Git Cheat Sheet 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 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

Show

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

History of changes for file with diffs git log -p Sfile \$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 git show \$id:\$file

All local branches

git branch

(star "" marks the current branch

Cheat Sheet Notation

\$id : notation used in this sheet to represent either a commit id, branch or a tag name \$file : arbitrary file name \$branch : arbitrary branch name

Concepts

Git Basics

aster : default development branch igin : default upstream repository EAD : current branch

HEAD : current branch HEAD : parent of HEAD

HEAD-4: the great-great grandparent of HEAD

Revert

Return to the last committed state

git reset -- hard

A you cannot undo a hard reset:

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

Branch

Switch to the \$id branch

git checkout \$id

Merge branch1 into branch2 git checkout \$branch2 git merge branch1

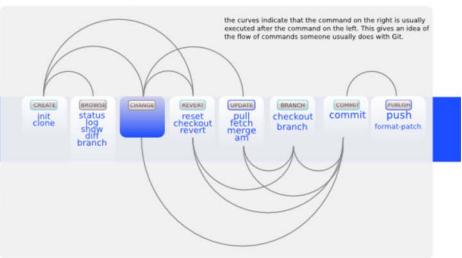
Create branch named \$branch based on the HEAD

git branch \$branch

Create branch \$new_branch based on branch \$other and switch to it git checkout -b \$new_branch \$other

Delete branch \$branch git branch -d \$branch

Commands Sequence



Update

Fetch latest changes from origin git fetch

(but this does not merge them)

Pull latest changes from origin

(does a fetch followed by a merge)

Apply a patch that some sent you git am -3 patch.mbox

(in case of a conflict, resolve and use git am --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

Mark a version / milestone git tag v1.0

Finding regressions

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git bisect start (to start)
git bisect good \$id (\$id is the last working version)
git bisect bad \$id (\$id is a broken version)

git bisect bad/good (to mark it as had or good) git bisect visualize (to launch gitk and mark it) git bisect reset (once you're done)

Check for errors and cleanup repository

git fsck git gc --prune

Search working directory for foo()

git grep "foo()"

To view the merge conclicts

git diff (complete conflict diff) git diff --base \$file (against base file) git diff --ours \$file (against your changes) git diff --theirs \$file (against other changes)

To discard conflicting patch

git reset --hard git rebase --skip

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Resol

After resolving conflicts, merge with

git add \$conflicting_file (do for all resolved files) git rebase --continue

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