



modern linux cli tools

Sandra Parsick & Patrick Drechsler



Sandra Parsick

- freiberufliche Software Entwicklerin
- Beruflich: Java, IaC
- Interessen:
 - Software Crafting
 - Test-Driven Development
 - Developer Experience
 - Automatisierung von Entwicklungsprozessen



Patrick Drechsler

- Software Entwickler bei MATHEMA GmbH
- Beruflich: dotnet (C#)
- Interessen:
 - Software Crafting
 - Test-Driven Development
 - Funktionale Programmierung
 - Domain-Driven Design





"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`` , ...)



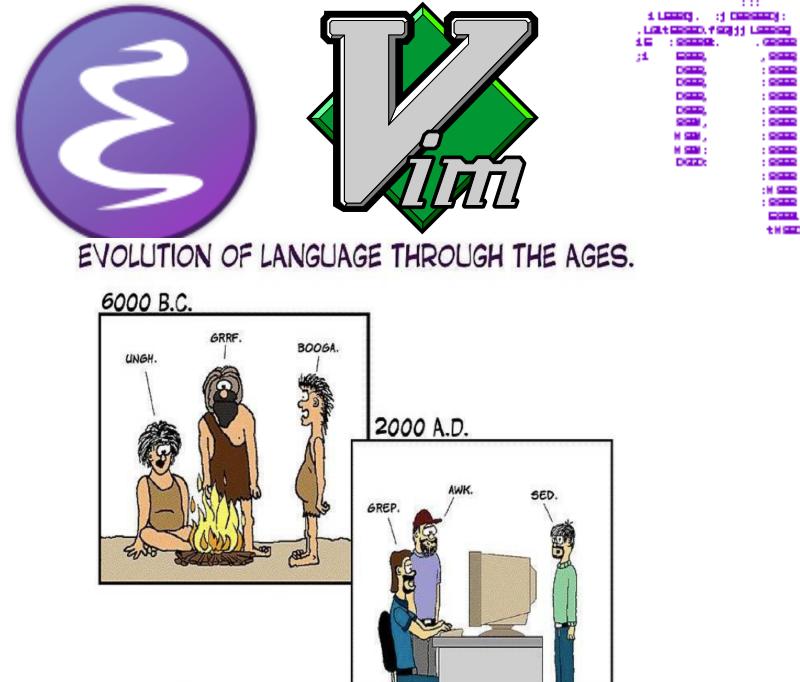
Learn the basics

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

- **Emacs, Vim or nano:**

- 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



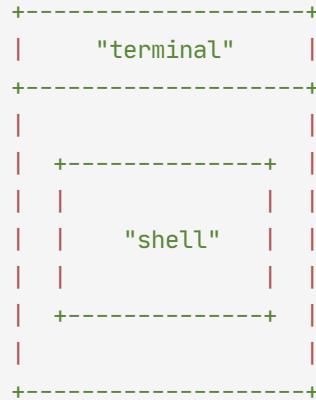
Pets

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

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
r--r--- 1 patrick 1 KiB Tue Jun 15 20:30:51 2021
r--r--- 1 patrick 2 KiB Tue Jun 15 20:30:51 2021
r--r--- 1 patrick 2 KiB Tue Jun 15 20:30:51 2021
r--r--- 1 patrick 3 KiB Tue Jun 15 20:30:51 2021
r--r--- 1 patrick 7 KiB Tue Jun 15 20:32:16 2021
