

Resource

Online

Official Website

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GitCheatSheet [.pdf]
 Git cheat sheet, extended edition prepa
 red [.svg]
 Git Quick Reference [.pdf]
 Git Cheat Sheet In Chinese

Related

Bazaar
 CVS
 SVN

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 origin/upstream --tags

Create Git

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/re
 po.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

To view the merge conflicts

git diff
complete conflict diff
 git diff --base \$file
against base file
 git diff --ours \$file
against your changes
 git diff --theirs \$file
against other changes

To discard conflicting patch

git reset --hard
 git rebase --skip

After resolving conflicts

git add \$conflicting_file
do for all resolved files

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

Useful Commands

Finding Regressions

git bisect start
to start
 git bisect good \$id
\$id is the last working version

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

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 tagname

```
git bisect bad/good
    to mark it as bad or good
git bisect visualize
    to launch gitk and mark it
git bisect reset
    once you're done
```

Check for Errors and Cleanup Repository

```
git fsck
git gc --prune
```

Search Working Directory for foo()

```
git grep "foo()"
```