

My favorite terminal tools

Be cool in the terminal

1. Toppers

1.1 top

Die krijg je er gratis bij maar ...

Omdat het er is wil niet
zeggen dat het goed is

```
top
Processes: 809 total, 4 running, 1 stuck, 804 sleeping, 3975 threads
Load Avg: 2.89, 2.77, 3.00  CPU usage: 6.99% user, 4.32% sys, 88.67% idle  SharedLibs: 839M resident, 122M data, 59M linkedit.
MemRegions: 0 total, 0B resident, 329M private, 8040M shared. PhysMem: 32G used (4809M wired, 1383M compressor), 94M unused.
VM: 58T vsize, 5224M framework vsize, 13481073(0) swapins, 14352143(0) swapouts. Networks: packets: 42955580/49G in, 15135127/4656M out.
Disks: 22479741/359G read, 24877578/359G written.

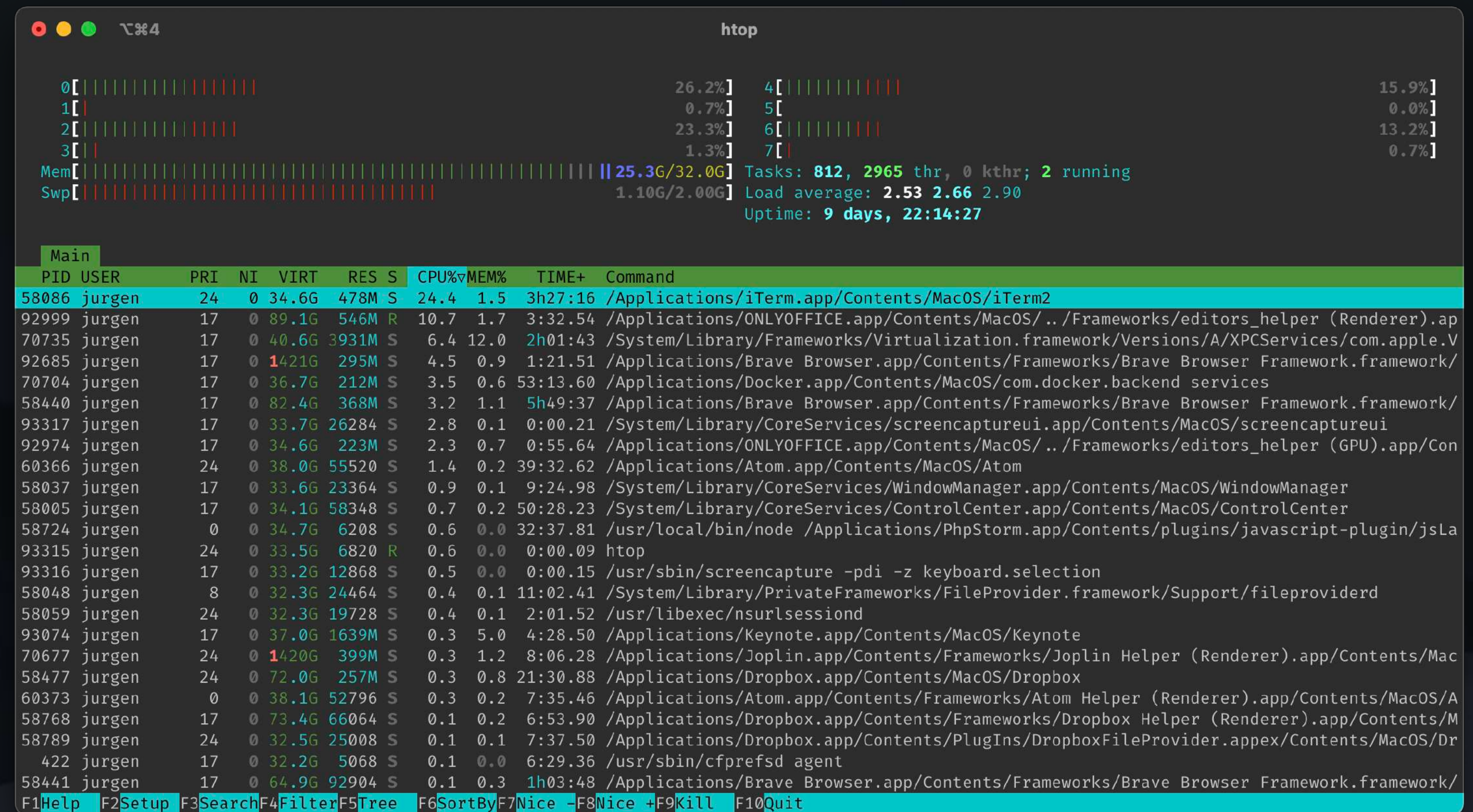
PID    COMMAND      %CPU  TIME    #TH   #WQ   #PORTS MEM    PURG    CMPRS  PGRP  PPID  STATE   BOOSTS      %CPU_ME %CPU_OTHR UID
58086  iTerm2        27.3  03:26:39 9/1    6     510-   316M+  336K-   26M   58086 1      running *0[15693]    0.22069 0.00000 501
93275  top           11.4  00:02:56 1/1    0      29     9652K+ 0B      0B    93275 72213 running *0[1]      0.00000 0.00000 0
92999  editors_help  9.7   03:14:49 14      1     431    223M   0B      0B    92967 92967 sleeping *0[4]      0.00000 0.00000 501
70735  com.apple.Vi  5.8   02:01:32 19      1      75     2595M  0B      39M   70735 1      sleeping *4[3]      0.00000 0.00000 501
92685  Brave Browse  4.4   01:13:76 15/1    1     253    161M-  0B      0B    58026 58026 running *3[29178] 0.00000 0.00000 501
93277  screencaptur 3.8   00:00:22 10      8     196+   9280K+ 0B      0B    93277 1      sleeping *0[4+]    2.18293 0.11656 501
58440  Brave Browse  3.2   05:49:31 20      3     421    362M-  612M+  36M   58026 58026 sleeping *1[85460] 0.00000 0.00000 501
57952  WindowServer 3.1   11:36:19 16      6     4683   1455M- 505M   133M- 57952 1      sleeping *0[1]      0.24928 0.48932 88
70704  com.docker.b  2.9   53:07:24 238     1     665    93M    0B      2276K 70703 70703 sleeping *0[144]    0.00000 0.00000 501
0      kernel_task  2.8   08:22:26 243/8  0      0      467M   0B      0B     0      0      running  0[0]      0.00000 0.00000 0
58026  Brave Browse  2.4   05:24:37 50      1     5161-  712M+  0B      302M   58026 1      sleeping *3113538[8] 0.00000 0.00000 501
