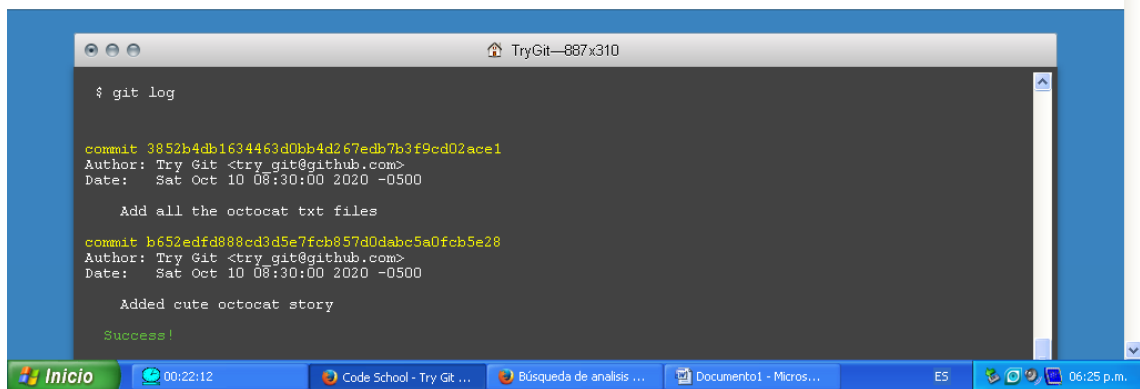
1.10 · Remote Repositories

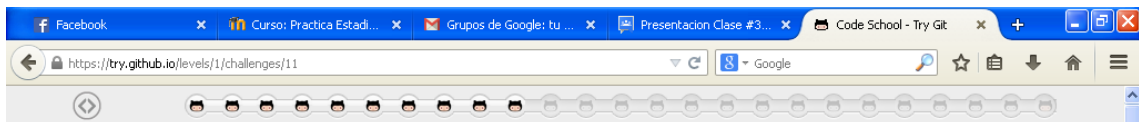
Great job! We've gone ahead and created a new empty GitHub repository for you to use with Try Git at https://github.com/try-git/try_git.git. To push our local *repo* to the GitHub server we'll need to add a remote repository.

This command takes a *remote name* and a *repository URL*, which in your case is https://github.com/try-git/try_git.git.

Go ahead and run `git remote add` with the options below:

[git remote add origin https://github.com/try-git/try_git.git](#)



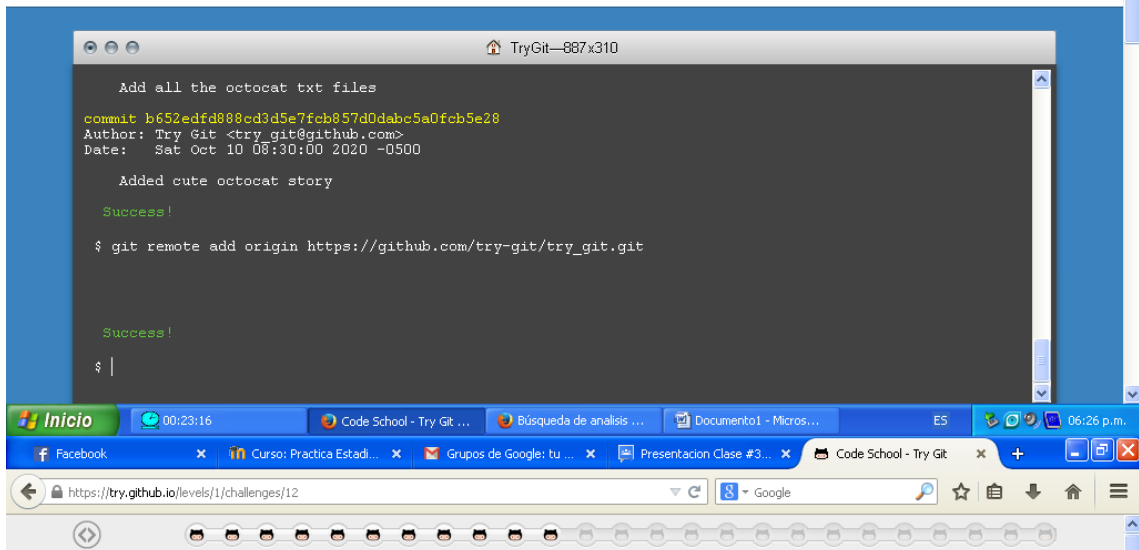


1.11 · Pushing Remotely

The push command tells Git where to put our commits when we're ready, and boy we're ready. So let's push our local changes to our **origin** repo (on GitHub).

