

#1 Daily Tools

#advanced-git

The .gitignore file

If there are any files you don't want to be tracked by Git, you can add it to the `.gitignore` file located in the base of your project. The file might not already exist if you're creating a new project.

```
$ echo "*.pdf" > .gitignore # Ignore all pdfs
```

Simple as that. Now, Git will not show any pdfs under untracked files.

Clean

If you find that your project suddenly has a bunch of untracked files that shouldn't be there, `git clean` will remove them for you. Obviously, this is a dangerous command. It's so dangerous in fact, that it won't even work by default:

```
$ git clean
fatal: clean.requireForce defaults to true and neither -i, -n, nor -f given;
refusing to clean
```

Supplying the `-f` flag will usually do what you want, which will remove all untracked files. Again, this is dangerous! Make sure you are ok with losing the files.

```
$ git clean -f
```

Note that `git clean` will only remove untracked files, so it's different than `git checkout -- filename`.

Stashing

`git stash` will clean up your repository and remove all the untracked changes. This will make it appear like the current `HEAD`. However, it will also save those changes so you can look at them later.

To stash your changes:

```
$ git stash push # also git stash
```

To look at your stashed changes:

```
$ git stash list # Get a list of all your stashes  
$ git stash show # Show your most recent stash
```

The `-p` flag can be applied to the examples above to see a diff of the changes.

To apply the changes (even on another branch!):

```
$ git stash apply
```

To remove stashed contents:

```
$ git stash drop # Removes most recent stash
```

As a shortcut:

```
$ git stash pop # Does git stash apply then git stash drop
```

Tags

Tags are kind of like branches in that they are a way to label commits. Unlike branches, tags do not move when you create new commits.

```
$ git tag <tagname> # Create a new tag with a given name  
$ git tag -d <tagname> # Delete a tag
```

Tags tend to be more permanent than branches. Try not to get into the habit of deleting old tags if possible, since this has possible consequences for tags on remotes.

Fast-forward Merges

In certain cases, it might be unnecessary to create a merge commit. By default, Git will attempt to do a “fast forward” when possible.

```
$ git checkout -b feature # This will checkout to a new branch
$ echo ... # Edit files here
$ git commit # Commit on feature branch
$ git checkout master
$ git merge feature
```