92974  editors_help  2.0   00:51:70 17      1     174    528M-  21M    0B    92967 92967 sleeping *1[5]      0.00000 0.00000 501
58037  WindowManage 1.8   09:21:96 5        2     317    19M+   0B      5244K 58037 1      sleeping *0[97708+] 0.00468 1.19657 501
60366  Atom          1.3   39:30:22 27      1     478    147M+  384K   117M   60366 1      sleeping *0[975]    0.00000 0.00000 501
92967  ONLYOFFICE    1.3   00:57:98 21      2     504    91M    472K   0B    92967 1      sleeping *0[352]    0.00000 0.00000 501
389    TouchBarServ 0.8   40:09:73 7        3     618    38M+   5952K+ 7484K  389    1      stuck   *0[1]      0.27900 0.08043 0
93276  screencaptur 0.8   00:00:08 8        7     74+    4780K+ 60K     0B    58106 58106 sleeping *0[6+]    0.00000 0.77642 501
58104  phpstorm      0.7   02:13:07 113     1     637    2860M  0B      297M   58104 1      sleeping *0[27991]    0.00000 0.00000 501
78163  duetexpertd   0.7   01:56:55 3        2     185+   8412K+ 632K   2100K  78163 1      sleeping 0[708]    0.00000 0.00000 501
58005  ControlCente 0.6   50:27:23 7        2     663    57M    0B      13M   58005 1      sleeping *0[28400]    0.06092 0.06868 501
58477  Dropbox       0.4   21:30:48 125     1     1933   324M   0B      99M   58477 1      sleeping *0[27413+] 0.00000 0.14780 501
246    systemstatus  0.4   01:20:85 6        5     71+    2708K+ 0B      1388K  246    1      sleeping 0[8097]    0.00000 0.36722 0
70677  Joplin Helpe  0.3   08:05:42 17      1     174    198M   0B      8764K 70674 70674 sleeping *3[243441] 0.00000 0.00000 501
58724  node          0.3   32:37:09 13      1     50     157M   0B      152M   58104 58104 sleeping *0[1]      0.00000 0.00000 501
60373  Atom Helper   0.2   07:34:95 22      1     223    138M   0B      119M   60366 60366 sleeping *1[4]      0.00000 0.00000 501
101    fseventsd     0.1   25:30:27 13      1     205-   4136K- 0B      904K   101    1      sleeping *0[1]      0.00722 0.00000 0
144    locationd     0.1   47:17:29 6        3     316    29M    272K   13M    144    1      sleeping 0[105201] 0.49421 0.00000 205
242    audioclocksy  0.1   08:03:64 3        2     51     4488K  0B      3168K  242    1      sleeping *0[1]      0.00000 0.00000 0
345    com.apple.Ap  0.1   64:09:96 4        3     371+   2900K+ 0B      584K   345    1      sleeping 0[1]      0.00000 0.00000 270
```

