# GIT QUICK REFERENCE CARD

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Main command	Add file contents to the index
-A [:/]	adds all file changes including deletions to the staging area [for the whole tree]
am	Apply a series of patches from a mailbox
archive	Create an archive of files from a named tree
bisect	Find by binary search the change that introduced a bug
branch	List, create, or delete branches
-a	lists all branches including the remote branches
-d	$delete \dots$ branch
- <i>m</i>	$rename\ branch{:}\dots \mathtt{old\_name}\ \mathtt{new\_name}$
<i>-v</i>	lists more information about the branches
bundle	Move objects and refs by archive
checkout	Checkout a branch or paths to the working tree
- <i>b</i>	create a branch and switch to it at the same time
cherry-pick.	Apply the change introduced by an existing commit
citool	Graphical alternative to commit
clean	Remove untracked files from the working tree
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 - correcting it with addingamend
describe	Show the most recent tag that is reachable from a commit
diff	Show changes between commits, commit and working tree, etc.

	Download objects and refs from another repository
format-patch	Prepare patches for e-mail submission
•	Cleanup unnecessary files and optimize the local repository
grep	Print lines matching a pattern
gui	A portable graphical interface to Git
	Create an empty git repository or reinitialize an existing one
log	Show commit logs
	Join two or more development histories together
	Move or rename a file, a directory, or a symlink
notes	Add/inspect commit notes
	Fetch from and merge with another repository or a local branch
_	Update remote refs along with associated objects
	Forward-port local commits to the updated upstream head
	Reset current HEAD to the specified state (Remove a <i>file</i> from staging area)
revert	Revert an existing commit
	Remove files from the working tree and from the index
	remove dirs recursive – for removing additionally from repo, addcached
${\tt shortlog}$	Summarize git log output
show	Show various types of objects
	Stash the changes in a dirty working directory away
status	Show the working tree status
	Initialize, update or inspect submodules
	Create, list, delete or verify a tag object signed with GPG
$\mathtt{gitk} \dots \dots$	The git repository browser

# Manipulators config...... Get and set repository or global options fast-export. Git data exporter

fast-import . Backend for fast Git data importers
filter-branch

### Rewrite branches

mergetool ... Run merge conflict resolution tools to resolve merge conflicts

pack-refs... Pack heads and tags for efficient repository access

prune . . . . . . Prune all unreachable objects from the object database

reflog...... Manage reflog information

 $\begin{array}{ccc} \textbf{relink} \ldots \ldots & \text{Hardlink common objects in local repositories} \end{array}$ 

remote...... Manage set of tracked repositories

-v show details about the remotes

repack...... Pack unpacked objects in a repository

replace..... Create, list, delete refs to replace objects

### Interrogators

annotate Annotate file lines with commit	infor-
mation	
blame Show what revision and author la	ast mod-
ified each line of a file	
cherry Find commits not merged upstr	eam
count-objects	
Count unpacked number of object	ets and

Count unpacked number of objects and their disk consumption

 ${\tt difftool}.....$  Show changes using common diff tools

fsck . . . . . Verifies the connectivity and validity of the objects in the database

## get-tar-commit-id

Extract commit ID from an archive created using archive

help ...... Display help information about git

instaweb..... Instantly browse your working repository in gitweb

merge-tree Show three-way merge without touch-	merge-index. Run a merge for files needing merging
ing index	mktag Creates a tag object
rerere Reuse recorded resolution of conflicted merges	mktree Build a tree-object from ls-tree format- ted text
rev-parse Pick out and massage parameters	pack-objects Create a packed archive of objects
show-branch. Show branches and their commits verify-tag Check the GPG signature of tags	prune-packed Remove extra objects that are already in pack files
	read-tree Reads tree information into the index
whatchanged. Show logs with difference each commit introduces	symbolic-ref Read and modify symbolic refs
moroduces	unpack-objects
Let me the south Others	Unpack objects from a packed archive
Interacting with Others archimport Import an Arch repository into git	update-index Register file contents in the working
cvsexportcommit	tree to the index
Export a single commit to a CVS check- out	update-ref Update the object name stored in a ref safely
cvsimport Salvage your data out of another SCM people love to hate	write-tree Create a tree object from the current index
cvsserver A CVS server emulator for git	
<pre>imap-send Send a collection of patches from stdin</pre>	Interrogators (plumbing) cat-file Provide content or type and size information for repository objects
rent branch request-pull Generates a summary of pending chan-	diff-files Compares files in the working tree and the index
ges	diff-index Compares content and mode of blobs between the index and repository
send-email Send a collection of patches as emails svn Bidirectional operation between a Sub-	diff-tree Compares the content and mode of blobs found via two tree objects
version repository and git	for-each-ref Output information on each ref
	ls-files Show information about files in the in-
Manipulators (plumbing)	dex and the working tree
apply Apply a patch to files and/or to the	ls-remote List references in a remote repository
index	ls-tree List the contents of a tree object
checkout-index Copy files from the index to the work-	merge-base Find as good common ancestors as pos-
ing tree	sible for a merge
commit-tree. Create a new commit object	name-rev Find symbolic names for given revs
hash-object. Compute object ID and optionally cre-	pack-redundant
ates a blob from a file	Find redundant pack files
index-pack Build pack index file for an existing packed archive	rev-list Lists commit objects in reverse chrono- logical order
merge-file Run a three-way file merge	<pre>show-index Show packed archive index</pre>

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 Synching repositories daemon..... A really simple server for git repositofetch-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 reposshell ...... Restricted login shell foronly SSH acupload-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

Produce a merge commit message

formed

fmt-merge-msg

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

 $\begin{tabular}{ll} \tt mailsplit \dots Simple UNIX mbox splitter program \\ \tt merge-one-file \\ \end{tabular}$ 

The standard helper program to use with merge-index

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

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

stripspace.. Filter out empty lines

http://ebixio.com/ and http://github.com/gburca/git-qrc

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