GIL Cheat Sheet

Branches

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

all branches. \$ git branch

Create a new branch

\$ git checkout <branch>

Delete a merged branch

\$ git branch -d <branch>

\$ git branch -D <branch>

used for new version releases)

\$ git tag <tag-name>

Merging

New Merge Commit (no-ff)

\$ ait checkout b

merge

Add a tag to current commit (often

Merge branch a into branch b. Add --

HEAD (ff)

no-ff option for no-fast-forward

Delete a branch, whether merged or

branch>

not

\$ git branch <new-branch>

Switch to a branch & update the working directory

Create a new branch and switch to it

\$ git checkout -b <new-

Move (&/or rename) a file & stage

\$ ait rm <file>

\$ git rm --cached <file>

View a previous commit (READ only)

Create a new commit, reverting the

\$ git revert <commit_ID>

is safer). Add --hard flag to also

delete workspace changes (BE VERY

delete it from the stash list. Omit stash@{n} to pop the most recent stash. \$ git stash pop stash@{2}

\$ git stash clear

Synchronizing

stash@{n} to delete last stash made

\$ git stash drop stash@{1}

Add a remote repo

Delete all stashes

\$ git remote add <alias> <url>

Remove a connection

Rename a connection

\$ git fetch <alias>

Fetch a specific branch

\$ git remote remove <alias>

\$ git remote rename <old>

Fetch all branches from remote repo

\$ git fetch <alias> <branch>

Fetch the remote repo's copy of the

current branch, then merge

Move (rebase) your local changes

the remote repo (for clean, linear

onto the top of new changes made to

\$ git remote

(no merge)

View all remote connections, Add -v flag to view urls. Show changes between two commits

\$ ait diff commit1_ID commit2 ID

Stashing Store modified & staged changes. To

\$ git log --oneline

\$ git diff

include untracked files, add -u flag. For untracked & ignored files, add -a flag.

\$ git stash -p

\$ git stash list

\$ git stash apply

List all stashes

\$ git stash

As above, but add a comment.

\$ git stash save "comment" Partial stash. Stash just a single file, a

collection of files, or individual changes from within files

Re-apply the stash without deleting it

history) \$ git pull --rebase <alias> Re-apply the stash at index 2, then

\$ git pull

Upload local content to remote repo

\$ git push <alias>

Upload to a branch (can then pull request)

Show the diff summary of stash 1. Pass the -p flag to see the full diff. \$ git push <alias> <branch>

\$ git rebase -i Head~3

Undoing Things

on current branch

move

\$ git mv <existing_path> <new_path>

Remove a file from working directory & staging area, then stage the removal

Remove from staging area only

\$ git checkout <commit_ID>

changes from a specified commit

Go back to a previous commit & delete all commits ahead of it (revert

CAREFUL)

branch origin: default upstream repo **HEAD**: current branch

HEAD[^]: parent of HEAD HEAD~4: great-great grandparent of HEAD

Setup

git repo

Set the name and email that will be

attached to your commits and tags

\$ git config --global

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user.email "my-

email@gmail.com"

user.name "Danny Adams"

Start a Project

\$ git init <directory>

Make a Change

Commit all staged files to git

\$ git commit -m "commit

\$ git commit -am "commit

Basic Concepts

main: default development

Add all changes made to tracked files

Download a remote repo

\$ git clone <url>

Add a file to staging

\$ git add <file>

Stage all files

\$ git add .

message"

& commit

message"

Create a local repo (omit <directory>

to initialise the current directory as a

\$ git merge a Merge & squash all commits into one new commit

incorporate new changes made to main). Prevents unnecessary merge commits into feature, keeping history clean

\$ 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

Rebased

Rebase feature branch onto main (to committed \$ git status

List new or modified files not yet

List commit history, with respective

Show changes to unstaged files. For

changes to staged files, add --cached