Git Cheat Sheet

Setup

et the name and email that will be

tached to your commits and tags

git config --global

ser.email "my-

mail@gmail.com"

repo

ser.name "Danny Adams" git config --global

Start a Project

git init <directory>

Make a Change

ommit all staged files to git

git commit -m "commit

git commit -am "commit

Basic Concepts

in: default development

AD: current branch

AD~4: great-great

andparent of HEAD

By @ Doable Danny

EAD^: parent of HEAD

rigin: default upstream repo

dd all changes made to tracked files

ownload a remote repo

git clone <url>

dd a file to staging

git add <file>

age all files

git add .

essage"

commit

essage'

anch

eate a local repo (omit <directory>

initialise the current directory as a

Branches

Create a new branch

working directory

branch>

\$ git branch <new-branch>

Switch to a branch & update the

\$ git checkout <branch>

\$ git checkout -b <new-

\$ git branch -d <branch>

\$ git branch -D <branch>

used for new version releases)

\$ git tag <tag-name>

Merging

merge

Add a tag to current commit (often

Merge branch a into branch b. Add --

Merge & squash all commits into one

no-ff option for no-fast-forward

Head (ff)

New Merge Commit (no-ff)

\$ git merge --squash a

\$ git checkout b

\$ git merge a

new commit

Delete a branch, whether merged or

Delete a merged branch

Create a new branch and switch to it

all branches.

\$ git branch

List all local branches. Add -r flag to show all remote branches. -a flag for

commits into feature, keeping history

\$ git checkout feature

Interatively clean up a branches

commits before rebasing onto main

Interatively rebase the last 3 commits

\$ git rebase main

\$ git rebase -i main

\$ git rebase -i Head~3

& staging area, then stage the

Remove from staging area only

View a previous commit (READ only)

Create a new commit, reverting the

changes from a specified commit

\$ git revert <commit_ID>

Go back to a previous commit &

is safer). Add --hard flag to also

\$ git reset <commit_ID>

CAREFUL)

delete all commits ahead of it (revert

delete workspace changes (BE VERY

\$ git checkout <commit_ID>

\$ git rm --cached <file>

on current branch

move

<new_path>

\$ git rm <file>

removal

Rebasing

\$ git log --oneline

Show changes to unstaged files. For

Synchronizing Add a remote repo

Delete all stashes

\$ git stash clear

<url>

flag to view urls. \$ git remote

\$ git remote remove <alias> Rename a connection \$ git remote rename <old> Fetch all branches from remote repo

<new> (no merge)

\$ git fetch <alias> Fetch a specific branch

\$ git fetch <alias> <branch> Fetch the remote repo's copy of the current branch, then merge \$ git pull

Upload local content to remote repo \$ git push <alias> Upload to a branch (can then pull

the remote repo (for clean, linear

Move (rebase) your local changes onto the top of new changes made t

delete it from the stash list. Omit stash@{n} to pop the most recent

\$ git stash pop stash@{2}

\$ git stash -p List all stashes \$ git stash list Re-apply the stash without deleting it \$ git stash apply

Re-apply the stash at index 2, then

request)

Undoing Things flag. Move (&/or rename) a file & stage \$ git stash As above, but add a comment. \$ git mv <existing_path> \$ git stash save "comment" Remove a file from working directory

stash.

For untracked & ignored files, add -a

changes from within files

commit2_ID **Stashing**

Store modified & staged changes. To

\$ git diff commit1_ID

include untracked files, add -u flag.

Partial stash. Stash just a single file, a collection of files, or individual

Show the diff summary of stash 1. Pass the -p flag to see the full diff.

\$ git stash show stash@{1}

Delete stash at index 1. Omit

stash@{n} to delete last stash made

\$ git stash drop stash@{1}

\$ git remote add <alias>

View all remote connections. Add -v

Remove a connection

history) \$ git pull --rebase <alias>

\$ git push <alias> <branch>

main). Prevents unnecessary merge

Rebase feature branch onto main (to incorporate new changes made to

option

\$ git diff

Review your Repo List new or modified files not yet \$ git status List commit history, with respective

changes to staged files, add --cached

Show changes between two commits