r--r--- 1 patrick 47 B Tue Jun 15 20:30:51 2021
r--r--- 1 patrick 224 B Tue Jun 15 20:30:51 2021
r--r--- 1 patrick 352 B Tue Jun 15 20:30:51 2021
```

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



Terminals

Linux:

- Konsole (Default-Terminal of KDE)
- Tilix

Mac: iterm2

More "modern" Terminals:

- warp
- Hyper

The screenshot shows a dark-themed terminal window titled 'Per' with three colored window controls (red, yellow, green) at the top. The main area displays the following text:
▲ ~ # Hyper is an Electron-based terminal
▲ ~ # Built on HTML/CSS/JS
▲ ~ # Fully extensible
▲ ~ # Install themes and plugins from the command line
▲ ~ hyper i hyper-rose-pine
hyper-rose-pine installed successfully!
▲ ~ █

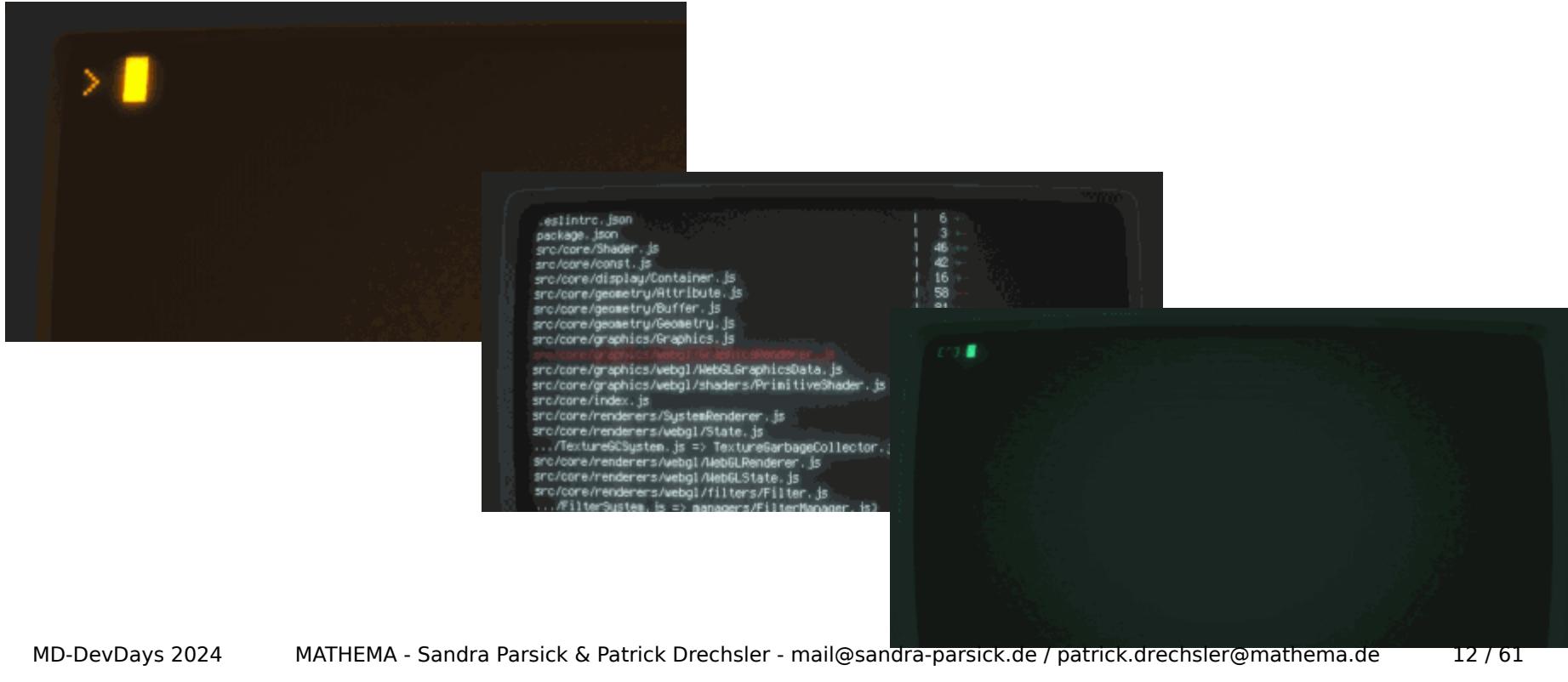
A blue button labeled 'Save workflow' is visible in the bottom right corner of the terminal interface.



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)



Sandra's Favourite Shell: zsh

Reasons:

- Movement from bash was easier
- Because of the framework `oh-my-zsh`



oh-my-zsh Shortcuts

```
# Switching directory
<directory name>'cd <directory name>
..='cd ..'
...='cd ../..'

