Git Cheat Sheet

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Basics

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

default devel branch master origin default upstream branch HEAD current branch HEAD^ parent of HEAD

great-great grandparent of HEAD

Create

From existing repository

git clone -/old -/new

git clone git://...

git clone ssh://...

From existing files

git init

git add .

HEAD~4 from branch foo to branch bar foo..bar

Publish

browse

status

log

blame

show

diff

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

git commit [-a] (-a: add changed files automatically)

git format-patch origin (create set of diffs)

git push remote

create

init

clone

(push to origin or remote) git tag foo (mark current version)

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 det upstream) git fetch remote

ait pull (= fetch & merge) git am -3 patch.mbox

git apply patch.diff

Branch

git checkout branch

git merge branch

git branch branch (branch current)

switch to it)

revert

mark changes to be respected by counit: reset

Useful Tools

Create release tarball

Binary search for defects

Take single commit from elsewhere

Compress metadata (performance)

Forward-port local changes to

Register a new remote repository

Temporarily set aside changes

change

add

git archive

git bisect

git fsck

git rebase

git stash

git tag

gitk

ait ac

git cherry-pick

Check tree

remote branch

for this tree

(there's more to it)

Conflicts

Tk GUI for Git

Use add to mark files as respived

git remote add URL

checkout revert

update

pull fetch merge am

branch

checkout branch

commit

(left to right) Command Flow

commit

push

push format-patch

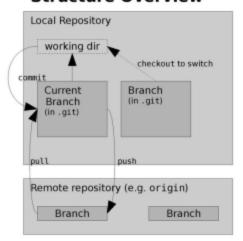
Tracking Files

git add files git my old new git rm files

git rm --cached files

(stop tracking but keep files in working dir)

Structure Overview



(switch working dir to branch)

Imerge into current)

git checkout -b new other (branch new from other and git diff [--base] git diff --ours git diff -- theirs git log --merge gitk --merge