Git Cheat Sheet

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Commands Sequence

checkout branch

fetch merge am

checkout revert

status log show diff branch

BRANCH

UPDATE

REVERT reset

CHANGE

BROWSE

CREATE init

http://git.or.cz/

Remember: git command --help

Global Git configuration is stored in \$HOME/.gitconfig (git config --help)

Create

From existing data

cd ~/projects/myproject git init git add .

From existing repo

git clone ~/existing/repo ~/new/repo git clone git://host.org/project.git git clone ssh://you@host.org/proj.git

Files changed in working directory git status

Changes 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 \$dir/ec/tory/ 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

Concepts

Git Basics

master : default development branch : default upstream repository

: parent of HEAD : current branch HEAD HEAD

HEAD~4: the great-great grandparent of HEAD

Revert

you cannot undo a hard reset Return to the last committed state git reset --hard

git revert HEAD Creates a new commit Revert the last commit

Creates a new commit Revert specific commit git revert \$id

Fix the last commit

(after editing the broken files) git commit -a --amend

Checkout the \$id version of a file git checkout \$id \$file

Branch

Switch to the \$id branch git checkout \$id Merge branch1 into branch2 ait checkout \$branch2

Publish

git commit -a

(does a fetch followed by a merge) git pull

Pull latest changes from origin

but this does not merge them

Apply a patch that some sent you

(in case of a conflict, resolve and use git am --resolved) git am -3 patch.mbox

Commit all your local changes

Fetch latest changes from origin

Update

Prepare a patch for other deve git format-patch origin Push changes to origin

Mark a version / milestone git tag v1.0

git push

Finding regressions

(id is a broken version) git bisect start git bisect good \$id

(to start) (\$id is the last working version)

git diff -- base \$file

To view the merge or