GIT QUICK REFERENCE CARD

Most frequently used GIT commands – Version v1.1 May 2014

Main comma	ads
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
-р	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 mail-box
archive	Create an archive of files from a named tree
bisect	Find by binary search the change that introduced a bug
	for existence of $file$ in last commits: run test -f $file.txt$
$\mathtt{branch}\ldots\ldots$	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
	working tree and reset index: tHEAD dir
${\tt cherry-pick}.$	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 argu-
	ment
describe	Show the most recent tag that is reachable from a commit
diff	Show changes between commits, com-
	mit 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. $ours, theirs$)
ff	only update the branch pointer, without 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
	branch in remote repo called origin:
push or:	igin :testbranch
rebase	Forward-port local commits to the updated upstream head
-i	rebase interactively
autosqu	
	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 <i>file</i> 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
-r	remove recursive – for removing additionally from repo, addcached *
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 + sub-
tag	modules Create, list, delete or verify a tag object signed with GPG

gitk	The git repository browser	get-tar-comm	it-id Extract commit ID from an archive cre-
			ated usingarchive
Manipulators		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		rerere	Reuse recorded resolution of conflicted merges
_	Rewrite branches	rev-parse	Pick out and massage parameters
mergetool	Run merge conflict resolution tools to resolve merge conflicts	_	Show branches and their commits
pack-refs	Pack heads and tags for efficient repos-	verify-tag	Check the GPG signature of tags
	itory access	whatchanged.	Show logs with difference each commit
prune	Prune all unreachable objects from the object database	J	introduces
reflog	Manage reflog information	T4	th Oth
relink	Hardlink common objects in local repos-	Interacting w	
	itories	_	Import an Arch repository into git
	Manage set of tracked repositories show details about the remotes	cvsexportcom	Export a single commit to a CVS check- out
remove	all branches which are not in the re-	cvsimport	Salvage your data out of another SCM
	ymore: remote updateprune		people love to hate
repack	Pack unpacked objects in a repository		A CVS server emulator for git
replace	Create, list, delete refs to replace objects	imap-send	Send a collection of patches from stdin to an IMAP folder
	Jeon	quiltimport.	Applies a quilt patchset onto the current branch
Interrogators		request-pull	Generates a summary of pending chan-
annotate	Annotate file lines with commit infor-	,	ges
	mation		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
	Find commits not merged upstream		
count-object		Manipulators	(plumbing)
	Count unpacked number of objects and their disk consumption	-	
difftool	Show changes using common diff tools	аррту	Apply a patch to files and/or to the index
	Verifies the connectivity and validity of	checkout-ind	ex
	the objects in the database		Copy files from the index to the working tree

ing tree

ates 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 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 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 in-

dex and the working tree

commit-tree. Create a new commit object

hash-object. Compute object ID and optionally cre-

1s-remote List references in a remote repository	uploa
ls-tree List the contents of a tree object	7
merge-base Find as good common ancestors as possible for a merge	uploa
name-rev Find symbolic names for given revs	Inter
pack-redundant Find redundant pack files	check
rev-list Lists commit objects in reverse chrono- logical order	CHECK
show-index Show packed archive index	fmt-r
show-ref List references in a local repository	
unpack-file. Creates a temporary file with a blobs contents	maili
var Show a git logical variable	mails
verify-pack. Validate packed git archive files	merge
Synching repositories	patch

Synching 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-server	r-info	
	Update auxiliary info file to help dumb servers	

Helper commands

Herber commi	anus
http-fetch	Download from a remote git repository via HTTP
http-push	Push objects over HTTP/DAV to another repository
parse-remote	Routines to help parsing remote repository access parameters
receive-pack	Receive what is pushed into the repository
shell	Restricted login shell foronly SSH ac-

cess

load-archive

Send archive back toarchive

pad-pack. Send objects packed back tofetch-pack

rnal helper commands

ck-attr.. Display gitattributes information ck-ref-format

> Ensures that a reference name is well formed

-merge-msg

Produce a merge commit message

Linfo..... Extracts patch and authorship from a single e-mail message

Lsplit ... Simple UNIX mbox splitter program ge-one-file

> The standard helper program to use withmerge-index

ch-id..... Compute unique ID for a patch

sh-setup..... Common git shell script setup code

stripspace.. Filter out empty lines

 $\rm http://github.com/emzap79/QRCs$ emzap79@gmail.com

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