[Unix, Linux, and BSD: Command Line Cheat Sheet](http://shabbathster.blogspot.com/2013/09/unix-linux-and-bsd-command-line-cheat.html)

Unix, Linux, and BSD: Command Line Cheat Sheet

**The following command line cheat sheet for Unix, Linux, and BSD systems**

**Help Commands**  
  
**man** - Online manual  
**whatis** - Displays manual descriptions  
  
**File and Directory Commands**  
  
**ls** - Lists directory contents  
**pwd** - Prints the current directory  
**cd** - Change directories  
**mv** - Move files  
**cp** - Copy files  
**rm** - Delete files  
**mkdir** - Create directories  
**rmdir** - Remove directories  
**find** - Search for files (slow)  
**locate** - Search for files (faster)  
**whereis** - Display binary file location  
**which** - Display binary file location  
**file** - Display file type  
**size** - Display file size  
**stat** - Display file statistics  
**fuser** - Identify open files  
**touch** - Update file timestamps  
**lsof** - List open files  
**cksum** - Calculate checksum  
**md5sum** - Calculate md5sum  
**ln** - Create a link  
**alias** - Display/edit command aliases  
**gzip** - Compress files  
**gunzip** - Uncompress files  
**shred** - Securely delete files  
**head** - Display the head of a file  
**tail** - Display the tail of a file  
**tee** - Display and redirect output  
**sort** - Sort input files/streams  
**grep** - Display matching results  
**tree** - Display directory tree  
**more** - Display files one page at a time  
**less** - Display files one page at a time  
**wc** - Count words/lines/letters  
**cat** - Display files  
**zcat** - Display compressed files  
**diff** - Show differences between files  
**strings** - Display printable characters  
**sed** - Text editing utility  
**awk** - Text processing utility  
**dos2unix** - Convert DOS files to Unix  
**unix2dos** - Convert Unix files to DOS  
  
**Editors**  
  
**nano** - Simple text editor  
**vi** - Advanced text editor  
**emacs** - Ultimate text editor  
  
**Other Utilities**  
  
**clear** - Clear terminal screen  
**date** - Display the date  
**cal** - Display a calendar  
**watch** - Monitor a command  
**env** - Display environment variables  
**history** - Display command history  
**logout** - Logout of the shell  
**exit** - Exit the shell  
  
**Users and Groups**  
  
**su** - Switch user  
**sudo** - Run a program as another user  
**id** - Display user identity  
**ulimit** - Display user limits  
**who** - Display who is logged in  
**w** - Display what users are doing  
**users** - Display active user accounts  
**last** - Display last user logins  
**lastlog** - Display all user’s last login  
**wall** - Send a message to all users  
**whoami** - Display current user id  
**finger** - Display information about a user  
**chown** - Change file/directory ownership  
**chgrp** - Change file/directory group  
**chmod** - Change file/directory permissions  
**umask** - Display or set umask settings  
**passwd** - Set/change password  
**useradd** - Create user accounts  
**userdel** - Delete user accounts  
**usermod** - Modify user accounts  
**groupadd** - Create group accounts  
**groupdel** - Delete group accounts  
**groupmod** - Modify group accounts  
  
**Process Control**  
  
**ps** - Display running processes  
**pgrep** - Search for running processes  
**pidof** - Search for PID by name  
**pstree** - Displays process in tree view  
**kill** - Terminate a process by PID  
**killall** - Terminal a process by name  
**nice** - Run a program with a modified priority  
**renice** - Adjust a program's priority  
**nohup** - Run a program immune to hang-ups  
**&** - Run a program in the background  
**bg** - Move a job to the background  
**jobs** - Display running jobs  
**fg** - Move a job to the foreground  
  
**Startup and Shutdown**  
  
**shutdown** - Shutdown the computer  
**poweroff** - Poweroff the computer  
**halt** - Halt the computer  
**runlevel** - Display the current runlevel  
**telinit** - Change runlevel  
**service** - Stop and stop services  
**sysv-rc-conf** - Runlevel configuration editor  
**update-rc.d** - Debian runlevel editor  
**chkconfig** - Red Hat runlevel editor  
**rc-update** - Gentoo runlevel editor  
**rc-status** - Gentoo service monitor  
  
