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iiiiii HEAD ===== lllllll foobar
GITQUICK REFERENCE CARD
iiiiii HEAD Frequently used GIT commands – Version v1.1 May 2014

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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 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 tree

bisect..... Find by binary search the change that introduced a bug

bisect search for existence of *file* in last commits:
bisect 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**

v 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 ambiguity).

b create a branch **new_name** and switch to it instantly

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 prepending **--amend** to argument **describe**..... Show the most recent tag that is reachable from a commit

diff..... Show changes between commits, commit and working tree, etc.

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

git..... Necessary 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 ambiguity)

p show diffs of each commit **--stat** precise output with some stats

--abbrev-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

merge..... Join two or more development histories together

s specify your merge strategy (see **man git-merge**) X apply option to strategy (eg. *ours*, *theirs*) **--ff**

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

delete branch in remote repo called origin:
push origin :testbranch

rebase..... Forward-port local commits to the updated upstream head

--autosquash

i rebase interactively 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 remove recursive – for removing additionally from repo, add **--cached ***

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 + submodules

tag..... Create, list, delete or verify a tag object signed with GPG

only update the branch pointer, with **gitk** The git repository browser

out creating a merge commit (default)

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

relink..... Hardlink common objects in local repositories

remote..... Manage set of tracked repositories

v show details about the remotes	remove all branches which are not in the remote anymore: remote update --prune	cvsserver ... A CVS server emulator for git	write-tree .. Create a tree object from the current index
repack	Pack unpacked objects in a repository	imap-send ... Send a collection of patches from stdin to an IMAP folder	
replace	Create, list, delete refs to replace objects	quiltimport .. Applies a quilt patchset 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 Subversion repository and git	
Interrogators			
annotate	Annotate file lines with commit information		
blame	Show what revision and author last modified each line of a file		
cherry	Find commits not merged upstream		
count-objects	Count unpacked number of objects and their disk consumption		
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 touching index		
rerere	Reuse recorded resolution of conflicted merges		
rev-parse ...	Pick out and massage parameters		
show-branch ..	Show branches and their commits		
verify-tag ..	Check the GPG signature of tags		
whatchanged ..	Show logs with difference each commit introduces		
Interacting with Others			
archimport ..	Import an Arch repository into git		
cvsexportcommit	Export a single commit to a CVS checkout		
		cvsimport ... Salvage your data out of another SCM	
		people love to hate	
		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 changes	
		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
			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
		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
		merge-base ..	Find as good common ancestors as possible for a merge
		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
		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 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 repository

shell Restricted login shell for only SSH access

upload-archive
Send archive back to archive

upload-pack . Send objects packed back to fetch-pack

Internal helper commands

check-attr .. Display git attributes 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 with merge-index

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

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

strip-space .. Filter out empty lines