

## Git Tutorial

A teal banner with the Backlog logo (by nulab) and the Git logo. The text reads: "Backlog lets you manage projects with Git integration". On the right, there is a "Learn more" link with a right-pointing arrow icon. The background features a faint diagram of a network or project flow with circles and lines.

**backlog** by nulab + **git**

Backlog lets you manage projects with Git integration

Learn more →

## Resolve a conflict

Select your PC environment:

Windows

Mac

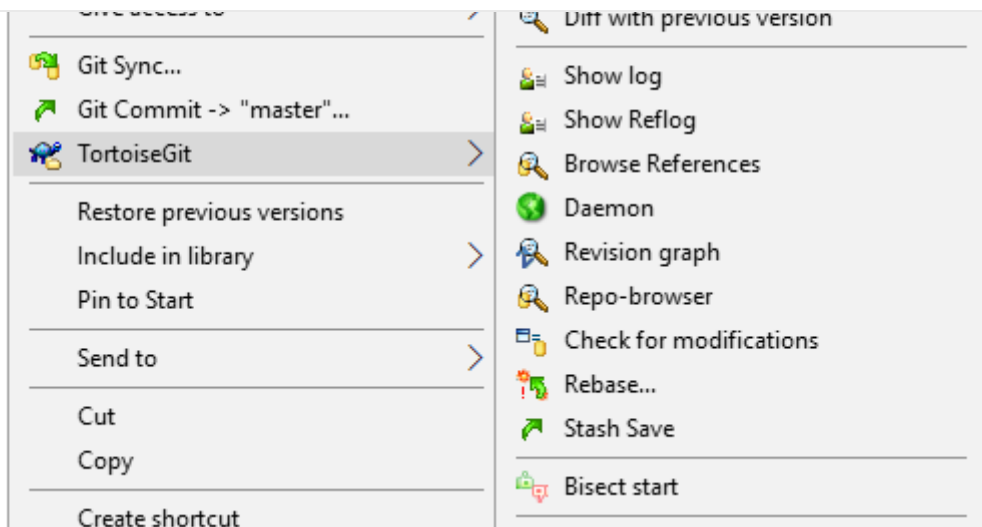
Command Line

In order to proceed with pushing the change to the remote repository, we will have to manually resolve the conflict. Let's execute a pull to acquire the most recent change set from the remote repository.

