

File Commands

ls - directory listing
ls -al - formatted listing with hidden files
cd *dir* - change directory to *dir*
cd - change to home
pwd - show current directory
mkdir *dir* - create a directory *dir*
rm *file* - delete *file*
rm -r *dir* - delete directory *dir*
rm -f *file* - force remove *file*
rm -rf *dir* - force remove directory *dir* *
cp *file1 file2* - copy *file1* to *file2*
cp -r *dir1 dir2* - copy *dir1* to *dir2*; create *dir2* if it doesn't exist
mv *file1 file2* - rename or move *file1* to *file2*
 if *file2* is an existing directory, moves *file1* into directory *file2*
ln -s *file link* - create symbolic link *link* to *file*
touch *file* - create or update *file*
cat > *file* - places standard input into *file*
more *file* - output the contents of *file*
head *file* - output the first 10 lines of *file*
tail *file* - output the last 10 lines of *file*
tail -f *file* - output the contents of *file* as it grows, starting with the last 10 lines

Process Management

ps - display your currently active processes
top - display all running processes
kill *pid* - kill process id *pid*
killall *proc* - kill all processes named *proc* *
bg - lists stopped or background jobs; resume a stopped job in the background
fg - brings the most recent job to foreground
fg *n* - brings job *n* to the foreground

File Permissions

chmod *octal file* - change the permissions of *file* to *octal*, which can be found separately for user, group, and world by adding:

- 4 - read (r)
- 2 - write (w)
- 1 - execute (x)

Examples:

chmod 777 - read, write, execute for all
chmod 755 - rwx for owner, rx for group and world
 For more options, see **man chmod**.

SSH

ssh *user@host* - connect to *host* as *user*
ssh -p *port user@host* - connect to *host* on port *port* as *user*
ssh-copy-id *user@host* - add your key to *host* for *user* to enable a keyed or passwordless login

Searching

grep *pattern files* - search for *pattern* in *files*
grep -r *pattern dir* - search recursively for *pattern* in *dir*
command* | grep *pattern - search for *pattern* in the output of *command*
locate *file* - find all instances of *file*

System Info

date - show the current date and time
cal - show this month's calendar
uptime - show current uptime
w - display who is online
whoami - who you are logged in as
finger *user* - display information about *user*
uname -a - show kernel information
cat /proc/cpuinfo - cpu information
cat /proc/meminfo - memory information
man *command* - show the manual for *command*
df - show disk usage
du - show directory space usage
free - show memory and swap usage
whereis *app* - show possible locations of *app*
which *app* - show which *app* will be run by default

Compression

tar cf *file.tar files* - create a tar named *file.tar* containing *files*
tar xf *file.tar* - extract the files from *file.tar*
tar czf *file.tar.gz files* - create a tar with Gzip compression
tar xzf *file.tar.gz* - extract a tar using Gzip
tar cjf *file.tar.bz2* - create a tar with Bzip2 compression
tar xjf *file.tar.bz2* - extract a tar using Bzip2
gzip *file* - compresses *file* and renames it to *file.gz*
gzip -d *file.gz* - decompresses *file.gz* back to *file*

Network

ping *host* - ping *host* and output results
whois *domain* - get whois information for *domain*
dig *domain* - get DNS information for *domain*
dig -x *host* - reverse lookup *host*
wget *file* - download *file*
wget -c *file* - continue a stopped download

Installation

Install from source:

./configure
make
make install
dpkg -i *pkg.deb* - install a package (Debian)
rpm -Uvh *pkg.rpm* - install a package (RPM)

Shortcuts

Ctrl+C - halts the current command
Ctrl+Z - stops the current command, resume with **fg** in the foreground or **bg** in the background
Ctrl+D - log out of current session, similar to **exit**
Ctrl+W - erases one word in the current line
Ctrl+U - erases the whole line
Ctrl+R - type to bring up a recent command
!! - repeats the last command
exit - log out of current session

* use with extreme caution.



git cheat sheet

learn more about git the simple way at rogerdudler.github.com/git-guide/
cheat sheet created by Nina Jaeschke of ninagrafik.com

create & clone

create new repository	<code>git init</code>
clone local repository	<code>git clone /path/to/repository</code>
clone remote repository	<code>git clone username@host:/path/to/repository</code>

add & remove

add changes to INDEX	<code>git add <filename></code>
add all changes to INDEX	<code>git add *</code>
remove/delete	<code>git rm <filename></code>

commit & synchronize

commit changes	<code>git commit -m "Commit message"</code>
push changes to remote repository	<code>git push origin master</code>
connect local repository to remote repository	<code>git remote add origin <server></code>
update local repository with remote changes	<code>git pull</code>

branches

create new branch	<code>git checkout -b <branch></code> <small>e.g. <code>git checkout -b feature_x</code></small>
switch to master branch	<code>git checkout master</code>
delete branch	<code>git branch -d <branch></code>
push branch to remote repository	<code>git push origin <branch></code>

merge

merge changes from another branch	<code>git merge <branch></code>
view changes between two branches	<code>git diff <source_branch> <target_branch></code> <small>e.g. <code>git diff feature_x feature_y</code></small>

tagging

create tag	<code>git tag <tag> <commit ID></code> <small>e.g. <code>git tag 1.0.0 1b2e1d63ff</code></small>
get commit IDs	<code>git log</code>

restore

replace working copy with latest from HEAD	<code>git checkout -- <filename></code>
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Tip

Want a simple but powerful
git-client for your mac?

Try Tower: www.git-tower.com/