1.2 htop

Heeft al wat meer ‘funkt’

Voor sommige vast een bekende toppert. Geeft al een beter overzicht.

```
$ apt install htop      # Debian
$ dnf install htop      # Fedora
$ pacman -S htop        # Arch
$ brew install htop     # Mac
```

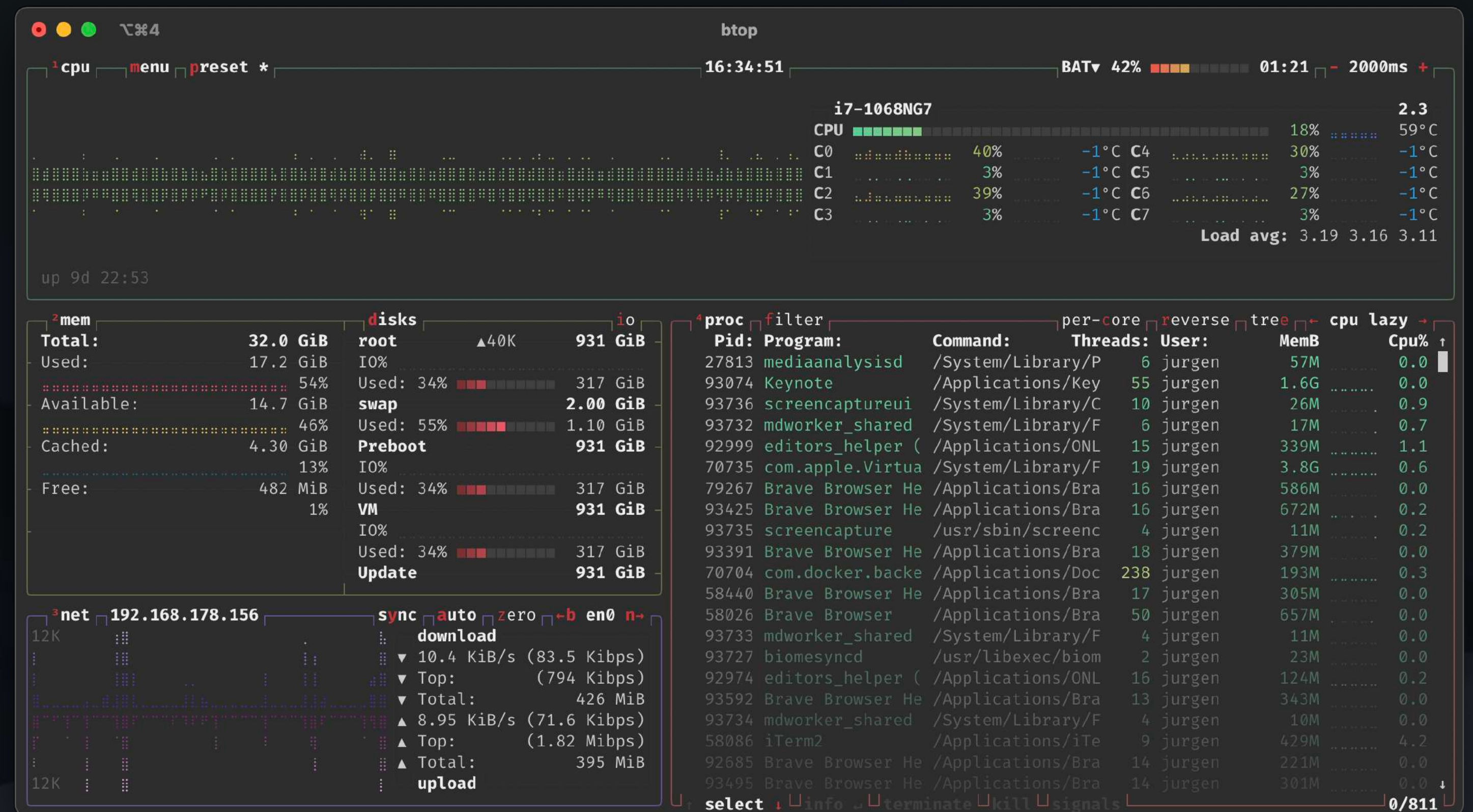


1.3 btop

Mijn absolute toppert

Doet meer dan alleen processen:
ook netwerk en schijf gebruik

```
$ apt install btop      # Debian
$ dnf install btop      # Fedora
$ brew install btop     # Mac
```