The name of our remote is origin and the default local branch name is master. The `-u` tells Git to remember the parameters, so that next time we can simply run `git push` and Git will know what to do. Go ahead and push it!

➔ `git push -u origin master`

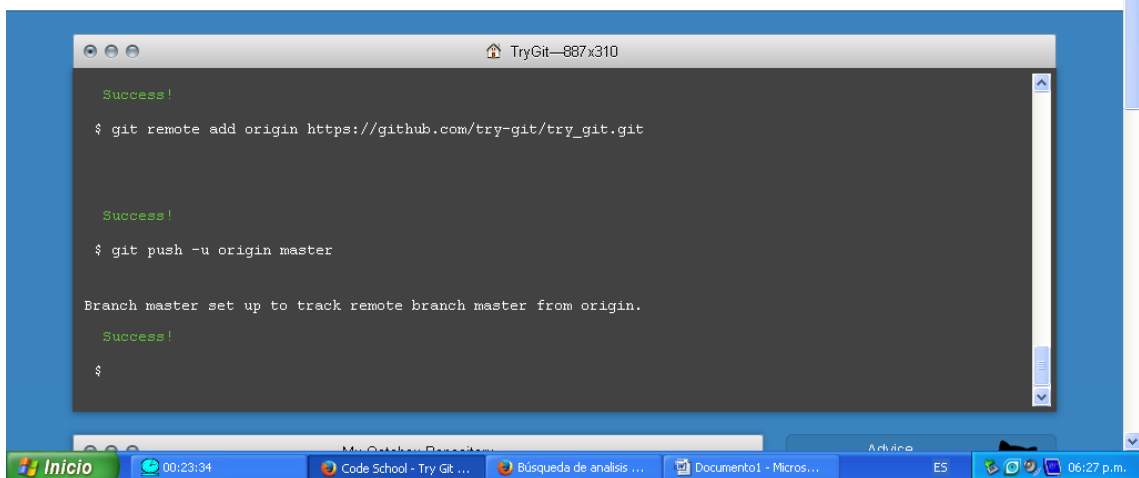


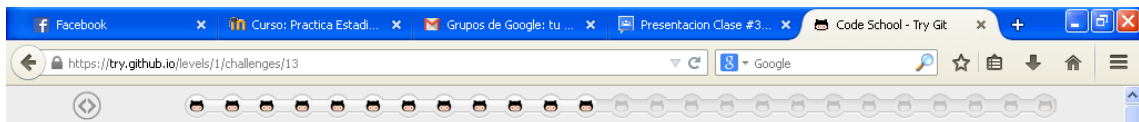
1.12 · Pulling Remotely

Let's pretend some time has passed. We've invited other people to our github project who have pulled your changes, made their own commits, and pushed them.

We can check for changes on our GitHub repository and pull down any new changes by running:

➔ `git pull origin master`



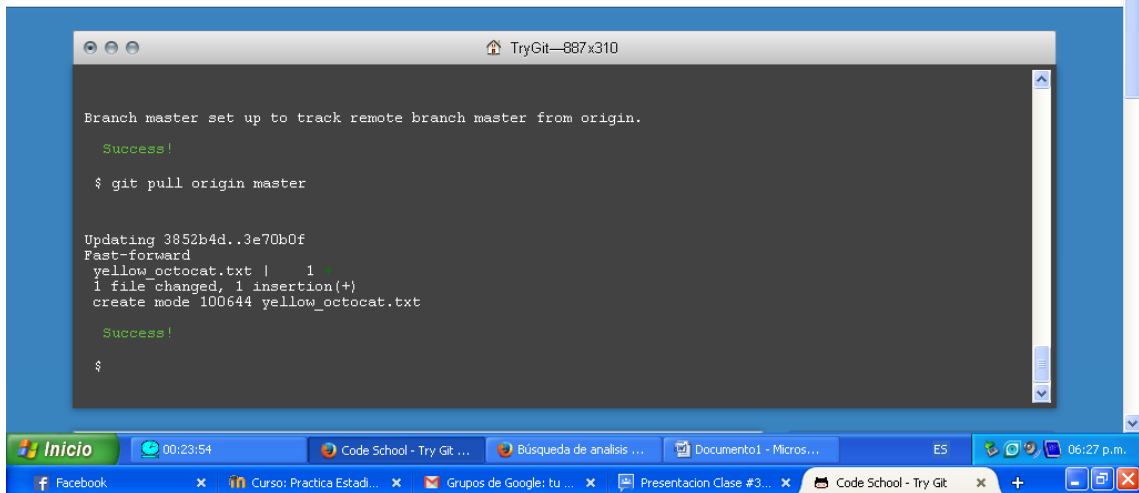


1.13 . Differences

Uh oh, looks like there has 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.

