

GIT CHEET SHEAT



BASIC OF GIT

Git init	Create empty git repo in specified directory. Run with no arguments
<directory></directory>	to initialize the current directory as a git repository.
Git Clone	, , ,
	Clone repo located at <repo> onto local machine. Original repo can</repo>
<repo></repo>	be located on the local filesystem or on a remote machine via HTTP
	or SSH.
git config	Define author name to be used for all commits in current repo. Devs
user.name	commonly useglobal flag to set config options for current user.
<name></name>	
git add	Stage all changes in <directory> for the next commit.</directory>
<directory></directory>	Replace < directory > with a < file > to change a specific file.
git commit -m	Commit the staged snapshot, but instead of launching a text editor,
" <message>"</message>	use <message> as the commit message.</message>
git status	List which files are staged, unstaged, and untracked.
git log	Display the entire commit history using the default format.
8-11-8	For customization see additional options.
	Tor customization see additional options.
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git diff	Show unstaged changes between your index and working directory.

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 <base/> . <base/> can be a commit ID, branch name, a tag, or a relative reference to HEAD.
git reflog	Show a log of changes to the local repository's HEAD.Add relative-date flag to show date info orall to show all refs

GIT LOG

git log - imit>	Limit number of commits by imit>.E.g. "git log -5"
	will limit to 5 commits
git logoneline	Condense each commit to a single line.
git log -p	Display the full diff of each commit.
	• •
git logstat	Include which files were altered and the relative number
	of lines that were added or deleted from each of them
git log	Search for commits by a particular author
author=" <pattern>"</pattern>	• •
-	
git log	Search for commits with a commit message that
grep=" <pattern>"</pattern>	matches <pattern>.</pattern>
<u>C 1 1</u>	•
git log	Show commits that occur between <since> and <until>.</until></since>
<since><until></until></since>	Args can be a commit ID, branch name, HEAD, or any
	other kind of revision reference.
git log <file></file>	Only display commits that have the specified file.
git log	graph flag draws a text based graph of commits on left
graphdecorate	side of commit msgsdecorate adds names of branches
9-apri	
	or tags of commits shown

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>	Create and check out a new branch named branch>.Drop the -b flag to checkout an existing branch.
git merge <branch></branch>	Merge branch> into the current branch

GIT CONFIG

git configglobal user.name <name></name>	Define the author name to be used for all commits by the current user.
git configglobal user.email <email></email>	Define the author email to be used for all commits by the current user.
git configglobal alias. <alias-name> <git-command></git-command></alias-name>	Create shortcut for a Git command. E.g. alias.glog "loggraphoneline" will set "git glog" equivalent to "git loggraph oneline.
git configsystem 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 configglobal edit	Open the global configuration file in a text editor for manual editing.

UNCODING CHANGES

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

REMOTE RERPOSITORIES

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

SOME IMPORTANT GIT COMMANDS



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>
git resethard <commit></commit>	Same as previous, but resets both the staging area & working directory to match. Deletes uncommitted changes, and all commits after <commit>.</commit>

GIT REBASE

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

GIT PULL

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

GIT PUSH

git push <remote> force</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.
git push <remote> all</remote>	Push all of your local branches to the specified remote.
git push <remote> tags</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.

