



modern linux cli tools

Patrick Drechsler



"modern" is relative...

Douglas Adams

I've come up with a set of rules that describe our reactions to technologies:

- Anything that is in the world **when you're born** is normal and ordinary and is just a natural part of the way the world works.
- Anything that's invented **between when you're fifteen and thirty-five** is new and exciting and revolutionary and you can probably get a career in it.
- Anything invented **after you're thirty-five** is against the natural order of things.

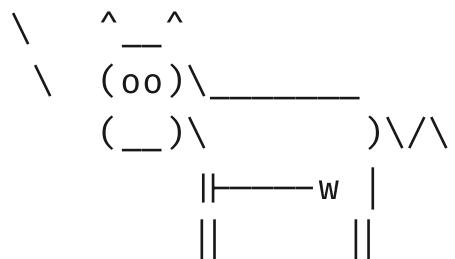


Target audience

- linux desktop CLI users
- linux admins
- docker users
- devops/cloud users
- ...

/ This is the year of linux on the desktop \

|
| ... Windows10 has WSL ;-)
|
\\



Linux tooling philosophy

- do one thing (and only one thing!) well
- chaining
- *sound familiar? (hint: functional programming...)*

Why? Improvements to...

- **productivity**
 - one cli command is better than multiple clicks in a GUI
- **optics**
 - "unix porn" (`~PS1``, ``ls``, ...)

Learn the basics

VS Code is cool, but it is not a CLI tool

- Emacs and Vim:
 - navigation within file
 - cut, copy & paste
 - navigation between files
 - and how to exit
 - pick one and become fluent
- Learn basic cli commands: `cd`, `ls`, `cat`,
`less`, `find`, `grep`, `sed`, `tail`, `awk`,
`dd`, `rsync`, ...
- Combine using pipes and redirection

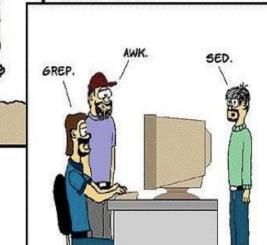


EVOLUTION OF LANGUAGE THROUGH THE AGES.

6000 B.C.

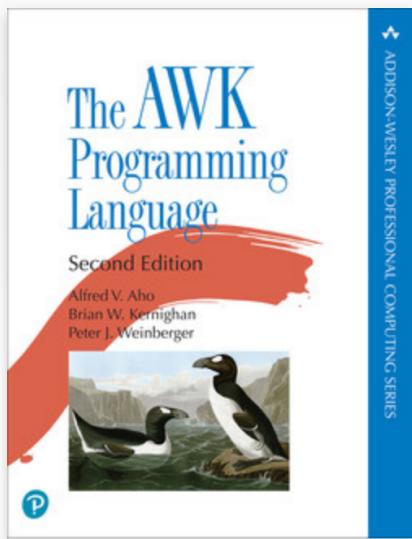


2000 A.D.



Tipp

A book, which has aged very well, is out in a 2nd edition (1st ed: 1988)...



The AWK Programming Language, 2nd Edition

by [Alfred V. Aho, Brian W. Kernighan, Peter J. Weinberger](#)

Released September 2023

Publisher(s): Addison-Wesley Professional

ISBN: 9780138269876

Read it now on the O'Reilly learning platform with a 10-day free trial.

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Disclaimer

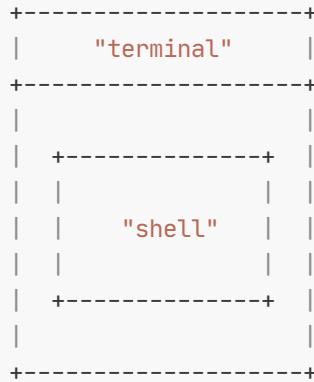


Pets

Cattle



terminal and shell: what's the difference?



terminal

- colors (16 or more),
- fonts (utf8, ligatures, emojis, ...)
- interactions
 - keyboard shortcuts
 - mouse interaction (copy & paste, scrolling, selection, ...)

shell

- everything else (f.ex. `PS1`, scripting language)

terminal

What is the best terminal?

- start by using your default terminal

but think about enriching your output!

- Emojis: € ★
- Unicode, Emojis, Fonts, Image support (!)

