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Cloning a repository

When you create a repository on GitHub.com, it exists as a remote repository. You can clone your repository to create a local copy on your computer and sync between the two locations.

Mac Windows Linux

GitHub CLI Desktop Web browser

About cloning a repository

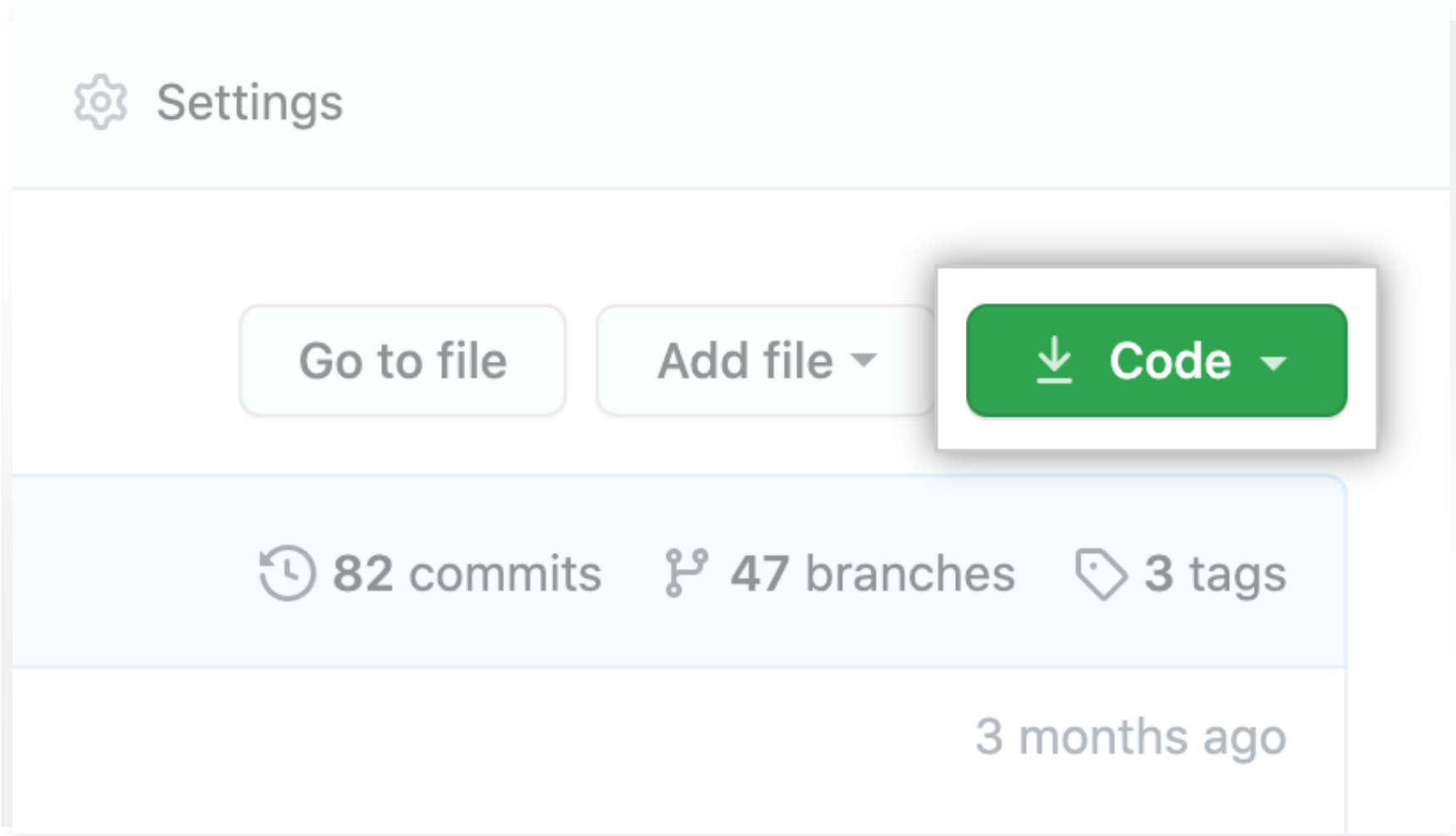
You can clone a repository from GitHub.com to your local computer to make it easier to fix merge conflicts, add or remove files, and push larger commits. When you clone a repository, you copy the repository from GitHub.com to your local machine.




Cloning a repository pulls down a full copy of all the repository data that GitHub.com has at that point in time, including all versions of every file and folder for the project. You can push your changes to the remote repository on GitHub.com, or pull other people's changes from GitHub.com. For more information, see "[Using Git](#)".

