

Git Introduction

1. Git?
2. Free Git Servers
3. Installation
4. Git Commands
5. Actions

1. Git?

- Git is a popular open-source version control system among developers.
- Originally, it was designed for collaborative projects between [developers](#).
- Git is mostly used to store content and code in repositories.



2. Free Git Servers

- **Github:** is a provider of Internet hosting for software development and version control using Git.
Url: <https://github.com/>
- **GitLab:** is a free, open source and a web-based Git-repository manager software. It has a wiki, issue tracking, and other features.
Url: <https://about.gitlab.com/>
- **Gitea:** is a painless self-hosted Git service. Gitea is a community fork of Gogs software.
Url: <https://gitea.io>
- **BitBucket:** is a Git-based source code repository hosting service owned by Atlassian.
Url: <https://bitbucket.org/>

3. Installation

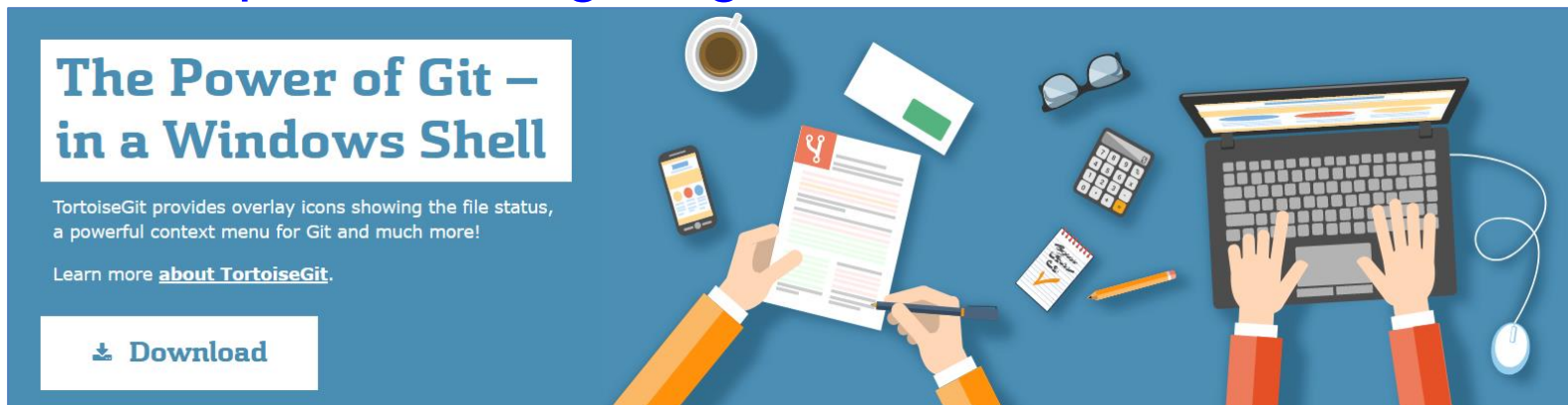
➤ Git

- Url: <https://git-scm.com/download>

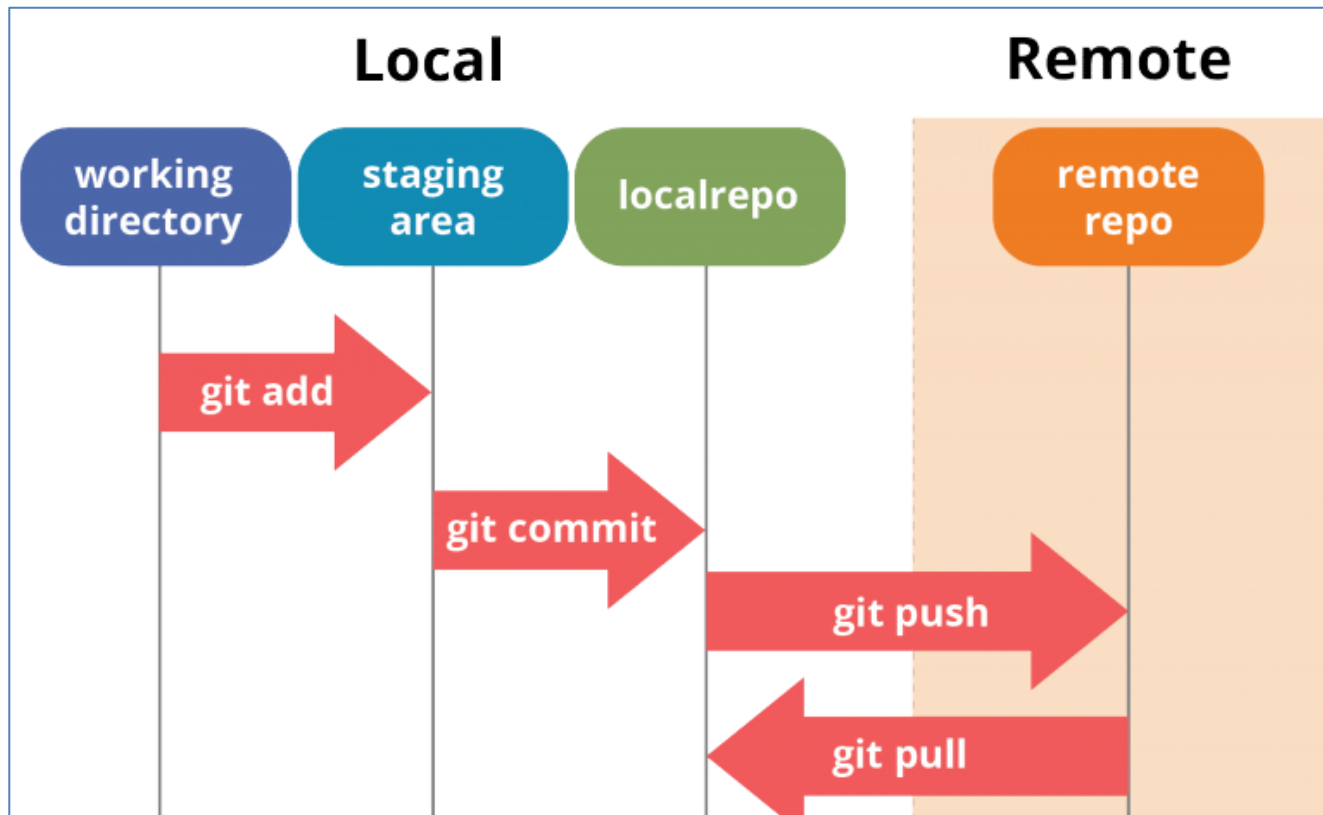


➤ Tortoise Git

- Url: <https://tortoisegit.org/>



4. Git Commands



5. Actions

- 5.1. Creating Repository
- 5.2. Cloning Repository
- 5.3. Adding a New File
- 5.4. Committing Source Codes
- 5.5. Pushing Source Codes
- 5.6. Pulling Source Codes

5.1. Creating Repository

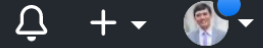
- Create account on a free Git server, then create a new repository (project).