In this case we want the diff of our most recent commit, which we can refer to using the HEAD pointer.

`git diff HEAD`

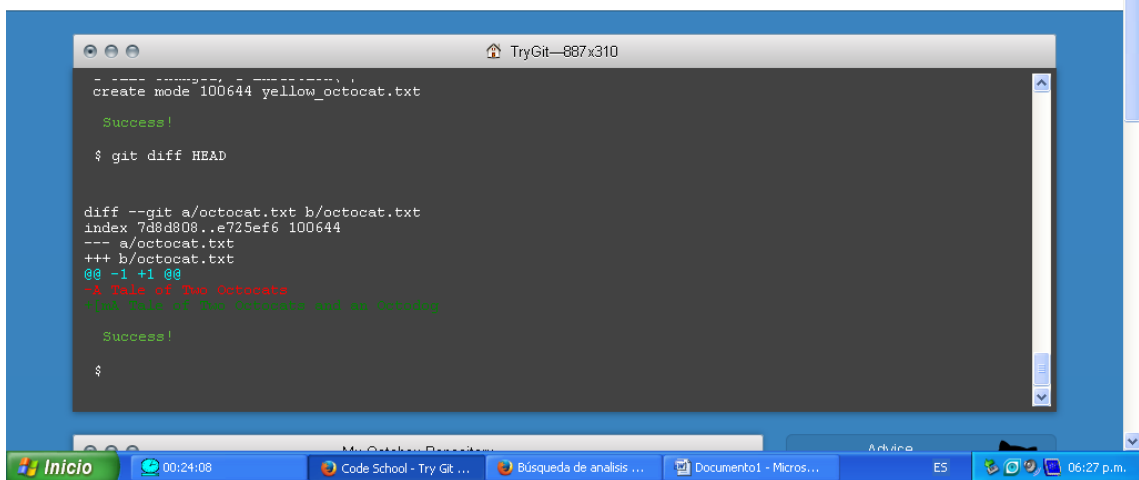


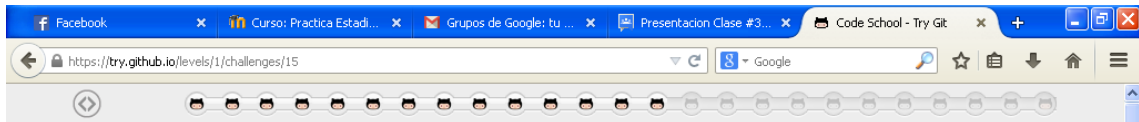
1.14 . Staged Differences

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`

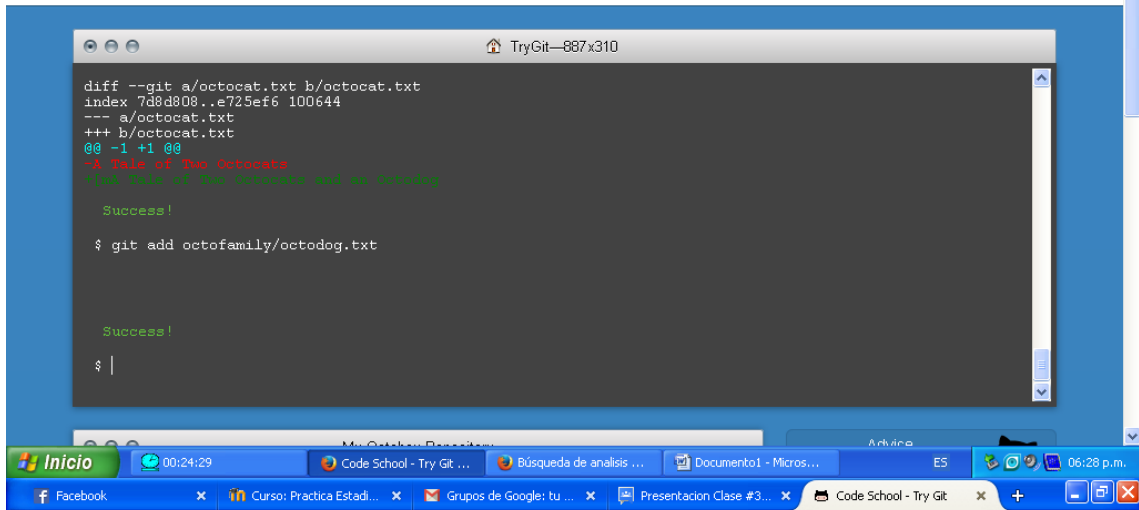