# Create directory
md='mkdir -p'

# List directory content
l='ls -lah'
ll='ls -lh'
```



oh-my-zsh Plugins

```
$ cat ~/.zshrc

# Which plugins would you like to load? (plugins can be found in ~/.oh-my-zsh/plugins/*)
# Custom plugins may be added to ~/.oh-my-zsh/custom/plugins/
# Example format: plugins=(rails git textmate ruby lighthouse)
# Add wisely, as too many plugins slow down shell startup.
plugins=(sdk git jump z extract history web-search history-substring-search
        mvn gitignore zsh-autosuggestions kubectl sublime asciidoctor ansible vagrant )
```

oh-my-zsh in Action

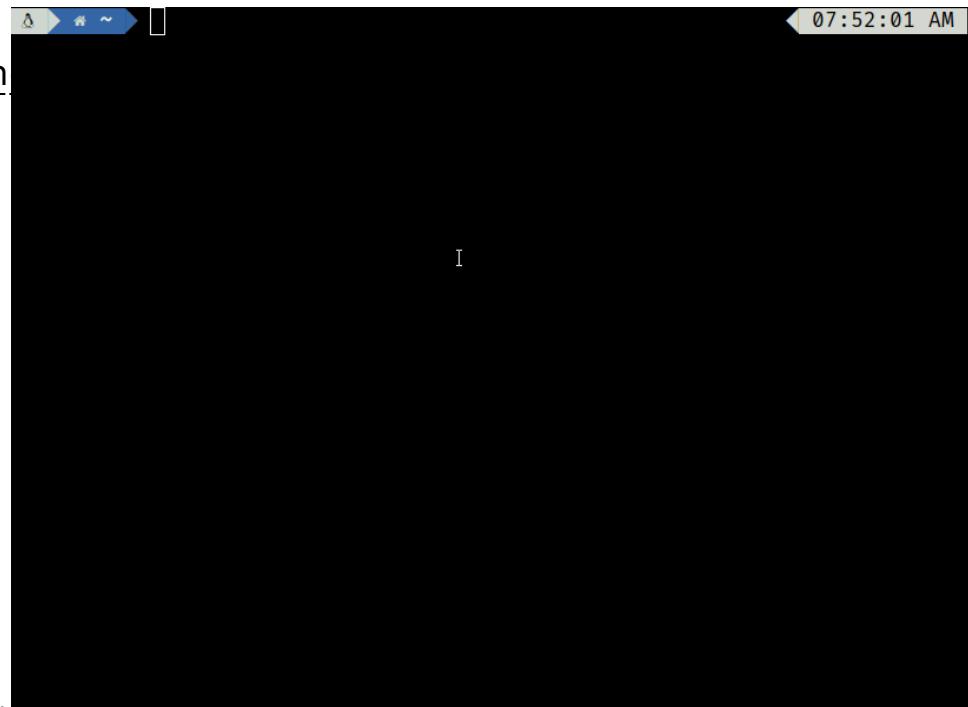
1



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)



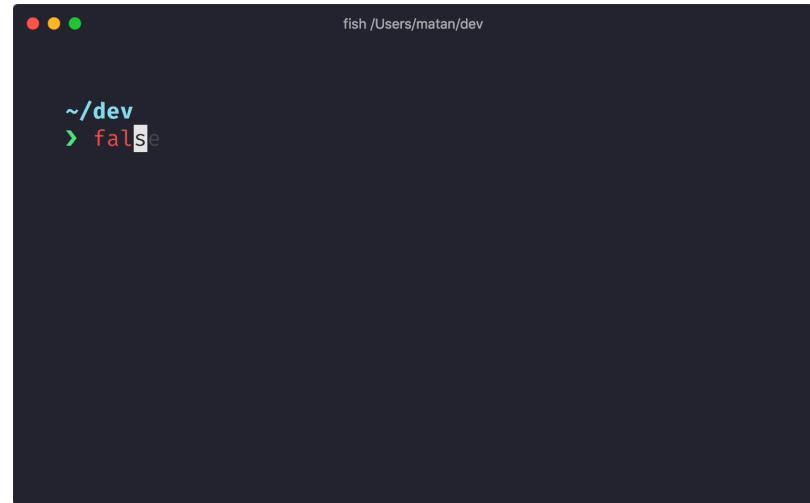
PS1: Starship

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



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

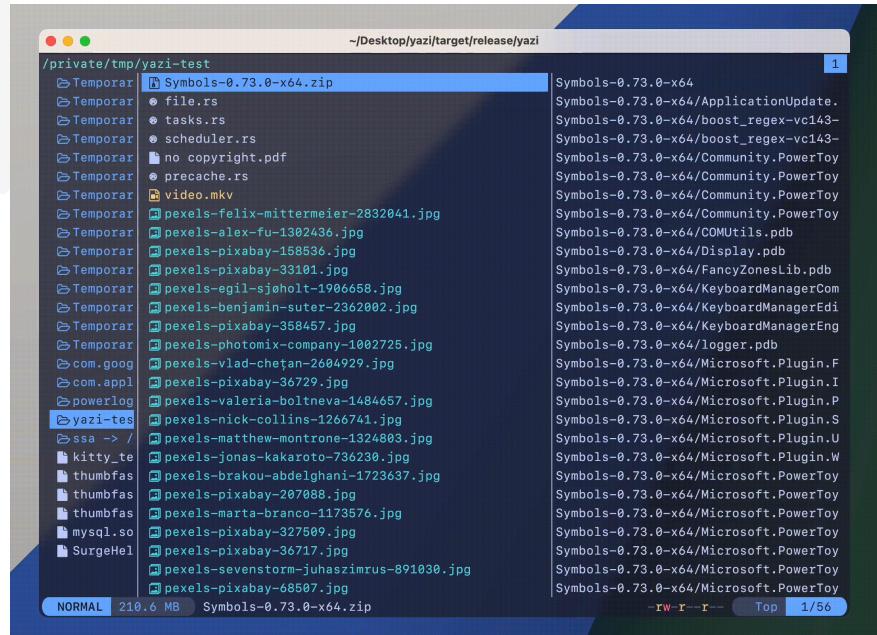
- 13k stars <https://ranger.github.io>
- 2 layout options
 - miller columns ("mac" style)
 - multipane (similar to Midnight commander)
- powerful preview mode and program launcher (word, music, ...)
 - with image support for certain terminals (`iTerm2`, `urxvt`, `kitty`) not `gnome-terminal` (!)
- key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



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

- 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
```



