GIT QUICK REFERENCE CARD

Most 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			
-р	choose hunks of patch between the index and the work tree and add them to the index			
am	box			
archive	Create an archive of files from a named			
	Find by binary search the change that introduced a bug			
	for existence of $file$ in last combisect run test -f $file.txt$			
branch	List, create, or delete branches			
-a	lists all branches including the remote branches			
-d	delete branch			
-m	rename branch:old_name new_name			
-Δ	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			
	re working tree and reset index: out 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)
-р	show diffs of each commit
stat abbrev-c	precise output with some stats commit 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
graph	show visual timeline
git lo	all files that ever existed in HEAD: ogpretty=format:name-status -f2- sort -u
merge	Join two or more development histories together

-s	specify your merge strategy (see ${\tt man}$ ${\tt git\textsc{-merge}})$
-X	apply option to strategy (eg. ours, their
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
\Rightarrow delete	e branch in remote repo called ori
gin:	push origin :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 $file$ 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	tionally 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		difftool	Show changes using common diff tools
	pull changes from main repo + sub- modules	fsck	Verifies the connectivity and validity of
tag	Create, list, delete or verify a tag ob-	get-tar-comm	the objects in the database
gitk	ject signed with GPG The git repository browser	800 001 001111	Extract commit ID from an archive created using archive
		help	Display help information about git
Manipulators	· · · · · · · · · · · · · · · · · · ·	instaweb	Instantly browse your working reposi-
config	Get and set repository or global options	merge-tree	tory in gitweb Show three-way merge without touch-
fast-export.	Git data exporter		ing index
fast-import.	Backend for fast Git data importers	rerere	Reuse recorded resolution of conflicted
filter-branc			merges
	Rewrite branches	_	Pick out and massage parameters
mergetool	Run merge conflict resolution tools to resolve merge conflicts	show-branch.	Show branches and their commits
nack-refs	Pack heads and tags for efficient repos-	verify-tag	Check the GPG signature of tags
pack reis	itory access	whatchanged.	Show logs with difference each commit
prune	Prune all unreachable objects from the object database		introduces
reflog	Manage reflog information	Interacting w	ith Others
relink	Hardlink common objects in local repos-	archimport	Import an Arch repository into git
		1	
	Manager of the last war with a single	cvsexportcom	
	Manage set of tracked repositories	_	Export a single commit to a CVS check-
-ν	Manage set of tracked repositories show details about the remotes	cvsexportcom	Export a single commit to a CVS check-out
extstyle ext	Manage set of tracked repositories show details about the remotes e all branches which are not in the	cvsexportcom	Export a single commit to a CVS check-
$ ext{-v} \Rightarrow ext{remov}$	Manage set of tracked repositories show details about the remotes e all branches which are not in the e anymore: remote updateprune	cvsexportcom	Export a single commit to a CVS check- out Salvage your data out of another SCM
-v ⇒ remov remot repack	Manage set of tracked repositories show details about the remotes e all branches which are not in the e anymore: remote updateprune Pack unpacked objects in a repository Create, list, delete refs to replace ob-	cvsexportcom cvsimport	Export a single commit to a CVS check- out Salvage your data out of another SCM people love to hate
-v ⇒ remov remot repack	Manage set of tracked repositories show details about the remotes e all branches which are not in the e anymore: remote updateprune Pack unpacked objects in a repository	cvsexportcom cvsimport cvsserver imap-send	Export a single commit to a CVS check- out Salvage your data out of another SCM people love to hate A CVS server emulator for git Send a collection of patches from stdin
-v ⇒ remov remot repack	Manage set of tracked repositories show details about the remotes e all branches which are not in the e anymore: remote updateprune Pack unpacked objects in a repository Create, list, delete refs to replace objects	cvsexportcom cvsimport cvsserver imap-send quiltimport .	Export a single commit to a CVS check- out Salvage your data out of another SCM people love to hate A CVS server emulator for git Send a collection of patches from stdin to an IMAP folder Applies a quilt patchset onto the cur-
-v ⇒ remov remot repack replace	Manage set of tracked repositories show details about the remotes e all branches which are not in the e anymore: remote updateprune Pack unpacked objects in a repository Create, list, delete refs to replace objects	cvsexportcom cvsimport cvsserver imap-send quiltimport. request-pull	Export a single commit to a CVS check- out Salvage your data out of another SCM people love to hate A CVS server emulator for git Send a collection of patches from stdin to an IMAP folder Applies a quilt patchest onto the cur- rent branch Generates a summary of pending chan- ges
-v ⇒ remov remot repack replace Interrogators annotate	Manage set of tracked repositories show details about the remotes e all branches which are not in the e anymore: remote updateprune Pack unpacked objects in a repository Create, list, delete refs to replace objects Annotate file lines with commit information	cvsexportcom cvsimport cvsserver imap-send quiltimport. request-pull	Export a single commit to a CVS check- out Salvage your data out of another SCM people love to hate A CVS server emulator for git Send a collection of patches from stdin to an IMAP folder Applies a quilt patchest onto the cur- rent branch Generates a summary of pending chan-
-v ⇒ remov remot repack replace Interrogators annotate blame	Manage set of tracked repositories show details about the remotes e all branches which are not in the e anymore: remote updateprune Pack unpacked objects in a repository Create, list, delete refs to replace objects Annotate file lines with commit information Show what revision and author last modified each line of a file	cvsexportcom cvsimport cvsserver imap-send quiltimport. request-pull send-email	Export a single commit to a CVS check- out Salvage your data out of another SCM people love to hate A CVS server emulator for git Send a collection of patches from stdin to an IMAP folder Applies a quilt patchest onto the cur- rent branch Generates a summary of pending chan- ges
-v ⇒ remov remot repack replace Interrogators annotate blame	Manage set of tracked repositories show details about the remotes e all branches which are not in the e anymore: remote updateprune Pack unpacked objects in a repository Create, list, delete refs to replace objects Annotate file lines with commit information Show what revision and author last modified each line of a file Find commits not merged upstream	cvsexportcom cvsimport cvsserver imap-send quiltimport. request-pull send-email	Export a single commit to a CVS check- out Salvage your data out of another SCM people love to hate A CVS server emulator for git Send a collection of patches from stdin to an IMAP folder Applies a quilt patchest onto the cur- rent branch Generates a summary of pending chan- ges Send a collection of patches as emails Bidirectional operation between a Sub-