1.15 . Staged Differences (cont'd)

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.

➔ `git diff --staged`

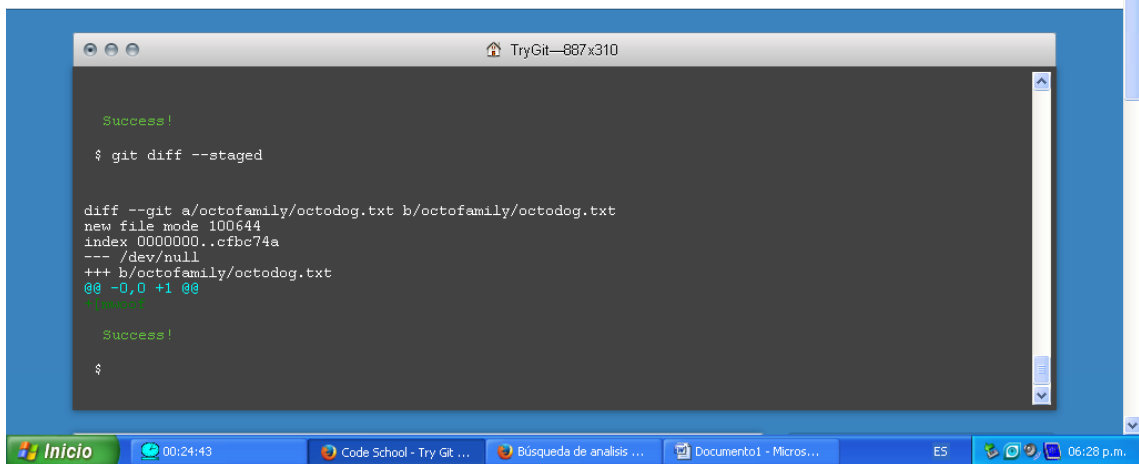


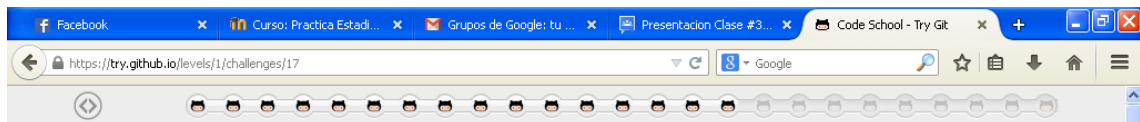
1.16 . Resetting the Stage

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 `octodog.txt`.