reverse engineering shell commands

■ <https://explainshell.com/>

The screenshot shows the explainsHELL website interface. At the top, there's a navigation bar with the site's logo, a search bar containing 'find . -type f -print0', and a 'theme' dropdown. Below the navigation, the command 'find(1) . -type f -print0' is shown with a hierarchical tree diagram. A green box highlights the first part 'find(1) . -type f -print0'. A blue box highlights the '-type f' part. A red box highlights the '-print0' part. Below the tree, the command is expanded into its components: 'search for files in a directory hierarchy' (highlighted in green), 'find [-H] [-L] [-P] [-D debugopts] [-Olevel] [path...] [expression]' (highlighted in orange), '-type c' (highlighted in blue), and '-print0' (highlighted in red). The '-type c' section provides a detailed list of file types:

- b block (buffered) special
- c character (unbuffered) special
- d directory
- p named pipe (FIFO)
- f regular file
- l symbolic link; this is never true if the -L option or the -follow option is in effect, unless the symbolic link is broken. If you want to search for symbolic links when -L is in effect, use -xtype.
- s socket
- D door (Solaris)

The '-print0' section contains the following text:

True; print the full file name on the standard output, followed by a null character (instead of the newline character that -print uses). This allows file names that contain newlines or other types of white space to be correctly interpreted by programs that process the find output. This option corresponds to the -0 option of xargs.



