

# command line cheat sheet

File Commands		System Info	
<b>ls</b> - directory listing <b>ls -al</b> - formatted listing with hidden files <b>cd <i>dir</i></b> - change directory to <i>dir</i> <b>cd</b> - change to home <b>pwd</b> - show current directory <b>mkdir <i>dir</i></b> - create a directory <i>dir</i> <b>rm <i>file</i></b> - delete <i>file</i> <b>rm -r <i>dir</i></b> - delete directory <i>dir</i> <b>rm -f <i>file</i></b> - force remove <i>file</i> <b>rm -rf <i>dir</i></b> - force remove directory <i>dir</i> * <b>cp <i>file1 file2</i></b> - copy <i>file1</i> to <i>file2</i> <b>cp -r <i>dir1 dir2</i></b> - copy <i>dir1</i> to <i>dir2</i> ; create <i>dir2</i> if it doesn't exist <b>mv <i>file1 file2</i></b> - rename or move <i>file1</i> to <i>file2</i> if <i>file2</i> is an existing directory, moves <i>file1</i> into directory <i>file2</i> <b>ln -s <i>file link</i></b> - create symbolic link <i>link</i> to <i>file</i> <b>touch <i>file</i></b> - create or update <i>file</i> <b>cat &gt; <i>file</i></b> - places standard input into <i>file</i> <b>more <i>file</i></b> - output the contents of <i>file</i> <b>head <i>file</i></b> - output the first 10 lines of <i>file</i> <b>tail <i>file</i></b> - output the last 10 lines of <i>file</i> <b>tail -f <i>file</i></b> - output the contents of <i>file</i> as it grows, starting with the last 10 lines		<b>date</b> - show the current date and time <b>cal</b> - show this month's calendar <b>uptime</b> - show current uptime <b>w</b> - display who is online <b>whoami</b> - who you are logged in as <b>finger <i>user</i></b> - display information about <i>user</i> <b>uname -a</b> - show kernel information <b>cat /proc/cpuinfo</b> - cpu information <b>cat /proc/meminfo</b> - memory information <b>man <i>command</i></b> - show the manual for <i>command</i> <b>df</b> - show disk usage <b>du</b> - show directory space usage <b>free</b> - show memory and swap usage <b>whereis <i>app</i></b> - show possible locations of <i>app</i> <b>which <i>app</i></b> - show which <i>app</i> will be run by default	
Process Management		Compression	
<b>ps</b> - display your currently active processes <b>top</b> - display all running processes <b>kill <i>pid</i></b> - kill process id <i>pid</i> <b>killall <i>proc</i></b> - kill all processes named <i>proc</i> * <b>bg</b> - lists stopped or background jobs; resume a stopped job in the background <b>fg</b> - brings the most recent job to foreground <b>fg <i>n</i></b> - brings job <i>n</i> to the foreground		<b>tar cf <i>file.tar files</i></b> - create a tar named <i>file.tar</i> containing <i>files</i> <b>tar xf <i>file.tar</i></b> - extract the files from <i>file.tar</i> <b>tar czf <i>file.tar.gz files</i></b> - create a tar with Gzip compression <b>tar xzf <i>file.tar.gz</i></b> - extract a tar using Gzip <b>tar cjf <i>file.tar.bz2</i></b> - create a tar with Bzip2 compression <b>tar xjf <i>file.tar.bz2</i></b> - extract a tar using Bzip2 <b>gzip <i>file</i></b> - compresses <i>file</i> and renames it to <i>file.gz</i> <b>gzip -d <i>file.gz</i></b> - decompresses <i>file.gz</i> back to <i>file</i>	
File Permissions		Network	
<b>chmod <i>octal file</i></b> - change the permissions of <i>file</i> to <i>octal</i> , which can be found separately for user, group, and world by adding: <ul style="list-style-type: none"><li>• 4 - read (r)</li><li>• 2 - write (w)</li><li>• 1 - execute (x)</li></ul> Examples: <b>chmod 777</b> - read, write, execute for all <b>chmod 755</b> - rwx for owner, rx for group and world For more options, see <b>man chmod</b> .		<b>ping <i>host</i></b> - ping <i>host</i> and output results <b>whois <i>domain</i></b> - get whois information for <i>domain</i> <b>dig <i>domain</i></b> - get DNS information for <i>domain</i> <b>dig -x <i>host</i></b> - reverse lookup <i>host</i> <b>wget <i>file</i></b> - download <i>file</i> <b>wget -c <i>file</i></b> - continue a stopped download	
SSH		Installation	
<b>ssh <i>user@host</i></b> - connect to <i>host</i> as <i>user</i> <b>ssh -p <i>port user@host</i></b> - connect to <i>host</i> on port <i>port</i> as <i>user</i> <b>ssh-copy-id <i>user@host</i></b> - add your key to <i>host</i> for <i>user</i> to enable a keyed or passwordless login		Install from source: <b>./configure</b> <b>make</b> <b>make install</b> <b>dpkg -i <i>pkg.deb</i></b> - install a package (Debian) <b>rpm -Uvh <i>pkg.rpm</i></b> - install a package (RPM)	
Searching		Shortcuts	
<b>grep <i>pattern files</i></b> - search for <i>pattern</i> in <i>files</i> <b>grep -r <i>pattern dir</i></b> - search recursively for <i>pattern</i> in <i>dir</i> <b><i>command</i>   grep <i>pattern</i></b> - search for <i>pattern</i> in the output of <i>command</i> <b>locate <i>file</i></b> - find all instances of <i>file</i>		<b>Ctrl+C</b> - halts the current command <b>Ctrl+Z</b> - stops the current command, resume with <b>fg</b> in the foreground or <b>bg</b> in the background <b>Ctrl+D</b> - log out of current session, similar to <b>exit</b> <b>Ctrl+W</b> - erases one word in the current line <b>Ctrl+U</b> - erases the whole line <b>Ctrl+R</b> - type to bring up a recent command <b>!!</b> - repeats the last command <b>exit</b> - log out of current session	
		* use with extreme caution.	