



# modern linux cli tools

Patrick Drechsler

**ADC**



# Patrick Drechsler

- software developer
- ☀️ dotnet / C#
- 🌐 Linux on the desktop 😎
- slides are online: see QR-Code





## "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 ;-)      |
\                                /
-----\  ^_ ^
 \ (oo)\_____
  (__)\       )\/\
   ||----w |
   ||     ||
```



# 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``, ...)



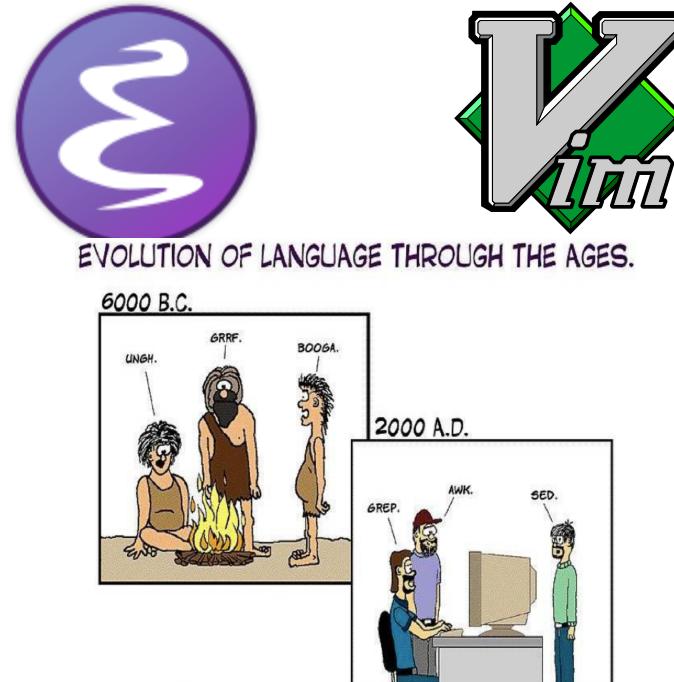
# Learn the basics

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

- **Emacs and Vim:**

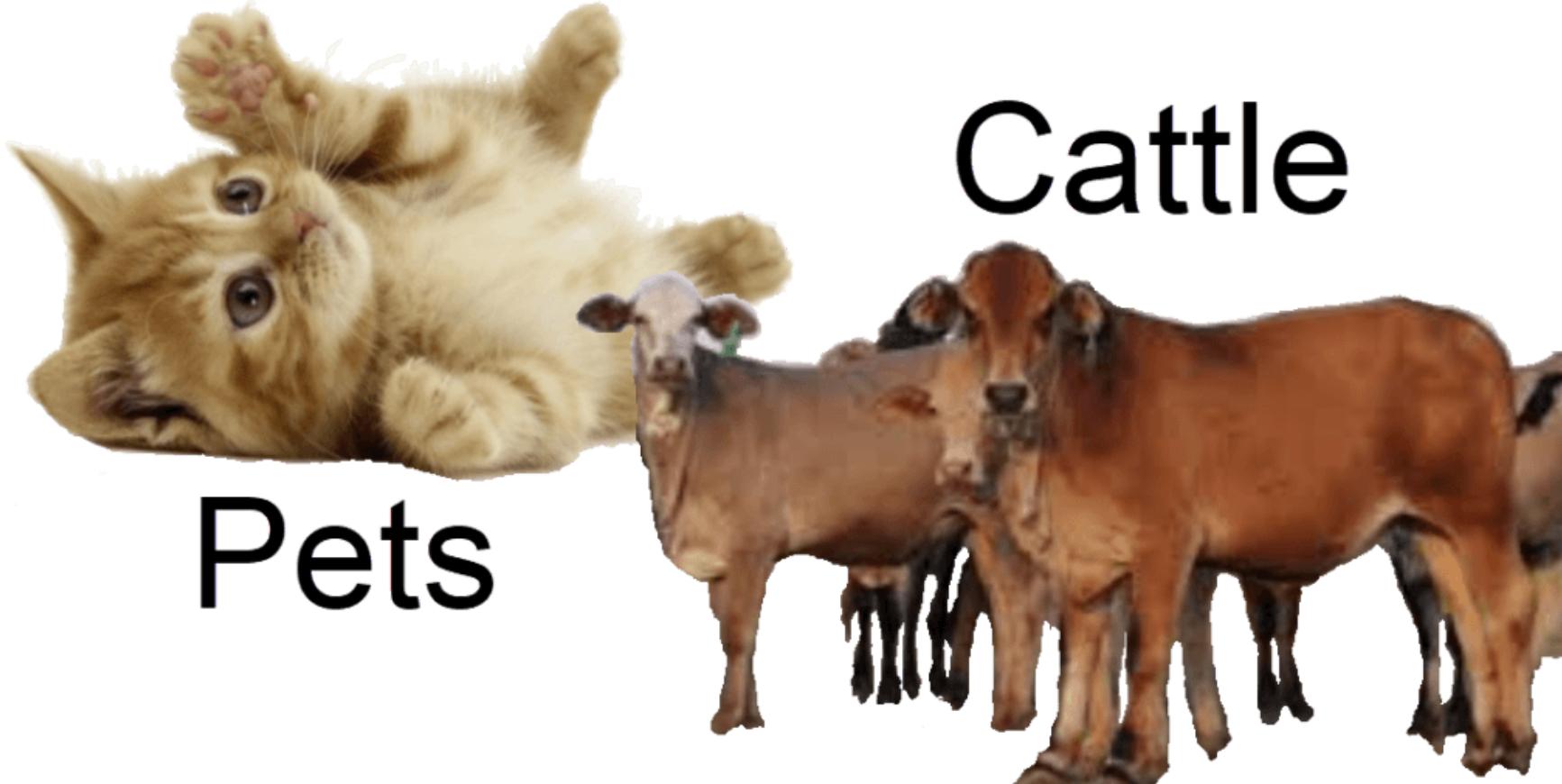
- navigation within file
- cut, copy & paste
- navigation between files
- and how to exit
- pick one and become fluent

- Learn basic cli commands: `cd` , `ls` ,  
`cat` , `less` , `find` , `grep` , `sed` ,  
`tail` , `awk` , `dd` , `rsync` , ...
- Combine using pipes and redirection



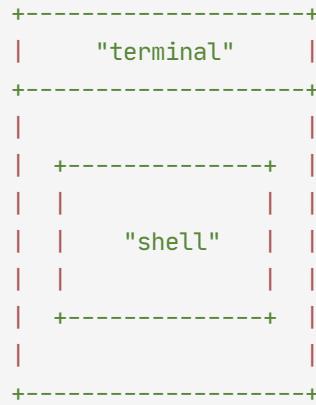


# Disclaimer





# 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

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
```