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.

Also have a look at atuin: <https://github.com/atuinsh/atuin>



``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` ?)...



Code Searching Tool

<https://geoff.greer.fm/ag/>



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)

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.

yq

- `jq` , but for YAML
- <https://mikefarah.gitbook.io/yq/>
- understand also JSON, XML



Managing Development Environment

sdkman

Management for JDK Tools <https://sdkman.io/>

```
 sdk list
 sdk list maven
 sdk install maven 3.8.6
 sdk use java 8.0.282.hs-adpt
 sdk env init
```

nvm

Management multiple Nodejs version on your machine

<https://github.com/nvm-sh/nvm>

```
 nvm install 16
 nvm use 16
 nvm alias default 8.1.0
```



Understanding new Code Repositories

cloc

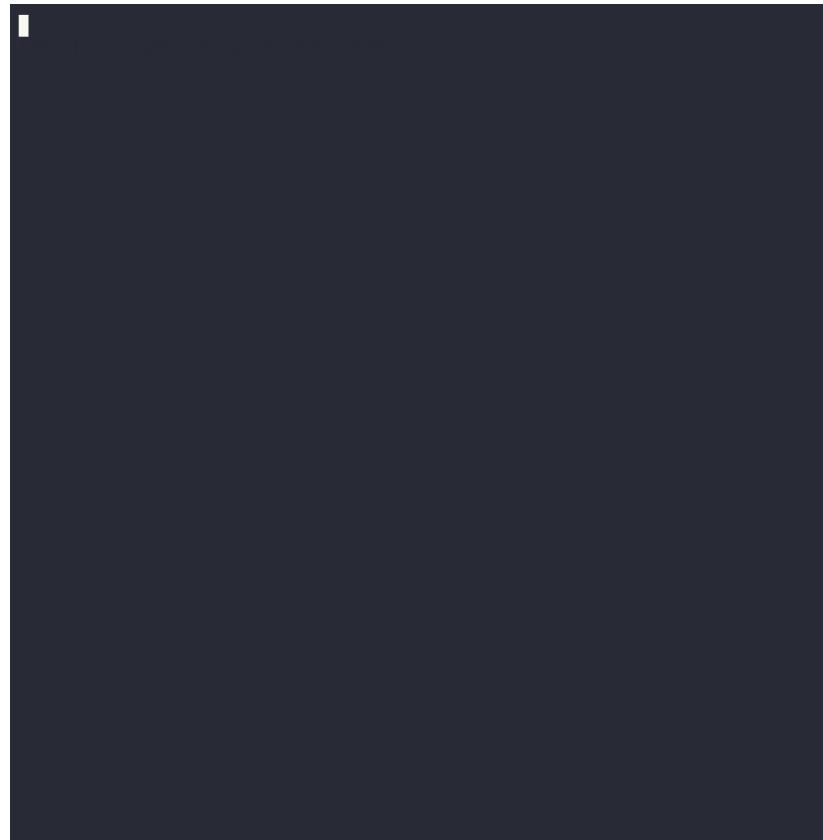
``cloc`` counts empty line, lines of comments and lines of code in different programming language

<https://github.com/AIDanial/cloc>

scc (Sloc Cloc and Code)

