GIT QUICK REFERENCE CARD

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

	Main	commands
--	------	----------

Main comma	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
bisect	Find by binary search the change that introduced a bug
e.g. se	earch for existence of $file$ in last
commits	: bisect run test -f $file.txt$
branch	List, create, or delete branches
	lists all branches including the remote branches
-d	delete branch
-m	rename branch:old_name new_name
-ν	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: t 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
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
describe	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-	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)
-X	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
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	
	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
rm	Remove files from the working tree and from the index
-r	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

only update the branch pointer, with-

--ff

tag	Create, list, delete or verify a tag object signed with GPG	fsck Verifies the connectivity and validity of the objects in the database
gitk	The git repository browser	get-tar-commit-id Extract commit ID from an archive created using archive
Manipulators	<u> </u>	help Display help information about git
config	Get and set repository or global options	instaweb Instantly browse your working repository in gitweb
fast-export.	Git data exporter	merge-tree Show three-way merge without touch-
fast-import.	Backend for fast Git data importers	ing index
filter-branc	h 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	whatchanged. Show logs with difference each commit introduces
reflog	Manage reflog information	
	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
_	emove all branches which are not in ote anymore: remote updateprune	cvsimport Salvage your data out of another SCM people love to hate
	Deal and all aliants in a superitaria	cvsserver A CVS server emulator for git
_	Pack unpacked objects in a repository Create, list, delete refs to replace ob-	<pre>imap-send Send a collection of patches from stdin</pre>
jects	jects	quiltimport. Applies a quilt patchset onto the current branch
Interrogators		request-pull Generates a summary of pending changes
annotate	Annotate file lines with commit information	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-object		Manipulators (plumbing)
	Count unpacked number of objects and their disk consumption	apply Apply a patch to files and/or to the

difftool.... Show changes using common diff tools

index

checkout-index

Copy files from the index to the working tree

commit-tree. Create a new commit object

hash-object. Compute object ID and optionally creates a blob from a file

index-pack.. Build pack index file for an existing packed archive

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

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

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

Interrogators (plumbing)

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

diff-files.. Compares files in the working tree and the index

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

diff-tree ... show files which have been changed by last commit

--name-only

show only names of files

-r recursively

for-each-ref Output information on each ref

ls-files 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
$\begin{array}{c} {\tt merge-base} \; \; \; {\rm Find} \; {\rm as} \; {\rm good} \; {\rm common} \; {\rm ancestors} \; {\rm as} \; {\rm possible} \; \\ {\rm sible} \; {\rm for} \; {\rm a} \; {\rm merge} \end{array}$
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

by henning repositories	
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-serve	r-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.