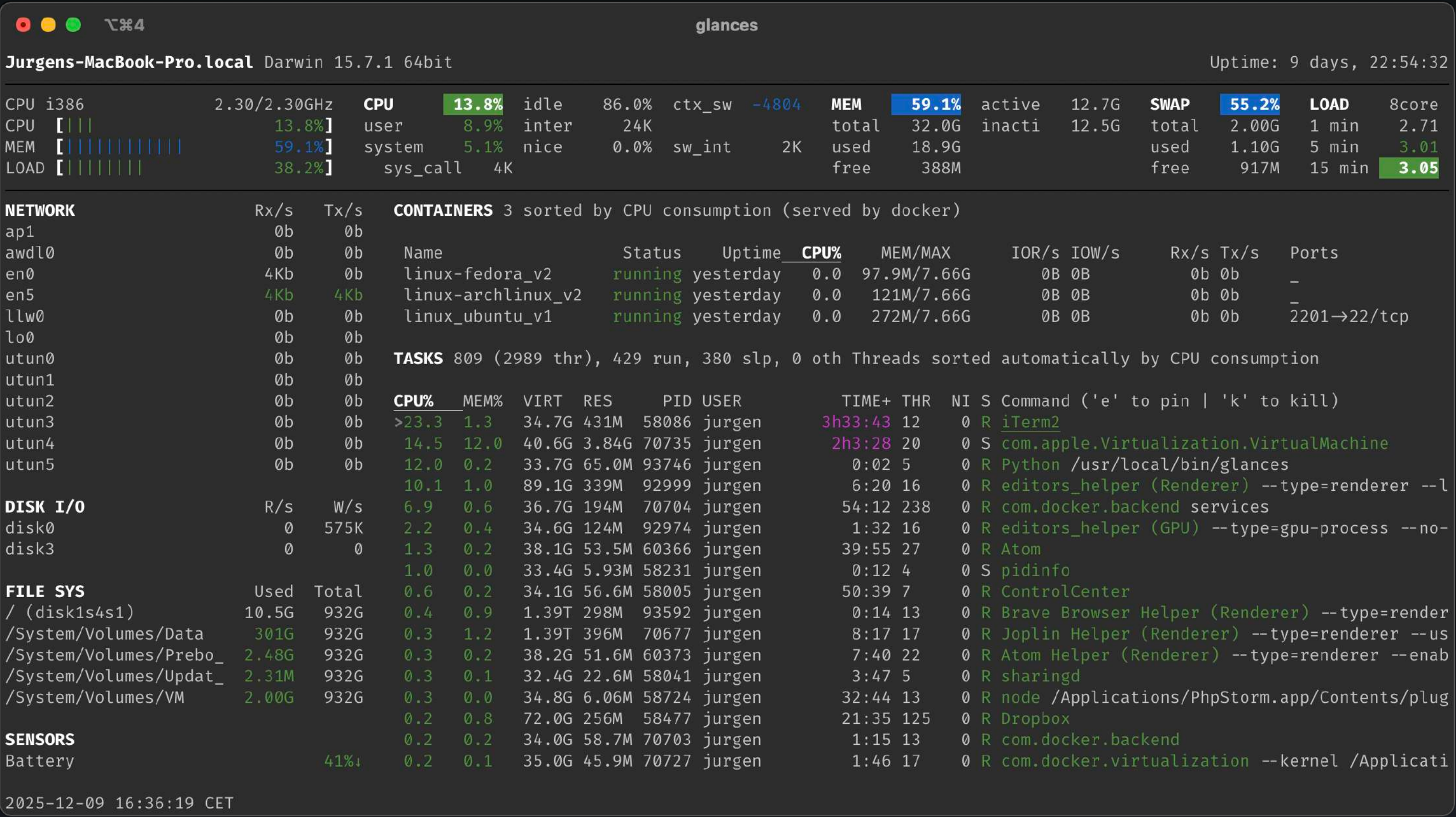


1.4 glances

Bonus toppert

Wat messy maar toont wel informatie over je docker containers en netwerken

```
$ apt install glances      # Debian
$ dnf install glances      # Fedora
$ pacman -S glances        # Arch
$ brew install glances     # Mac
```



2. Magic Wormhole

2. Magic Wormhole

Op magische wijze bestanden versturen en ontvangen

```
$ apt install magic-wormhole      # Debian
$ dnf install magic-wormhole      # Fedora ≤ v36
$ pacman -S magic-wormhole        # Arch
$ brew install magic-wormhole     # Mac
```

```
# On machine A (sending the file)
$ wormhole send 'testfile.txt'
Sending 3.1 kB file named 'testfile.txt'
Wormhole code is: '4-enchanting-scenic'
On the other computer, please run:
```

```
wormhole receive '4-enchanting-scenic'
```

```
# On machine B (receiving the file)
$ wormhole receive '4-enchanting-scenic'
```

2. Magic Wormhole

```
user@machine-a $ wormhole send [file]
```

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🐧 Ubuntu 24.04.3 LTS (Noble Numbat)

🐧 **ubuntu**:/demo-files/media\$ wormhole send radiohead-creep.mp3

Sending 8.1 MB file named 'radiohead-creep.mp3'