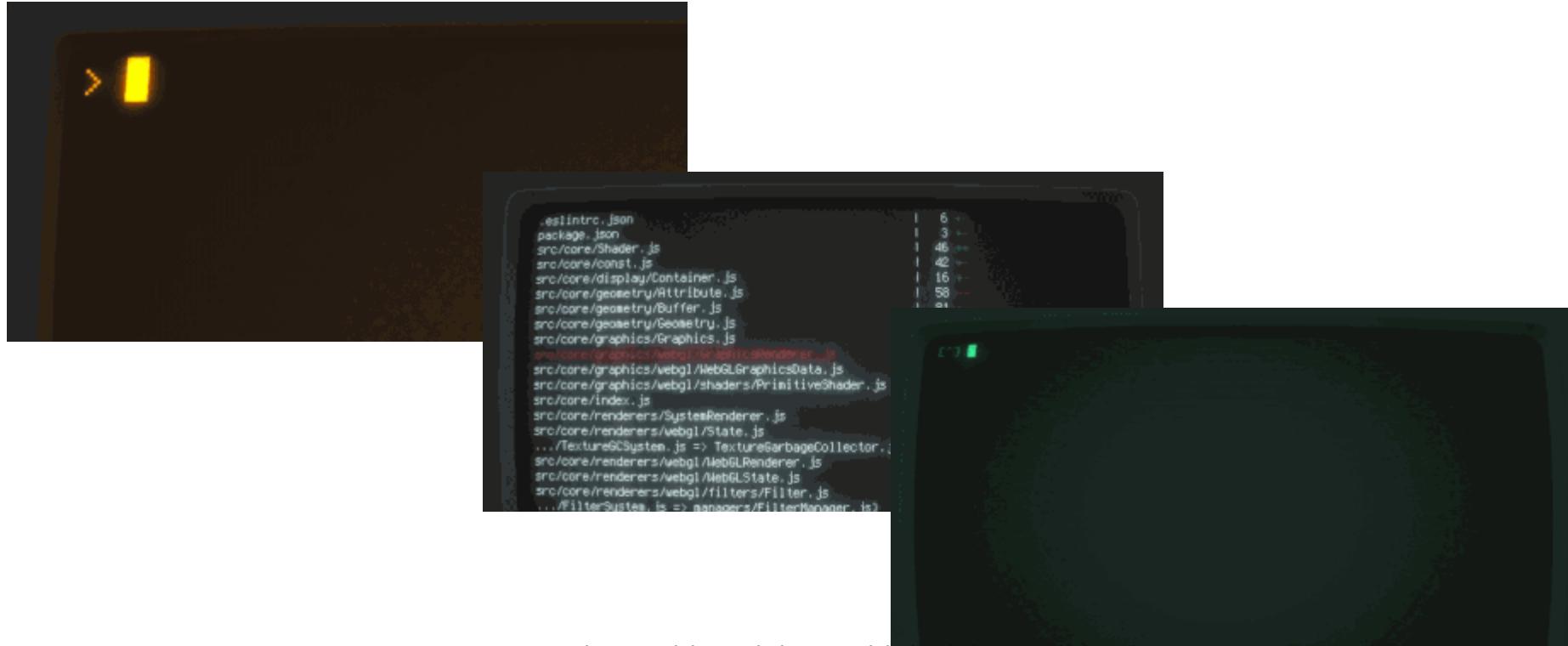
✓	bin/
✓	git/
✓	.git/
✓	obj/
✓	ApplicativeDemo.fsproj
✓	Demo1.fs
✓	Demo2.fs
✓	Demo3.fs
✓	.gitignore
✓	Program.fs
✓	README.md
✓	TestHelper.fs



