

Git Cheat Sheet

list your branches. a * will appear next to the

create a new branch at the current commit

switch to another branch and check it out into

create a branch and immediately switch to it

one and record the merge as a commit

stash away the currently uncommitted

modifications in your working directory

re-apply the last stashed changes

add a git URL as an alias

merge another branch into your currently active

fetch down all the branches from that Git remote

merge a branch on the server into your currently

push the work on your branch to update that

show the commits on branchA that are not on

active branch to bring it up to date

branch on the remote git repository

currently active branch

your working directory

show commit logs

temporarily

Fetching, merging and working with updates from another repository.

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When you first setup Git, set up your user name and email address so your first commits record them properly. git config --global user.name "My Name"

git config --global user.email "user@email.com"

About Git, GitHub and Heroku.

Git is a free & open source, distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

GitHub is the best way to collaborate around your code. Fork, send pull requests and manage all your public and private git repositories.

Heroku is a cloud application platform that supports a number of different programming languages including Java, Ruby, Node.js, and Clojure - it's a new way of building and deploying web apps.

Basic Git Workflow Example

Initialize a new git repository, then stage all the files in the directory and finally commit the initial snapshot.

\$ git init \$ git add \$ git commit -m 'initial commit'

Create a new branch named featureA, then check it out so it is the active branch. then edit and stage some files and finally commit the new snapshot. \$ git branch featureA

- \$ git checkout featureA
- \$ (edit files)
- \$ git add (files)
- \$ git commit -m 'add feature A'

Switch back to the master branch, reverting the featureA changes you just made, then edit some files and commit your new changes directly in the master branch context. \$ git checkout master

\$ (edit files) \$ git commit -a -m 'change files' Merge the featureA changes into the master branch context, combining all your

work. Finally delete the featureA branch.

- \$ git merge featureA
- \$ git branch -d featureA

Setup & Init

Git configuration, and repository initialization & cloning

Git configuration, and repository initialize	ation & cloning.	git pull	fetch from the URL tracked by the current branch and immediately try to merge in the tracked branch	
git config [key] [value]	set a config value in this repository	5 - 1 -		
git configglobal [key] [value]	set a config value globally for this user	Inspect & Compare		
git init	initialize an existing directory as a Git repository	J directory as a Git Examining logs, diffs and object information.		
git clone [url]	clone a Git repository from a URL	git log	show the commit history for the currently active branch	
git help [command]	get help on any Git command			

Branch & Merge

git branch [branch-name]

git checkout -b [branch]

git checkout [branch]

git merge [branch]

git log

git stash

git stash apply

Share & Update

git fetch [alias]

git remote add [alias] [url]

git merge [alias]/[branch]

git push [alias] [branch]

git log branchB branchA

git branch

Working with Git branches and the stash.

Stage & Snapshot

Marking	with one	nahata	and the	Citatogia	
vvorking	with Sha	ipsnots i	and the	Git staging	j area.

Working with snapshots	and the Git staging area.		branchB	
git status	show the status of what is staged for your next commit and what is modified in your working directory		show the commits that changed file, even across renames	
git add [file]	add a file as it looks now to your next commit (stage)	git logIollow [Iile]		
git reset [file]	reset the staging area for a file so the change is not in your next commit (unstage)		show the diff of what is in branchA that is not in	
git diff	diff of what is changed but not staged	git diff branchBbranchA	branchB	
git diffstaged	diff of what is staged but not yet committed			
git commit	commit your staged content as a new commit snapshot	git show [SHA]	show any object in Git in human-readable format	
git rm [file]	remove a file from your working directory and unstage	gity	tcl/tk program to show the commit log in a GUI	
ait aui	tcl/tk GLII program to make all of these commands simpler	gitx		

http://git-scm.com

Contributing on GitHub

To contribute to a project that is hosted on GitHub you can fork the project on github.com, then clone your fork locally, make a change, push back to GitHub and then send a pull request, which will email the maintainer.

fork project on github

- \$ git clone https://github.com/my-user/project
- \$ cd project
- \$ (edit files)
- \$ git add (files)
- \$ git commit -m 'Explain what I changed'
- \$ git push origin master

go to github and click 'pull request' button

Deploying to Heroku with Git

Use the heroku command-line tool to create an application and git remote: \$ heroku create

[Creating glowing-dusk-965... done, stack is bamboo-mri-1.9.2 http://glowing-dusk-965.heroku.com/ <http://glowing-dusk-965. heroku.com/> | git@heroku.com:glowing-dusk-965.git <x-msg://536/ git@heroku.com:glowing-dusk-965.git> Git remote heroku added]

Use git to deploy the application.

\$ git push heroku master

Create an additional Heroku app for staging, and name the git remote "staging". \$ heroku create my-staging-app --remote staging

Use git to deploy the application via the staging remote.

\$ git push staging master



http://github.com



http://heroku.com