me/patrick/cli-talk-demos/geek_and_poke_stable_data_model.png

some-project	11 ↗
geek_and_poke_stable_data_~.png	380 K
notes.md	149 B

Thing

has something to do with

SINCE THE REQUIREMENTS ARE A LITTLE BIT UNCLEAR WE TOOK A MORE GENERIC APPROACH

HOW TO CREATE A STABLE DATA MODEL

some-project on main .NET v5.0.204 net5.0

```
❯ ls
```

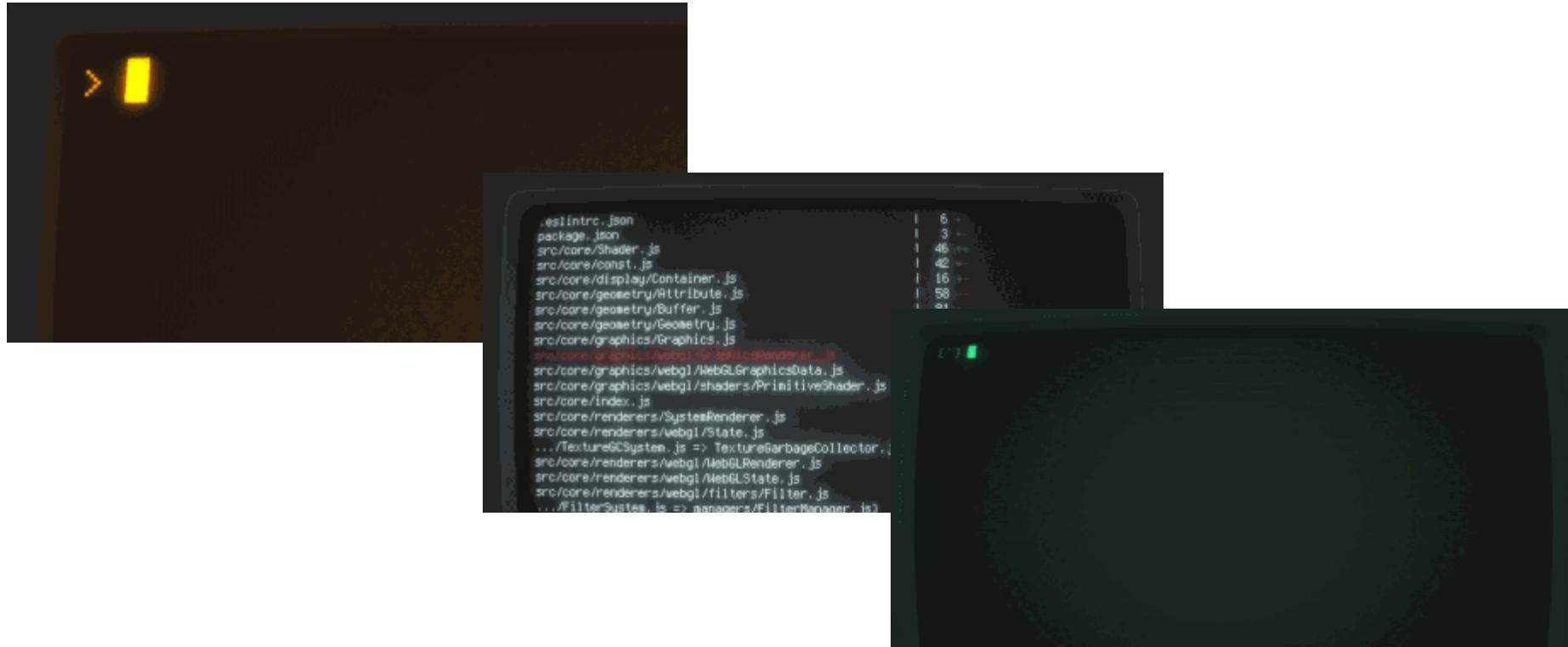
	rwxr-xr-X	1	patrick	10 B	Tue Jun 15 20:30:51 2021
	rwxr-xr-X	1	patrick	182 B	Tue Jun 15 20:32:20 2021
	rwxr-xr-X	1	patrick	414 B	Tue Jun 15 20:30:51 2021
	RW-R--R--	1	patrick	1 KiB	Tue Jun 15 20:30:51 2021
	RW-R--R--	1	patrick	2 KiB	Tue Jun 15 20:30:51 2021
	RW-R--R--	1	patrick	2 KiB	Tue Jun 15 20:30:51 2021
	RW-R--R--	1	patrick	3 KiB	Tue Jun 15 20:30:51 2021
	RW-R--R--	1	patrick	7 KiB	Tue Jun 15 20:32:16 2021
	RW-R--R--	1	patrick	47 B	Tue Jun 15 20:30:51 2021
	RW-R--R--	1	patrick	224 B	Tue Jun 15 20:30:51 2021
	RW-R--R--	1	patrick	352 B	Tue Jun 15 20:30:51 2021

- ✓ bin/
- ✓ git/.git/
- ✓ obj/
- ✓ ApplicativeDemo.fsproj
- ✓ Demo1.fs
- ✓ Demo2.fs
- ✓ Demo3.fs
- ✓ .gitignore
- ✓ Program.fs
- ✓ README.md
- ✓ TestHelper.fs

terminal - Retro style



- cool-retro-term: 18k stars <https://github.com/Swordfish90/cool-retro-term>



terminals

modern alternatives

not the topic of this talk, but...

- kitty: ⚡ 20k stars <https://github.com/kovidgoyal/kitty>
- alacritty ⚡ 49k stars <https://github.com/alacritty/alacritty>
- wezterm ⚡ 10k stars <https://github.com/wez/wezterm>

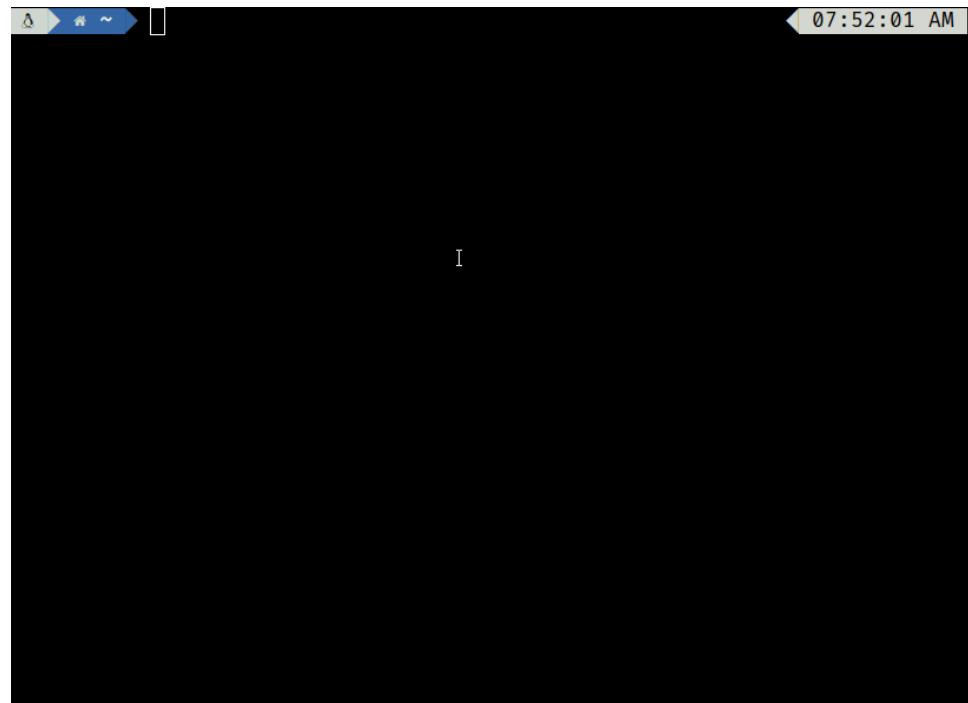
Popular shells

- bash
- zsh
- fish
- dash (embedded)

nushell: The new kid on the block

Everything is data

- keep an eye on it!
 - 26k stars <https://github.com/nushell/nushell>
- 100% NOT POSIX conform
- category: experimental