# 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

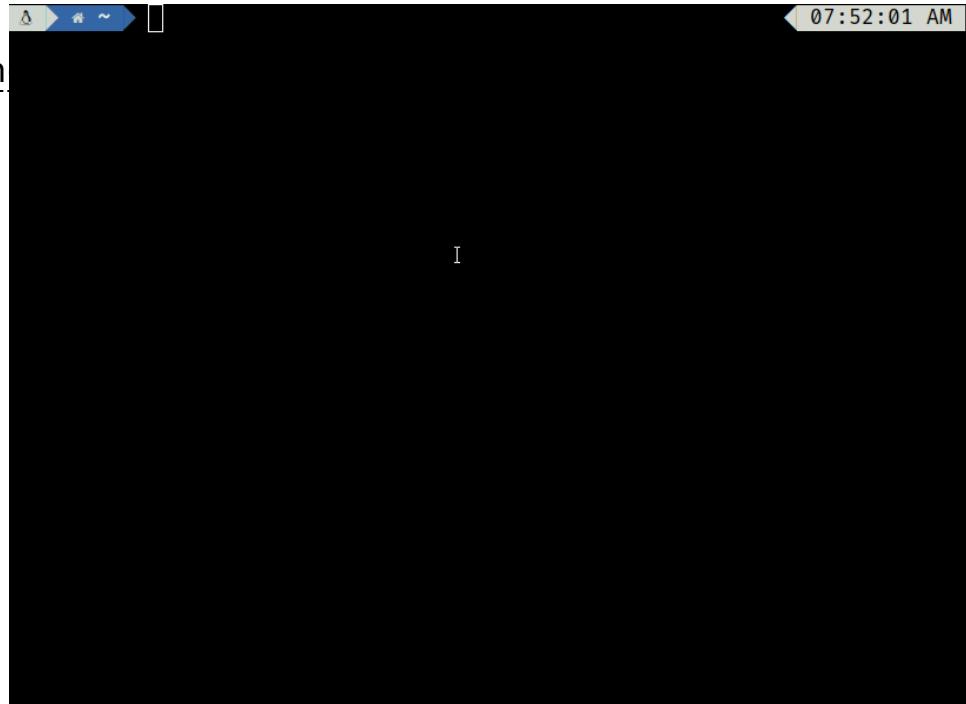
- bash
- zsh
- fish
- dash (embedded)



