

Setting up a git-svn working copy

Checkout an SVN repository `git svn clone -s <url_to_svn_repo> [--prefix=origin/]` The `-s` option is used to specify that the SVN repo has the standard file tree; the `--prefix` option specifies the prefix for remote branches naming

Reflect & track remote ignores `git svn show-ignore > .gitignore`

Staging and committing changes

Add file/stage changes `git add <file> [--all]` The command is recursive; the `--all` option forces to stage deletions

Commit staged changes `git commit [-m <message>]`

Add and commit all changes `git commit -a [-m <message>]`

Commit changes to the SVN repo `git svn dcommit [--rmdir]` The `--rmdir` option forces the deletion of empty directories

Undoing things

Revert unstaged changes `git checkout <file>`

Revert staged changes `git reset HEAD <file>`

Revert committed changes `git revert <rev_hash>` The revision hash can be `HEAD` if you want to undo your latest commit (see the documentation of the `revert` subcommand for additional detail)

Working with branches

Create a branch on the SVN repo `git svn branch <branch_name> [--parents]` This has to be done if you want the branch to be committed to the SVN repo; the `--parents` option forces the creation of parent directories if needed

Create a local git branch based on an existing SVN branch `git checkout -b <local_branch> <svn_branch>` This will keep both branches in sync

Be careful: if you rebase a branch on another, you might break something.

Make sure you run `git svn info` when you want to push modifications to an SVN branch to make sure you are committing to the appropriate branch: a broken SVN repo is hard to fix.

Useful resources

<https://viget.com/extend/effectively-using-git-with-subversion>

<http://justaddwater.dk/2009/03/09/using-git-for-svn-repositories-workflow/>



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