PS1

PS1: alias for "prompt string 1"

- default: `username@machinename:~/some/location \$`
- `"\$PWD` present working directory

Extra, nice-to-have information

- only show relevant parts (hide user/machine name on local machine)
- compact location (`\$PWD`)
- git status
- environment infos (node / .NET / Java / Python / etc version)

PS1: Powerline

started as fancy statusline for `vim` ...

- 13k stars <https://github.com/powerline/powerline>
- good-looking default settings
 - shortens `\$PWD`
 - adds git status
 - stable & customizable
- available for `zsh`, `bash`, etc
- category: unix-porn

```
~ > code > dotfiles > master $ git branch
* master
~ > code > dotfiles > master $ badcmd
bash: badcmd: command not found
~ > code > dotfiles > master $ cd ~/deep/down/into/the/abyss/of/directories/where/no/one/ever/comes/
~ > deep > ... > no > one > ever > comes > master $ █
```

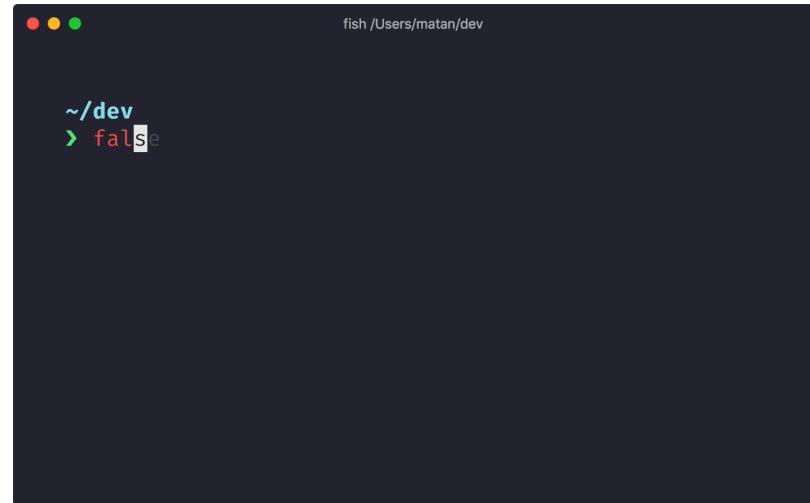
PS1: Starship

the new kid on the block

- 33k stars <https://github.com/starship/starship>
- cross-platform, cross-shell (even Windows cmd.exe)
- stylish
- great defaults for many environments
- easy to configure
- can look like powerline
- category: unix-porn



The minimal, blazing-fast, and infinitely customizable prompt for any shell!



tmux

terminal-independent shell UI

- 28k stars <https://github.com/tmux/tmux>
- terminal multiplexer
- "tabs" and "split screen" features: terminal independent
- detachable sessions
- plugin system & package manager (of course)
- customizable
- scriptable: f. ex. `tmuxinator`

byobu

`tmux` -wrapper for non-vim users

- (mirrored repo: ~1k stars) <https://www.byobu.org/>
- Keybindings `F1` - `F12`
- Sensible defaults (layout, info line)
- category: productivity

⚠ Warning about tiling everything ⚠

don't forget about all the fun keybindings

Nesting can become a challenge...

Abstraction level

tiling window manager like `i3` or `sway`

Keybinding Brain Overload



tiling terminal like `kitty`

tiling shell like `nushell` or `tmux`

application like `emacs` or `vim`



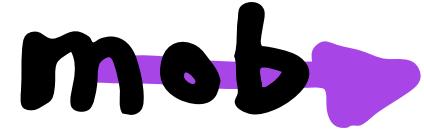
Smooth git handover

- 1k stars <https://mob.sh/>
- remote ensemble or pair programming using screen sharing

```
## first user
mob start 5
mob next

## second user
mob start 5
mob next

## any user, wanting to make a normal commit
mob done
```



ranger

file explorer / manager

-  13k stars <https://ranger.github.io>
- 2 layout options
 - miller columns ("mac" style)
 - multipane (similar to Midnight commander)
- powerful preview mode and program launcher (word, music, ...)
 - with image support for certain terminals (`iTerm2`, `urxvt`, `kitty`) not `gnome-terminal` (!)
- key bindings: see `~/.config/ranger/rc.conf` starting at line ~300...
- category: navigation, file system