# 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: 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

```
~ > 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 > $
```



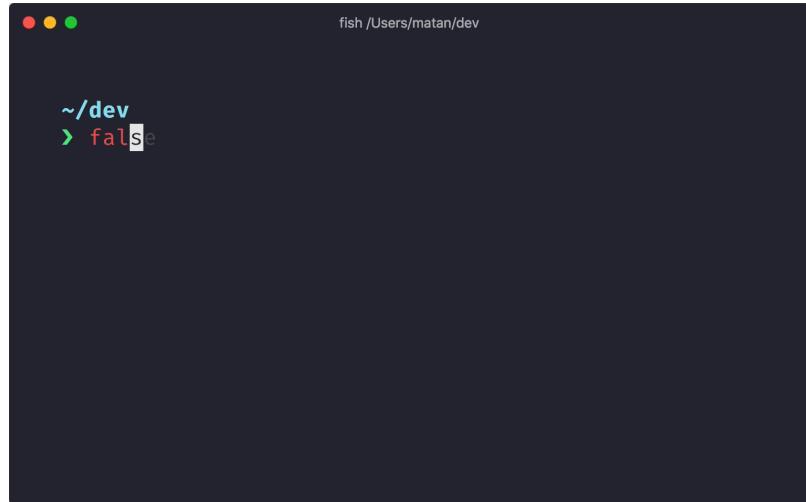
# PS1: Starship

the new kid on the block

- 33k stars <https://github.com/starship/starship>
- cross-plattform, 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!





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``



`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
```





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

A screenshot of a terminal window with a black background. At the top left, the time '15:11' and a tilde (~) are visible. A green cursor arrow points upwards. Below the terminal area, there is a large, empty black space.



another terminal file manager

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

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

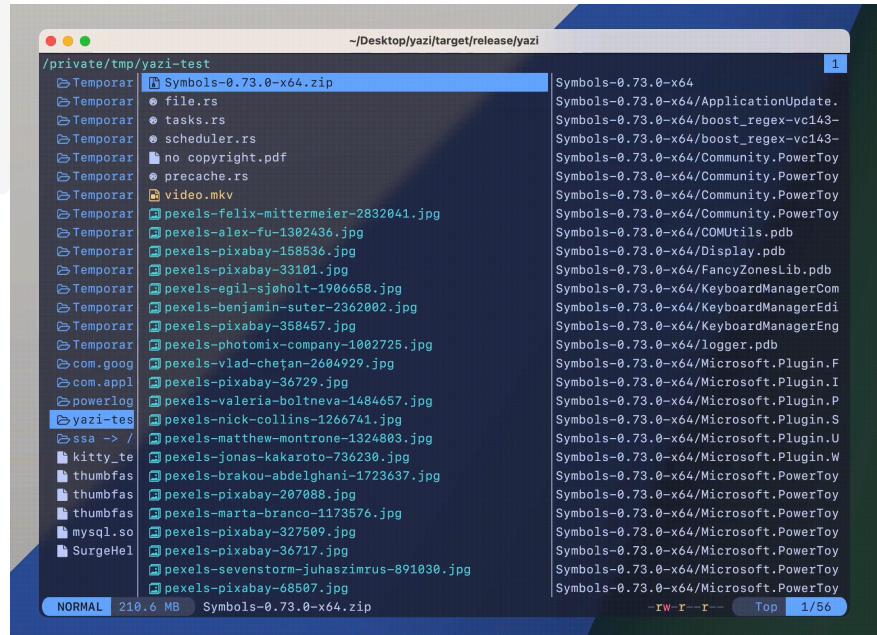
The screenshot shows a terminal window with the nnn file manager. The left pane displays a hierarchical file tree with directories like demo/, dev/, documents/, downloads/, music/, onedrive/, pictures/, server/, share/, torrents/, videos/, vimwiki/, and wine/. The right pane lists individual files with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



## 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](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

- ① 44k stars <https://tldr.sh/>
- clients implemented in many languages
  - js, ruby, python, perl, haskell, etc.
- shared user-contributed knowledge-base



- ② 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
```



