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 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 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 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 commit -m " <message>"</message>	Commit the staged snapshot, but instead of launching a text editor, 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. For customization see additional options.			
git diff	Show unstaged changes between your index and working directory.			
Undoing Changes				
git revert <commit></commit>	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

Shows which files would be removed from working directory. Use

unchanged. This unstages a file without overwriting any changes.

the -f flag in place of the -n flag to execute the clean.

Rewriting Git History				
git commitamend	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, a 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				
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Git Branches	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 reset <file>

git clean -n

Additional Options +

git config		git diff	
git configglobal user.name <name></name>	Define the author name to be used for all commits by the current user.	git diff HEAD	Show difference between working directory and last commit. Show difference between staged changes and last commit
git configglobal	Define the author email to be used for all commits by the current user.	git reset	
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 loggraphoneline.	git reset	Reset staging area to match most recent commit, but leave the working directory unchanged.
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 resethard	Reset staging area and working directory to match most recent commit and overwrites all changes in the working directory.
git config globaledit	Open the global configuration file in a text editor for manual editing.	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 log		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 log - <limit></limit>	Limit number of commits by 1 E.g. git log -5 will limit to 5 commits.	git rebase	
git logoneline	Condense each commit to a single line.	git rebase -i	Interactively rebase current branch onto <base/> . Launches editor to enter commands for how each commit will be transferred to the new base.
git log -p	Display the full diff of each commit.	<base/>	
git logstat	Include which files were altered and the relative number of lines that were added or deleted from each of them.	git pull	
git logauthor= " <pattern>"</pattern>	Search for commits by a particular author.	git pullrebase <remote></remote>	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 log grep=" <pattern>"</pattern>	Search for commits with a commit message that matches <pattern>.</pattern>	git push	
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 push <remote>force</remote>	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.
git log <file></file>	Only display commits that have the specified file.	git push <remote>all</remote>	Push all of your local branches to the specified remote.
git loggraph decorate	graph flag draws a text based graph of commits on left side of commit msgsdecorate adds names of branches or tags of commits shown.	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.

