

Code School - Try Git

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

☆

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—1229x310

Press enter to submit commands

>

My Octobox Repository

Advice

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

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1.1 · Got 15 minutes and want to learn Git?

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[↗ git init](#)

tryGit



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Press enter to submit commands

> git init

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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**

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Press enter to submit commands


> git init

Initialized empty Git repository in `/.git/`

Success!

\$

tryGit



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➔ **git status**

```
TryGit—1229x310

Press enter to submit commands

> git init

Initialized empty Git repository in /.git/
Success!
$
```



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https://try.github.io/levels/1/challenges/3


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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](#)



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Initialized empty Git repository in /.git/
Success!
\$
\$ git status

On branch master

Initial commit


nothing to commit (create/copy files and use "git add" to track)
Success!
\$

My Octobox Repository

.git

Advice

Tip:



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https://try.github.io/levels/1/challenges/4


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**

tryGit



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```
Success!

$ git status


# On branch master
#
# Initial commit
#
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#   octocat.txt
nothing added to commit but untracked files present (use "git add" to track)

Success!

$
```

My Octobox Repository

Advice



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https://try.github.io/levels/1/challenges/5

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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**



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```
-  
# Initial commit  
#  
# Untracked files:  
#   (use "git add <file>..." to include in what will be committed)  
#  
#   octocat.txt  
#  
nothing added to commit but untracked files present (use "git add" to track)  
  
Success!  
  
$ git add octocat.txt  
  
Nice job, you've added octocat.txt to the Staging Area  
  
$
```

My Octobox Repository

.git

Advice

add all:



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https://try.github.io/levels/1/challenges/6

☆


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"`

tryGit



TryGit—1229x310

```
Nice job, you've added octocat.txt to the Staging Area


$ git status

# On branch master
#
# Initial commit
#
# Changes to be committed:
#   (use "git rm --cached <file>..." to unstage)
#
#       new file:   octocat.txt
#
Success!

$
```

My Octobox Repository

Advice



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https://try.github.io/levels/1/challenges/7

☆


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'`

tryGit



TryGit—1229x310

```
-
# Changes to be committed:
#   (use "git rm --cached <file>..." to unstage)
#
#       new file:   octocat.txt
#
#
Success!

$ git commit -m "Add cute octocat story"


[master (root-commit) 20b5ccd] Add cute octocat story
1 file changed, 1 insertion(+)
create mode 100644 octocat.txt

Success!

$
```

My Octobox Repository

Advice



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https://try.github.io/levels/1/challenges/8


★

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'](#)



TryGit—1229x310

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

[master (root-commit) 20b5ccd] Add cute octocat story
1 file changed, 1 insertion(+)
create mode 100644 octocat.txt

Success!

$ git add '*.txt'
git add '*.txt'

Success!

$
```


My Octobox Repository

.git

▶

Advice

Check all the things!



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https://try.github.io/levels/1/challenges/9

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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 **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](#)

TryGit—1229x310

```
Success!

$ git commit -m 'Add all the octocat txt files'

[master 3852b4d] Add all the octocat txt files
4 files changed, 4 insertions(+)
create mode 100644 blue_octocat.txt
create mode 100644 octofamily/baby_octocat.txt
create mode 100644 octofamily/momma_octocat.txt
create mode 100644 red_octocat.txt

Success!

$
```


My Octobox Repository

.git

Advice

More useful logs:

tryGit



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https://try.github.io/levels/1/challenges/10

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**

TryGit—1229x310

```
$ git log

commit 3852b4db1634463d0bb4d267edb7b3f9cd02ace1
Author: Try Git <try_git@github.com>
Date: Sat Oct 10 08:30:00 2020 -0500

    Add all the octocat txt files

commit b652edfd888cd3d5e7fcb857d0dabc5a0fcb5e28
Author: Try Git <try_git@github.com>
Date: Sat Oct 10 08:30:00 2020 -0500

    Added cute octocat story

Success!

$
```

tryGit



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https://try.github.io/levels/1/challenges/11

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`

TryGit—1229x310

```
Add all the octocat txt files
commit b652edfd888cd3d5e7fcb857d0dabc5a0fcb5e28
Author: Try Git <try_git@github.com>
Date: Sat Oct 10 08:30:00 2020 -0500

    Added cute octocat story

Success!


$ git remote add origin https://github.com/try-git/try_git.git

Success!

$
```

My Octobox Repository

Advice



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https://try.github.io/levels/1/challenges/12


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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](#)



TryGit—1229x310

```
Success!
$ git remote add origin https://github.com/try-git/try_git.git

Success!
$ git push -u origin master


Branch master set up to track remote branch master from origin.
Success!
$
```

My Octobox Repository

.git

Advice

git stash:



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https://try.github.io/levels/1/challenges/13

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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**

TryGit—1229x310

Branch master set up to track remote branch master from origin.
Success!
\$ git pull origin master

Updating 3852b4d..3e70b0f
Fast-forward
yellow_octocat.txt | 1
1 file changed, 1 insertion(+)
create mode 100644 yellow_octocat.txt
Success!
\$

My Octobox Repository

Advice
HEAD



Code School - Try Git

https://try.github.io/levels/1/challenges/14

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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`

TryGit



TryGit—1229x310

```
-----
create mode 100644 yellow_octocat.txt

Success!