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.*



``cat`` & ``less`` with syntax highlighting

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



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



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



sql for json (and other data formats)



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



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



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



- `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



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/
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
```



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

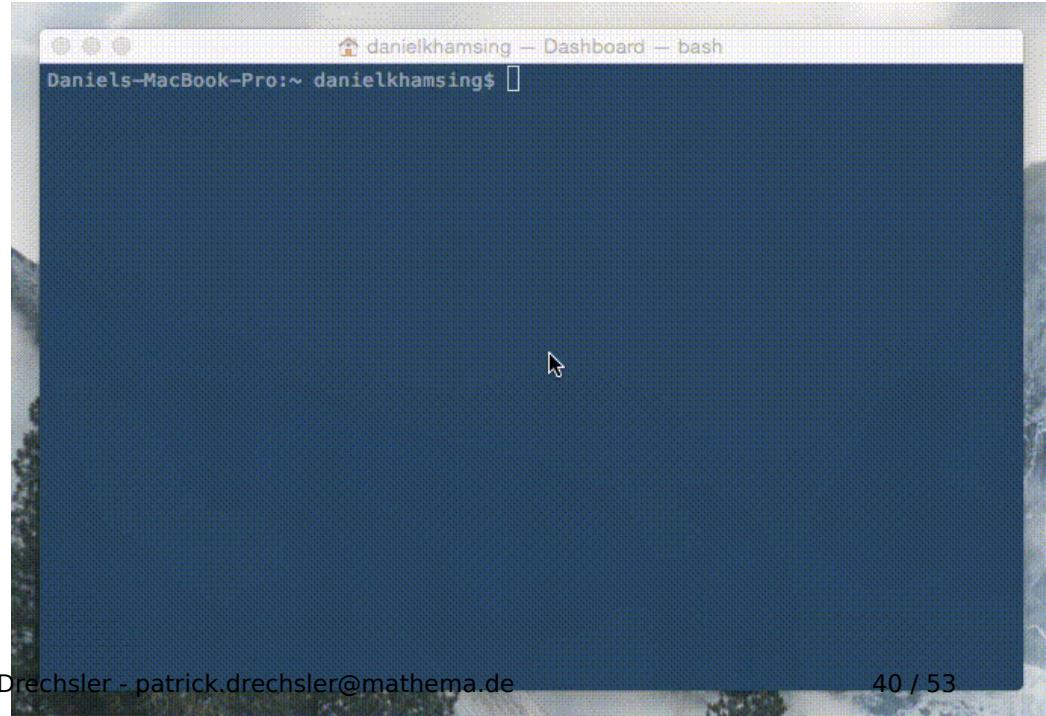


[brian@archtop ~]\$





- 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





## 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



fix common typos / mistakes

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

The screenshot shows a terminal window titled 'nvbn@nvbn-desktop: ~/exp/thefuck 76x18'. The command entered is 'thefuck git:(master) X'. The terminal displays the output of the thefuck command, which shows the corrected command: 'git push -u origin master'.