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

➔ `git reset octofamily/octodog.txt`



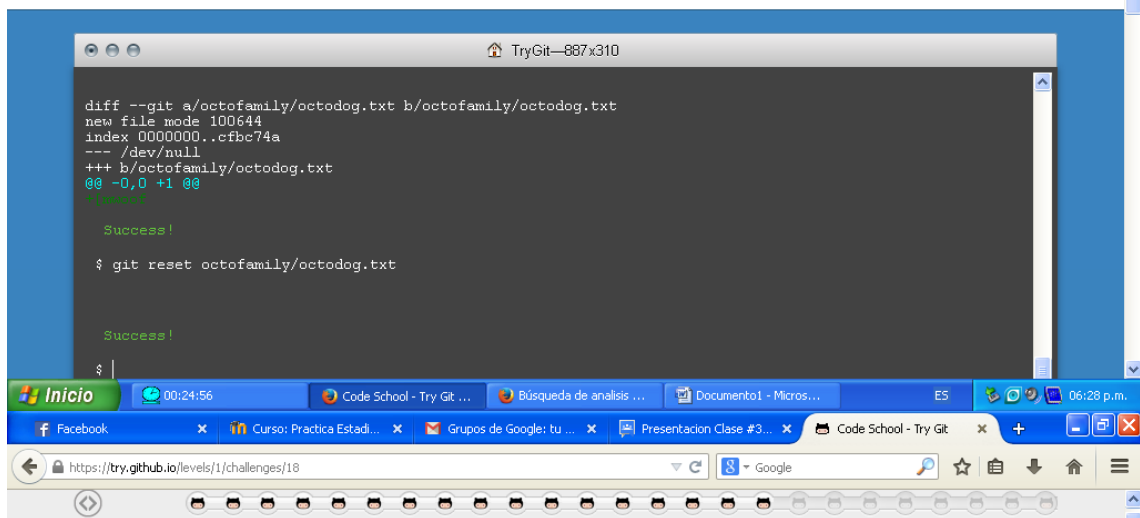


1.17 - Undo

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.

Files can be changed back to how they were at the last commit by using the command: git checkout -- <target>. Go ahead and get rid of all the changes since the last commit for octocat.txt

➔ `git checkout -- octocat.txt`

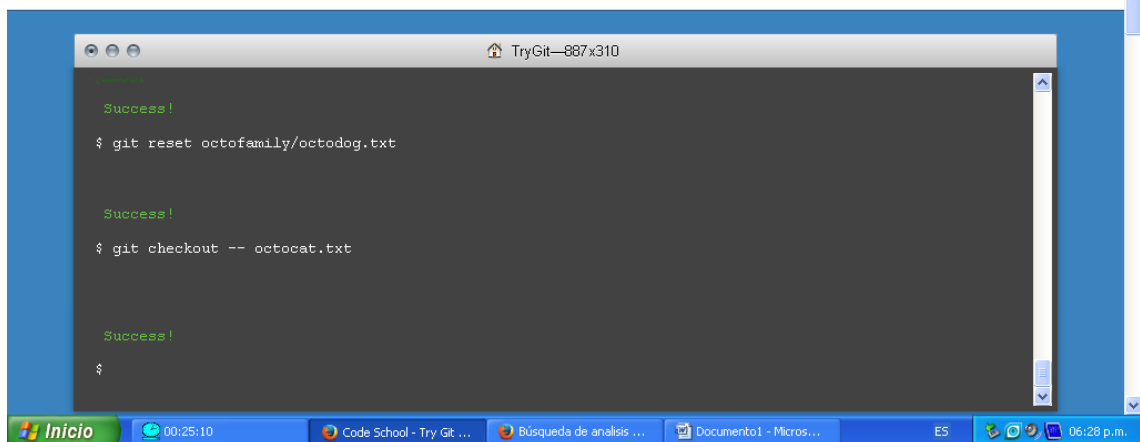


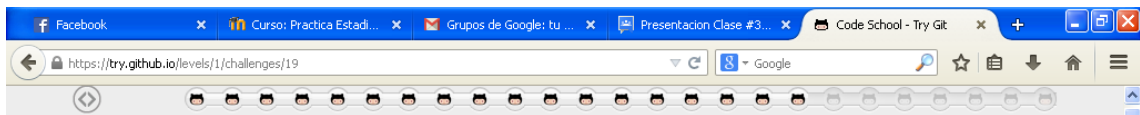
1.18 - Branching Out

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`



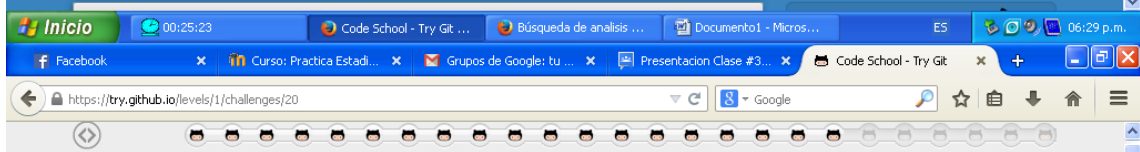
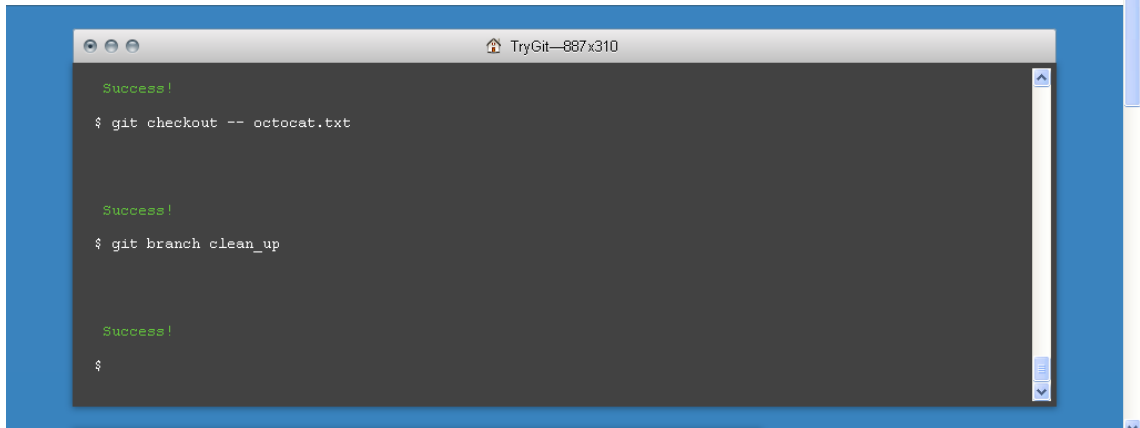