Import a repository.'. The form has two main sections: 'Owner' and 'Repository name'. The 'Owner' section shows a dropdown menu with 'dantt-it' selected. The 'Repository name' section is a text input field, highlighted with a red box. Below these fields, there is a suggestion: 'Great repository names are short and memorable. Need inspiration? How about [legendary-guacamole?](#)'. The 'Description (optional)' section is a large text area. At the bottom, there is a radio button for 'Public' (selected) and a description: 'Anyone on the internet can see this repository. You choose who can commit.'"/>



Search or jump to...

Pulls Issues Marketplace Explore



dantt-it / school-library Private

Unwatch

1

Star

0

Fork

0

Code

Issues

Pull requests

Actions

Projects

Security



main

Go to file

Add file

Code

About



ChiBuiQuoc Create .git

app

bootstrap

config

database

hooks

info

public

resources

Clone



HTTPS SSH GitHub CLI

<https://github.com/dantt-it/school-library>



Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Open with Visual Studio

Download ZIP

Update layout.blade.php

1 hour ago

Project to manage and show available books, magazines, ... of Cao Dang Sai Gon.

Readme

Releases

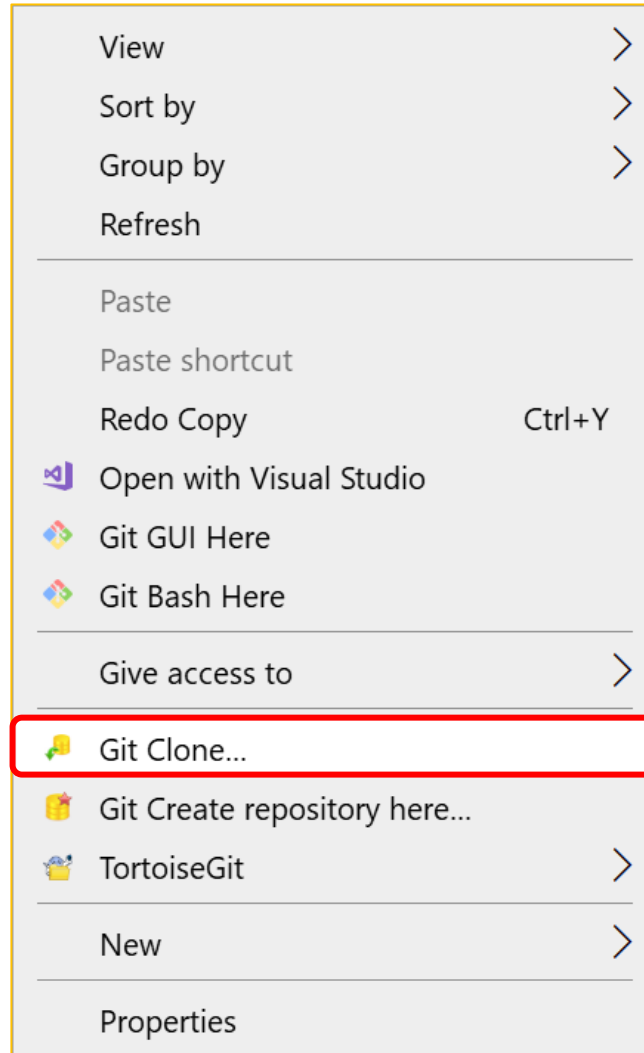
No releases published
[Create a new release](#)

Packages

5.2. Cloning Repository


➤ To clone a repository

Select a folder, then right-click and select “Git clone”



Clone Existing Repository

URL:

 `https://github.com/dantt-it/school-library.git` ▼

Browse... ▼


Directory:

C:\school-library

Browse...

☐ Depth

1

☐ Recursive☐ Clone into Bare Repo☐ No Checkout☐ Branch☐ Origin Name☐ LFS☐ Load Putty Key ▼

...