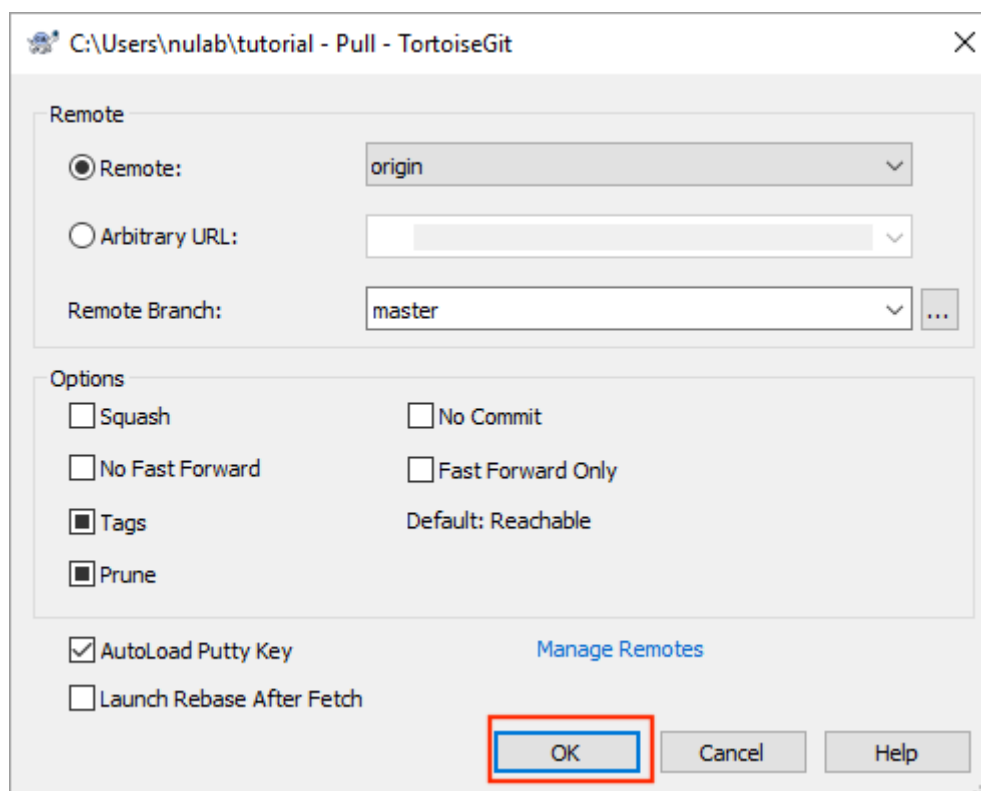
### Windows

Execute a pull by right-clicking on the "tutorial" directory and click pull.

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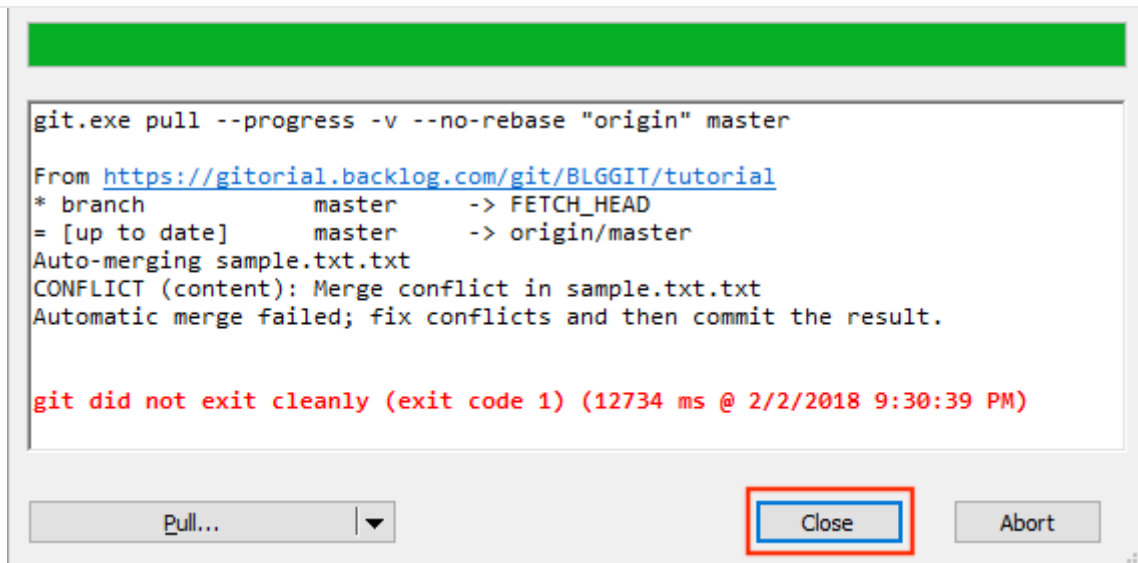


Click "OK" in the following screen.



We will now see a warning message saying that the automatic merge has failed. Click "Close".

