Cheatography

Git command Cheat Sheet

by woshijpf (woshijpf) via cheatography.com/31237/cs/9471/

Git - Config

add user name

git config [--global] user.name "[name]"

add user email

git config [--global] user.email "[email address]"

show the git config info

git config --list

Git - Create a new repository

Initialize the current dir to be repository

cd <project_dir>

git init

touch README

Cloned from remote repository

git clone <url>

Git - Add and Remove file

Show the current status in the workspace and index

git status

Add file from workspace into index

git add <file1> <file2> ...

Add all files from current dir into index

git add .

Add all tracked file and untracked file from the workspace into index

git add -A .

Delete tracked file in the index

git rm <file1> <file2> ...

Move tracked file in the index into workspace and untrack it

git rm --cached <file1> <file2> ...

Git - Commit

Commit all files in the index into local repository

git commit -m "commit message"

Recommit the previous commit with new changed file and commit message

git commit --amend <file1> <file2> ... -m "new message"

Git - Tag

Show all tags

git tag

Create a new tag at current commit object

git tag -a <tag_flag> -m "tag comment message"

Create a new tag at specified commit object

git tag -a <tag_flag> <commit_id> -m "tag comment message"

Show specified tag info in detail

git show <tag_flag>

Git - Undo modifies

Discard tracked files's modification in the workspace

git checkout -- <file> ...

Move the added file from index into workspace

git reset HEAD <file>...

Reset code with --soft para, changes in the index and workspace are reserved

git reset --soft <commit-id>

Reset code with --mixed para, changes in the index are discarded,however changes in the workspace are reserved

git reset --mixed <commit-id>

Reset code with --hard para,the changes in the index and workspace are discarded

git reset --hard <commit-id>

Git - Undo modifies (cont)

Revert code and create a new commit object for this operation.In this way, it will not overlap the commit history.

git revert <commit-id>

Undo the previous commit changes and create a new commit object for this operation

git revert HEAD~1

Stackoverflow-What's the difference between Git Revert, Checkout and Reset?

Git - Branch

List all branches in the local repository

git branch

List all branches in the local repository and remote repository

git branch -a

List all local branch info in detail

git branch -vv

Create a new branch

git branch <branch-name>

Create a new branch with specified commit

git branch <branch-name> <commit-id>

Checkout to another branch

git checkout <branch-name>

Delete branch in local repository

git branch -d <branch-name>

Build tracking relationship between local--branch and remote-branch

git branch --set-upstream-to=origin/<remote-branch-name> <local-branch-name>

Cancle the tracking relationship between local-branch and remote-branch

git branch --unset-upstream <local-branch-name>

List the changed files between two branches

git diff <branch1> <branch2> --stat

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Git - History

Show all commit log

git log

Show all commit log in shot format

git log --pretty=short

One line show one commit log

git log --pretty=oneline

Show all changed files in every commit log

git log --stat

Show the change history of specified file

git log --follow <file-name>

Show all diff info between two adjacent commit

git log -p

Show who changed file

git blame <file-name>

Show the recently commit log and branch checkout log

git reflog

Git - Remote Push And Update

List all remote repo info

git remote -v

Show specified remote repo info

git remote show <remote>

Add remote repo and named

git remote add <remote> <url>

Fetch all changed in the remote repo

git fetch <remote>

Fetch + Merge

git pull <remote> [remote-branch]:[local-branch]

Push local repo changes to remote repo

git push <remote> [local-branch]:[remote-branch]

Delete remote branch in remote repo

git push <remote> :[remote-branch]

Set -u parameter and build the tracking relationship between local repo and remote repo

Git - Remote Push And Update (cont)

git push -u <remote> [local-branch]:[remote-branch]

Git - Merge/Rebase

Merge branch into current branch

git merge <branch-name>

Rebase into branch

git rebase <branch-name>

Rebase Frequently Usage

git checkout <feature-branch>

git rebase master

git checkout master

git merge <feature-branch>

Abort Rebase

git rebase --abort

The Golden Rule of Rebasing

Don't rebasing master branch into your personal feature branch

Conflicts against base file

git diff --base <file-name>

What's the difference between 'git merge' and 'git rebase'?

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