1.19 - Switching Branches

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`

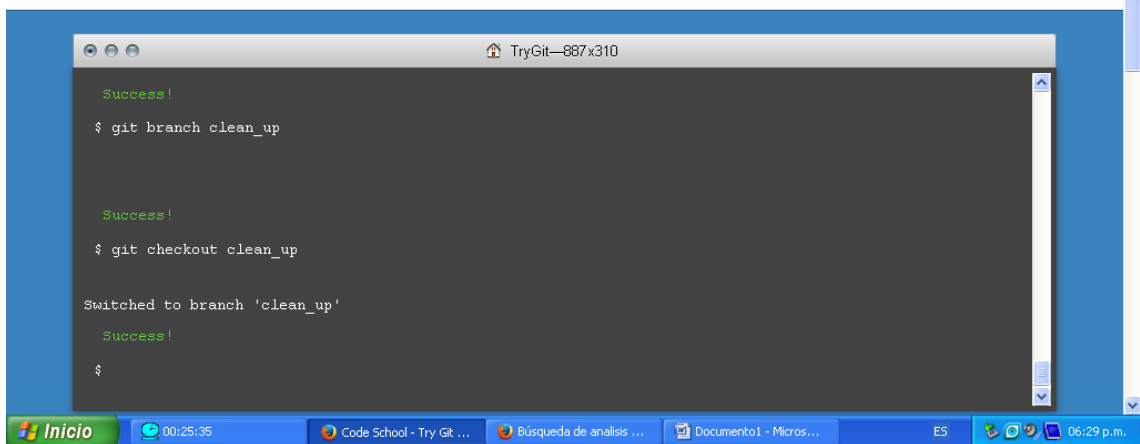


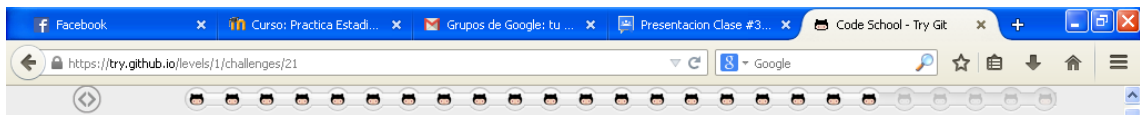
1.20 - Removing All The Things

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:

➔ `git rm '*.txt'`



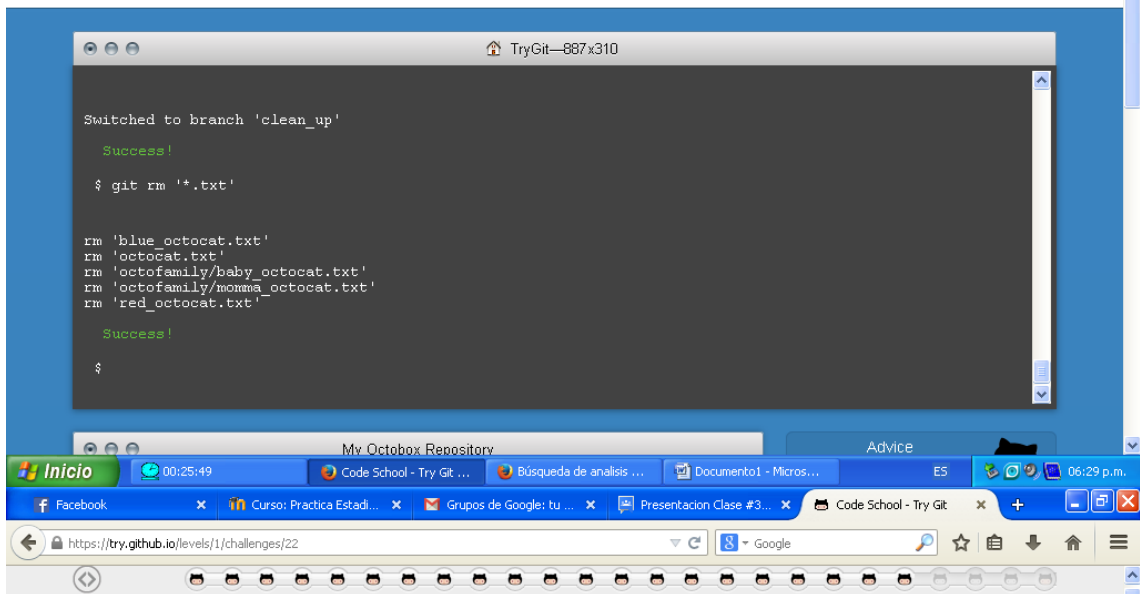


1.21 · Committing Branch Changes

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

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

➔ `git commit -m "Remove all the cats"`

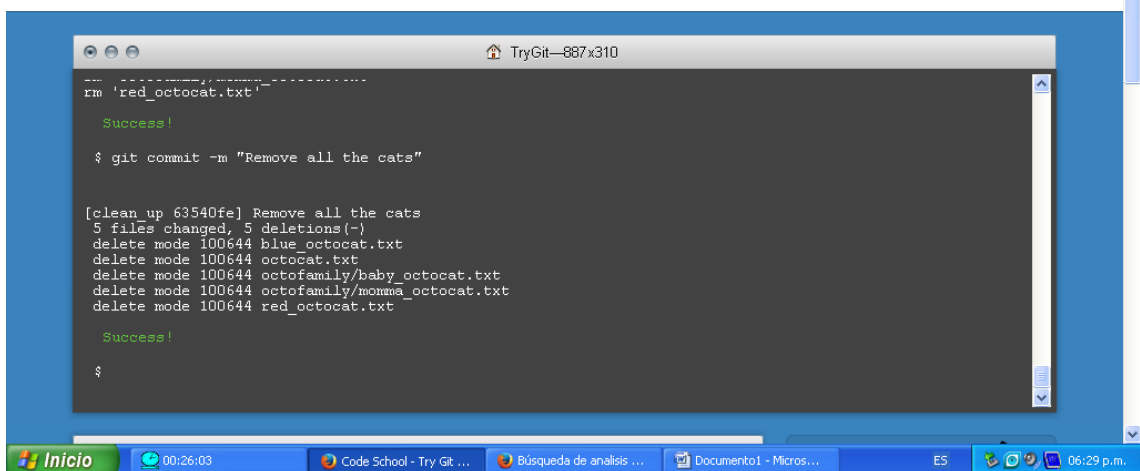


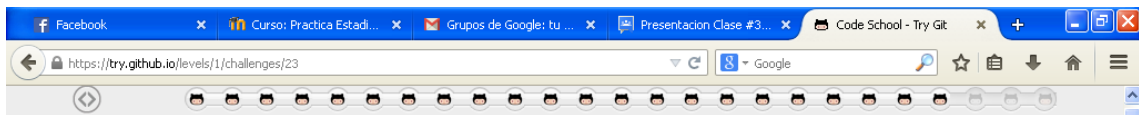
1.22 · Switching Back to master

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`



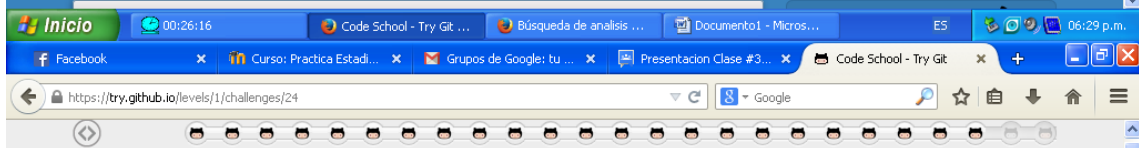
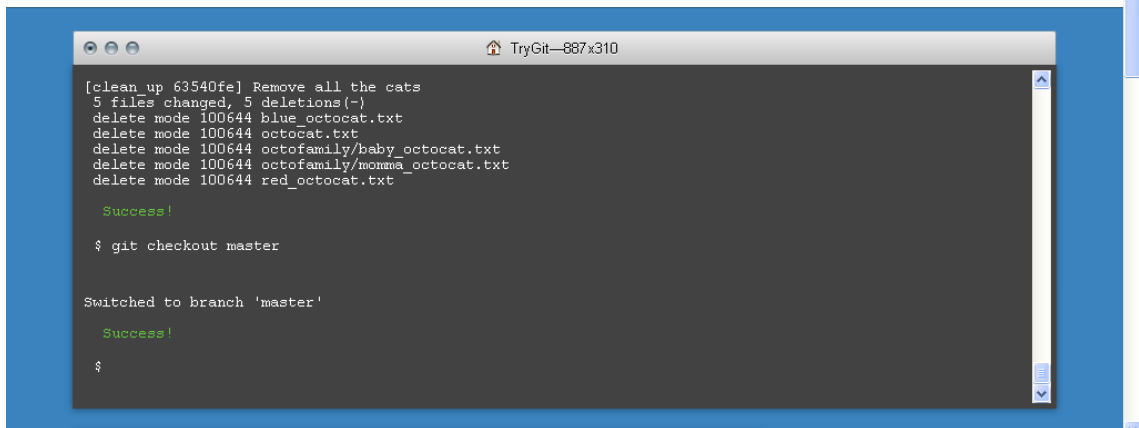


1.23 - Preparing to Merge

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`

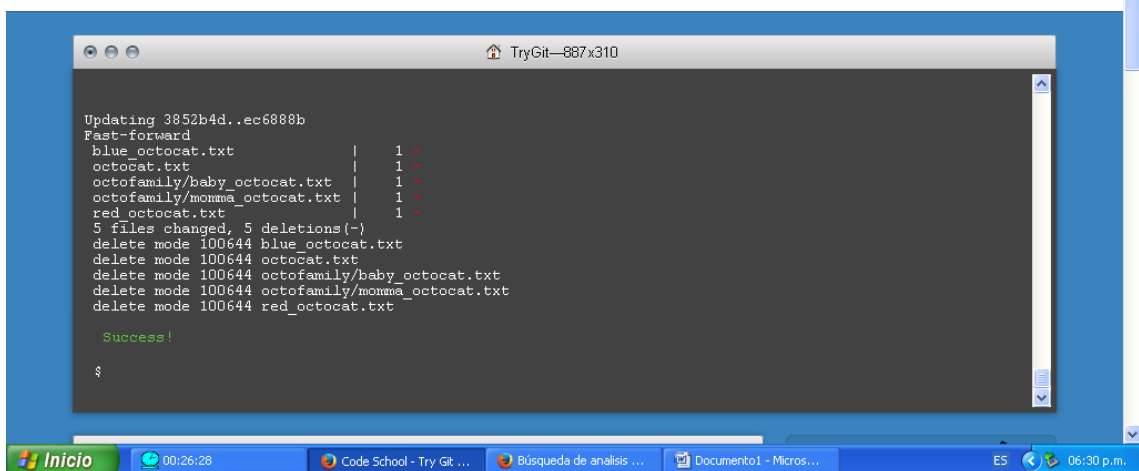


1.24 - Keeping Things Clean

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 <branch 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

Here we are, at the last step. I'm proud that you've made it this far, and it's been great learning Git with you. All that's left for you to do now is to push everything you've been working on to your remote repository, and you're done!

[git push](#)



```
TryGit—887x310
red octocat.txt | 1 -
5 files changed, 5 deletions(-)
delete mode 100644 blue_octocat.txt
delete mode 100644 octocat.txt
delete mode 100644 octofamily/baby_octocat.txt
delete mode 100644 octofamily/momma_octocat.txt
delete mode 100644 red_octocat.txt

Success!

$ git branch -d clean_up

Deleted branch clean_up (was ec6888b).

Success!

$
```

My Octobox Repository Advice

Inicio 00:26:45 Code School - Try Git ... Búsqueda de analisis ... Documento1 - Micros... ES 06:30 p.m.


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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!

[Wrap it all Up](#)



```
TryGit—887x310

Success!

$ git branch -d clean_up

Deleted branch clean_up (was ec6888b).

Success!

$ git push

To https://github.com/try-git/try_git.git
3e70b0f..60e2a29 master -> master

Success!

> |
```

My Octobox Repository Advice

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