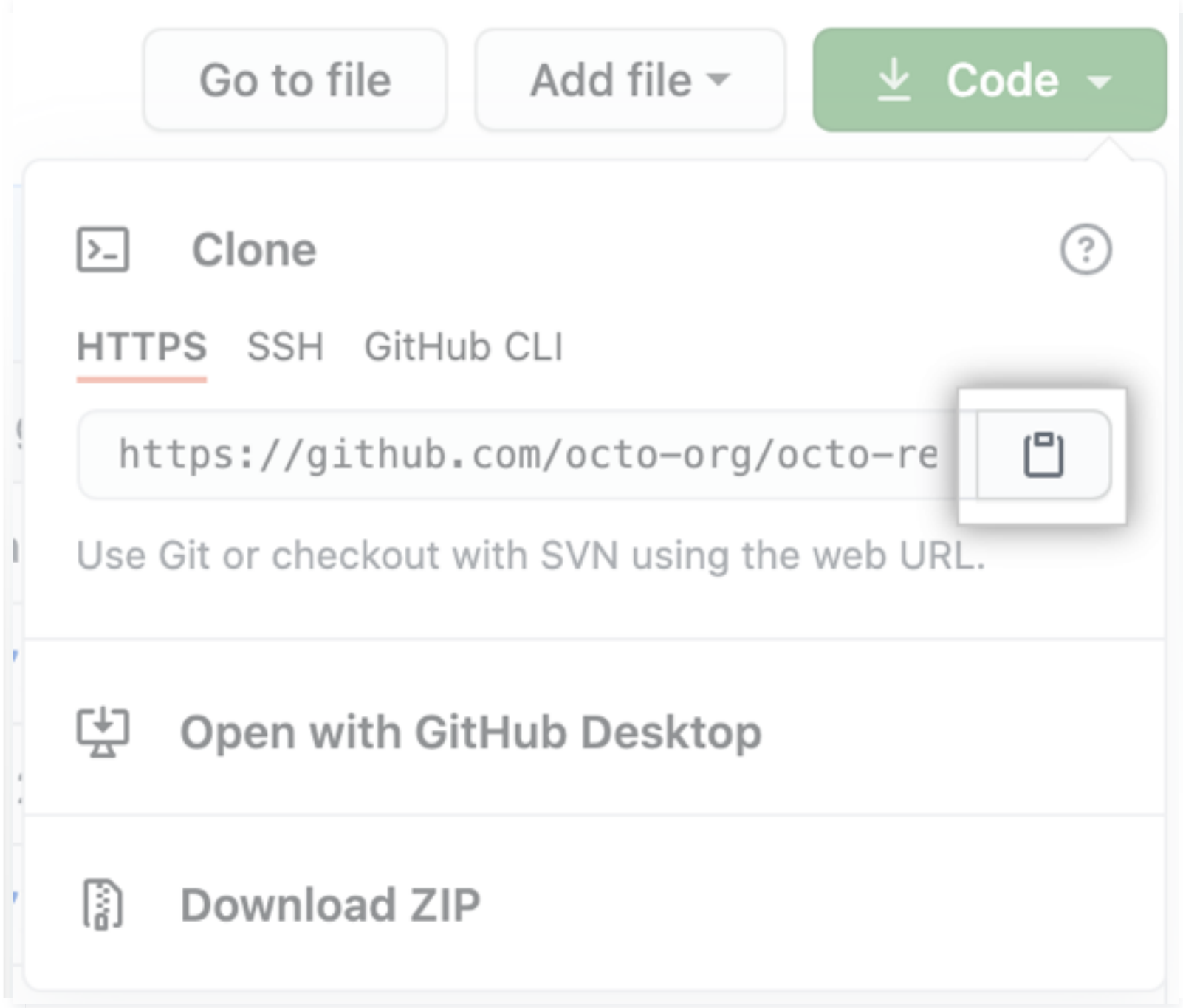
You can clone your existing repository or clone another person's existing repository to contribute to a project.

Cloning a repository

- On GitHub.com, navigate to the main page of the repository.
- Above the list of files, click **Code**.



- Copy the URL for the repository.
 - To clone the repository using HTTPS, under "HTTPS", click .
 - To clone the repository using an SSH key, including a certificate issued by your organization's SSH certificate authority, click **SSH**, then click .
 - To clone a repository using GitHub CLI, click **GitHub CLI**, then click .