``scc`` is similar to ``cloc``, but it also calculate the code complexity

<https://github.com/boyter/scc>





alternative to ``wget`` and ``curl``

<https://httpie.io/cli>



Containertools

dive

Docker Image Inspector

<https://github.com/wagoodman/dive>



Containertools

trivy

Vulnerability/Misconfiguration/Secret Scanner for container

<https://aquasecurity.github.io/trivy>





Containertools

k9s

K8s manager

<https://k9scli.io/>





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.
```



watch

- Built-in Linux command
- Repeat defined commands in a loop





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

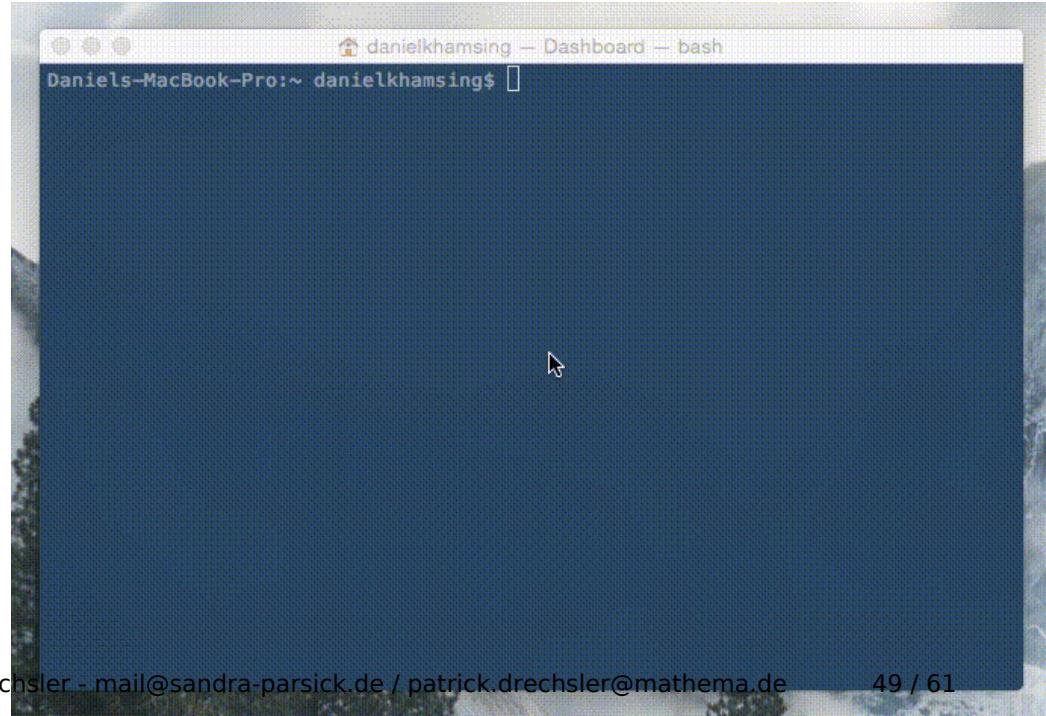


[brian@archtop ~]\$





- 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

→ thefuck git:(master) X



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-x  - 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 - -
```

The terminal output shows a file listing with several files highlighted by red boxes and arrows:

- A red box highlights the file `main`, which is a directory containing `gh-pages` and `it-tage-`.
- A red box highlights the file `2024-mag...`, which is a file modified on April 28, 2024.
- A red box highlights the file `master`, which is a directory containing `main` and `it-tage-`.
- A red box highlights the file `Mathema Campus-ppt-Vorlage.pptx`, which is a large file (9.5M) modified on February 14, 2024.
- A red arrow points from the `main` directory to the `2024-mag...` file.
- A red arrow points from the `master` directory to the `Mathema Campus-ppt-Vorlage.pptx` file.
- A red arrow points from the `main` directory to the `Mathema Campus-ppt-Vorlage.pptx` file.



