# **GIT CHEAT SHEET**

presented by Tower - the best Git client for Mac and Windows



### CREATE

Clone an existing repository

\$gitdonessh://user@domain.com/repo.git

Create a new local repository

\$ git init

### LOCAL CHANGES

Changed files in your working directory

\$ git status

Changes to tracked files

\$ git diff

Add all current changes to the next commit

\$ git add.

Add some changes in <file> to the next commit

\$ git add -p <file>

Commit all local changes in tracked files

\$ git commit-a

Commit previously staged changes

\$ git commit

Change the last commit

Don't amend published commits!

\$ git commit -- amend

## COMMIT HISTORY

Show all commits, starting with newest

\$ git log

Show changes over time for a specific file

\$ git log -p <file>

Who changed what and when in <file>

\$ git blame < file>

### **BRANCHES & TAGS**

List all existing branches

\$ git branch -av

Switch HEAD branch

\$ git checkout <branch>

Create a new branch based on your current HEAD

\$ git branch < new-branch>

Create a new tracking branch based on a remote branch

\$ git checkout -- track < remote/branch>

Delete a local branch

\$ git branch -d <branch>

Mark the current commit with a tag

\$ git tag <tag-name>

## **UPDATE & PUBLISH**

List all currently configured remotes

\$ git remote -v

Show information about a remote

\$ git remote show < remote>

Add new remote repository, named <remote>

\$ git remote add <shortname> < url>

Download all changes from <remote>, but don't integrate into HEAD

\$ git fetch < remote>

Download changes and directly merge/integrate into HEAD

\$ git pull <remote> <branch>

Publish local changes on a remote

\$ git push < remote > < branch >

Delete a branch on the remote

\$ git branch -dr <remote/branch>

Publish your tags

\$ git push -- tags

#### MERGE & REBASE

Merge <branch> into your current HEAD

\$ git merge <branch>

Rebase your current HEAD onto <branch>

Don't rebase published commits!

\$ git rebase < branch>

Abort a rebase

\$ git rebase -- abort

Continue a rebase after resolving conflicts

\$ git rebase -- continue

Use your configured merge tool to solve conflicts

\$ git mergetool

Use your editor to manually solve conflicts and (after resolving) mark file as resolved

\$ git add <resolved-file>

\$ git rm <resolved-file>

### UNDO

Discard all local changes in your working directory

\$ git reset -hard HEAD

Discard local changes in a specific file

\$ git checkout HEAD <file>

Revert a commit (by producing a new commit with contrary changes)

\$ git revert < commit>

Reset your HEAD pointer to a previous commit ...and discard all changes since then

\$ git reset -hard < commit>

...and preserve all changes as unstaged changes

\$ git reset < commit>

...and preserve uncommitted local changes

\$ git reset -keep < commit>