From SVN Repository

☐ From SVN Repository☐ Trunk:

trunk

☐ Tags:

tags

☐ Branch:

branches

☐ From:

0

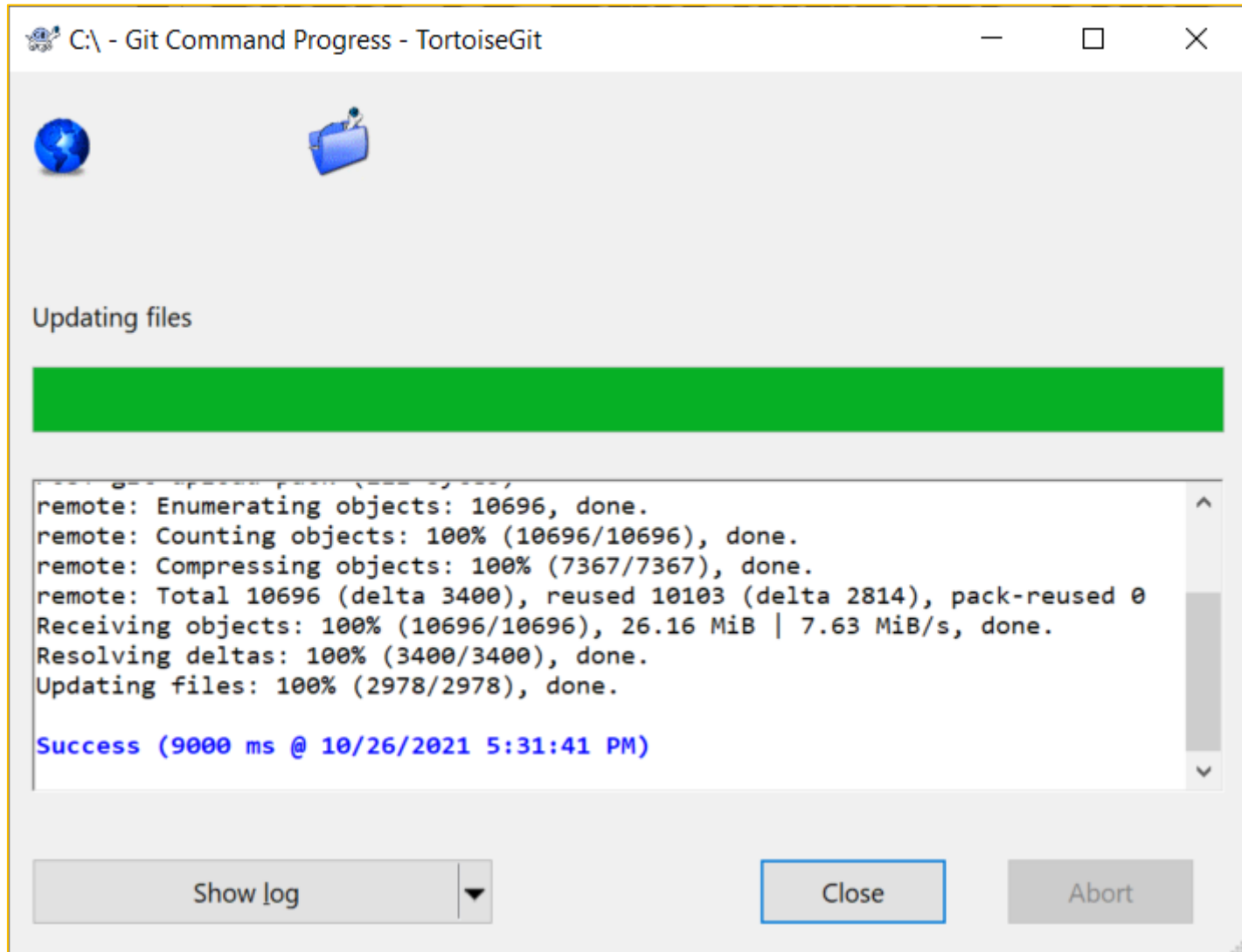
☐ Username:

OK

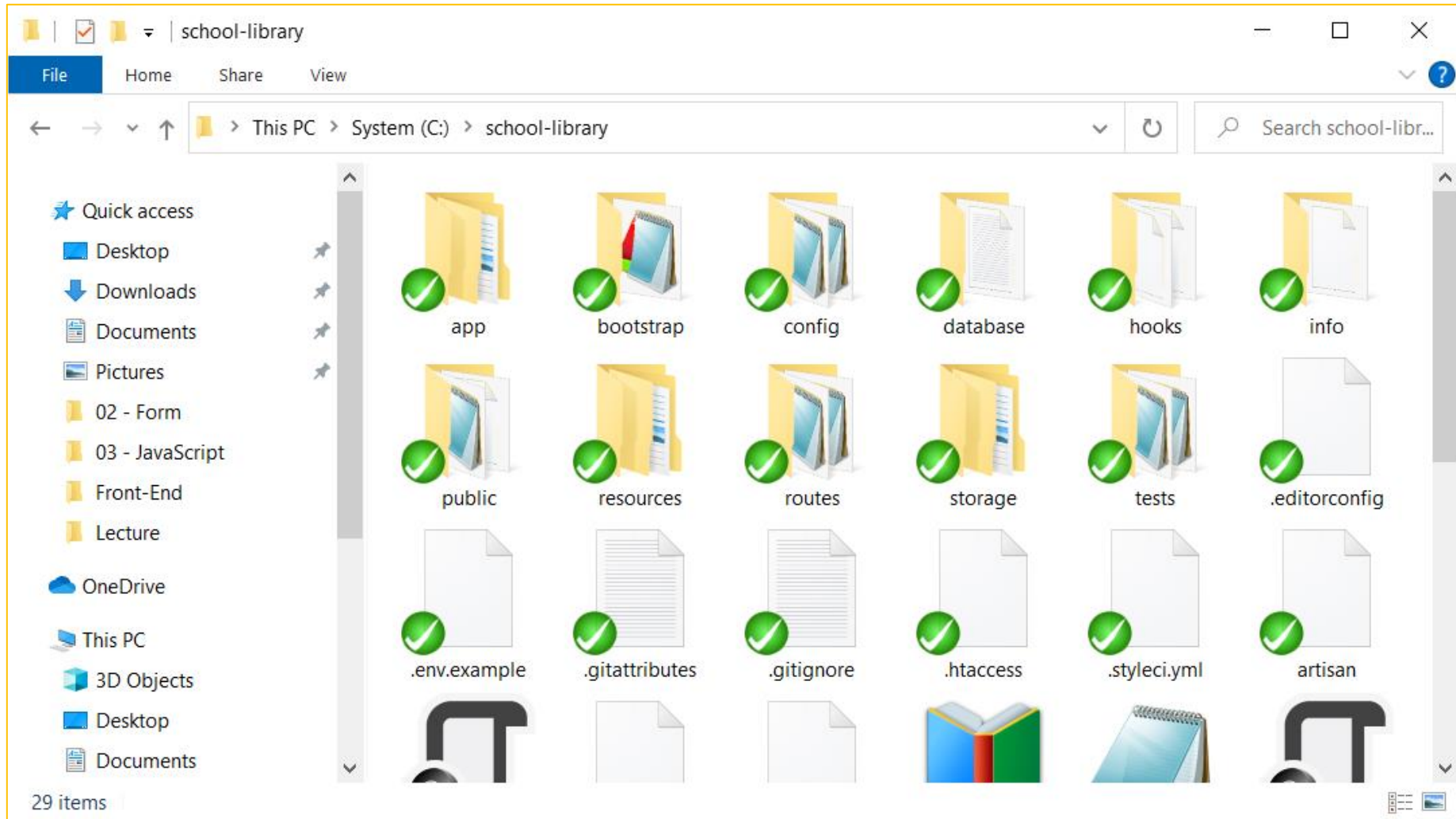
Cancel

Help

- Enter your username & password (if any).



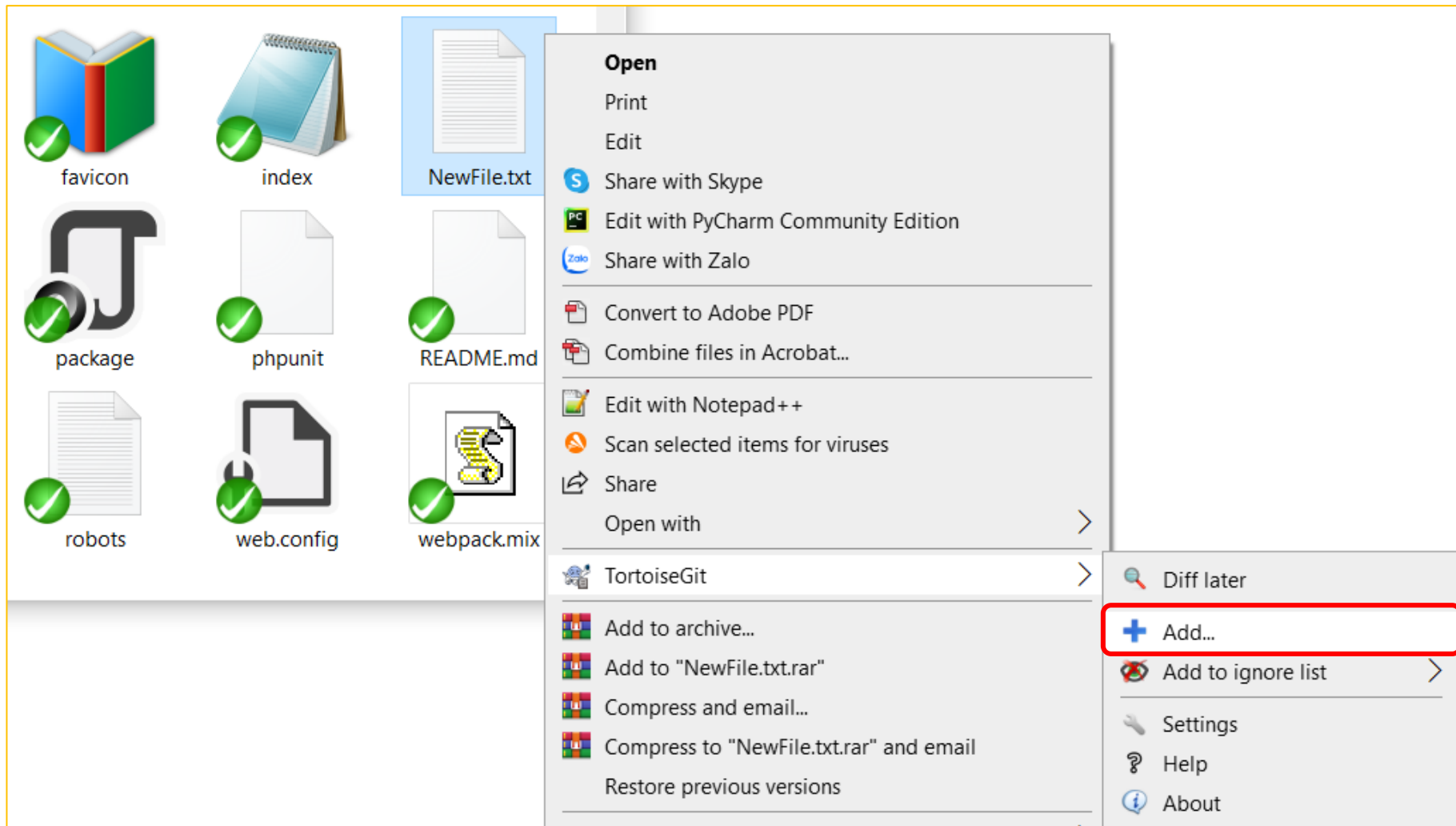
➤ Result after clone successfully.



