Git Cheat Sheet

Remember! git <COMMAND> --help Global configuration is stored in ~/.gitconfig. git config --help master is the default development branch. origin is the default upstream repository.

Create

From existing data

cd ~/my_project_directory git init git add .

From existing repository

git clone -/existing_repo -/new/repo git clone git://host.org/project.git git clone ssh://user@host.org/project.git

Show

Files changed in working directory

git status

Changes made to tracked files

git diff

What changed between ID1 and ID2

git diff <ID1> <ID2>

History of changes

git log

History of changes for file with diffs git log -p <FILE> <DIRECTORY>

Who changed what and when in a file git blame <FILE>

A commit identified by ID

git show <ID>

A specific file from a specific ID

git show <ID>:<FILE>

All local branches

git branch star (*) marks the current branch

Revert

Return to the last committed state

git reset --hard

This cannot be undone!

Revert the last commit

git revert HEAD

Creates a new commit

Revert specific commit git revert <ID>

Creates a new commit

Fix the last commit

git commit -a --amend

Checkout the ID version of a file git checkout <ID> <FILE>

Update

Fetch latest changes from origin

git fetc

(this does not merge them

Pull latest changes from origin

git pul

(does a fetch followed by a merge)

Apply a patch that someone sent you

git am -3 patch.mbox

In case of conflict, resolve the conflict and git am --resolved

git ain -resolved

Publish

Commit all your local changes

git commit -a

Prepare a patch for other developers

git format-patch origin

Push changes to origin

git push

Make a version or milestone

git tag v1.0

Branch

Switch to a branch

git checkout <BRANCH>

Merge BRANCH1 into BRANCH2

git checkout <BRANCH2> git merge <BRANCH1>

Create branch BRANCH based on HEAD

git branch <BRANCH>

Create branch BRANCH based on OTHER and switch to it

git checkout -b <BRANCH> <OTHER>

Delete branch BRANCH

git branche -d <BRANCH>

Resolve merge conflicts

View merge conflicts

git diff

View merge conflicts against base file

git diff -- base <FILE>

View merge conflicts against your changes

git diff -- ours <FILE>

View merge conflicts against other changes

git diff -- theirs <FILE>

Discard a conflicting patch

git reset --hard git rebase --skip

After resolving conflicts, merge with

git add <CONFLICTING_FILE> git rebase --continue

Workflow

