GITQUICK REFERENCE CARD

Frequently used GIT commands – Version v1.1 May 2014

Main commands add..... Add file contents to the index -A [:/] adds all file changes including deletions to the staging area [for the whole tree] -f allow adding otherwise ignored files -p choose hunks of patch between the index and the work tree and add them to the index am..... Apply a series of patches from a mailarchive..... Create an archive of files from a named bisect..... Find by binary search the change that introduced a bug e.g. search for existence of file in last commits: bisect run test -f file.txtbranch..... List, create, or delete branches -a lists all branches including the remote branches -d delete ...branch -m rename branch: ...old_name new_name -v lists more information about the branches bundle Move objects and refs by archive checkout..... checkout a branch or paths to the working tree (prepend -- before path to avoid ambiguousity). -b create a branch new_name and switch to it instantly e.g. restore working tree and reset index: checkout HEAD - - dircherry-pick. can be used to change order of commits citool..... Graphical alternative to commit clean Remove untracked files from the working tree -f force (required!)

-x	include nidden nies
-d	directories as well
${\tt clone} \ldots \ldots$	Clone a repository into a new directory
commit	Record changes to the repository
-a	adding changes of files known by the Git repository to the commit
-m	Set comment for commitment – correct it with prependingamend to argument
	Show the most recent tag that is reachable from a commit
diff	Show changes between commits, commit and working tree, etc.
cached	compare stage area with last commit
fetch	Download objects and refs from another repository
format-patch	Prepare patches for e-mail submission
gc	Cleanup unnecessary files and optimize the local repository
gren	Print lines matching a pattern
g- cp	Time mics matering a partern
	A portable graphical interface to Git
gui	
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-x include hidden files

	out creating a merge commit (default)
mv	Move or rename a file, a directory, or a symlink
notes	Add/inspect commit notes
pull	Fetch from and merge with another repository or a local branch
push	Update remote refs along with associated objects
e.g. de	elete branch in remote repo called
origin:	push origin :testbranch
rebase	Forward-port local commits to the updated upstream head
-i	rebase interactively
autosqua	ash
1	When the commit log message begins with "squash!" (or "fixup!"), automatically modify the todo list of rebase -i
reset	Reset current HEAD to the specified state (Remove a $file$ from staging area)
soft	move HEAD pointer only
mixed	resets staging area to new HEAD (default!)
hard	resets staging area and working tree to new HEAD
revert	Revert an existing commit
	Remove files from the working tree and from the index
	remove recursive – for removing additionally from repo, add $$ cached *
shortlog	Summarize git log output
show	Show various types of objects
stash	Stash the changes in a dirty working directory away
status	Show the working tree status
submodule	Initialize, update, add or inspect submodules
recurse-	-submodules pull changes from main repo + submodules

only update the branch pointer, with-

out creating a merge commit (default)

--ff

tag Create, list, delete or verify a tag ob-	fsck Verifies the connectivity and validity of	
ject signed with GPG	the objects in the database	
gitk The git repository browser	get-tar-commit-id Extract commit ID from an archive created using archive	
Manipulators	help Display help information about git	
config Get and set repository or global options	<pre>instaweb Instantly browse your working reposi- tory in gitweb</pre>	
fast-export. Git data exporter	merge-tree Show three-way merge without touch-	
fast-import. Backend for fast Git data importers	ing index	
filter-branch Rewrite branches	rerere Reuse recorded resolution of conflicted merges	
mergetool Run merge conflict resolution tools to	rev-parse Pick out and massage parameters	
resolve merge conflicts	show-branch. Show branches and their commits	
pack-refs Pack heads and tags for efficient repository access	verify-tag Check the GPG signature of tags	
prune Prune all unreachable objects from the object database	$\begin{tabular}{ll} \begin{tabular}{ll} \beg$	
reflog Manage reflog information		
relink Hardlink common objects in local repos-	Interacting with Others	
itories	archimport Import an Arch repository into git	
remote Manage set of tracked repositories	cvsexportcommit	
-v show details about the remotes	Export a single commit to a CVS check- out	
e.g. remove all branches which are not in the remote anymore: remote updateprune	cvsimport Salvage your data out of another SCM people love to hate	
Dock uppocked objects in a pancitage	cvsserver A CVS server emulator for git	
repack Pack unpacked objects in a repository replace Create, list, delete refs to replace ob-	<pre>imap-send Send a collection of patches from stdin to an IMAP folder</pre>	
jects	quiltimport. Applies a quilt patchset onto the current branch	
nterrogators	request-pull Generates a summary of pending changes	
annotate Annotate file lines with commit infor-	send-email Send a collection of patches as emails	
blame Show what revision and author last modified each line of a file	svn Bidirectional operation between a Subversion repository and git	
cherry Find commits not merged upstream count-objects		
Count unpacked number of objects and	Manipulators (plumbing)	
their disk consumption	apply Apply a patch to files and/or to the	

