Git Cheat Sheet



GIT BASICS

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Clone repo located at <repo> onto local machine. Original repo can be located on the local filesystem or on a remote machine via HTTP or SSH.</repo>	Define author name to be used for all commits in current repo. Devs commonly useglobal flag to set config options for current user.	Stage all changes in ‹directory› for the next commit. Replace ‹directory› with a ‹file› to change a specific file.	Commit the staged snapshot, but instead of launching a text editor, use <message> as the commit message.</message>	List which files are staged, unstaged, and untracked.	Display the entire commit history using the default format. For customization see additional options.	Show unstaged changes between your index and working directory.
git clone <repo></repo>	git config user.name <name></name>	git add <directory></directory>	git commit -m " <message>"</message>	git status	git log	git diff
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UNDOING CHANGES

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

REWRITING GIT HISTORY

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

GIT BRANCHES

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

REMOTE REPOSITORIES

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

Additional Options +

GIT CONFIG git configglobal	Define the author name to be used for all commits by the current user.	GII git
user.name <name> git configglobal user.email <email></email></name>	Define the author email to be used for all commits by the current user.	git
<pre>git configglobal alias. <alias-name> <git-command></git-command></alias-name></pre>	Create shortcut for a Git command. E.g. alias.glog "loggraphoneline" will set "git glog" equivalent to "git loggraphoneline.	git
git config ——system core.editor <editor></editor>	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).</editor>	git
git config globaledit	Open the global configuration file in a text editor for manual editing.	git
GIT LOG		git <co< td=""></co<>
- <limit></limit>	Limit number of commits by <limit>. E.g. "git log -5" will limit to 5 commits.</limit>	GI
oneline	Condense each commit to a single line.	git
d-	Display the full diff of each commit.	 /ba
stat	Include which files were altered and the relative number of lines that were added or deleted from each of them.	Г
git logauthor= " <pattern>"</pattern>	Search for commits by a particular author.	git <re< td=""></re<>
git log grep=" <pattern>"</pattern>	Search for commits with a commit message that matches <pattern>.</pattern>	GI
git log <since><until></until></since>	Show commits that occur between <since> and <until>. Args can be a commit ID, branch name, HEAD, or any other kind of revision reference.</until></since>	git f
<file></file>	Only display commits that have the specified file.	git a

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git diff HEAD	Show difference between working directory and last commit.
git diffcached	Show difference between staged changes and last commit
GIT RESET	
git reset	Reset staging area to match most recent commit, but leave the working directory unchanged.
git resethard	Reset staging area and working directory to match most recent commit and overwrites all changes in the working directory.
git reset <commit></commit>	Move the current branch tip backward to <commit>, reset the staging area to match, but leave the working directory alone.</commit>
<pre>git resethard <commit></commit></pre>	Same as previous, but resets both the staging area & working directory to match. Deletes uncommitted changes, and all commits after <code>ccommits</code>

SIT REBASE

GIT PULL

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.
t pullrebase	emote>

3IT PUSH

Forces the git push even if it results in a non-fast-forward merge. Do not use theforce flag unless you're absolutely sure you know what you're doing.	Push all of your local branches to the specified remote.	Tags aren't automatically pushed when you push a branch or use thea11 flag. Thetags flag sends all of your local tags to the remote repo.
git push <remote></remote>	git push <remote></remote>	git push <remote></remote>
force	all	tags

--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 log --graph

--decorate