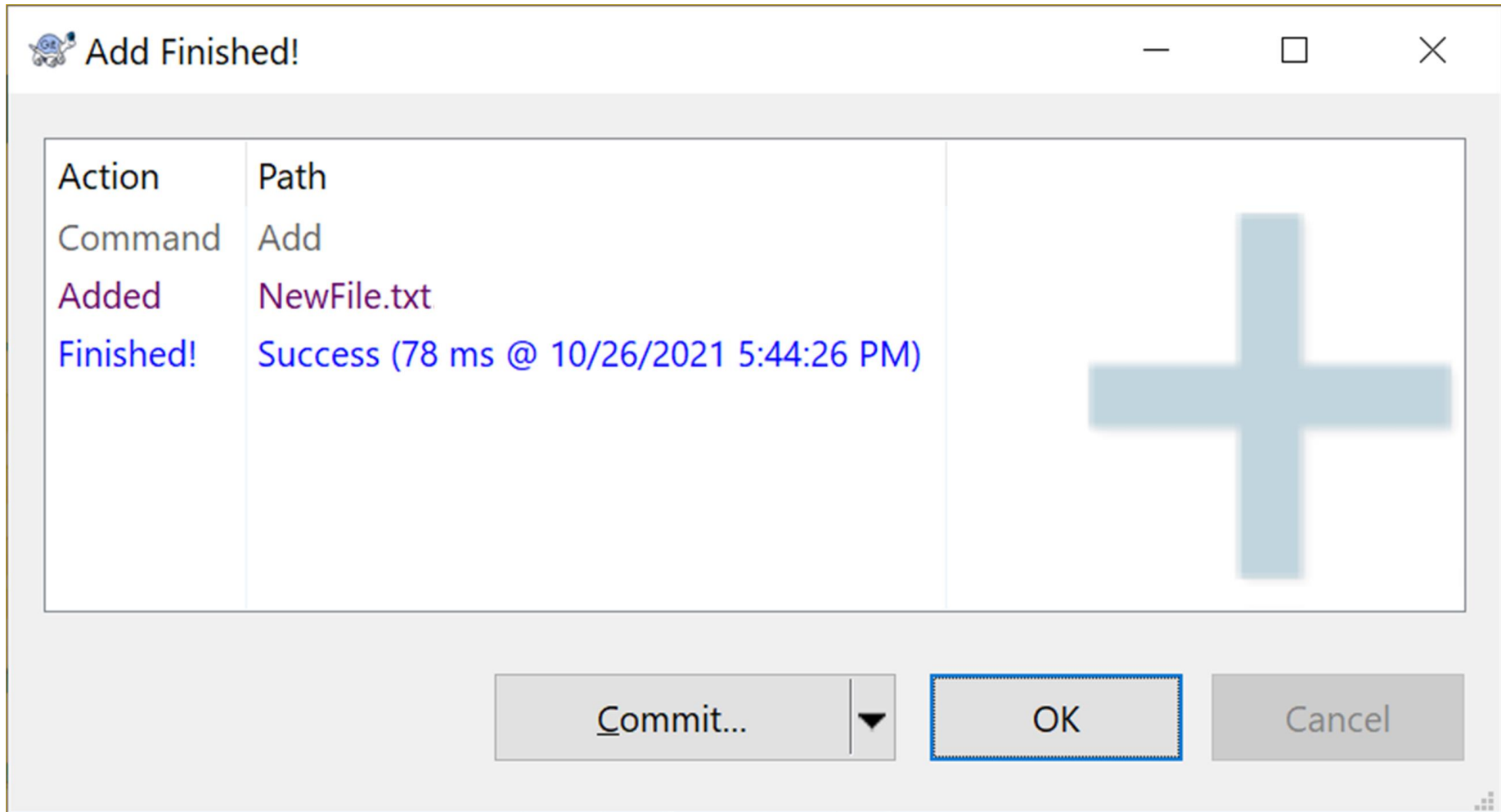
5.3. Adding a New File

➤ To add a new file

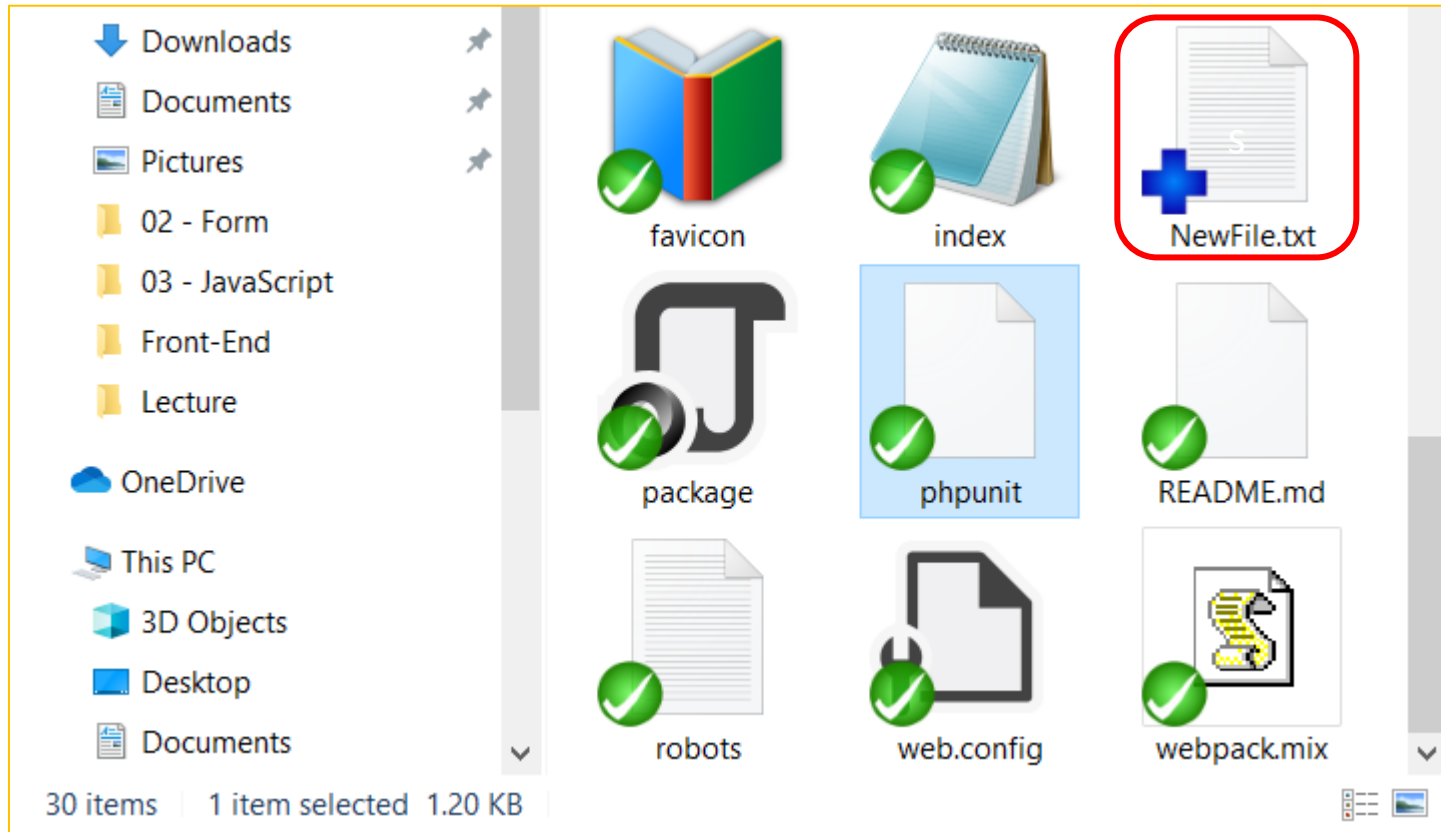
Right-click on a file, then select “**ToitoseGit** → **Add**”