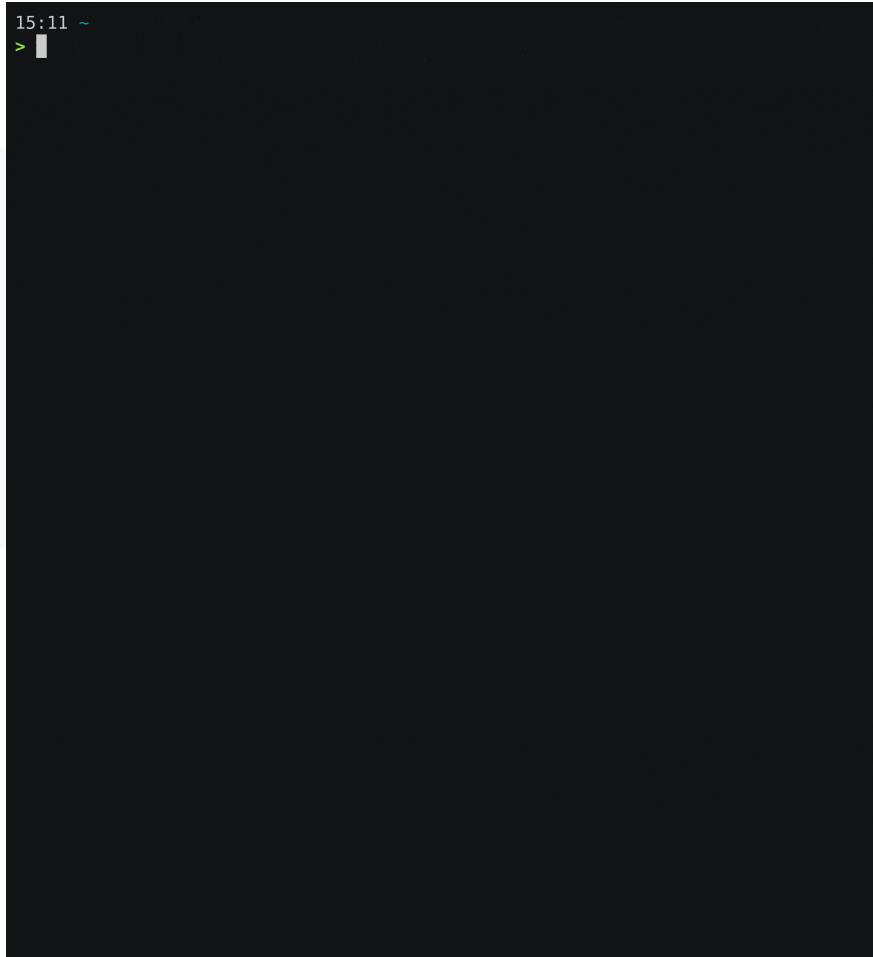
clifm

another terminal file manager

Most terminal file managers out there (if not all) are built using the TUI design principles, much like the superb `Midnight Commander` and `Ranger`. But clifm is built rather having the CLI design principles in mind: do not navigate through a big menu of files, just type it!, exactly as you do in your regular shell, but easier and faster.

For this reason, clifm does not need to be better: it's just different!

- ⚙ 1.1k stars <https://github.com/leo-arch/clifm>
- `ranger` alternative
- category: navigation, file system



nnn

another terminal file manager

nnn (n^3) is a full-featured terminal file manager. It's tiny, nearly 0-config and incredibly fast.

- `ranger` alternative
- category: navigation, file system

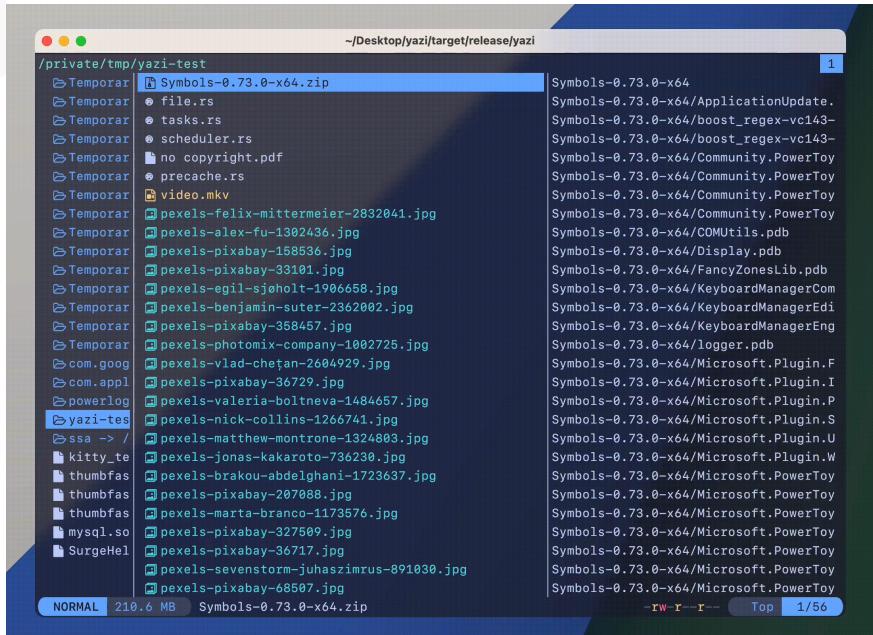
The screenshot shows a terminal window running the nnn file manager. The left pane displays a hierarchical file tree with directories like demo, dev, documents, downloads, music, onedrive, pictures, server, share, torrents, videos, vimwiki, and wine. The right pane lists various files with their icons: archive.tar.gz, document.docx, document.pdf, gif.gif, image.png, song.flac, and spreadsheet.xlsx. At the bottom, a status bar shows the path 1/13 2021-04-13 01:20 drwxr-xr-x luuk:wheel 4K and a small navigation icon.

Yazi

fast terminal file manager

Yazi ("duck" in Chinese) is a terminal file manager written in Rust, based on non-blocking async I/O. It aims to provide an efficient, user-friendly, and customizable file management experience.

- 3k stars <https://github.com/sxyazi/yazi>
- `ranger` alternative
- category: navigation, file system



Emacs: wdired-mode

- for Emacs users
- https://www.gnu.org/software/emacs/manual/html_node/emacs/Wdired.html
- `emacs -nw .` emacs in current directory in terminal (`-nw`: non-window mode)
- `M-x wdired-change-to-wdired-mode`
- edit (using all emacs features)
- finish: `C-c C-c`
- exit



man pages can be difficult

- 44k stars <https://tldr.sh/>
- clients implemented in many languages
 - js, ruby, python, perl, haskell, etc.
- shared user-contributed knowledge-base