```
nvbn@nvbn-desktop: ~/exp/thefuck 76x18
→ thefuck git:(master) X
git push -u origin master
```



# 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>



- 7k stars <https://github.com/eza-community/eza>
- category: unix porn

```
drwxr-xr-x  patrick patrick 17 Jun 2023 | gh-pages
drwxr-xr-x  - patrick patrick 19 Jun 2023 | gh-pages
drwxr-xr-x  - patrick patrick  4 Jun 2023 + main
drwxr-xr-x  - patrick patrick 23 Jun 2023 | gh-pages
drwxr-xr-x  - patrick patrick 17 Nov 2023 | gh-pages
drwxr-xr-x  - patrick patrick 12 Dec 2023 | it-tage-
drwxr-xr-x  - patrick patrick 10 Jan 05:35
drwxr-xr-x  - patrick patrick  4 May 2023 | main
drwxr-xr-x  - patrick patrick 28 Apr 22:50 | 2024-mag...
drwxr-xr-x  - patrick patrick 13 Apr 02:03 | main
drwxr-xr-x  - patrick patrick  6 Jul 2022 - -
drwxrwxr--  - patrick patrick 19 Feb 21:18 | main
drwxr-xr--  - patrick patrick  8 Jan 02:58 | master
drwxr-xr-X  - patrick patrick 26 Jun 2023 | main
drwxr-xr-X  - patrick patrick 22 Oct 2019 - -
drwxr-xr-X  - patrick patrick  3 Apr 2023 | main
drwxr-xr-X  - patrick patrick  8 Feb 2023 | main
drwxr-xr-X  - patrick patrick 10 Dec 2018 | master
drwxrwxr-X  - patrick patrick 31 Aug 2020 - -
drwxrwxr-X  - patrick patrick  5 Nov 2023 - -
drwxrwxr-X  - patrick patrick 27 Aug 2018 - -
drwxrwxr-X  - patrick patrick 14 Feb 09:33 - -
.rw-r--r--  87K patrick patrick 27 Aug 2018 - -
.rw-r--r--  9.5M patrick patrick 14 Feb 09:33 - -
```

2023-06-ctool-and-modern-linux-cli-tools  
2023-06-dwx-fp-csharp-to-fsharp  
2023-06-my-coding-zone-error-handling  
2023-06-socrates-day-frankenstein-modern-linux-cli-tools  
2023-12-it-tage-fp-intro-csharp-fsharp  
2023-fp-intro-csharp-fsharp  
2023-gregor  
2023-mathema-sample-slides  
2023-modern-linux-cli-tools  
2024-04-mathemacampus-approval-testing  
\_other\_people  
abstracts  
abstracts.orig  
draptik  
ideas-workshop-testing  
jeopardy-questions  
mathema-teamday-opensource  
reveal-js-template  
template  
tmp  
drechsler-profile.jpg  
'Mathema Campus-ppt-Vorlage.pptx'

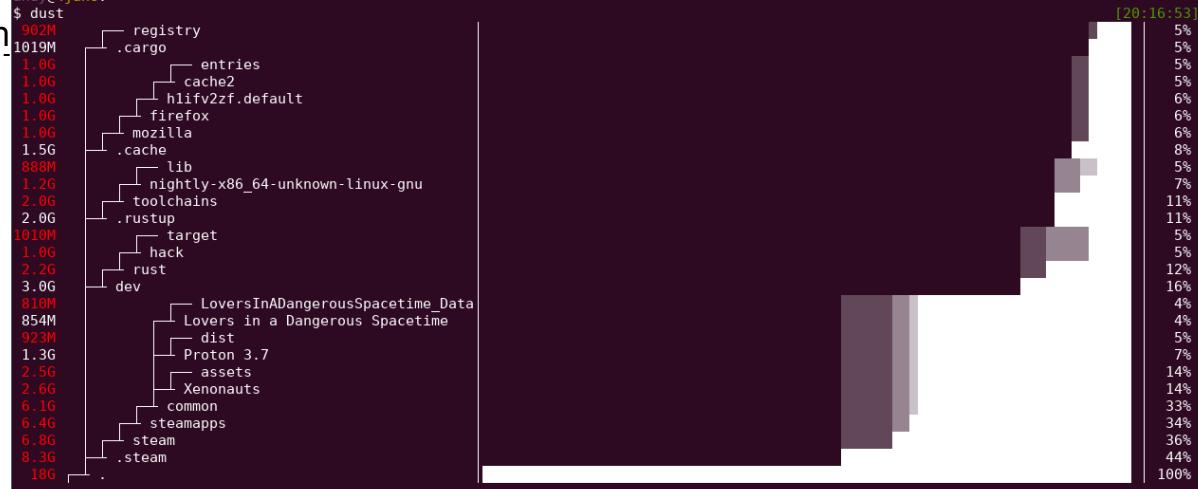


# du alternatives



``du`` in the name

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





- <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@nixcra
iti.biz" | boxes -d dog
          _,-"--="---,-_
         / \ \ ." .-.- ."-". / \ \
        / , /   : :   / \ \ | \_ \
       \ ' | /o\ \ :_ : /o\ \ | \_ \
      - ' | :="-` ~"=:= | "
         \  ( )  ' /
          .."-.. \   /   ."-..
         .---{ }---| / , .-.-., \ | ---{ }---.
          ) ( _ ) _ ) \ / ~--===-~` \ / ( _ ( _ ) (
          ( _ ) _ ) )
          ) Vivek Gite (
          ( vivek@nixcraft.com )
          ( www.cyberciti.biz )
```



