GIT QUICK REFERENCE CARD

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

Main commands

<u>Main commai</u>	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			
-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 mailbox			
archive	Create an archive of files from a named			
	Find by binary search the change that introduced a bug			
	n for existence of $file$ in last com-			
	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			
-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			
\Rightarrow restore working tree and reset index: checkout 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		
	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 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		
\Rightarrow show all files that ever existed in HEAD: git logpretty=format:name-status \mid cut -f2- \mid sort -u			
merge	Join two or more development histories together		

	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
_	Update remote refs along with associated objects
	e branch in remote repo called testa: 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 HEAD (default!)
hard	resets staging area and working tree to HEAD
revert	creates a new commit that undoes the changes from a previous commit (adds new history to project)
	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
branch	s you to see and retrieve files from the see, commits and tags: [reference]:[filename] > out.txt

-s specify your merge strategy (see man

stash	stash Stash the changes in a dirty working directory away		\Rightarrow remove all branches which are not in the remote anymore: remote updateprune	
status	Show the working tree status	repack	Pack unpacked objects in a repository	
submodule Initialize, update, add or inspect sub- modulesrecurse-submodules pull changes from main repo + sub- modules		replace Create, list, delete refs to replace objects Interrogators		
gitk	The git repository browser	blame	Show what revision and author last modified each line of a file	
		cherry	Find commits not merged upstream	
Manipulators		count-object		
config	Get and set repository or global options		Count unpacked number of objects and their disk consumption	
list	show all items in config	difftool	Show changes using common diff tools	
get-regexp show given pattern in my configura-		fsck	Verifies the connectivity and validity of the objects in the database	
	tion, e.g. 'alias'	get-tar-comm	it-id	
global	write to global ~/.gitconfig file		Extract commit ID from an archive cre-	
system	write to system-wide configuration	ated using archive help Display help information about git		
local	to repository's configuration .git/config	_		
<pre>⇒ set alias for staged file prompt: con- figglobal alias.staged 'diffcached'</pre>			Instantly browse your working repository in gitweb	
_	Git data exporter	merge-tree	Show three-way merge without touching index	
<pre>fast-import. filter-branc</pre>	Backend for fast Git data importers	rerere	Reuse recorded resolution of conflicted merges	
	Rewrite branches	rev-parse	Pick out and massage parameters	
mergetool	Run merge conflict resolution tools to	show-branch.	Show branches and their commits	
	resolve merge conflicts	verify-tag	Check the GPG signature of tags	
	Pack heads and tags for efficient repository access		Show logs with difference each commit introduces	
prune	une Prune all unreachable objects from the object database			
reflog	Manage reflog information	Interacting w	ith Others	
relink	Hardlink common objects in local repos-	archimport	Import an Arch repository into git	
	itories	cvsexportcom		
	Manage set of tracked repositories		Export a single commit to a CVS check-	
-Δ	show details about the remotes		out	

cvsimport ... Salvage your data out of another SCM people love to hate cvsserver ... A CVS server emulator for git imap-send ... Send a collection of patches from stdin to an IMAP folder quiltimport. Applies a quilt patchset onto the current branch request-pull Generates a summary of pending chansend-email.. Send a collection of patches as emails svn..... Bidirectional operation between a Subversion repository and git

Manipulators (plumbing)

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

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 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 index and the working tree ls-remote ... List references in a remote repository ls-tree..... List the contents of a tree object list all files for specific branch: lstree -r master --name-only sible for a merge name-rev..... Find symbolic names for given revs

merge-base . . Find as good common ancestors as pos-

pack-redundant

Find redundant pack files

rev-list..... Lists commit objects in reverse chronological order

show-index.. Show packed archive index

show-ref..... List references in a local repository

unpack-file. Creates a temporary file with a blobs

var..... Show a git logical variable

verify-pack. Validate packed git archive files

Synching repositories

daemon...... A really simple server for git reposito-

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 HTTP/DAV to another repository

parse-remote Routines to help parsing remote repository access parameters

receive-pack Receive what is pushed into the repos-

shell Restricted login shell foronly SSH ac-

upload-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 formed

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 (c) git-qrc.tex and has then been modified to my own requirements.