Tealdeer

- 2k stars <https://github.com/dbrgn/tealdeer>
- ...in rust

```
~/cli-talk-demos
> tldr scp

scp

Secure copy.
Copy files between hosts using Secure Copy Protocol over SSH.
More information: https://man.openbsd.org/scp.

- Copy a local file to a remote host:
  scp path/to/local_file remote_host:path/to/remote_file

- Use a specific port when connecting to the remote host:
  scp -P port path/to/local_file remote_host:path/to/remote_file

- Copy a file from a remote host to a local directory:
  scp remote_host:path/to/remote_file path/to/local_directory

- Recursively copy the contents of a directory from a remote host to a local directory:
  scp -r remote_host:path/to/remote_directory path/to/local_directory

- Copy a file between two remote hosts transferring through the local host:
  scp -3 host1:path/to/remote_file host2:path/to/remote_directory

- Use a specific username when connecting to the remote host:
  scp path/to/local_file remote_username@remote_host:path/to/remote_directory

- Use a specific ssh private key for authentication with the remote host:
  scp -i ~/ssh/private_key local_file remote_host:/path/remote_file
```

McFly

an upgraded `Ctrl R` where history results make sense for what you're working on right now

- 5k stars <https://github.com/cantino/mcfly>
- category: history search

McFly replaces your default `Ctrl R` shell history search with an intelligent search engine that takes into account your working directory and the context of recently executed commands. McFly's suggestions are prioritized in real time with a small neural network.

bat



`cat` & `less` with syntax highlighting

- 40k stars <https://github.com/sharkdp/bat>
- hint: can be used as preview by `ranger` ...
- category: file preview

ripgrep



very fast `grep` replacement

- 37k stars <https://github.com/BurntSushi/ripgrep>
- `ripgrep` **recursively** searches directories for a regex pattern
- sensible defaults: respect ` `.gitignore` , ignores hidden files & folders
- command: `rg`
- category: search
- use `rg --hidden -g '!.git' "your search"` to search all hidden folder except ` `.git`
 - create an alias (maybe `rgh`?)...

ripgrep-all

ripgrep, but also search in PDFs, E-Books, Office documents, zip, tar.gz, sqlite (!), etc

- 5k stars <https://github.com/phiresky/ripgrep-all>
- command: `rga`
- faster than `pdfgrep` (see website for a benchmark)
- category: search
- Demo: search in Manning books folder

fd



simple alternative to `find`

- 27k stars <https://github.com/sharkdp/fd>
- "The command name is 50% shorter than `find`"
- Convenient syntax `fd PATTERN` (instead of `find -iname '*PATTERN*'`)
- Sensible defaults: `~.gitignore`, ignore hidden files/folders
- fast
- category: search



interactive fuzzy search

- 51k stars <https://github.com/junegunn/fzf>
- excellent integration with other tools: Install it and it will be used by many other tools
- `Alt+c`: quick `cd` navigation
- nice helper methods. `<cmd> **<TAB>`, for example:
 - `cd **<TAB>`
 - `ssh **<TAB>`
 - `unset **<TAB>`, `export **<TAB>`, `unalias **<TAB>`
 - `kill -9 <TAB>` careful...
- Things you can do with fzf: <https://andrew-quinn.me/fzf>
- category: search

jq & Co

sql for json (and other data formats)

jq

- lightweight and flexible command-line JSON processor
- 26k stars <https://github.com/jqlang/jq>

jqp

- TUI for `jq`
- 1.8k stars <https://github.com/noahgorstein/jqp>

miller

- similar to `jq`, but also for CSV, TSV, JSON, etc.
- 8k stars <https://github.com/johnkerl/miller>

fq

- `jq`, but for binary data
- 8k stars <https://github.com/wader/fq>
- for example: audio, video, images, etc.

hyperfine

benchmarking tool

- 15k stars

<https://github.com/sharkdp/hyperfine>

```
# comparing `fd` with `find`
hyperfine --warmup 3 \
    'fd -e jpg -uu' \
    'find -iname "*.jpg"'
```

- category: benchmarking

progress

monitor any kind of "copy"

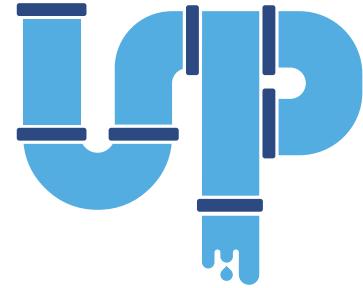
- 6k stars <https://github.com/Xfennec/progress>
- attach to any kind of copy, even after the fact (!)
- category: monitoring

```
No command currently running: cp, mv, dd, tar, cat, rsync, grep, fgrep, egrep, cut, sort, md5sum,  
sha1sum, sha224sum, sha256sum, sha384sum, sha512sum, adb, gzip, gunzip, bzip2, bunzip2, xz,  
unxz, lzma, unlzma, 7z, 7za, zcat, bzcat, lzcat, split, gpg, or wrong permissions.
```

Ultimate Plumber (up)

interactive REPL for shell piping

- 8k stars <https://github.com/akavel/up>
- interactive piping
- instant live preview
- category: search, file manipulation, interactive





Rainbows and unicorns

- ─ 5k stars <https://github.com/busyloop/lolcat>
- ─ category: fun, unix porn

```
~/cli-talk-demos
> lc | lolcat
rwxr-xr-x  1  patrick   182 B    Thu Jun 17 07:24:41 2021 ➔ search-project/
rwxr-xr-x  1  patrick   872 B    Wed Jun 16 01:30:02 2021 ➔ search-project-pdf/
rwxr-xr-x  1  patrick   196 B    Tue Jun 15 20:32:18 2021 ➔ some-project/
rw-r--r--  1  patrick   379 KiB   Tue Jun 15 20:39:21 2021 📜 geek_and_poke_stable_data_model.png
rw-r--r--  1  patrick    23 B    Tue Jun 15 22:01:28 2021 📄 live-notes.md
rw-r--r--  1  patrick   149 B    Tue Jun 15 16:40:27 2021 📄 notes.md
rw-r--r--  1  patrick   2 GiB   Wed Jun 16 01:28:31 2021 📕 ubuntu-20.04.2.0-desktop-amd64.iso

~/cli-talk-demos
> lc | lolcat
rwxr-xr-x  1  patrick   182 B    Thu Jun 17 07:24:41 2021 ➔ search-project/
rwxr-xr-x  1  patrick   872 B    Wed Jun 16 01:30:02 2021 ➔ search-project-pdf/
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rw-r--r--  1  patrick   149 B    Tue Jun 15 16:40:27 2021 📄 notes.md
rw-r--r--  1  patrick   2 GiB   Wed Jun 16 01:28:31 2021 📕 ubuntu-20.04.2.0-desktop-amd64.iso
```

