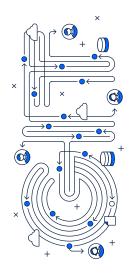
Git Cheat Sheet



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

	Rewriting Git History	istory
arguments	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.
po can be TP or SSH.	git rebase <base/>	Rebase the current branch onto base>. dasse> can be a commit ID, a branch name, a tag, or a relative reference to HEAD.
repo. Devs ent user.	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.
ai.	Git Branches	
ext editor,	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.
ند	git merge <branch></branch>	Merge <branch> into the current branch.</branch>
directory.	Remote Repositories	ories

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 diff	
git configglobal user.name <name></name>	Define the author name to be used for all commits by the current user.	git diff HEAD git diffcached	Show diff Show diff
git configglobal user.email <email></email>	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 sta
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 resethard	Reset sta
git config globaledit	Open the global configuration file in a text editor for manual editing.	git reset <commit></commit>	Move the staging a
git log		<pre>git resethard <commit></commit></pre>	Same as p match. De
git log - <limit></limit>	Limit number of commits by Limit>. E.g. git log -5 will limit to 5 commits.	git rebase	
git logoneline git log -p	Condense each commit to a single line. Display the full diff of each commit.	git rebase -i <base/>	Interactive
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 copy. Use
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 sinces and suntils. Args can be a commit ID, branch name, HEAD, or any other kind of revision reference.	git push <remote> force</remote>	Forces the theforce
git log <file></file>	Only display commits that have the specified file.	git push <remote> all</remote>	Push all of
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 all fla

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