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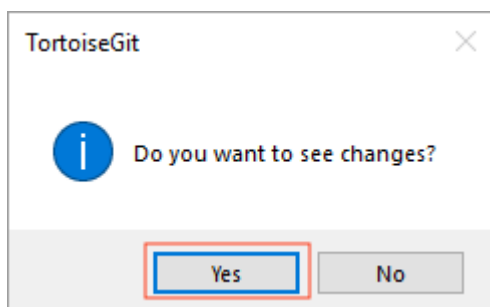


```
git.exe pull --progress -v --no-rebase "origin" master

From https://gitorial.backlog.com/git/BLGGIT/tutorial
* branch          master      -> FETCH_HEAD
= [up to date]    master      -> origin/master
Auto-merging sample.txt.txt
CONFLICT (content): Merge conflict in sample.txt.txt
Automatic merge failed; fix conflicts and then commit the result.

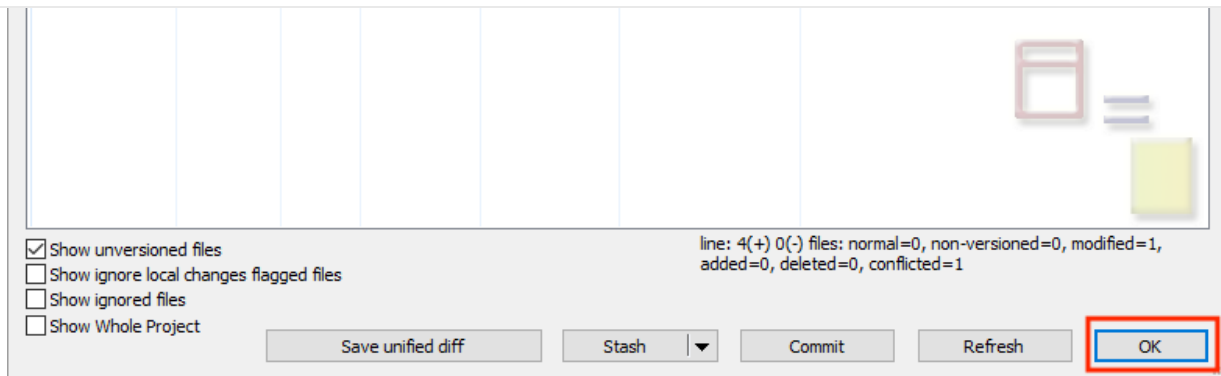
git did not exit cleanly (exit code 1) (12734 ms @ 2/2/2018 9:30:39 PM)
```

You will be prompted on whether you would like to see the changes in this revision. Click "Yes".



TortoiseGit is telling us that the automatic merge has failed because "sample.txt" has a merge conflict. Click "OK".

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When you open "sample.txt", you can see markers that have been added by Git to indicate conflicts in that section of the file as shown below.

```
Git commands even a monkey can understand
add: Register a change in an index
<<<<<< HEAD
commit: Save the status of an index
=====
pull: Obtain the content of the remote repository
>>>>>> 17c860612953c0f9d88f313c8dfbf7d858e02e91
```

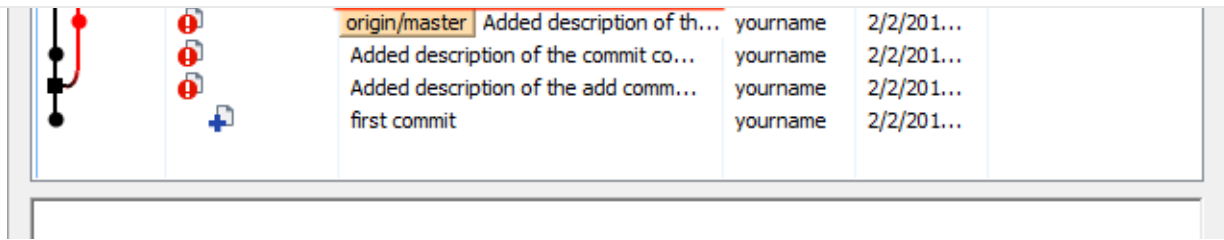
We are going to resolve the conflict by accepting both changes and remove the marker.

```
Git commands even a monkey can understand
add: Register a change in an index
commit: Save the status of an index
pull: Obtain the content of the remote repository
```

Now that we have resolved the conflict and the content of the file has changed, we will need to initiate a commit. Right click and choose "Commit".

We are now up to date with the latest change from the remote repository.

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origin/master	Added description of th...	yourname	2/2/201...
	Added description of the commit co...	yourname	2/2/201...
	Added description of the add comm...	yourname	2/2/201...
	first commit	yourname	2/2/201...

Backlog has built-in Git repositories for every project

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We can safely push this change to the remote repository without any merge conflicts.

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