

The Best GIT Cheat Sheet

Create Git Repository

From existing directory

`cd project_dir`

`git init`

`git add .`

From other repository

`git clone existing_dir new_dir`

`git clone git://github.com/user/repo.git`

`git clone https://github.com/user/repo.git`

Git - Local Changes

Changed in working directory

`git status`

Tracked file changes

`git diff`

Add changed files

`git add file1 file2 file3`

Remove file

`git rm file`

`git rm dir/ -r`

(recursive under directory)

See files ready for commit

`git diff --cached`

Commit changes

`git commit`

`git commit -m "My message"`

`git commit -a -m "My Message"`

(tracked files only, auto add)

Change last commit

`git commit --amend`

Revert changes to file

`git checkout -- file`

Revert changes (new commit)

`git revert HEAD`

Return to last committed state

`git reset --hard HEAD`

Git - History

Show all commits

`git log`

Short Format

`git log --pretty=short`

Patches

`git log -p`

Show file commits

`git log file`

Show directory commits

`git log dir/`

Stats

`git log --stat`

Who changed file

`git blame file`

Git - Merge/Rebase

Merge branch into current

`git merge branch`

Rebase into branch

`git rebase branch`

`git rebase master branch`

Abort rebase

`git rebase --abort`

Merge tool to solve conflicts

`git mergetool`

Conflicts against base file

`git diff --base file`

Diff other users changes

`git diff --theirs file`

Diff your changes

`git diff --ours file`

After resolving conflicts

`git rebase --continue`

Git - Remote Update / Publish

List remotes

`git remote -v`

Show information

`git remote show remote`

Add remote

`git remote add path/url`

Fetch changes

`git fetch remote`

Fetch + merge

`git pull remote branch`

Publish local to remote

`git push remote branch`

Delete remote branch

`git push remote :branch`

Publish tags

`git push --tags`

Git - Branching/Tagging

List branches

`git branch`

Switch to branch

`git checkout branch`

Create new branch

`git branch new`

Create branch from existing

`git branch new existing`

Delete branch

`git branch -d branch`

Tag current commit

`git tag tag-name`