Useless Tricks in Bash

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Contents

TODO

- join **png** and **jpg** as pdf
- compile a file by his extension
- list and kill problematic processes
- comando lspdf: CreationDate, Pages
- convert latex to png

Documentations

- (Check unit testing for C)[https://libcheck.github.io/check/doc/check_html/check_4.html#index-ck_005fassert_005fint_005feq-1]

Cool commands

- man file to pdf `man -t $cmd | ps2pdf - man_$cmd.pdf`
- List all users `cut -d: -f1 < /etc/passwd | sort`
- Set default application to open a file `mimeopen -d file.ext`
- Distro information `lsb_release -a`
- Image to icon `bash convert image.png \ -bordercolor white -border 1x1 -alpha set \ -channel rgba -fill none -floodfill +0+0 white \ -shave 1x1 -trim icon.png`
- Remove all file but save certain extensions `find . -maxdepth 1 -type f | grep -v -E "*.md|*.sh|*.tex" | xargs rm > find .`

```
-maxdepth 1 ! -type d
```
- Send message to user from Telegram bot Telegram API `bash   curl "https://api.telegram.org/bot<token>/sendMessage" \   -H "Content-Type: application/json" --request POST \   --data '{"chat_id":0123, "text":"Hello World!"}' 2> /dev/null | jq`

File manipulation

- cut pdf `gs -dBATCH -dNOPAUSE -sDEVICE=pdfwrite -dSAFER -sPageList=1- -sOutputFile=myPDF_out.pdf myPDF.pdf`
- join pdf `gs -dBATCH -dNOPAUSE -sDEVICE=pdfwrite -q -dAutoRotatePages=/None -sOutputFile=myPDF_out file1.pdf file2.pdf    convert filein fileout`
- `tex  to  png   texi2dvi file.txt && dvips -E file.dvi &&   gs -dSAFER -dEPSCrop -r600 -sDEVICE=pngalpha -o foo.png file.ps`
- `png to icon  convert image.png \   -bordercolor white -border 1x1 -alpha set \   -channel rgba -fill none -floodfill +0+0 white \   -shave 1x1 -trim icon.png`

Pages for curl

- Weather: "https://wttr.i/:help"

- An online man > cheat.sh/cmd

- My global ip: "https://ifconfig.me/all.json"

- Online dictionary > dict://dict.org/d:word

- Cryptocurrencies plot > rate.sx/coin@time

- Encapsulate an address `curl -F 'shorten=https://www.google.com' https://0x0.st`

- A little news paper `getnews.tech/linux`

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```
{
"Refreshed commands": {
"find": "fd-find (fd)",
"cat":  ["bat", "glow"],
"ls":   "exa",
"top":  "htop",
"du":   ["gud", "dua"],
"rm":   "trash"
},
"Novel tools": {
"jq": "json parser",
"asciinema": "record a terminal",
```

```
"asciicast2gif": "convert .cast to .gif",
"svg-term": "convert .cast to .svg for web",
"trans": "wrapper to Google Translate"
},
"Developer":    ["strip", "upx", "gdb", "lldb", "objdump"],
"Fundamental":  ["ls", "cd", "pwd", "find", "tree", "clear"],
"DirsFiles":    ["mv", "cp", "rm", "touch", "mkdir", "rename"],
"System":       ["top", "psensors", "ps", "jobs", "fg", "bg"],
"textstreams":  ["grep", "tr", "echo", "cat", "jq", "sed", "wc",
"column", "rev"],
"users":        ["whoami", "chmod", "chown", "whereis", "sudo"],
"conversion":   ["pandoc", "ssconvert"],
"Swiss tools":  ["awk", "gs"],
"Network Admin":["ip", "nmcli"],
"Security":     ["iptables", "selinux", "lynis", "clamav"],
"Funny ones":   ["cowsay", "spark", "fortune", "figlet", "espeak",
"oneko", "toilet", "rig", "factor", "cmatrix",
"asciiview", "factor"],
"WebWrappers":  ["ani-cli", "wikit", "howdoi"],
"Work tools":   ["docker", "git"]
}

find ~/.local/share/nvim/swap/ -type f -name "*.sw[klmnop]" -delete
ps -A | grep -i evince | tee /dev/tty | awk '{ print  }' | xargs -I %
kill --verbose --signal QUIT % find ~/.local/share/nvim/swap/ -type f \
-name "*.sw[a-z]" -delete
find ~/.local/share/nvim/swap/ -type f -name "*.sw[a-z]" -delete man \
-t <cmd> | ps2pdf - <cmd>.pdf
figlet -f smscript "Good Morning!" | lolcat
cat /dev/urandom | tr -dc 'AGCT' | fold -w 32 | head -n 10
fortune | trans en:es --brief | espeack -v en:es
sudo udevadm control --reload-rules
grep --include=\*.{c,h} -winr ./ -e "transpose"
man -k "word"

ffmpeg -i movie.gif -movflags faststart -pix_fmt yuv420p \
    -vf "scale=trunc(iw/2)*2:trunc(ih/2)*2" movie.mp4 -r 30
```

Shortcuts

- In Vim or Less pager:
    - "/pattern", "n" (next), "&/pattern" (only show that lines)

Worthy Projects

- A native notebook

- Markdown reader (Go)
- Exercises on demand
- Futhark language
- UML compiler

Must have Github repos

- `gh repo clone miguelraz/JuliaTutorials`