- Click “OK” button to complete or “Commit” button to capture a snapshot.

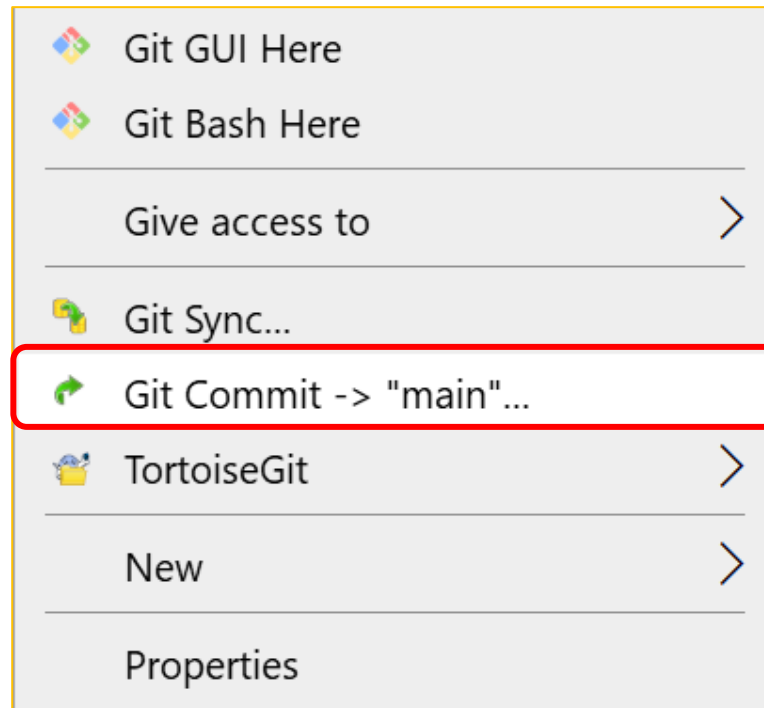


➤ Result after add a new file successfully.



5.4. Committing Source Codes

- To commit the changes (added or modified files)
 - Right-click in the repository, select “Git Commit ...”
 - Adding message for commission.
 - Click on “Commit” button to complete.



Commit to: main

☐ new branch

Message:

Adding new files


1/17

☐ Amend Last Commit☐ Set author date☐ Set author

Add Signed-off-by

Changes made (double-click on file for diff):

Check: **All** **None** Unversioned **Versioned** **Added** Deleted Modified **Files** Submodules

Path	Extension	Status	Lines added	Lines removed
<input checked="" type="checkbox"/>  NewFile.txt	.txt	Added	0	0

1 files selected, 1 files total

☒ Show Unversioned Files☐ Do not autoselect submodules[View Patch>>](#)☐ Show Whole Project☐ Message only

