Git Cheat Sheet

Basics

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

master default devel branch default devel branch default upstream branch current branch parent of HEAD origin HEAD 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)
git tag -l (shows list)

Revert

git reset --hard (NO UNDO)

git revert branch
git commit -a --amend
(replaces prev. commit
git checkout id file

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

git commit [-a]

create

init clone

browse

status

log blame show diff

git format-patch origin

(create set of diffs) git push remote (push to origin or remote) git tag foo (mark current version)

Update

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

Branch

git checkout branch

git merge branch

git branch branch

(branch current)
git checkout -b new other
(branch new from other and
switch to it)

revert

reset

checkout

update

pull fetch merge

am

git archive

Check tree Compress metadata (performance)

Register a new rer for this tree git stash

git tag (there's more to it)

gitk

Tracking Files

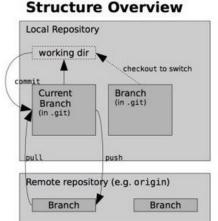
(stop tracking but keep files in working dir)

branch

checkout

git add files

git mv old new git rm files git rm --cached files



(left to right) Command Flow

commit

commit

push

push format-patch

Useful Tools

change

Create release tarball

Binary search for defects git cherry-pick Take single commit from elsew

git rebase

Forward-port local changes to remote branch git remote add URL

Tk GUI for Git

Conflicts

git diff [--base] git diff --ours git diff --theirs git log --merge gitk --merge