Wormhole code is: 95-detector-spaniel

On the other computer, please run:

```
wormhole receive 95-detector-spaniel
```

2. Magic Wormhole

```
user@machine-b $ wormhole receive 95-detector-spaniel
```



2. Magic Wormhole

2. Magic Wormhole

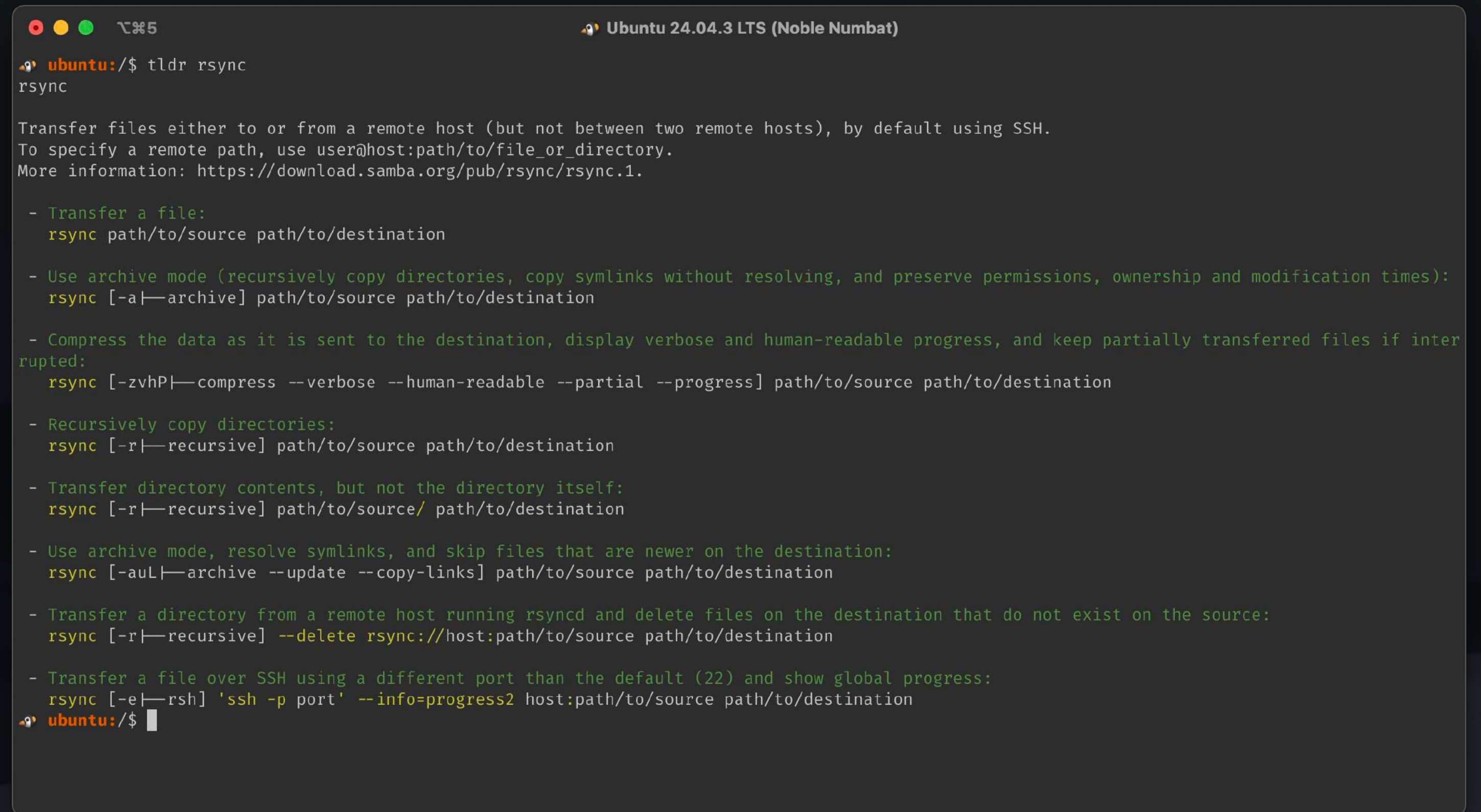
3. TL;DR

3. TLDR

Too Long; Didn't Read. Beter dan manpages

Manpages pages zijn een pain in the A\$\$\$. TLDR geeft een simpel en overzichtelijke manual

```
$ apt install tldr      # Debian
$ dnf install tldr     # Fedora
$ pacman -S tldr       # Arch
$ brew install tldr    # Mac
```



```
ubuntu:/$ tldr rsync
rsync

Transfer files either to or from a remote host (but not between two remote hosts), by default using SSH.
To specify a remote path, use user@host:path/to/file_or_directory.
More information: https://download.samba.org/pub/rsync/rsync.1.

- Transfer a file:
  rsync path/to/source path/to/destination

- Use archive mode (recursively copy directories, copy symlinks without resolving, and preserve permissions, ownership and modification times):
  rsync [-a|--archive] path/to/source path/to/destination

- Compress the data as it is sent to the destination, display verbose and human-readable progress, and keep partially transferred files if interrupted:
  rsync [-zvhP|--compress --verbose --human-readable --partial --progress] path/to/source path/to/destination

- Recursively copy directories:
  rsync [-r|--recursive] path/to/source path/to/destination

- Transfer directory contents, but not the directory itself:
  rsync [-r|--recursive] path/to/source/ path/to/destination

- Use archive mode, resolve symlinks, and skip files that are newer on the destination:
  rsync [-auL|--archive --update --copy-links] path/to/source path/to/destination

- Transfer a directory from a remote host running rsyncd and delete files on the destination that do not exist on the source:
  rsync [-r|--recursive] --delete rsync://host:path/to/source path/to/destination

- Transfer a file over SSH using a different port than the default (22) and show global progress:
