GITQUICK REFERENCE CARD

 $\rm QRC$ of most often used GIT commands – Version v1.1 May 2014

Main commar	nds
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
•	choose hunks of patch between the index and the work tree and add them to the index
	Apply a series of patches from a mailbox
archive	Create an archive of files from a named tree
	Find by binary search the change that introduced a bug
	earch for existence of $file$ in last bisect run test -f $file.txt$
branch	List, create, or delete branches
	lists all branches including the remote branches
-	delete branch
	rename branch:old name new_name
	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
	estore working tree and reset index: HEAD dir
cherry-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 hidden files
-d	directories as well
clone	Clone a repository into a new directory
	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
grep	Print lines matching a pattern
gui	A portable graphical interface to Git
init	Create an empty git repository or reinitialize an existing one
log	Show commit logs (prepend before path to avoid ambiguousity)
-p	show diffs of each commit
stat	precise output with some stats
abbrev-c	
	shortend (but unique) SHA-1 values for the commit objects
oneline	show logs as shortened oneliner
reverse	reverse log-history output
follow	entire history including renames
merge	Join two or more development histories together
-s	specify your merge strategy (see man git-merge)
-х	apply option to strategy (eg. $ours, theirs$)

	out creating a merge commit (default)
mv	Move or rename a file, a directory, or a symlink
notes	Add/inspect commit notes
	Fetch from and merge with another repository or a local branch
push	Update remote refs along with associated objects
	elete branch in remote repo called push origin :testbranch
	Forward-port local commits to the updated upstream head
	rebase interactively
autosqua	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 addi-
-11	tionally from repo, addcached *
	Summarize git log output
	Show various types of objects
	Stash the changes in a dirty working directory away
status	Show the working tree status
	Initialize, update, add or inspect submodules
recurse-	-submodules pull changes from main repo + sub- modules

only update the branch pointer, with-

--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 upperly of chicoto in a pancitant	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.