

Advanced Git Cheat Sheet

Command	Explanation & Link
git commit -a	Stages files automatically
git log -p	Produces patch text
git show	Shows various objects
git diff	Is similar to the Linux `diff` command, and can show the differences in various commits
git diff --staged	An alias to --cached, this will show all staged files compared to the named commit
git add -p	Allows a user to interactively review patches to add to the current commit
git mv	Similar to the Linux `mv` command, this moves a file
git rm	Similar to the Linux `rm` command, this deletes, or removes a file

There are many useful git cheatsheets online as well. Please take some time to research and study a few, such as [this one](#).

.gitignore files

.gitignore files are used to tell the git tool to intentionally ignore some files in a given Git repository. For example, this can be useful for configuration files or metadata files that a user may not want to check into the master branch. Check out more at: <https://git-scm.com/docs/gitignore>.

A few common examples of file patterns to exclude can be found [here](#).

Git Revert Cheat Sheet

[git checkout](#) is effectively used to switch branches.

[git reset](#) basically resets the repo, throwing away some changes. It's somewhat difficult to understand, so reading the examples in the documentation may be a bit more useful.

There are some other useful articles online, which discuss more aggressive approaches to [resetting the repo](#).

[git commit --amend](#) is used to make changes to commits after-the-fact, which can be useful for making notes about a given commit.

[git revert](#) makes a new commit which effectively rolls back a previous commit. It's a bit like an undo command.

There are a [few ways](#) you can rollback commits in Git.

There are some interesting considerations about how git object data is stored, such as the usage of sha-1.

Feel free to read more here:

- <https://en.wikipedia.org/wiki/SHA-1>
- <https://github.blog/2017-03-20-sha-1-collision-detection-on-github-com/>

Git Branches and Merging Cheat Sheet

Command	Explanation & Link
git branch	Used to manage branches
git branch <name>	Creates the branch
git branch -d <name>	Deletes the branch
git branch -D <name>	Forcibly deletes the branch
git checkout <branch>	Switches to a branch.
git checkout -b <branch>	Creates a new branch and switches to it .
git merge <branch>	Merge joins branches together.
git merge --abort	If there are merge conflicts (meaning files are incompatible), --abort can be used to abort the merge action.
git log --graph -- oneline	This shows a summarized view of the commit history for a repo.