# chatGPT-shell-cli

2023 - no presentation without the current hype: ChatGPT

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

```
> 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



## Everything lazy\*

### ■ lazydocker

- 27k stars <https://github.com/jesseduffield/lazydock>

### ■ 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 b9a432a2d4d6366f9a9434aff8a
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
```

```
github.com/jesseduffield/lazygit test-branch ✘
git
```



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

I've done it 😇

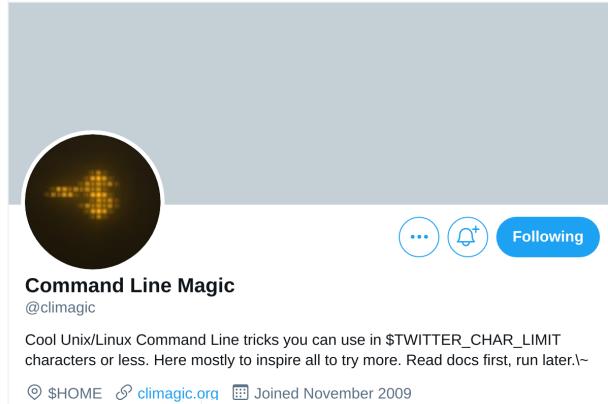
- ◉ 1.9k stars <https://github.com/jaspervdj/patat>
  - Haskell-based
  - plain CLI
- no image support
- no fallback



# Resources

- [@climagic](https://mastodon.social/@climagic)
- [@nixCraft](https://mastodon.social/@nixCraft)
- [r/commandline](#)
- [r/unixporn](#)
- search for "**awesome-cli**"

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



**Command Line Magic**  
@climagic  
13.6K Tweets

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.:-)

⌚ \$HOME ⌚ climagic.org 📅 Joined November 2009  
12.2K Following 201.9t [nixCraft](#) 48.8K Tweets



**nixCraft**  
@nixcraft  
48.8K Tweets

Linux Tips, Hacks, Tutorials, And Ideas In Blog

**nixCraft**  
@nixcraft  
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[opensourceflare.com](#)

⌚ 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](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-iselect (interactive ncurses package search for debian)  
<https://www.rot13.org/~dpavlin/apt-iselect.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/mapscki>
- 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/Lassi-Koykka/9fb934732a871ca3c8bc9396983a3310>
- fx (json cli viewer) <https://github.com/antonmedv/fx>



# Thank You!

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- Blog: <https://draptik.github.io>
- [@drechsler@floss.social](mailto:@drechsler@floss.social)
- <https://www.linkedin.com/in/patrick-drechsler-draptek/>
- <https://bsky.app/profile/drechsler.bsky.social>

Slides

- QR Code (top) or
- <https://draptik.github.io/2024-05-adc-modern-linux-cli-tools>

Feedback

- QR Core (bottom) <https://forms.office.com/e/tn5gDB40xk>

