



Git Cheatsheet

by www.mutesoft.com



#	Category	Command	Purpose
1	Setup	<code>git config <key> <value></code>	Configure various Git options such as username, user email, etc. in the current repository
2		<code>git config --global <key> <value></code>	Globally (all local repos) configure various Git options such as username, user email, etc.
3		<code>git init</code>	Initialize a new local Git repository. Turn a directory into a Git repository.
4		<code>git clone <url></code>	Create a local working copy of an existing remote repository
5	Status	<code>git status</code>	Display the state of the local repository (what is added, modified, and deleted)
6	Fetch	<code>git fetch</code>	Fetch the branch and commit details from the remote repositories without copying files
7		<code>git pull origin <branch></code>	Fetch and merge the latest changes from the remote repository to the local repository
8		<code>git checkout <branch></code>	Checkout an existing branch and switch to it
9		<code>git checkout <commit></code>	Checkout a specific commit
10	Branch	<code>git branch</code>	List all local branches and determine which branch the local repository is on
11		<code>git branch -a</code>	List all branches, including the remote ones
12		<code>git branch <name></code>	Create a new branch, but remain in the current branch
13		<code>git branch -d <branch></code>	Delete a branch
14		<code>git switch <branch></code>	Switch to a branch
15		<code>git checkout -b <branch></code>	Create a new branch and immediately switch to the new branch
16	Develop	<code>git add <file1> <file2> <file3></code>	Add specified files to the staging area in order to commit subsequently
17		<code>git add --all</code>	Add all files that are not staged to the staging area in order to commit subsequently
18		<code>git clean</code>	Remove untracked files from the local repository
19		<code>git rm <file></code>	Remove tracked files or directories from the index or from the working directory
20		<code>git mv <file1> <file2></code>	Rename a file and update the index
21		<code>git checkout <file></code>	Discard changes made to the file in the local repository
22		<code>git commit -m <message></code>	Save the changes to the local repository
23		<code>git commit --amend</code>	Amend (update) the most recent commit
24	Submit	<code>git push origin <branch></code>	Push (submit) the content of commits from the local repository to the remote repository
25	Sync	<code>git merge <branch></code>	Integrate changes from one branch to another branch. Creates a merge commit.
26		<code>git rebase <branch></code>	Integrate changes from one branch to another branch. Rewrites commit history.
27	Analyze	<code>git log</code>	Show the commit history
28		<code>git show <commit></code>	Show details of a specific commit
29		<code>git blame <file></code>	Show what revision and author last modified each line of a file
30		<code>git diff</code>	View changes between the working directory and the staging area
31		<code>git diff <file></code>	View changes in a file
32		<code>git diff <branch1> <branch2> <file></code>	View changes of a file between two branches
33		<code>git diff <commit1> <commit2> <file></code>	View changes of a file between two commits
34	Revert	<code>git reset --hard <commit></code>	Undo changes to files in the working directory. Other options are --soft and --mixed.
35		<code>git reset --hard HEAD~2</code>	Move the current branch backward by 2 commits
36		<code>git revert HEAD~2</code>	Revert (Undo) the 2nd to last commit and create a new commit
37	Stash	<code>git stash</code>	Save changes made when they are not in a state to commit them
38		<code>git stash list</code>	Lists all stashes
39		<code>git stash pop</code>	Applies the top stashed element and removes it
40		<code>git stash apply</code>	Applies the top stashed element and preserves it
41	Remote	<code>git remote <cmd> <name> <url></code>	Add a remote repository
42		<code>git remote -v</code>	List named remote repositories
43	Tag	<code>git tag</code>	List all tags
44		<code>git tag <name></code>	Create a new tag
45	Others	<code>.gitignore</code>	A file placed in the repository to specify exclusion file patterns separated by new line
		<code>.git/config</code> or <code>~/.gitconfig</code>	The git configuration file for a specific repository or global configuration