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Git Cheat Sheet



GIT BASICS

<code>git init</code> <code><directory></code>	Create empty Git repo in specified directory. Run with no arguments to initialize the current directory as a git repository.
<code>git clone <repo></code>	Clone repo located at <code><repo></code> onto local machine. Original repo can be located on the local filesystem or on a remote machine via HTTP or SSH.
<code>git config</code> <code>user.name <name></code>	Define author name to be used for all commits in current repo. Devs commonly use <code>--global</code> flag to set config options for current user.
<code>git add</code> <code><directory></code>	Stage all changes in <code><directory></code> for the next commit. Replace <code><directory></code> with a <code><file></code> to change a specific file.
<code>git commit -m</code> <code>"<message>"</code>	Commit the staged snapshot, but instead of launching a text editor, use <code><message></code> as the commit message.
<code>git status</code>	List which files are staged, unstaged, and untracked.
<code>git log</code>	Display the entire commit history using the default format. For customization see additional options.
<code>git diff</code>	Show unstaged changes between your index and working directory.

UNDOING CHANGES

<code>git revert</code> <code><commit></code>	Create new commit that undoes all of the changes made in <code><commit></code> , then apply it to the current branch.
<code>git reset <file></code>	Remove <code><file></code> from the staging area, but leave the working directory unchanged. This unstages a file without overwriting any changes.
<code>git clean -n</code>	Shows which files would be removed from working directory. Use the <code>-f</code> flag in place of the <code>-n</code> flag to execute the clean.

REWRITING GIT HISTORY

<code>git commit</code> <code>--amend</code>	Replace the last commit with the staged changes and last commit combined. Use with nothing staged to edit the last commit's message.
<code>git rebase <base></code>	Rebase the current branch onto <code><base></code> . <code><base></code> can be a commit ID, branch name, a tag, or a relative reference to HEAD.
<code>git reflog</code>	Show a log of changes to the local repository's HEAD. Add <code>--relative-date</code> flag to show date info or <code>--all</code> to show all refs.

GIT BRANCHES

<code>git branch</code>	List all of the branches in your repo. Add a <code><branch></code> argument to create a new branch with the name <code><branch></code> .
<code>git checkout -b</code> <code><branch></code>	Create and check out a new branch named <code><branch></code> . Drop the <code>-b</code> flag to checkout an existing branch.
<code>git merge <branch></code>	Merge <code><branch></code> into the current branch.

REMOTE REPOSITORIES

<code>git remote add</code> <code><name> <url></code>	Create a new connection to a remote repo. After adding a remote, you can use <code><name></code> as a shortcut for <code><url></code> in other commands.
<code>git fetch</code> <code><remote> <branch></code>	Fetches a specific <code><branch></code> , from the repo. Leave off <code><branch></code> to fetch all remote refs.
<code>git pull <remote></code>	Fetch the specified remote's copy of current branch and immediately merge it into the local copy.
<code>git push</code> <code><remote> <branch></code>	Push the branch to <code><remote></code> , along with necessary commits and objects. Creates named branch in the remote repo if it doesn't exist.

Additional Options +

GIT CONFIG

<code>git config --global user.name <name></code>	Define the author name to be used for all commits by the current user.
<code>git config --global user.email <email></code>	Define the author email to be used for all commits by the current user.
<code>git config --global alias. <alias-name> <git-command></code>	Create shortcut for a Git command. E.g. <code>alias.glog "log --graph --oneline"</code> will set "git glog" equivalent to "git log --graph --oneline".
<code>git config --system core.editor <editor></code>	Set text editor used by commands for all users on the machine. <editor> arg should be the command that launches the desired editor (e.g., vi).
<code>git config --global --edit</code>	Open the global configuration file in a text editor for manual editing.

GIT LOG

<code>git log -<limit></code>	Limit number of commits by <limit>. E.g. "git log -5" will limit to 5 commits.
<code>git log --oneline</code>	Condense each commit to a single line.
<code>git log -p</code>	Display the full diff of each commit.
<code>git log --stat</code>	Include which files were altered and the relative number of lines that were added or deleted from each of them.
<code>git log --author="<pattern>"</code>	Search for commits by a particular author.
<code>git log --grep="<pattern>"</code>	Search for commits with a commit message that matches <pattern>.
<code>git log <since>..<until></code>	Show commits that occur between <since> and <until>. Args can be a commit ID, branch name, HEAD, or any other kind of revision reference.
<code>git log -- <file></code>	Only display commits that have the specified file.
<code>git log --graph --decorate</code>	--graph flag draws a text based graph of commits on left side of commit msgs. --decorate adds names of branches or tags of commits shown.

GIT DIFF

<code>git diff HEAD</code>	Show difference between working directory and last commit.
<code>git diff --cached</code>	Show difference between staged changes and last commit

GIT RESET

<code>git reset</code>	Reset staging area to match most recent commit, but leave the working directory unchanged.
<code>git reset --hard</code>	Reset staging area and working directory to match most recent commit and overwrites all changes in the working directory.
<code>git reset <commit></code>	Move the current branch tip backward to <commit>, reset the staging area to match, but leave the working directory alone.
<code>git reset --hard <commit></code>	Same as previous, but resets both the staging area & working directory to match. Deletes uncommitted changes, and all commits after <commit>.

GIT REBASE

<code>git rebase -i <base></code>	Interactively rebase current branch onto <base>. Launches editor to enter commands for how each commit will be transferred to the new base.
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GIT PULL

<code>git pull --rebase <remote></code>	Fetch the remote's copy of current branch and rebases it into the local copy. Uses git rebase instead of merge to integrate the branches.
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GIT PUSH

<code>git push <remote> --force</code>	Forces the git push even if it results in a non-fast-forward merge. Do not use the --force flag unless you're absolutely sure you know what you're doing.
<code>git push <remote> --all</code>	Push all of your local branches to the specified remote.
<code>git push <remote> --tags</code>	Tags aren't automatically pushed when you push a branch or use the --all flag. The --tags flag sends all of your local tags to the remote repo.