Git Cheat Sheet



GIT BASICS

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

UNDOING CHANGES

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

REWRITING GIT HISTORY

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

GIT BRANCHES

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

REMOTE REPOSITORIES

git push <remote> <branch></branch></remote>	git pull <remote></remote>	git fetch <remote> <branch></branch></remote>	git remote add <name> <url></url></name>
Push the branch to <remote>, along with necessary commits and objects. Creates named branch in the remote repo if it doesn't exist.</remote>	Fetch the specified remote's copy of current branch and immediately merge it into the local copy.	Fetches a specific <branch>, from the repo. Leave off <branch> to fetch all remote refs.</branch></branch>	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>



Additional Options +

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git config —global user.name <name> git config —global user.email <email> git config —global alias. <alias-name> <git-command></git-command></alias-name></email></name>	Define the author name to be used for all commits by the current user. Define the author email to be used for all commits by the current user. Create shortcut for a Git command. Eg. alias.glog "loggraphoneline" will set "git glog" equivalent to "git loggraphoneline.
<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 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 config globaledit	Open the global configuration file in a text editor for manual editing.

GIT LOG

git log —-graph —-decorate	git log <file></file>	git log <since><until></until></since>	git log grep=" <pattern>"</pattern>	git logauthor= " <pattern>"</pattern>	git logstat	git log -p	git logoneline	git log - <limit></limit>
—graph flag draws a text based graph of commits on left side of commimsgs. —decorate adds names of branches or tags of commits shown.	Only display commits that have the specified file.	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>	Search for commits with a commit message that matches <pattern>.</pattern>	Search for commits by a particular author.	Include which files were altered and the relative number of lines that were added or deleted from each of them.	Display the full diff of each commit.	Condense each commit to a single line.	Limit number of commits by <1imit>. E.g. "git log -5" will limit to 5 commits.

GIT DIFF

git diffcached	git diff HEAD
Show difference between staged changes and last commit	Show difference between working directory and last commit

GIT RESET

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

GIT REBASE

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

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

GIT PUSH

git push <remote> tags</remote>	git push <remote> all</remote>	git push <remote></remote>
Tags aren't automatically pushed when you push a branch or use theall flag. Thetags flag sends all of your local tags to the remote repo.	Push all of your local branches to the specified remote.	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.