no-more-secrets



when the tv team comes in your office

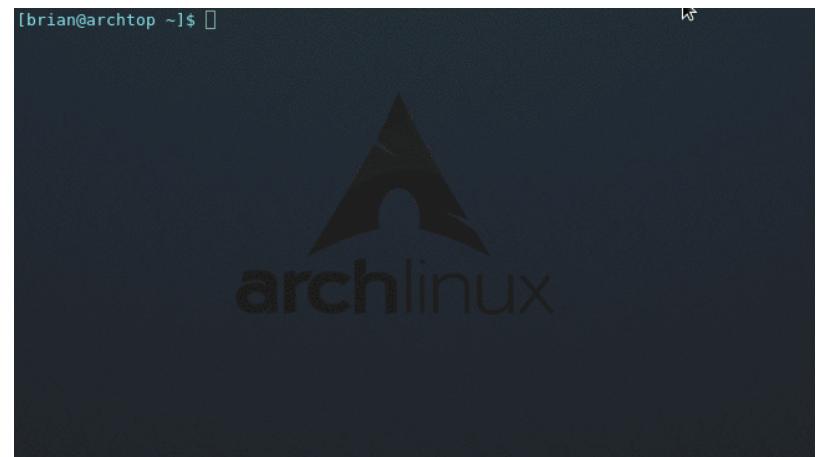
- ⚭ 5k stars <https://github.com/bartobri/no-more-secrets>
- pipe something to `nms` or just run `sneakers`
- category: fun, unix porn



[brian@archtop ~]\$

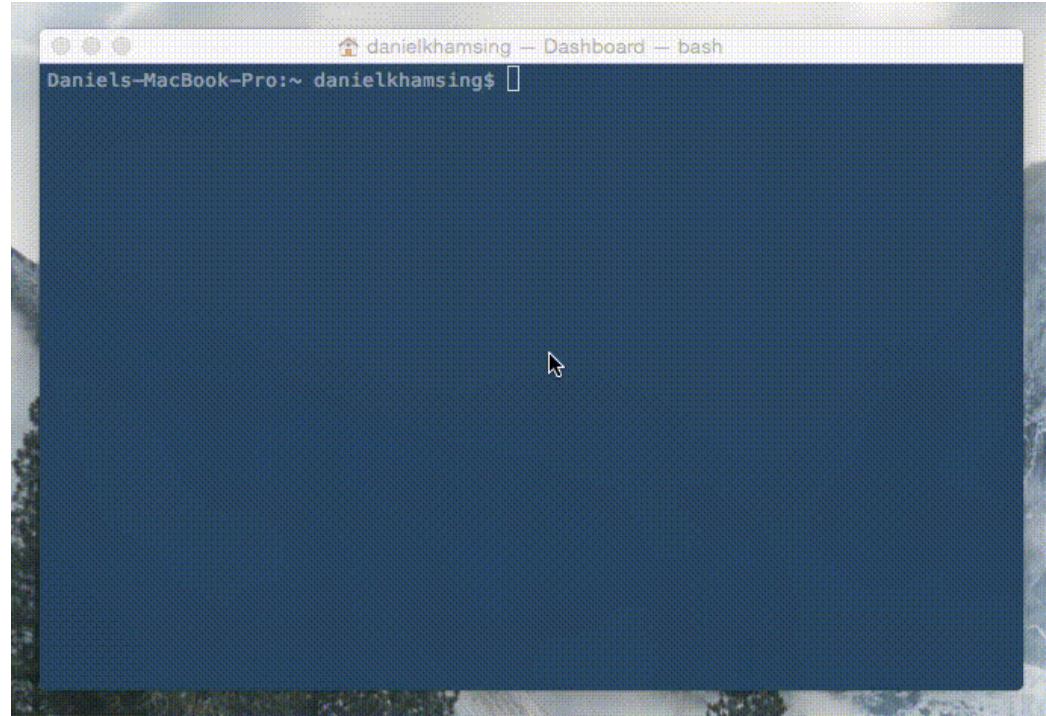


[brian@archtop ~]\$



sl 🚂

- 3k stars <https://github.com/mtoyoda/sl>
- typo `sl` (instead of `ls`) -> show steam locomotive
- can we pipe it to `lolcat`? of course
- category: fun, unix porn



ASCII art

literally 100s of tools! For example...

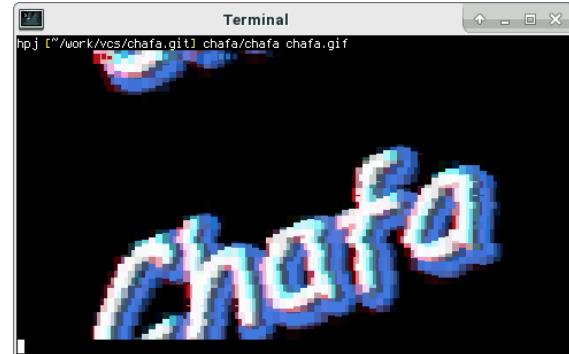
pixterm

- true color images in the terminal
- 930 stars <https://github.com/eliukblau/pixterm>



chafa

- image-to-text converter
- 2k stars <https://github.com/hpjansson/chafa>



gh

GitHub CLI

- 32k stars <https://github.com/cli/cli>
- Example: push current git folder to new private github repo:
 - `gh repo create --source . --push --private`
- create PRs
- view issues

thefuck



fix common typos / mistakes

- 77k stars <https://github.com/nvbn/thefuck>
- example: pushing a newly created git branch
- category: productivity

A screenshot of a terminal window titled "nvbn@nvbn-desktop: ~/exp/thefuck 76x18". The window shows the command "thefuck git:(master) X" entered at the prompt. The terminal background is dark, and the text is white and yellow. The title bar is red.

ls on steroids

`ls` problem: sort by name and time and size at the same time...

