Git

Basics

Use git help [command] if you're stuck.

default devel branch master origin default upstream branch HEAD current branch

HEAD^ parent of HEAD HEAD~4 great-great grandparent of HEAD

foo..bar from branch foo to branch bar

Create

From existing files

git init git add .

From existing repository

git clone ~/old ~/new git clone git://... git clone ssh://...

View

git status git diff [oldid newid] git log [-p] [file|dir] git blame file git show id (meta data + diff) git show id:file git branch (shows list, * = current)

Revert In Git, revert usually describes a new

commit that undoes previous commits.

git reset --hard (NO UNDO)

(reset to last commit)

(replaces prev. commit)

git tag -1 (shows list)

git revert branch

git commit -a --amend

git checkout id file

Update

git fetch (from def. upstream) git fetch remote git pull (= fetch & merge) git am -3 patch.mbox

create

init

clone

qit commit [-a]

git push remote

git tag foo

Publish

In Git, commit only respects changes that have been marked explicitly with add.

(-a: add changed files

(create set of diffs)

(push to origin or remote)

(mark current version)

automatically)

git format-patch origin

git apply patch.diff

git checkout branch

git merge branch

git branch branch

git checkout -b new other

(branch new from other and switch to it)

change

browse

status

log

blame

show

diff

mark changes to be respected by commit: add

revert

reset checkout revert

update

pull fetch merge am

branch

checkout branch

commit

commit

push

push format-patch

Useful Tools

git archive

Create release tarball

git bisect

Binary search for defects

git cherry-pick

Take single commit from elsewhere

git fsck

Check tree

git gc

Compress metadata (performance)

git rebase

Forward-port local changes to remote branch

git remote add URL

Register a new remote repository for this tree

git stash

Temporarily set aside changes

Conflicts

git tag

(there's more to it)

gitk

Tk GUI for Git

Use add to mark files as resolved.

git diff [--base]

git diff -- theirs

git diff --ours

git log --merge

gitk --merge

Tracking Files

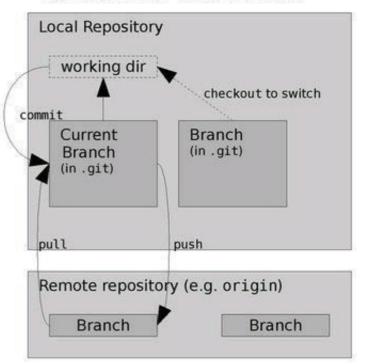
git add files git mv old new

git rm files

git rm --cached files

(stop tracking but keep files in working dir)

Structure Overview



Branch

(switch working dir to branch)

(merge into current)

(branch current)