

Git Cheat Sheet

Git Cheat Sheet

Type / to search entire site...



9/16/25, 1:13 PM

Git Cheat Sheet

Commit all unstaged changes:

git commit -am 'message'

Move Between Branches

Switch branches:

git switch <name>

OR

git checkout <name>

Clone an existing repo:

Start a new repo:

git init

Getting Started

git clone <url>

git switch -c <name> OR

Create a branch:

git checkout -b <name>

List branches by most recently committed to:

git branch --sort=-committerdate

List branches:

git branch

Add all untracked files and unstaged changes:

Add untracked file or unstaged changes:

git add <file>

Prepare to Commit

git add

Force delete a branch:

git branch -D <name>

Delete a branch:

git branch -d <name>

Diff Staged/Unstaged Changes

Diff all staged and unstaged changes:

Diff just staged changes:

git diff --staged

git diff HEAD

Tell Git to forget about a file without deleting it:

git mv <old> <new>

Move file:

Choose which parts of a file to stage:

git add -p

git rm --cached <file>

Unstage everything:

git reset

Check what you added:

git status

git reset <file>

Unstage one file:

git rm <file>

Delete file:

Diff just unstaged changes:

git diff

Diff Commits

Show diff between a commit and its parent:

git show <commit>

Diff one file since a commit:

<

git diff <commit> <file>

Show a summary of a diff:

git diff <commit> <commit>

Diff two commits:

<

git show <commit> --stat git diff <commit> --stat

git commit -m 'message'

Make a commit:

Make a commit (and open text editor to write message):

Make Commits

1/1

https://git-scm.com/cheat-sheet

https://git-scm.com/cheat-sheet

git commit

Ways to refer to a commit

Every time we say <commit>, you can use any of these:

main * a branch

v0.1 * a tag

origin/main 3e887ab * a remote branch * a commit ID

Show every commit that modified a file:

Look at a branch's history:

Code Archaeology

git log --graph main git log --oneline

git log main

Git Cheat Sheet

Then manually find the right commit ID

9/16/25, 1:13 PM

git reset --hard <commit>

in the reflog, then run:

git log <file>

Find every commit that added or removed some text:

Show every commit that modified a file, including before it was renamed:

git log --follow <file>

git log -G banana

HEAD

* current commit

HEAD^^^ or HEAD~3 ★ 3 commits ago

Discard Your Changes

Delete unstaged changes to one file:

git checkout <file>

Delete all staged and unstaged changes to one file:

Show who last changed each line of a file:

git blame <file>

git checkout HEAD <file>

Delete untracked files:

Delete all staged and unstaged

changes:

git reset --hard

git clean

'Stash' all staged and unstaged changes:

git stash

Edit History

"Undo" the most recent commit (keep your working directory the same):

Squash the last 5 commits into one:

git rebase -i HEAD~6

git reset HEAD'

Undo a failed rebase:

Change a commit message (or add a file you forgot):

git commit --amend

git reflog BRANCHNAME

https://git-scm.com/cheat-sheet

Combine Diverged Branches

.main git switch banana git rebase main

banana main After:

<

commit you want to combine with the Then change "pick" to "fixup" for any

previous one

Combine with merge:

Combine with rebase:

git merge banana git switch main

-main -banana

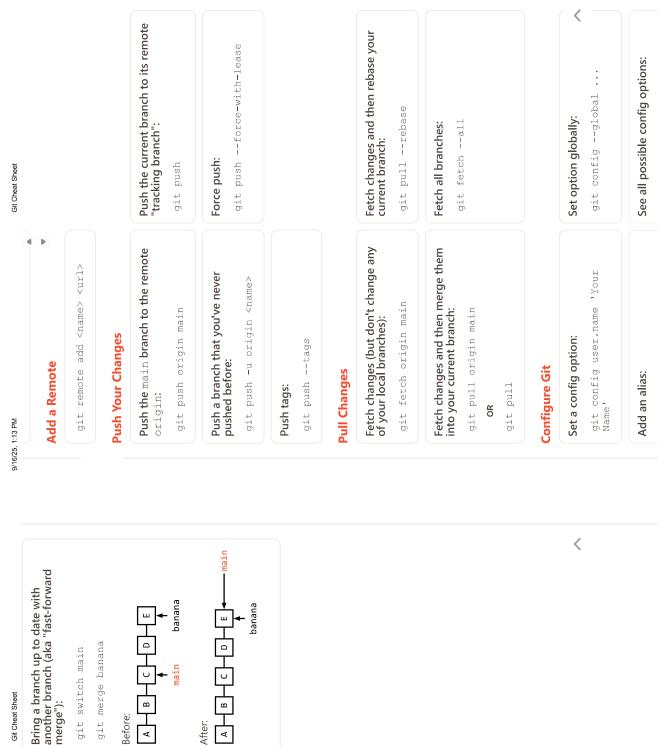
banana

-"lost"

https://git-scm.com/cheat-sheet

3/7





Git Cheat Sheet

-banana

-main

git merge --squash banana

git commit

Combine with squash merge:

9/16/25, 1:13 PM

git switch main

banana

V Ш П

Copy one commit onto the current branch:

git cherry-pick <commit>

Before:

·main

Get the version of a file from another commit: git checkout <commit> <file>

OR.

https://git-scm.com/cheat-sheel

git restore <file> --source

2/1

Git Cheat Sheet	git config alias.st status man git-config	S	g: Global git config:	~/.gitconfig	gnore:		
9/16/25, 1:13 PM	git config a	Important Files	Local git config:	.git/config	List of files to ignore:	.gitignore	

About this site
Patches, suggestions, and comments are welcome.

Git is a member of Software Freedom Conservancy

https://git-scm.com/cheat-sheet

2/1

<