difftool.... Show changes using common diff tools

index

merge-file .. Run a three-way file merge

packed archive

merge-index. Run a merge for files needing merging

mktag..... Creates a tag object

mktree Build a tree-object from ls-tree formatted text

pack-objects Create a packed archive of objects

prune-packed Remove extra objects that are already in pack files

read-tree ... Reads tree information into the index

symbolic-ref Read and modify symbolic refs
unpack-objects

Unpack objects from a packed archive

update-index Register file contents in the working tree to the index

update-ref .. Update the object name stored in a ref safely

write-tree.. Create a tree object from the current index

Interrogators (plumbing)

cat-file..... Provide content or type and size information for repository objects

 ${\tt diff-files}$. . Compares files in the working tree and the index

diff-index.. Compares content and mode of blobs between the index and repository

 $\begin{array}{c} {\tt diff-tree} \ldots \text{ show files which have been changed by} \\ {\tt last \ commit} \end{array}$

 $\hbox{\tt --name-only}$

show only names of files

-r recursively

for-each-ref Output information on each ref

${\tt ls-files} \ \text{Show information about files in the index and the working tree}$
ls-remote List references in a remote repository
ls-tree List the contents of a tree object
$\label{eq:merge-base} \mbox{merge-base} \ . \ \ \mbox{Find as good common ancestors as possible for a merge}$
name-rev Find symbolic names for given revs
pack-redundant
Find redundant pack files
$\begin{tabular}{ll} {\tt rev-list} & Lists commit objects in reverse chronological order \\ \end{tabular}$
show-index Show packed archive index
show-ref List references in a local repository
$\begin{array}{c} {\tt unpack-file} \; . \; {\tt Creates} \; {\tt a} \; {\tt temporary} \; {\tt file} \; {\tt with} \; {\tt a} \; {\tt blobs} \\ {\tt contents} \end{array}$
var Show a git logical variable
verify-pack. Validate packed git archive files

Synching repositories

synching repu	231101163	
daemon	A really simple server for git repositories	
fetch-pack	Receive missing objects from another repository	
http-backend	Server side implementation of Git over HTTP	
send-pack	Push objects over git protocol to another repository	
update-server-info		
-	Update auxiliary info file to help dumb servers	

Helper commands

http-fetch	Download from a remote git repository via HTTP
http-push	Push objects over $\operatorname{HTTP}/\operatorname{DAV}$ to another repository
parse-remote	Routines to help parsing remote repository access parameters

receive-pack Receive what is pushed into the reposshell Restricted login shell foronly SSH acupload-archive Send archive back toarchive upload-pack. Send objects packed back tofetch-pack

Internal helper commands

check-attr.. Display gitattributes information check-ref-format Ensures that a reference name is well fmt-merge-msg Produce a merge commit message mailinfo..... Extracts patch and authorship from a single e-mail message mailsplit ... Simple UNIX mbox splitter program merge-one-file The standard helper program to use withmerge-index patch-id..... Compute unique ID for a patch sh-setup..... Common git shell script setup code stripspace.. Filter out empty lines

> http://github.com/emzap79/QRCs emzap79@gmail.com

This TeXfile is based on Gabriel B. Burcas © git-qrc.tex and has then been modified to my own use.