Opensource.com: Bash Cheat Sheet

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Become more efficient at the command line with these handy Bash shortcuts.

HISTORY

Reverse search: `ctrl + r`

Rerun last command: `!!`

Reuse arguments from previous command: `!*`

Use last argument of last command: `!$`

nth argument: `!:2`

All the arguments: `!:1-$`

Last but n: `!-2:$`

Get the folder: `!$:h`

The current line: `!#:1`

Search and replace: `!!:gs`

Allow multiple terminals to write to the history file: `shopt -s histappend`

List the most used history commands:

```
history | awk 'BEGIN {FS="[ \t]+|\\|"} {print $3}' | sort | uniq -c | sort -nr | head
```

FILE AND NAVIGATION

```
cp /home/foo/realllylongname.cpp{,-old}
cd -
rename 's/text_to_find/been_renamed/' *.txt
```

`export CDPATH='/var/log:~'` (variable is used with the cd built-in.)

COLOURIZE BASH

Enable colors

```
eval "`dircolors -b`"
```

Force ls to always use color and type indicators

```
alias ls='ls -hF --color=auto'
```

Make the dir command work kinda like in windows (long format)

```
alias dir='ls --color=auto --format=long'
```

Make grep highlight results using color

```
export GREP_OPTIONS='--color=auto'
```

```
export LESS_TERMCAP_mb=$'\E[01;31m'
export LESS_TERMCAP_md=$'\E[01;33m'
export LESS_TERMCAP_me=$'\E[0m'
export LESS_TERMCAP_se=$'\E[0m' # end the info box
export LESS_TERMCAP_so=$'\E[01;42;30m' # begin the info box
export LESS_TERMCAP_ue=$'\E[0m'
export LESS_TERMCAP_us=$'\E[01;36m'
```

RUNNING COMMANDS IN SEQUENCE

Run second command if the first is successful: `&&`

Run second command regardless of success of first one: `;`

REDIRECTING I/O

Redirect stdout and stderr to a file: `2>&1`

CHECK FOR OPEN PORTS

```
echo > /dev/tcp/<server ip>/<port>
```

` `` ` (use back ticks to shell out)

KEYBOARD SHORTCUTS

Corrects typoos: `shopt -s cdspell`

Undo: `ctrl + _`

Move forward a word: `ctrl + arrow`

Move cursor to start: `ctrl + a`

Move cursor to end: `ctrl + e`

Cuts everything after the cursor: `ctrl + k`

Clears screen: `ctrl + l`

Resume command that is in the foreground: `ctrl + q`

Pause a long running command in the foreground: `ctrl + s`

Swap two characters: `ctrl + t`

Cuts everything before the cursor: `ctrl + u`

Opens the command string in an editor so that you can edit it before it runs: `ctrl + x + ctrl + e`

Expand glob/star: `ctrl + x + *`

Move to the opposite end of the line: `ctrl + xx`

Pastes from the buffer: `ctrl + y`

Copy/paste into terminal: `ctrl + shift + c/v`

EXAMINE EXECUTABLE

```
which <command>
file <path/to/file>
```

`command -V <some command binary>` (tells you whether <some binary> is a built-in, binary or alias)

```
Topics
LinuxBash
```

INFO

[1] https://opensource.com/article/18/5/bash-tricks

[2] https://opensource.com/article/19/10/bash-history-shortcuts