Git Cheat Sheet

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Basics

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

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

HEAD-4 great-great grandparent of HEAD from branch foo to branch bar foo. .bar

create browse change revert update branch commit mark changes to be respected by counit: init status checkout reset pull commit checkout clone log fetch branch blame revert merge show add diff

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)

Publish

In Git, connit 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

(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

Useful Tools

git archive

Binary search for defects

git cherry-pick

Forward-port local changes to

git remote add URL

git stash

git tag

(there's more to it)

Tk Gill for Git

Create release tarball

git bisect

Take single commit from elsewhere

git fsck

Check tree

git gc

Compress metadata (performance) git rebase

remote branch

Register a new remote repository for this tree

Temporarily set aside changes

gitk

Branch

Revert In Git, revert usually describes a new commit that undoes previous commits.

git reset --hard (NO UNDO)

git revert branch

git checkout id file

git commit -a --amend

(replaces prev. commit)

(reset to last commit)

git checkout branch

(switch working dir to branch) git merge branch

(merge into current)

git branch branch

git checkout -b new other

(branch new from other and

Conflicts

Use add to mark files as resolved.

git diff [--base]

git diff -- ours

git diff -- theirs git log --merge

gitk --merge

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

(left to right) Command Flow

push

push

format-patch

