Git Cheat Sheet

Universal Commands

Anytime <hash> is used any valid git format for specifying a commit can be used.

--graph #Show with branch graph...useful with git log

i #Interactive mode...type ? for help. Used with almost all git cmd

git add

--dry-run --ignore-missing #Check if any files would be ignored

--patch #See Universal commands -i

git branch

<branch> <parent tag/branch> #Create new <branch>

-d <branch> #Delete only if merged

-D
branch> #CAUTION!! force delete branch

-m <oldname> <newname> #Rename branch

-v #Show last commit on each branch

-u <remote>/<branch> #Set remote branch as upstream of current

git checkout

-- <file> #Discard all changes..can't be undone

-b <new branch> <parent tag/branch> #Create new <branch>

git cherry-pick

<commit hash 1> <commit hash n> #Pick n commits to current

git clean (all flags are optional)

Careful Now!! Run git stash --all first or have .gitignore set up well

-n -d #dry run of files and empty dirs clean will remove

-f -d -x -i #-f force, -x will remove all the files in your .gitignore

git clone

-o <remote> <url> #Specify remote

git commit

--amend #Amend commit

git describe

<branch> #give nearest tag and no. commits on top

ait diff

--check #Show possible whitespace issues

<parent branch>...<child branch> #Show changes child made

git fetch

<remote> -p #Update refs and remove outdated refs

git grep

By default it will search all files in your working dir

--break --heading #Combine all other options with these

-n #Print line numbers of matches

--count #Prints no. matches per file

-p #See function match was found in

git log

-p -cc -<x> #Show diff of last <x> commits, -cc for merge commits

<x> #Show logs of last <x> commits

--pretty=format:"%h - %an, %ad : %s" #Custom log format

--since="<time>" #relative eg. 2 weeks or 2015-12-25

--until="<time>" #Same as above

--<author> #limit to commits by author...use --all-match with --grep

-S<string> #search commits that a/m/d <string>

^<parent> <child branch 1> <child branch n> #list changes in <cb1> and <cbn> not in parent...works with single <cb>

--left-right <branch 1>...<branch 2> #Commits from common paren

ait merae

All -X options can be used with git pull as well

<branch> #branch to merge into current

--no-ff #creates merge commit

--abort #dive, dive, dive

-Xignore-all-space #ignore whitespace(ws) when merging

-Xignore-space-change #treats sequences of ws as 1ws

-s ours/theirs #Choose version of conflicting files

git mergetool

#Fires up appropriate gui merge tool

git merge-base

<branch 1> <branch 2> #Shows most recent common parent

git push

-u <remote> <bra> #Set remote branch as upstream of current

<remote> <tag> #Push <tag> to <remote>

remote --delete
branch> #delete remote branch

ait pull

See git merge for -X options

git rebase

dranch> #Applies changes from current branch onto common parent of specified
branch>

--onto <parent> <child branch 1> <child branch n> #replay commits from all cb's onto parent

git reset

HEAD --<hard/soft> <fileA(optional)> #soft to undo & keep changes

-patch #Partially reset files

HEAD~<x> --<hard/soft> #Go back <x> commits

git remote

-v #All remotes

add <remote> <url>

show <remote>

prune <remote> #Update refs

rename <remote> <new remote name>

rm <remote>

git revert

HEAD~<n> #Revert <n>th commit from head (n=3 is fourth last)

cbranch>~<x>..
branch>~<n> #from xth to nth cmt && x > n

--abort #Abandon ship

git shortlog

--no-merges <branch> --not <branch or tag> #commits by author
--merges <branch> --not <brarch or tag> #merges by author

git show

<commit hash> #Details of commit

<commit hash>^ #Show parent of commit

<commit hash>^2 #Show other parent of commit...merges

<commit hash>~<n> #Details of commit <n> commits before

ait stash

apply --index(optional) <stash>(optional) #apply a stashed object. --index will try to reapply staged changes. If no <stash> is specified then it takes the top stash on the stack

list #list all stashed changes

save --patch(optional) --keep-index(optional) #k-i won't stash stgd

create #create a stash that is a regular commit object

git status

-b #show branch info

-u #Show untracked files

--ignored #List all ignored files

git tag

-a <tag> -m"msg" #Create tag with a message

-a <tag> <commit hash> #Tag a previous commit

-I "pattern" #List all tags with optional pattern match

<tag> #Lightweight tag same as commit

Extra Stuff

for branch in `git branch -r --merged I grep -v HEAD`; do echo -e `git show --format="%ci %cr %an" \$branch I head -n 1` \\t \$branch: done I sort -r

#All live branches merged into current branch

for branch in `git branch -r --no-merged I grep -v HEAD`; do echo -e `git show --format="%ci %cr %an" \$branch I head -n 1` \\t \$branch; done I sort -r

#All live branches not merged into current branch

git aliases
git configglobal alias. <alias> <stuff alias="" to=""> #Create a git alias</stuff></alias>
git configget-regexp alias\Shows all git aliases
git last
git log -1 HEAD
git unstage
git reset HEAD
git as
git co git checkout
git checkout
git br
git branch
git c
git commit -m
git st
git status
git sba
git show-branchcolor=always -amore=10no-name
<u> </u>
git sban
git show-branchcolor=always -amore=10
git a
git add
sit oo
git aa git add .
git add .
git po
git pull origin
git puo
git push origin
git rl git reflog
git reliog
git lp
git logpretty=format:"%h - %an, %ad : %s"
git lpfh
git logpretty=format:"%H - %an, %ad : %s"
git fo
git fetch origin -p