



Signing commits

GitHub Docs

You can sign commits locally using GPG, SSH, or S/MIME.

Note: <u>GitHub Desktop</u> only supports commit signing if your Git client is configured to sign commits by default.

Tips:

To configure your Git client to sign commits by default for a local repository, in Git versions 2.0.0 and above, run git config commit.gpgsign true. To sign all commits by default in any local repository on your computer, run git config --global commit.gpgsign true.

To store your GPG key passphrase so you don't have to enter it every time you sign a commit, we recommend using the following tools:

- For Mac users, the <u>GPG Suite</u> allows you to store your GPG key passphrase in the Mac OS Keychain.
- For Windows users, the <u>Gpq4win</u> integrates with other Windows tools.

You can also manually configure <u>gpg-agent</u> to save your GPG key passphrase, but this doesn't integrate with Mac OS Keychain like ssh-agent and requires more setup.

If you have multiple keys or are attempting to sign commits or tags with a key that doesn't match your committer identity, you should <u>tell Git about your signing key</u>.

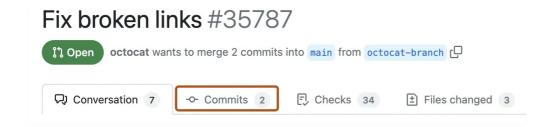
1 When committing changes in your local branch, add the -S flag to the git commit command:

```
$ git commit -S -m "YOUR_COMMIT_MESSAGE"
# Creates a signed commit
```

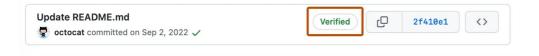
- 2 If you're using GPG, after you create your commit, provide the passphrase you set up when you generated your GPG key.
- 3 When you've finished creating commits locally, push them to your remote repository on GitHub:

```
$ git push
# Pushes your local commits to the remote repository
```

- 4 On GitHub, navigate to your pull request.
- 5 On the pull request, click → Commits.



6 To view more detailed information about the verified signature, click **Verified.**



Further reading @

- "Telling Git about your signing key"
- "Signing tags"
- "Managing GPG verification for GitHub Codespaces"

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