  rsync [-e|--rsh] 'ssh -p port' --info=progress2 host:path/to/source path/to/destination
ubuntu:/$
```

3. TLDR

Too Long; Didn't Read. Beter dan manpages

Ubuntu 24.04.3 LTS (Noble Numbat)

```
ubuntu:/$ tldr rsync  
rsync
```

Transfer files either to or from a remote host (but not between two remote hosts), by default using SSH.

To specify a remote path, use `user@host:path/to/file_or_directory`.

More information: <https://download.samba.org/pub/rsync/rsync.1>.

- Transfer a file:

```
rsync path/to/source path/to/destination
```

- Use archive mode (recursively copy directories, copy symlinks without resolving, and preserve permissions, ownership and modification times):

```
rsync [-a|--archive] path/to/source path/to/destination
```

- Compress the data as it is sent to the destination, display verbose and human-readable progress

3. TLDR

Too Long; Didn't Read. Beter dan manpages

```
$ tldr rsync -L # specificeer de taal waarin je de documentatie wil zien
```

```
$ tldr rsync -m # output in plain markdown
```

3. Trash-CLI

3. Trash-CLI

Wel eens per ongeluk een `rm -Rf` gedaan? Spanning en sensatie!

```
$ dnf install trash-cli # Fedora  
$ apt install trash-cli # Ubuntu  
$ pacman -S trash-cli # Arch
```

```
# Trash locatie: `~/.local/share/Trash`
```

```
# Bestanden verwijderen:
```

```
$ trash [filename]
```

```
# Prullenbak bekijken:
```

```
$ trash-list
```

```
# Bestanden herstellen:
```

```
$ trash-restore
```

```
# Prullenbak legen (definitief verwijderen):
```

```
$ trash-empty [days]
```

3. Trash-CLI

Niet compatible is als een `rm` vervanger

`rm` vereist bijvoorbeeld de `-R` parameter voor het verwijderen van directories.

Trash daarentegen heeft dat niet, waardoor een alias dus voor problemen kan zorgen. Het kan wel, maar ik adviseer het niet met een alias te doen.

```
# `rm` 'uitschakelen' met een alias:  
alias rm='echo "This is not the command you are looking for.";false'
```

```
# `rm` direct gebruiken:  
\rm ./mijn-bestand.txt
```

