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Git Cheat Sheet

March 10, 2015 by Alex Kras - 19 Comments

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Git Cheat Sheet

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Commands

Getting Started

```
git init

or

git clone url
```

Configuration

```
git config --global color.ui true
git config --global push.default current
git config --global core.editor vim
git config --global user.name "John Doe"
git config --global user.email foo@citrix.com
git config --global diff.tool meld
```

Working with Local Branch

Branching

See the list of all local branches **git branch** # Switch to existing local branch **git checkout branchname** # Checkout current branch into a new branch, named new-branch-name **git checkout -b new-branch-name** # Merge branch-name into the current branch **git merge branchname** # Merge branch without fast forwarding. This is what pull requests do. # It helps to preserve history of the changes as relavant to that branch # It's an advanced feature, but try it out with GUI to see the difference # between the regular merge and merge --no-ff **git merge --no-ff branchname** # Soft branch delete, will complain if the branch is not merged **git branch -d branchname** # Hard branch delete, will not complain about nothing. Like rm -rf in bash **git branch -D branchname**

Updating Current Branch

Standard Flow

See all commits git log # Pretty commit view, you can customize it as much as you want. # Just google it:) git log -pretty=format:"%h %s" --graph # See what you worked on in the past week git log --author='Alex' --after={1.week.ago} --pretty=oneline
--abbrev-commit # See only changes made on this branch (assuming it was branched form master branch) git log --no-merges master.. #
See status of your current git branch. # Often will have advice on command that you need to run git status # Short view of status.
Helpful for seeing things at a glance git status -s # Add modified file to be commited(aka stage the file) git add filename # Add all
modified files to be commited(aka stage all files) git add . # Add only text files, etc. git add '*.txt' # Tell git not to track file
anymore git rm filename # Record changes to git. Default editor will open for a commit message. # (Visible via git log) # Once files
are commited, they are history. git commit # A short hand for commiting files and writing a commit message via one command git commit
-m 'Some commit message' # Changing the history:) If you want to change your previous commit, # you can, if you haven't pushed it yet
to a remote repo # Simply make new changes, add them via git add, and run the following command. # Past commit will be ammended. git
commit --amend

Advanced

Unstage pending changes, the changes will still remain on file system git reset # Unstage pending changes, and reset files to precommit state. If git reset --hard HEAD # Go back to some time in history, on the current branch git reset tag git reset <commit-hash> # Save current changes, without having to commit them to repo git stash # And later return those changes git stash pop # Return file to it's previous version, if it hasn't been staged yet. # Otherwise use git reset filename or git reset --hard filename git checkout filename

Comparing changes

See current changes, that have not been staged yet. # Good thing to check before running git add git diff # See current changes, that have not been commited yet (including staged changes) git diff HEAD # Compare current branch to some other branch git diff branch-name # Same as diff, but opens changes via difftool that you have configured # -d tells it to open it in a directory mode, instead of having to open # each file one at a time. git difftool -d # See only changes made in the current branch (compared to master branch) # Helpful when working on a stand alone branch for a while git difftool -d master.. # See only the file names that has changed in current branch git diff --no-commit-id --name-only --no-merges origin/master... # Similar to above, but see statistics on what files have changed and how git diff --stat #Your diff condition

Working with Remote Branch

See list of remote repos available. If you did git clone, # you'll have at least one named "origin" git remote # Detailed view of remote repos, with their git urls git remote -v # Add a new remote. I.e. origin if it is not set git remote add origin https://some-git-remote-url # Push current branch to remote branch (usually with the same name) # called upstream branch git push # If a remote branch is not set up as an upstream, you can make it so # The -u tells Git to remember the parameters git push -u origin master # Otherwise you can manually specify remote and branch to use every time git push origin branchname # Just like pushing, you can get the latest updates from remote. # By defaul Git will try to pull from "origin" and upstream branch git pull # Or you can tell git to pull a specific branch git pull origin branchname # Git pull, is actually a short hand for two command. # Telling git to first fetch changes from a remote branch # And then to merge them into current branch git fetch && git merge origin/remote-branch-name # If you want to update history of remote branches, you can fetch and purge git fetch -p # To see the list of remote branches # -a stands for all git branch -a

Resources

Reference

- Try Github https://try.github.io
- lernGitBranching http://pcottle.github.io/learnGitBranching/?NODEMO
- Pro Git Free Book http://git-scm.com/book

Viewing History

Source Tree - http://www.sourcetreeapp.com/

- tig sudo apt-get install tig or brew install tig etc
- gitk sudo apt-get install gitk

Merge/Diff Tools

- Meld sudo apt-get install meld or brew install meld
- Open Diff
- p4v Merge http://git-scm.com/book/en/Customizing-Git-Git-Configuration#External-Merge-and-Diff-Tools
- Webstorm

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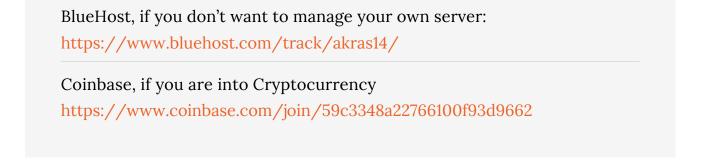
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