Manipulators (plumbing)

Count unpacked number of objects and

their disk consumption

apply..... Apply a patch to files and/or to the 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)

mation 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

cat-file..... Provide content or type and size infor-

--name-only

show only names of files

http-push... Push objects over HTTP/DAV to an--r recursively other repository for-each-ref Output information on each ref parse-remote Routines to help parsing remote reposls-files..... Show information about files in the initory access parameters dex and the working tree receive-pack Receive what is pushed into the reposls-remote ... List references in a remote repository ls-tree..... List the contents of a tree object list all files for specific branch: lsupload-archive tree -r master --name-only merge-base.. Find as good common ancestors as possible for a merge name-rev..... Find symbolic names for given revs pack-redundant Internal helper commands Find redundant pack files rev-list..... Lists commit objects in reverse chronocheck-ref-format logical order show-index.. Show packed archive index show-ref..... List references in a local repository fmt-merge-msg unpack-file. Creates a temporary file with a blobs contents var..... Show a git logical variable

Synching repositories

daemon A	really simple server for git reposito-	
rie	es	
fetch-pack Re	eceive missing objects from another	
re	pository	
http-backend Se	erver side implementation of Git over	
H	TTP	
send-pack Pr	ush objects over git protocol to an-	
ot	her repository	
update-server-info		
U	pdate auxiliary info file to help dumb	

verify-pack. Validate packed git archive files

Helper commands

http-fetch.. Download from a remote git repository via HTTP

servers

shell Restricted login shell foronly SSH ac-Send archive back toarchive upload-pack. Send objects packed back tofetch-pack check-attr.. Display gitattributes information Ensures that a reference name is well 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 (c) git-qrc.tex and has then been modified to my own use.