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>





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
      _,-,--="---,-
     / \ .":=~-`~-":=
    : : / \ | \_/
   \| / \_(`) `/ .
  .-".-."-.
 .-{ }--| / , -.-\ | --{ }--.
 ) (_)__) \_/_`-==~-`\_/_ ( _(_)_ ( )
( ) Vivek Gite
( vivek@nixcraft.com )
) www.cyberciti.biz (
```



monitoring

Everything *top

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



lazy*

Everything lazy*

- lazydocker
 - ② 27k stars <https://github.com/jesseduffield/lazydocker>
 - lazygit
 - ② 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 68473898e49e04d2c599f868c79
local 90d4357f8a93810ee8f2a59671e7
local b9a4a32azd4d6366f9a9434aff8a
local bc80a55695b8d780db6fbe5af31a

Config
Name: <none>
ID: sha256:a28c7b34ac8c23430c15a6c1a6738e998859057848457cf05
Tags: <none>,<none>
Size: 144.02MB
Created: Sat, 29 Jun 2019 15:30:43 AEST

ID          TAG            SIZE      COMMAND
a28c7b34aca    679.20kiB  COPY file:1dc4cce0e59439462e9277b
fa4b5d3656     2.51kiB   COPY file:023433ee488fb0be495da22
39923e2d34     232.00B   COPY file:21bfa394d874f9add1dd13
62b1340036     0B         WORKDIR /app
b4016cf6d7     0B         ENV NODE_ENV=development
ce36200b46     0B         ARG FURY_TOKEN
914bfdbef6     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:4fc310c0cb879c876c50f57
```

github.com/jesseduffield/lazygit-test-branch



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



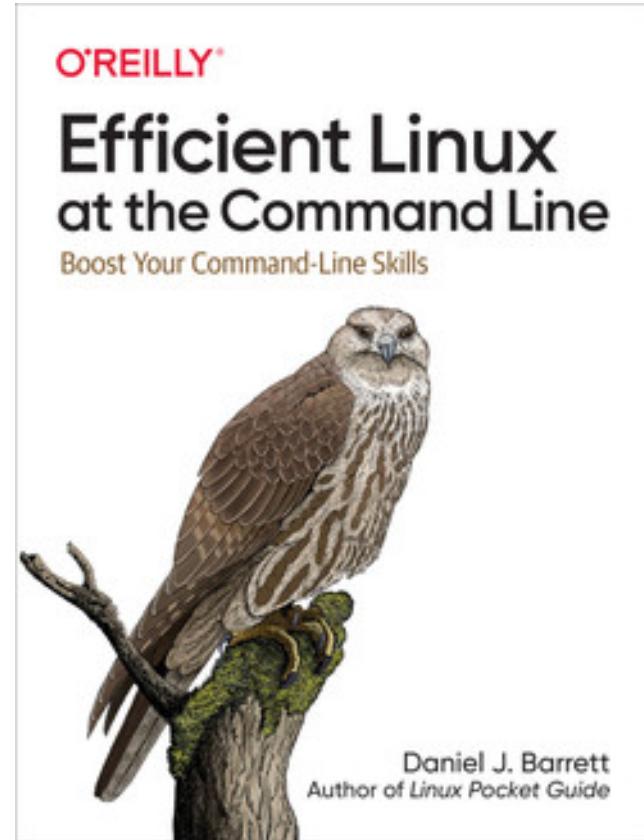
nixCraft
@nixcraft
48.8K Tweets

Linux Tips, Hacks, Tutorials, And Ideas In Blog

⌚ Rootland ⌚ cybergit.biz 📅 Joined November 2008
474 Following 221K Followers



Awesome book



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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>
- expect <https://likegeeks.com/expect-command/>
- http-prompt (cli http client) 7.6k stars <http://http-prompt.com/>
- pywal (color schemes for terminal) 3.4k stars <https://github.com/dylanaaraps/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>

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Slides

- QR Code 
- or <https://draptik.github.io/2024-05-magdeburger-devdays-modern-linux-cli-tools>

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