



Support for Subversion clients

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GitHub repositories can be accessed from both Git and Subversion (SVN) clients. This article covers using a Subversion client on GitHub and some common problems that you might run into.

GitHub supports Subversion clients via the HTTPS protocol. We use a Subversion bridge to communicate svn commands to GitHub.

Note: Subversion support will be removed from GitHub on January 8, 2024. A future release of GitHub Enterprise Server after January 8, 2024 will also remove Subversion support. To read more about this, see the GitHub blog.

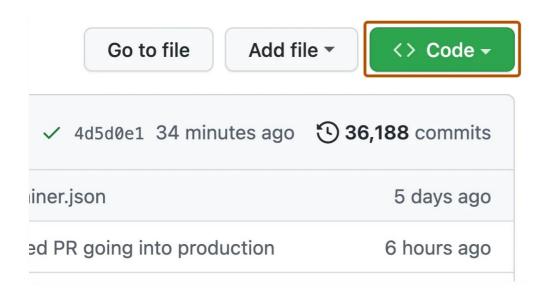
Supported Subversion features on GitHub &

Checkout @

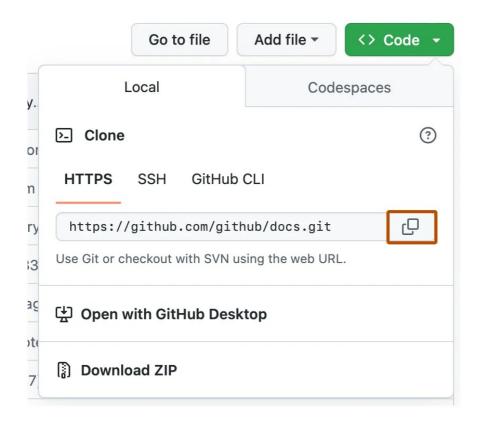
The first thing you'll want to do is a Subversion checkout. Since Git clones keep the working directory (where you edit files) separate from the repository data, there is only one branch in the working directory at a time.

Subversion checkouts are different: they mix the repository data in the working directories, so there is a working directory for each branch and tag you've checked out. For repositories with many branches and tags, checking out everything can be a bandwidth burden, so you should start with a partial checkout.

- 1 On your GitHub Enterprise Server instance, navigate to the main page of the repository.
- 2 Above the list of files, click <> **Code**.



- 3 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 **C**.
 - ∘ To clone a repository using GitHub CLI, click **GitHub CLI**, then click ☐.



4 Make an empty checkout of the repository:

```
$ svn co --depth empty https://github.com/USER/REP0
> Checked out revision 1.
$ cd REP0
```

5 Get the trunk branch. The Subversion bridge maps trunk to the Git HEAD branch.

```
$ svn up trunk
> A trunk
> A trunk/README.md
```

```
> A trunk/gizmo.rb
> Updated to revision 1.
```

6 Get an empty checkout of the branches directory. This is where all of the non-HEAD branches live, and where you'll be making feature branches.

```
$ svn up --depth empty branches
Updated to revision 1.
```

Creating branches &

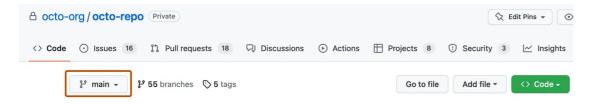
You can also create branches using the Subversion bridge to GitHub.

From your svn client, make sure the default branch is current by updating trunk:

```
$ svn up trunk
> At revision 1.
```

Next, you can use svn copy to create a new branch:

You can confirm that the new branch exists in the repository's branch dropdown:



You can also confirm the new branch via the command line:

```
$ git fetch
> From https://github.com/USER/REPO/
> * [new branch] more_awesome -> origin/more_awesome
```

Making commits to Subversion @

After you've added some features and fixed some bugs, you'll want to commit those changes to GitHub. This works just like the Subversion you're used to. Edit your files, and use svn commit to record your changes:

```
> A test
> A test/gizmo_test.rb
$ svn commit -m 'Test coverage for problems'
> Adding more_awesome/test
> Adding more_awesome/test/gizmo_test.rb
> Transmitting file data .
> Committed revision 4.
```

Switching between branches &

To switch between branches, you'll probably want to start with a checkout of trunk:

```
svn co --depth empty https://github.com/USER/REP0/trunk
```

Then, you can switch to another branch:

svn switch https://github.com/USER/REPO/branches/more awesome

Finding the Git commit SHA for a Subversion commit



GitHub's Subversion server exposes the Git commit sha for each Subversion commit.

To see the commit SHA, you should ask for the <code>git-commit</code> unversioned remote property.

\$ svn propget git-commit --revprop -r HEAD https://github.com/USER/REP0
05fcc584ed53d7b0c92e116cb7e64d198b13c4e3

With this commit SHA, you can, for example, look up the corresponding Git commit on GitHub.

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