$ git diff HEAD

diff --git a/octocat.txt b/octocat.txt
index 7d8d808..e725ef6 100644
--- a/octocat.txt
+++ b/octocat.txt
@@ -1,1 @@
-A tale of two Octocats
+A tale of two Octocats and an Octodog

Success!


$
```

My Octobox Repository

.git

Advice

Commit Etiquette:



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https://try.github.io/levels/1/challenges/15

☆

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**



TryGit—1229x310

```
diff --git a/octocat.txt b/octocat.txt
index 7d8d808..e725ef6 100644
--- a/octocat.txt
+++ b/octocat.txt
@@ -1,1 @@
-A Tale of Two Octocats
+A Tale of Two Octocats and an Octodog

Success!

$ git add octofamily/octodog.txt

Success!


$
```

My Octobox Repository

.git

Advice

Commit Etiquette



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https://try.github.io/levels/1/challenges/16


☆

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](#)



TryGit—1229x310

```
Success!

$ git diff --staged

diff --git a/octofamily/octodog.txt b/octofamily/octodog.txt
new file mode 100644
index 0000000..cfbc74a
--- /dev/null
+++ b/octofamily/octodog.txt
@@ -0,0 +1 @@
+octocat

Success!


$
```

My Octobox Repository

.git

Advice

Commit Etiquette:



Code School - Try Git

https://try.github.io/levels/1/challenges/17

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**

TryGit—1229x310

```
diff --git a/octofamily/octodog.txt b/octofamily/octodog.txt
new file mode 100644
index 0000000..cfbc74a
--- /dev/null
+++ b/octofamily/octodog.txt
@@ -0,0 +1 @@
+octocat

Success!


$ git reset octofamily/octodog.txt

Success!

$
```

My Octobox Repository

Advice



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https://try.github.io/levels/1/challenges/18

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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](#)

TryGit—1229x310

```
TryGit
Success!
$ git reset octofamily/octodog.txt

Success!
$ git checkout -- octocat.txt


Success!
$
```


My Octobox Repository

.git

Advice

Branching





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https://try.github.io/levels/1/challenges/19

☆


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**

tryGit



TryGit—1229x310

```
Success!
$ git checkout -- octocat.txt

Success!
$ git branch clean_up


Success!
$
```

My Octobox Repository

.git


Advice

All at Once



Code School - Try Git

https://try.github.io/levels/1/challenges/20

tryGit

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'
```

TryGit—1229x310

```
Success!
$ git branch clean_up

Success!
$ git checkout clean_up

Switched to branch 'clean_up'
Success!
$
```

Code School - Try Git

https://try.github.io/levels/1/challenges/21


☆

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"](#)



TryGit—1229x310

```
Switched to branch 'clean_up'

Success!

$ git rm '*.txt'


rm 'blue_octocat.txt'
rm 'octocat.txt'
rm 'octofamily/baby_octocat.txt'
rm 'octofamily/momma_octocat.txt'
rm 'red_octocat.txt'

Success!

$
```

My Octobox Repository

Advice



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https://try.github.io/levels/1/challenges/22


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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](#)



TryGit—1229x310

```
rm 'red_octocat.txt'
Success!


$ git commit -m "Remove all the cats"

[clean_up 63540fe] Remove all the cats
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!

$
```

My Octobox Repository

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https://try.github.io/levels/1/challenges/23

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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`

tryGit



TryGit—1229x310

```
[clean_up 63540fe] Remove all the cats
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 checkout master


Switched to branch 'master'

Success!

$
```

My Octobox Repository

Advice



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https://try.github.io/levels/1/challenges/24

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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**

tryGit



TryGit—1229x310


```
Updating 3852b4d..ec6888b
Fast-forward
 blue_octocat.txt      | 1 -
 octocat.txt           | 1 -
 octofamily/baby_octocat.txt | 1 -
 octofamily/momma_octocat.txt | 1 -
 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!

$
```

My Octobox Repository


Advice



Code School - Try Git

https://try.github.io/levels/1/challenges/25

1.25 · The Final Push

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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—1229x310

```
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!

$
```

Code School - Try Git

https://try.github.io/levels/1/challenges/25

tryGit

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—1229x310

```
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..ccd2b62  master -> master

Success!


>
```

Code School - Try Git

https://try.github.io/wrap_up


☆


Congratulations!




Nice job completing the TryGit course from [Code School](#) and [GitHub](#). You've earned that cute little badge over there. To gaze at its perfectly symmetrical whiskers for all eternity, [sign in](#) or [create a free account](#). And let your friends know how easy it is to try Git!

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