Use colors!

- `colorls` ("the original" in ruby: <https://github.com/athityakumar/colorls>)
- `lsd` (in rust: <https://github.com/Peltoche/lspd>)
- `exa` (in rust: <https://github.com/ogham/exa>)
- `eza` (in rust: <https://github.com/eza-community/eza>)

Required: font providing all symbols

- Example: NerdFonts <https://github.com/ryanoasis/nerd-fonts>

colorls



- 4k stars <https://github.com/athityakumar/colorls>
- category: unix porn

```
> ls
rwxr-xr-x 1 patrick 22 B   Sat May 22 23:23:43 2021
rwxr-xr-x 1 patrick 114 B  Mon May 24 21:34:56 2021
rwxr-xr-x 1 patrick 5 KiB Sat May 22 23:24:07 2021
rwxr-xr-x 1 patrick 44 B   Mon May 24 21:12:56 2021
rwxr-xr-x 1 patrick 64 B   Mon May 24 22:51:56 2021
rwxr-xr-x 1 patrick 52 B   Sat May 22 23:26:40 2021
rwxr--r-- 1 patrick 62 B   Sat May 22 23:23:43 2021
rwxr-xr-x 1 patrick 163 B  Sat May 22 23:23:43 2021
rwxr--r-- 1 patrick 33 B   Sat May 22 23:23:43 2021
rwxr--r-- 1 patrick 276 B  Sat May 22 23:24:05 2021
rwxr--r-- 1 patrick 200 KiB Sat May 22 23:24:05 2021
rwxr--r-- 1 patrick 351 B  Sun May 23 01:52:10 2021
rwxr--r-- 1 patrick 16 KiB Tue May 25 04:39:47 2021
rwxr--r-- 1 patrick 7 KiB  Sat May 22 23:27:11 2021
rwxr--r-- 1 patrick 17 KiB Sat May 22 23:56:32 2021
rwxr--r-- 1 patrick 80 B   Sat May 22 23:23:43 2021
```

1: components/
2: scripts/
3: .netlify.toml
4: vercel.json

du alternatives



`du` in the name

- ncdu - we all know this
 - <https://dev.yorhel.nl/ncdu>
- 2k stars gdu: <https://github.com/dundee/gdu>
- 6k stars dust: <https://github.com/bootandy/dust>



boxes

- <https://boxes.thomasjensen.com/docs/>
- ascii art boxes
- show all templates: `boxes -l`
- category: unix porn

```
vivek@wks01:~$ echo "This is a test" | boxes
*****
/* This is a test */
*****
vivek@wks01:~$ echo -e "\n\tVivek Gite\n\tvivek@nixcrafti.biz" | boxes -d dog
          _,-,--="---,-
         / \ ."-, .-. "
        / \ \o\ : : / \ \ \
       \ \ \ :="~`~"=: |
         \   ( )   /
           .-".-.
          .-{ }-| / , -.- \ | -{ }- .
         ) ( _ )_) \_/-~-==~-`\_/( _ ( _ ) ( )
        ( ) Vivek Gite
        ( vivek@nixcraft.com )
        ( www.cyberciti.biz )
```

chatGPT-shell-cli

2023 - no presentation without the current hype: ChatGPT

- 414 stars <https://github.com/0xacx/chatGPT-shell-cli>
- Chat-GPT client without any dependencies
- like most clients: requires API-Key
- command: `chatgpt`

```
> chatgpt
Welcome to chatgpt. You can quit with 'exit' or 'q'.

Enter a prompt:
Wie durchsucht man rekursiv alle Markdown Dateien nach dem Wort Magdeburg?

chatgpt Eine Möglichkeit wäre, ein Kommandozeilen-Tool wie "grep" zu verwenden und den Befehl "grep -r 'Magdeburg' *.md"
auszuführen. Dies würde alle Dateien mit der Erweiterung ".md" im aktuellen Verzeichnis und in allen Unterverzeichnissen rekursiv
durchsuchen und nach dem Wort "Magdeburg" suchen.

Enter a prompt:
q
```

monitoring

Everything *top

- btop
- apachetop
- ngxtop
- mtp
- pg_top
- powertop
- iotop
- iftop
- nethogs

lazy*

Everything lazy*

- lazydocker
 - 27k stars <https://github.com/jesseduffield/lazydocker>
- lazygit
 - 35k stars <https://github.com/jesseduffield/lazygit>

```
Status
lazydocker

Services
running api 0.01%
running mysql 0.13%
running quote-fetcher 0.00%
running redis4.0 0.31%

Standalone Containers
exited (1) migrate 0.00%
running guard 0.00%
running rails-console 0.00%

Images
<none> <none> 1
<none> <none> 1
bumper latest 9
<none> <none> 5

Volumes
local 68473898e49e0e4d2c5998f68c79
local 90d4357f8a93810ee8f2a59671e7
local b9a4a32a2d4d6366f9a943aff8a
local bc80a55695b8d780db6fbe54f31a

Config
Name: <none>
ID: sha256:a28c7b34cac8c23430c15a6c1a6738e998859057848457cf05
Tags: <none>:<none>
Size: 144.02MB
Created: Sat, 29 Jun 2019 15:30:43 AEST

ID TAG SIZE COMMAND
a28c7b34ca 679.20kiB COPY file:1dc4cce0e59430462e9277b
fa4b5d3656 2.51kiB COPY file:023433ee488fb0be495da22
39923e2d34 232.00B COPY file:21bfa394d874f9add12dd13
62b1340036 0B WORKDIR /app
b4016cf6d7 0B ENV NODE_ENV=development
ce36200b46 0B ARG FURY_TOKEN
914bfdbef6 node:10-slim 0B CMD ["node"]
<missing> 4.83MiB /bin/sh -c set -ex && for key i
<missing> 0B ENV YARN_VERSION=1.13.0
<missing> 78.81MiB /bin/sh -c buildDeps='xz-utils'
<missing> 0B ENV NODE_VERSION=10.15.3
<missing> 325.54kiB /bin/sh -c groupadd --gid 1000 no
<missing> 0B CMD ["bash"]
<missing> 52.72MiB ADD file:4fc310c0cb879c876c5c0f57

PgUp/PgDn: scroll, esc/q: close, x: menu, ← → ↑ ↓: navigate
Donate unversioned
```



Why didn't I show this presentation in a shell?