**Networking Commands**  
  
**hostname** - Display the system hostname  
**domainname** - Display the system domain  
**ifconfig** - Manage network interfaces  
**ifup** - Start network interfaces  
**ifdown** - Stop network interfaces  
**iwconfig** - Manage wireless interfaces  
**iwlist** - Display wireless information  
**ethtool** - Display network card info  
**arp** - Display the ARP cache  
**ping** - Send ICMP echo requests  
**traceroute** - Trace network paths  
**tracepath** - Trace network paths  
**nslookup** - Query DNS servers  
**dig** - Query DNS servers  
**host** - Query DNS servers  
**whois** - Query the whois database  
**dhclient** - Linux DHCP client  
**netstat** - Display network status  
**route** - Manage network routes  
**tcpdump** - Capture network packets  
**nmap** - Scan remote computers  
**wavemon** - Monitor wireless connections  
**smbtree** - Display SMB servers/shares  
**nmblookup** - Look up NetBIOS information  
**mount** - Mount file systems  
**showmount** - Show mounted file systems  
**umount** - Unmount file systems  
**ssh** - SSH client  
**telnet** - Telnet client  
**ftp** - FTP client  
**ncftp** - Scriptable FTP client  
**mail** - Email client  
**rsync** - Rsync client  
  
**Hardware Commands**  
  
**lspci** - List PCI devices  
**pcidump** - List PCI devices  
**lsusb** - List USB devices  
**lshw** - List hardware devices  
**lspcmcia** - List PCMCIA devices  
**lshal** - Display all system hardware  
**hdparm** - Configure hard drives  
**eject** - Eject removable media  
 **Scheduling**  
  
**batch** - Run processes when the CPU is free  
**at** - Run processes *at*a specific time  
**atq** - Display the *at*queue  
**atrm** - Remove jobs from the *at*queue  
**crontab** - Display/edit cron jobs  
  
**File System Commands**  
  
**fdisk** - Partition editor  
**parted** - Partition editor  
**mkfs** - Create file systems  
**fsck** - Check file systems  
**mkswap** - Create swap space  
**swapon** - Activate swap space  
**swapoff** - Deactivate swap space  
**sync** - Flush disk cache  
  
**Backup Commands**  
  
**tar** - Archive utility  
**dd** - File copy utility  
**dump** - Incremental backup utility  
**restore** - Restore dump backups  
**mt** - Tape device utility  
**cpio** - Archive utility  
  
**Monitoring Commands**  
  
**top** - Performance monitor  
**mpstat** - Performance monitor  
**vmstat** - Virtual memory monitor  
**iostat** - I/O performance monitor  
**nfsstat** - NFS performance monitor  
**free** - Display memory usage  
**df** - Display disk usage  
**du** - Display disk usage  
**uname** - Display system information  
**uptime** - Display system uptime  
**lsmod** - List kernel modules  
**modinfo** - Display module information  
**dmesg** - Display kernel messages  
**strace** - System trace debugger  
**ltrace** -Library trace debugger  
**ipcs** - IPC monitor  
**sysctl** - Configure kernel parameters  
  
**Printing Commands**  
  
**lp** - Print files  
**lpstat** - Display printer status  
**lpq** - Display print queue  
**lprm** - Remove print jobs  
**cancel** - Cancel print jobs  
**enable** - Enable a printer  
**disable** - Disable a printer  
  
**Software Commands**  
  
**dpkg** - Debian package manager  
**apt-get** - Debian package utility  
**rpm** - Red Hat package manager  
**yum** - Red Hat package utility  
**emerge** - Gentoo package utility  
**pkg\_add** - BSD installation utility  
**pkg\_delete** - BSD uninstallation utility  
**make** - Compile software from source