## 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 pull changes from main repo + sub-		blame	Show what revision and author last modified each line of a file
	modules	cherry	Find commits not merged upstream
tag	Create, list, delete or verify a tag ob-	count-object	S
gitk	ject signed with GPG The git repository browser		Count unpacked number of objects and their disk consumption
		difftool	Show changes using common diff tools
Manipulators		fsck	Verifies the connectivity and validity of the objects in the database
config Get and set repository or global op-		get-tar-commit-id	
global	tions write to global ~/.gitconfig file		Extract commit ID from an archive created using archive
system	write to system-wide configuration	help	Display help information about git
local	to repository's configuration .git/config	_	Instantly browse your working reposi-
$\Rightarrow$ set a	lias for staged file prompt: con-		tory in gitweb
_	-global alias.staged 'diffcached' Git data exporter	merge-tree	Show three-way merge without touching index
_	Backend for fast Git data importers	rerere	Reuse recorded resolution of conflicted
filter-branc			merges
	Rewrite branches	rev-parse	Pick out and massage parameters
mergetool	Run merge conflict resolution tools to resolve merge conflicts	show-branch.	Show branches and their commits
		verify-tag	Check the GPG signature of tags
pack-refs	Pack heads and tags for efficient repository access	whatchanged. Show logs with difference each commit introduces	
prune Prune all unreachable objects from the		introduces	
	object database	T 4 . 4	**I O/I
reflog	Manage reflog information	Interacting w	
relink	Hardlink common objects in local repos-	_	Import an Arch repository into git
	itories	cvsexportcom	Export a single commit to a CVS check-
	Manage set of tracked repositories		out
	show details about the remotes	cvsimport	Salvage your data out of another SCM
⇒ remove all branches which are not in the remote anymore: remote updateprune		people love to hate	
		cvsserver	A CVS server emulator for git
_	repack Pack unpacked objects in a repository		imap-send Send a collection of patches from stdin
replace	Create, list, delete refs to replace objects		to an IMAP folder
10000		quiittimport.	Applies a quilt patchset onto the current branch
T .		request-pull	Generates a summary of pending chan-
Interrogators		_	ges
annotate	Annotate file lines with commit information	send-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 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 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	Helper commands	
between the index and repository diff-tree show files which have been changed by	http-fetch Download from a remote git repository via HTTP	
last commitname-only show only names of files	http-push Push objects over HTTP/DAV to another repository	
-r recursively	parse-remote Routines to help parsing remote repository access parameters	
for-each-ref Output information on each ref	receive-pack Receive what is pushed into the repos-	
ls-files Show information about files in the index and the working tree	shell Restricted login shell foronly SSH ac-	
ls-remote List references in a remote repository	cess upload-archive	
ls-tree List the contents of a tree object	Send archive back toarchive	
$\Rightarrow$ list all files for specific branch: lstree -r mastername-only	upload-pack. Send objects packed back to fetch-pack	
merge-base Find as good common ancestors as possible for a merge	Internal helper commands	
name-rev Find symbolic names for given revs  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 contents  var Show a git logical variable  verify-pack. Validate packed git archive files	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	
C	sh-setup Common git shell script setup code	
Synching repositories  daemon A really simple server for git repositories	stripspace Filter out empty lines	

fetch-pack.. Receive missing objects from another

http-backend Server side implementation of Git over

send-pack... Push objects over git protocol to an-

Update auxiliary info file to help dumb

other repository

repository

HTTP

servers

update-server-info

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.