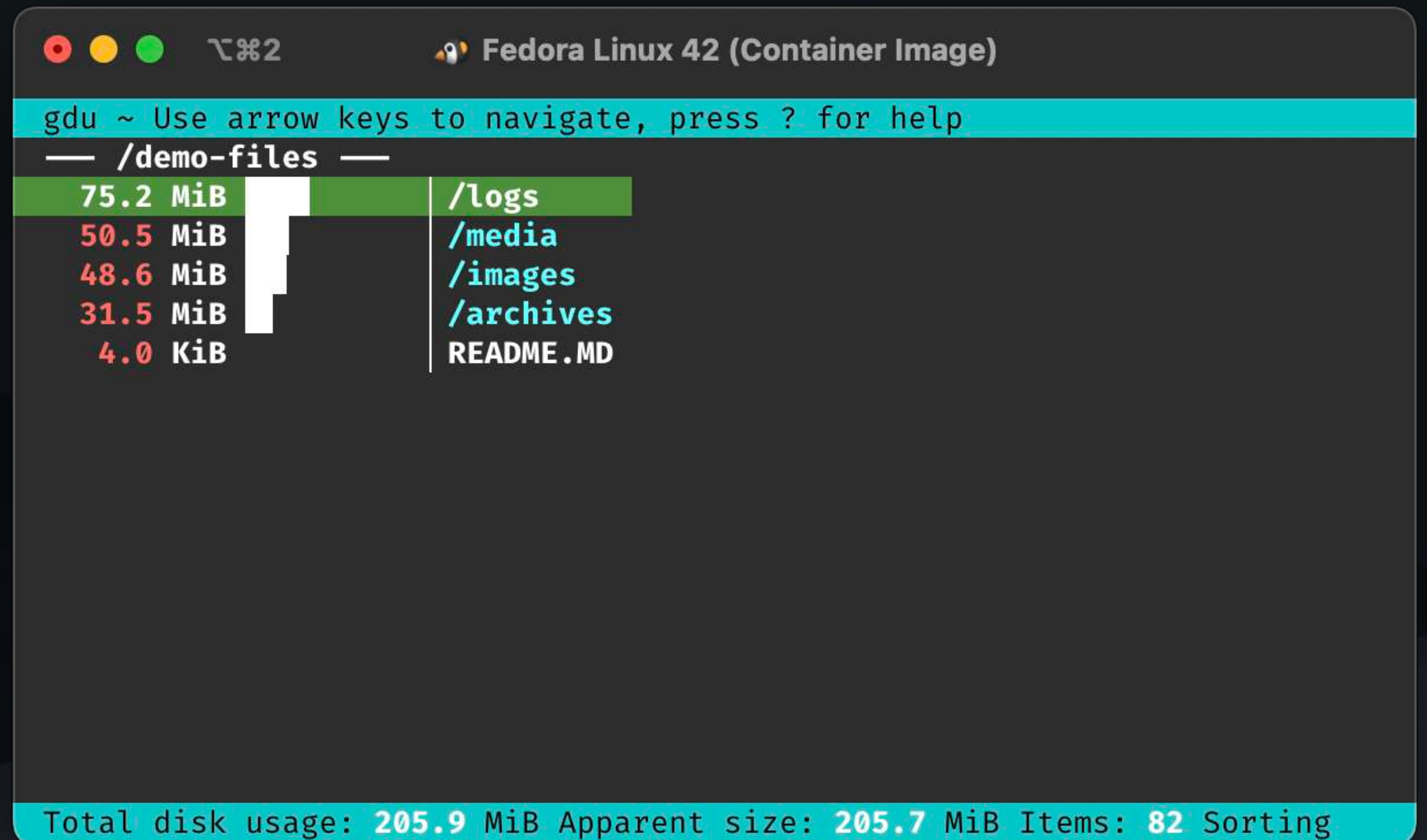
4. GDU - Go Disc Usage

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Too Long; Didn't Read. Beter dan manpages

Visuele file browser die ook gelijk de grote van directories weer geeft

```
$ dnf install gdu      # Fedora
$ apt install gdu      # Ubuntu
$ brew install gdu     # Mac
```



The screenshot shows a terminal window titled "Fedora Linux 42 (Container Image)". The GDU interface is displayed, showing a directory listing for "/demo-files". The listing includes file sizes and names, with a tree view on the left. The total disk usage is shown at the bottom.

```
gdu ~ Use arrow keys to navigate, press ? for help
— /demo-files —
75.2 MiB | /logs
50.5 MiB | /media
48.6 MiB | /images
31.5 MiB | /archives
4.0 KiB  | README.MD

Total disk usage: 205.9 MiB Apparent size: 205.7 MiB Items: 82 Sorting
```

5. LSHW - List hardware

5. LSHW - List hardware

Een compleet overzicht van alle geïnstalleerde hardware

Gedetailleerde lijst met alle hardware op de host machine

```
$ dnf install lshw # Fedora
$ apt install lshw # Ubuntu
$ pacman -S lshw # Arch
# Niet beschikbaar voor mac
```

```
Fedora Linux 42 (Container Image)
fedora:/demo-files$ lshw -c network
*-network
    description: Ethernet controller
    product: Virtio 1.0 network device
    vendor: Red Hat, Inc.
    physical id: 1
    bus info: pci@0000:00:01.0
    version: 01
    width: 64 bits
    clock: 33MHz
    capabilities: bus_master cap_list
    configuration: driver=virtio-pci latency=64
    resources: irq:0 memory:c0000000-c0003fff memory:c0030100-c003013f
*-virtio0 UNCLAIMED
    description: Virtual I/O device
    physical id: 0
    bus info: virtio@0
    configuration: driver=virtio_net
fedora:/demo-files$
```