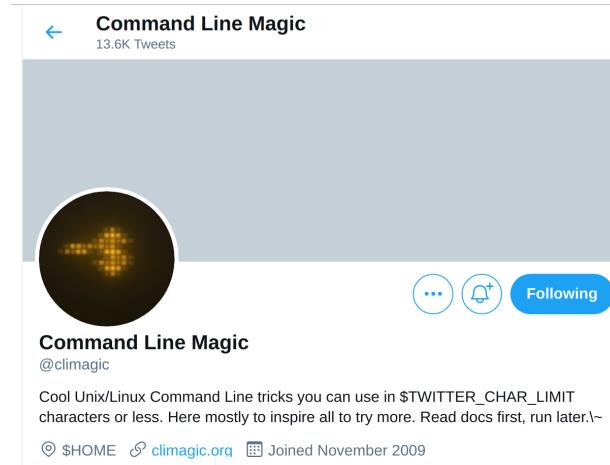
I've done it 😇

- 1.9k stars <https://github.com/jaspervdj/patat>
 - Haskell-based
 - plain CLI
 - no image support
 - no fallback

Resources

-  <https://mastodon.social/@climagic>
-  <https://mastodon.social/@nixCraft>
-  [r/commandline](https://www.reddit.com/r/commandline)
-  [r/unixporn](https://www.reddit.com/r/unixporn)
- search for "awesome-cli"

This talk was inspired by Martin Leyrer's session at Gulaschprogrammiernacht 19 (CCC).



Command Line Magic
13.6K Tweets

Following

Command Line Magic
@climagic

Cool Unix/Linux Command Line tricks you can use in \$TWITTER_CHAR_LIMIT characters or less. Here mostly to inspire all to try more. Read docs first, run later.:-)

② \$HOME ⌂ climagic.org Joined November 2009

12.2K Following 201.9t 48.8K Tweets



nixCraft
48.8K Tweets

... 🔍 Following

nixCraft
@nixcraft

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② Rootland ⌂ cyberciti.biz Joined November 2008

474 Following 221K Followers

I forgot your favorite tool?

- git-fuzzy <https://github.com/bigH/git-fuzzy>
- forgit <https://github.com/wfxr/forgit>
- mosh (robust replacement for ssh) <https://mosh.org/>
- fish_config (web-based configuration tool for fish shell)
https://fishshell.com/docs/current/commands.html#fish_config
- xclip (cli to X clipboard) 403 stars <https://github.com/astrand/xclip>
- neofetch (fancy system info in the shell) 7.7k stars
<https://github.com/dylanaraps/neofetch>
- expect <https://likegeeks.com/expect-command/>
- httpie (cli http client) 45k stars <https://httpie.org/>
- http-prompt (cli http client) 7.6k stars <http://http-prompt.com/>
- pywal (color schemes for terminal) 3.4k stars
<https://github.com/dylanaraps/pywal>
- ytfzf <https://github.com/pystardust/ytfzf> find YT videos and downloads them using youtube-dl
- figlet <http://www.figlet.org/> ascii art
- toilet <http://caca.zoy.org/wiki/toilet> ascii art
- apt-select (interactive ncurses package search for debian)
<https://www.rot13.org/~dpavlin/apt-select.html>
- gcalcli (google calender in the shell) 2k stars
<https://github.com/insanum/gcalcli>
- pastebinit (cli tool to send data to pastebin) 17 stars
<https://github.com/skorokithakis/pastebinit>
- MapSCII (ascii google maps in the terminal)
<https://github.com/rastapasta/mapscii>
- alwaysontop (always move prompt to top of screen) 160 stars
<https://github.com/swirepe/alwaysontop>
- wttr.in (ascii weather report) <https://github.com/chubin/wttr.in>
- gpt4free <https://github.com/xtekky/gpt4free>
- Fig <https://fig.io/> Autocomplete on-steroids
- xkcd.xsh <https://gist.github.com/Lassikko/9fb934732a871ca3c8bc9396983a3310>
- fx (json cli viewer) <https://github.com/antonmedv/fx>

Thank You!

- [!\[\]\(aa5c0656a8e4e2df1d99f989fa12681c_img.jpg\) patrick.drechsler@mathema.de](mailto:patrick.drechsler@mathema.de)
- [!\[\]\(6c14dc62386cd7fbc92b4bea3fa98584_img.jpg\) https://github.com/drapтик](https://github.com/drapтик)
- Blog: [!\[\]\(34194bf4e3ba19c69a3cb2bdd5946d27_img.jpg\) https://draptik.github.io](https://draptik.github.io)
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- [!\[\]\(4237292f17d7bc15b88e6c1f8fd1692e_img.jpg\) https://bsky.app/profile/drechsler.bsky.social](https://bsky.app/profile/drechsler.bsky.social)

Slides 

- QR Code or
- [!\[\]\(b91d0eadc949af6216f26003e90a8870_img.jpg\) https://draptik.github.io/2024-01-code-days-modern-linux-cli-tools](https://draptik.github.io/2024-01-code-days-modern-linux-cli-tools)