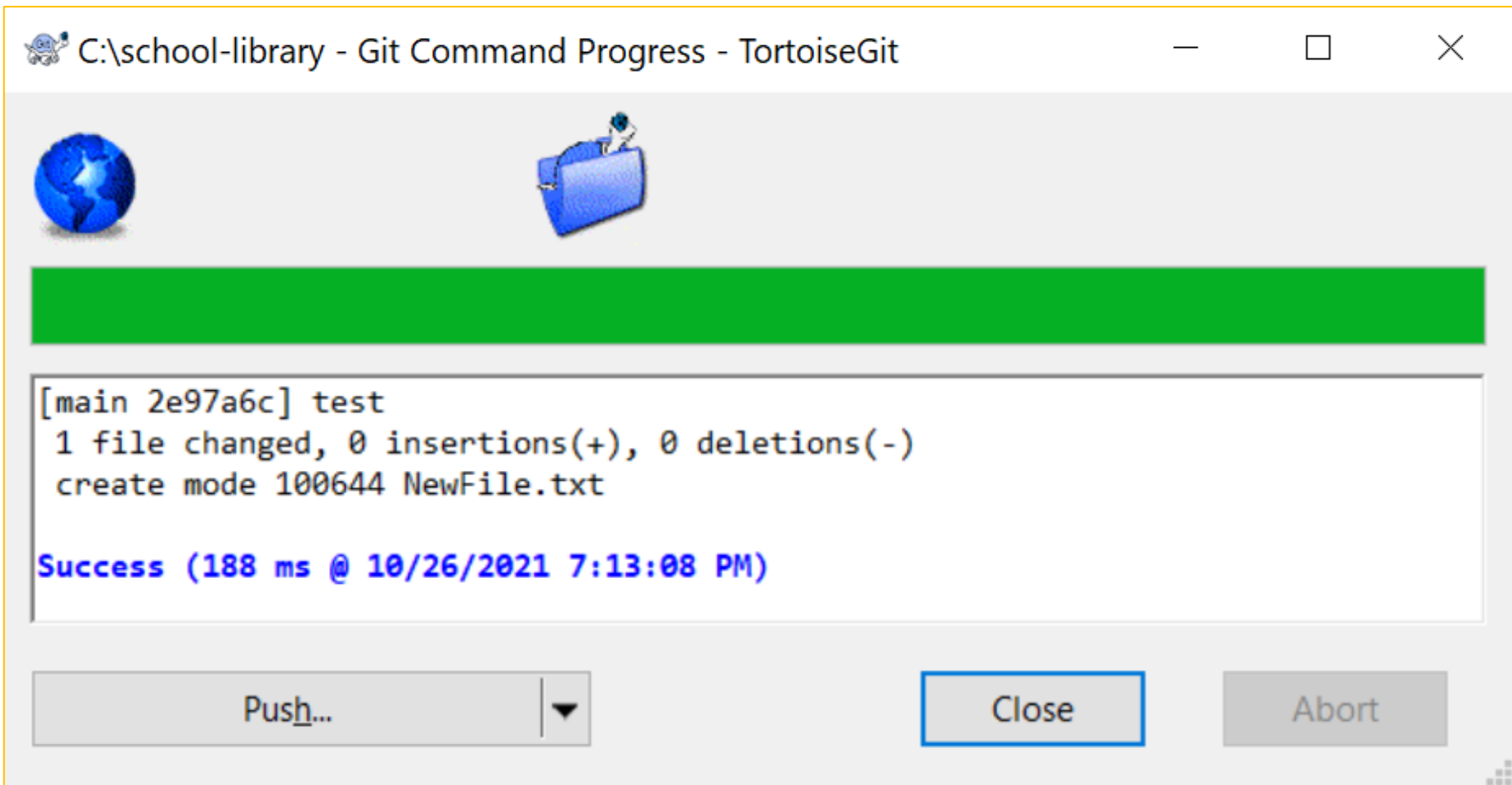
Commit

Cancel

Help

5.5. Pushing Source Codes

- To push the changes
 - Right-click in the repository, select “**ToitoseGit** → **Push...**”
 - Click on “**Push...**” button to complete.



- Select a branch
- Then click “OK” button to start uploading.

C:\school-library - Push - TortoiseGit

Ref

☐ Push all branches

Local: main

Remote: main

Destination

☒ Remote: origin

☐ Arbitrary URL:

Options

Force: May discard ☐ known changes ☐ unknown changes

☐ Include tags

☒ Autoload Putty Key

☐ Set upstream/track remote branch

☐ Always push to the selected remote archive for this local branch

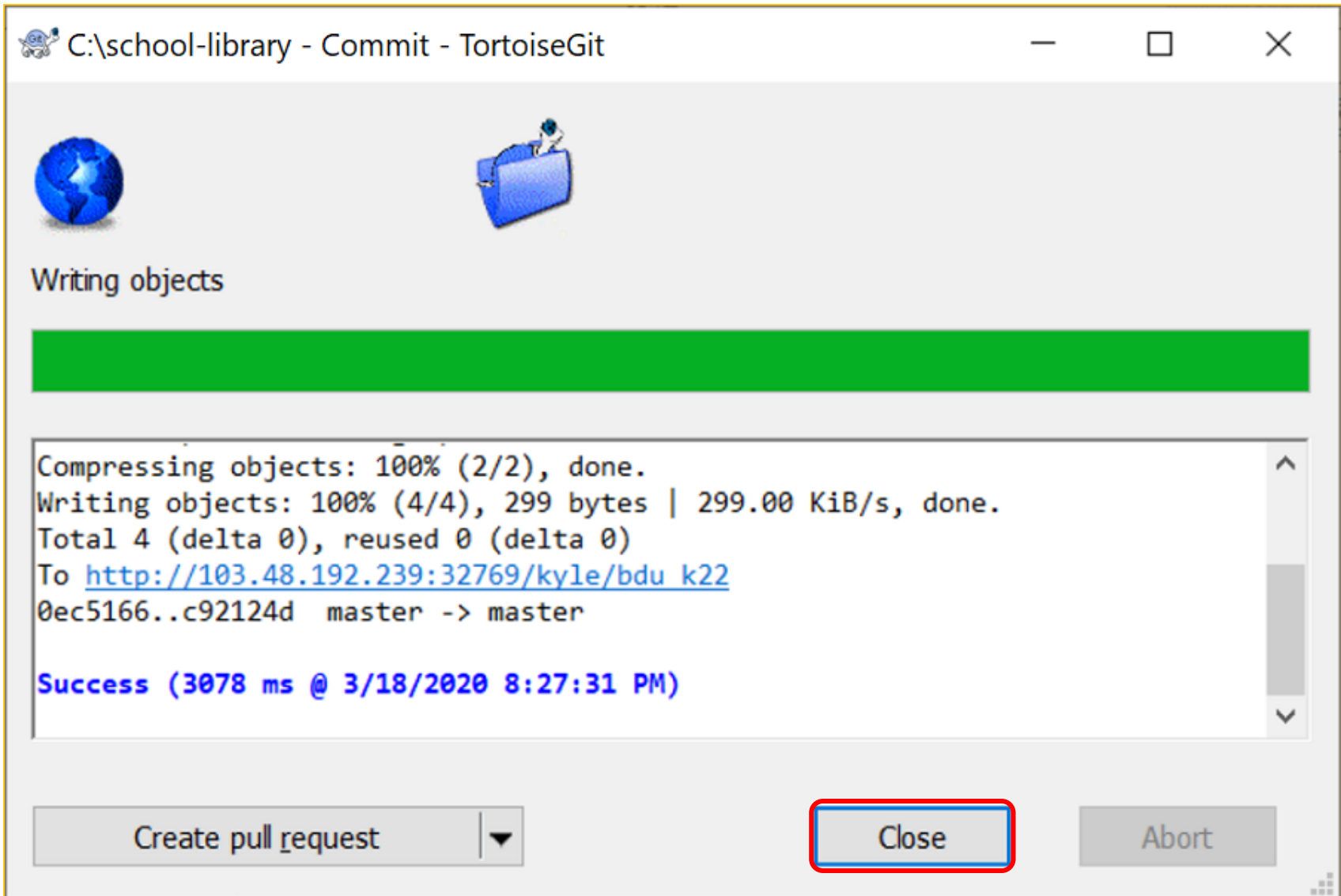
☐ Always push to the selected remote branch for this local branch