- Open Terminal.
- Change the current working directory to the location where you want the cloned directory.
- Type `git clone`, and then paste the URL you copied earlier.



```
$ git clone https://github.com/YOUR-USERNAME/YOUR-REPOSITORY
```

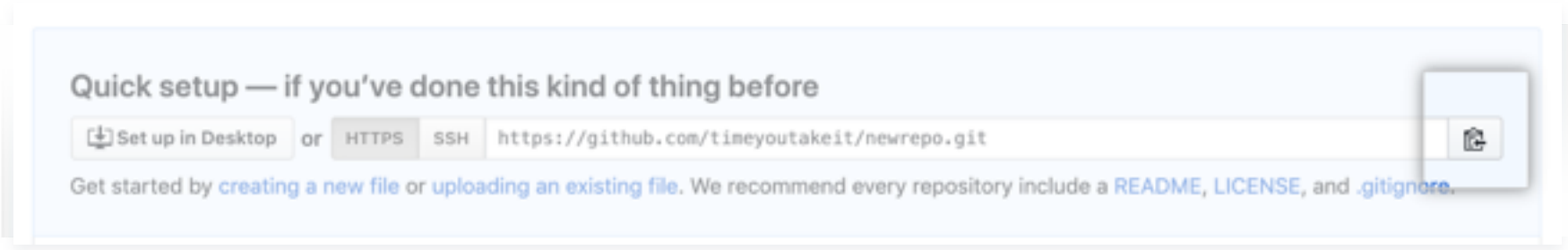
- Press **Enter** to create your local clone.


```
$ git clone https://github.com/YOUR-USERNAME/YOUR-REPOSITORY
> Cloning into `Spoon-Knife`...
> remote: Counting objects: 10, done.
> remote: Compressing objects: 100% (8/8), done.
> remove: Total 10 (delta 1), reused 10 (delta 1)
> Unpacking objects: 100% (10/10), done.
```

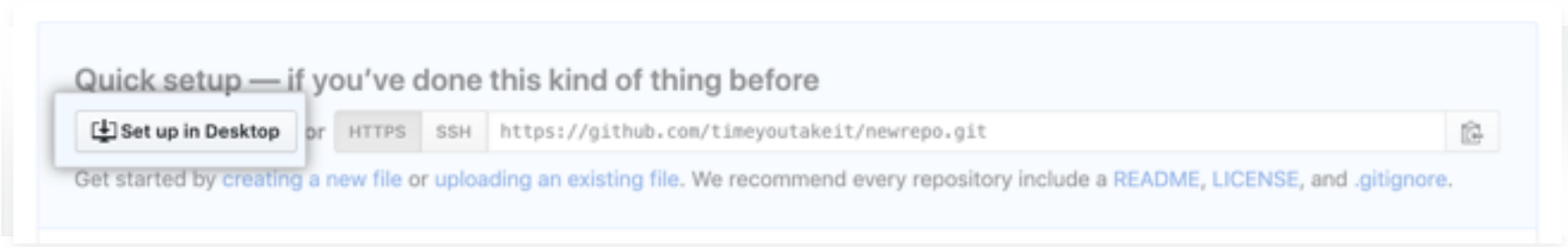
Cloning an empty repository

An empty repository contains no files. It's often made if you don't initialize the repository with a README when creating it.

- On GitHub.com, navigate to the main page of the repository.
- To clone your repository using the command line using HTTPS, under "Quick setup", click . To clone the repository using an SSH key, including a certificate issued by your organization's SSH certificate authority, click **SSH**, then click .



Alternatively, to clone your repository in Desktop, click  **Set up in Desktop** and follow the prompts to complete the clone.



- Open Terminal.
- Change the current working directory to the location where you want the cloned directory.
- Type `git clone`, and then paste the URL you copied earlier.

```
$ git clone https://github.com/YOUR-USERNAME/YOUR-REPOSITORY
```

- Press **Enter** to create your local clone.

```
$ git clone https://github.com/YOUR-USERNAME/YOUR-REPOSITORY
> Cloning into `Spoon-Knife`...
> remote: Counting objects: 10, done.
> remote: Compressing objects: 100% (8/8), done.
> remove: Total 10 (delta 1), reused 10 (delta 1)
> Unpacking objects: 100% (10/10), done.
```

Troubleshooting cloning errors

When cloning a repository it's possible that you might encounter some errors.

If you're unable to clone a repository, check that:

- You can connect using HTTPS. For more information, see "[HTTPS cloning errors](#)."
- You have permission to access the repository you want to clone. For more information, see "[Error: Repository not found](#)."
- The default branch you want to clone still exists. For more information, see "[Error: Remote HEAD refers to nonexistent ref, unable to checkout](#)."

Further reading

- "[Troubleshooting connectivity problems](#)"

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