Git Cheat Sheet



GIT BASICS

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

UNDOING CHANGES

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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
git rev <commi1< td=""><td>git re</td><td>git cle</td></commi1<>	git re	git cle

REWRITING GIT HISTORY

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

IT BRANCHES

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

REMOTE REPOSITORIES

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 fetch <remote> <branch></branch></remote>	git pull <remote></remote>	git push <remote> <branch></branch></remote>

Additional Options+

GIT CONFIG

git ser. git	ier. GIT	git ine.	or> git vi).	git
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. E.g. alias.glog "log —graph oneline" will set "git glog" equivalent to "git loggraphoneline.	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>	Open the global configuration file in a text editor for manual editing.
git config ——global user.name <name></name>	<pre>git configglobal user.email <email></email></pre>	git configglobal alias. <alias-name> <git-command></git-command></alias-name>	git config ——system core.editor <editor></editor>	git config globaledit

GIT LOG

git log - <limit></limit>	Limit number of commits by Limit Number of commits by E.g. "git log -5" will limit to 5 commits.	O
git logoneline	Condense each commit to a single line.	0,
git log -p	Display the full diff of each commit.	V
git logstat	Include which files were altered and the relative number of lines that were added or deleted from each of them.	
git logauthor= " <pattern>"</pattern>	Search for commits by a particular author.	5) V
git log grep=" <pattern>"</pattern>	Search for commits with a commit message that matches <pattern>.</pattern>	
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>	5)
git log <file></file>	Only display commits that have the specified file.	6) [
git loggraph decorate	graph flag draws a text based graph of commits on left side of commit msasdecorate adds names of branches or taas of commits shown.	0) 1

GIT DIFF

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><commit>.</commit></code>

GIT REBASE

Interactively rebase current branch onto ébases. Launches editor to enter	commands for how each commit will be transferred to the new base.
git rebase —i	

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.
git pullrebase	<re><re><re><re><re></re></re></re></re></re>

GIT 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 the all 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