Recurse submodule: None

Push option:

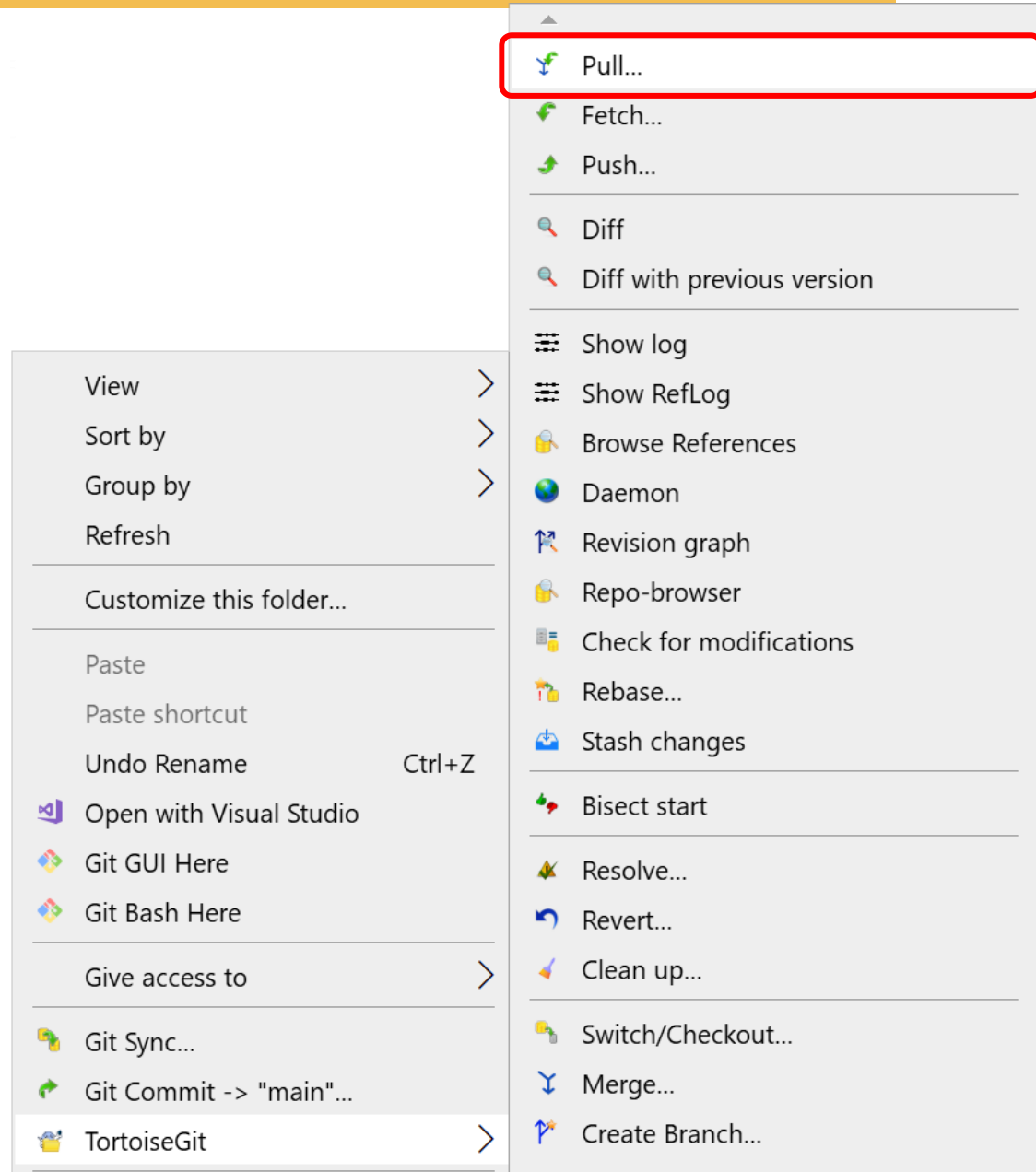
OK Cancel Help

➤ Click “Close” button to complete.



5.6. Pulling Source Codes

- To download the changes
 - Right-click in the repository, select “**ToitoseGit** → **Pull...**”
 - Select a branch
 - Click “**OK**” button start downloading.
 - Click “**Close**” button to complete.



Remote

☒ Remote

origin

☐ Arbitrary URL:

Remote Branch:

main

Options

☐ Squash

☐ No Commit

☐ No Fast Forward

☐ Fast Forward Only

☒ Tags

Default: Reachable

☒ Prune

☒ AutoLoad Putty Key

[Manage Remotes](#)

☐ Launch Rebase After Fetch

OK

Cancel

Help



C:\school-library - Git Command Progress - TortoiseGit



remote: Compressing objects



```
Updating 8f03c6a..522da91
Fast-forward
 java/HelloWorld.java | 5 +++++
 1 file changed, 5 insertions(+)
 create mode 100644 java/HelloWorld.java

Success (2954 ms @ 3/18/2020 8:41:15 PM)
```

Pulled Diff



Close

Abort

THE END