GIT QUICK REFERENCE CARD

Frequently used GIT commands – Version v1.1 July 2014

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Main	commands
TATOLIL	Communa

Main commai	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 mail-box
archive	Create an archive of files from a named
bisect	Find by binary search the change that introduced a bug
	n for existence of $file$ in last com-
	bisect run test -f file.txt
	List, create, or delete branches
	lists all branches including the remote branches
	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!)
	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 abbrev-o	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
	Join two or more development histories together

-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
	e branch in remote repo called test- n: 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 nes, commits and tags: [reference]:[filename] > out.txt

-s specify your merge strategy (see man

git-merge)

stash	Stash the changes in a dirty working directory away		e all branches which are not in the e anymore: remote updateprune
status	Show the working tree status	repack	Pack unpacked objects in a repository
recurse-	Initialize, update, add or inspect sub- modules -submodules pull changes from main repo + sub-	-	Create, list, delete refs to replace objects
.	modules	Interrogators	
	Create, list, delete or verify a tag object signed with GPG	annotate	Annotate file lines with commit information
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-rege	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	-
global	write to global ~/.gitconfig file		Extract commit ID from an archive cre-
system	write to system-wide configuration	holp	ated using archive Display help information about git
local	to repository's configuration .git/config	_	
	lias for staged file prompt: con- -global alias.staged 'diffcached'		Instantly browse your working repository in gitweb
_	Git data exporter	merge-tree	Show three-way merge without touching index
<pre>fast-import. filter-branch</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 resolve merge conflicts		Show branches and their commits
nack-refs	Pack heads and tags for efficient repos-	verify-tag	Check the GPG signature of tags
paon ioib	itory access		Show logs with difference each commit introduces
prune	Prune all unreachable objects from the object database		
reflog	Manage reflog information	Interacting w	ith Others
relink	Hardlink common objects in local repositories	_	Import an Arch repository into git
remote	Manage set of tracked repositories	cvsexportcom	Export a single commit to a CVS check-
	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 patchest onto the current branch
request-pull Generates a summary of pending changes
send-email .. Send a collection of patches as emails
svn...... Bidirectional operation between a Sub-

Manipulators (plumbing)

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

version repository and git

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

locall <file></file>	y: git update-indexassume-unchanged	2
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	Ī
name-on]	.у	
	show only names of files	
-r	recursively	
	Output information on each ref	
	Show information about files in the index and the working tree	
ls-remote	List references in a remote repository	
	List the contents of a tree object	
	all files for specific branch: ls-	
	r mastername-only	
	Find as good common ancestors as possible for a merge	
name-rev	Find symbolic names for given revs	
pack-redundar		Ι
1	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	
	Creates a temporary file with a blobs contents	1
var	Show a git logical variable	

push some version of file to remote repository and then disable changes tracking

 \Rightarrow

verify-pack. Validate packed git archive files

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

send-pack... Push objects over git protocol to another repository

update-server-info

Update auxiliary info file to help dumb servers

Helper commands

 $\begin{array}{c} \mathtt{http-fetch} \ .. \ \ Download \ from \ a \ remote \ git \ repository \\ via \ HTTP \end{array}$

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 access

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

github.com/emzap79/QRCs

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