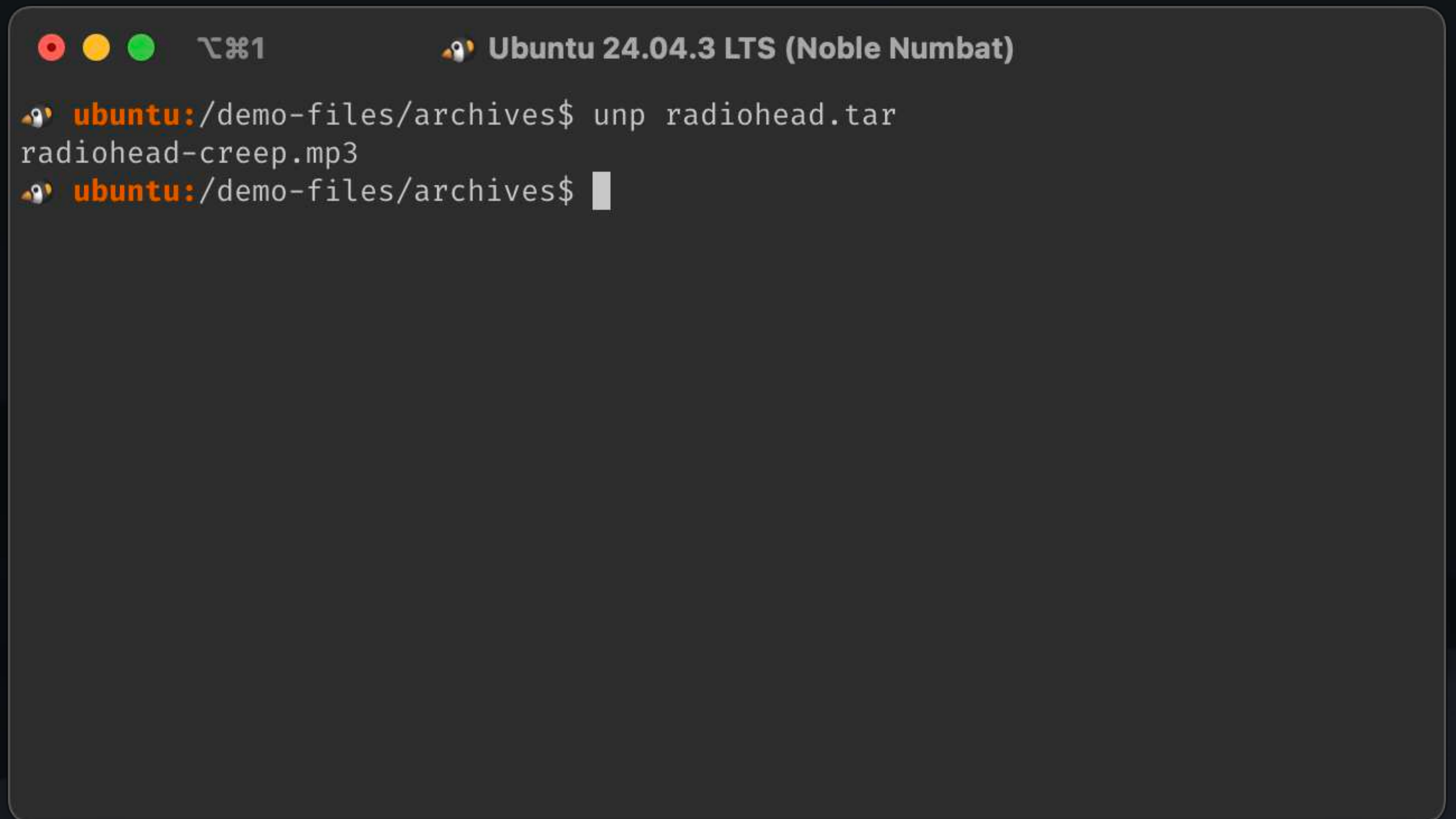
6. UNP - Unpack things

6. UNP - Unpack things

Een wrapper voor verschillende comprimeer tools

Geen verschil meer in uitpakken
van verschillende archives

```
$ apt install unp      # Ubuntu  
$ brew install unp    # Mac  
$ pacman -S trash-cli # Arch
```



```
Ubuntu 24.04.3 LTS (Noble Numbat)  
ubuntu:/demo-files/archives$ unp radiohead.tar  
radiohead-creep.mp3  
ubuntu:/demo-files/archives$
```

6. UNP - Unpack things

Een wrapper voor verschillende comprimeer tools

- 7zip Archives (*.7z)
- AR Archives (*.a)
- Apple Disk Image (*.dmg; *.sparseimage)
- Bz2 Compressed Files (*.bz2)
- Bz2 Compressed Tarballs (*.tar.bz2)
- Gzip Compressed Files (*.gz)
- Gzip Compressed Tarballs (*.tar.gz; *.tgz)
- Uncompressed Tarballs (*.tar)
- WinRAR Archives (*.rar)
- Windows Cabinet Archive (*.cab)
- XZ Compressed Files (*.xz)
- XZ Compressed Tarballs (*.tar.xz)
- Zip Archives (*.zip; *.egg; *.whl; *.jar)

7. Ipcalc - IP Calculator

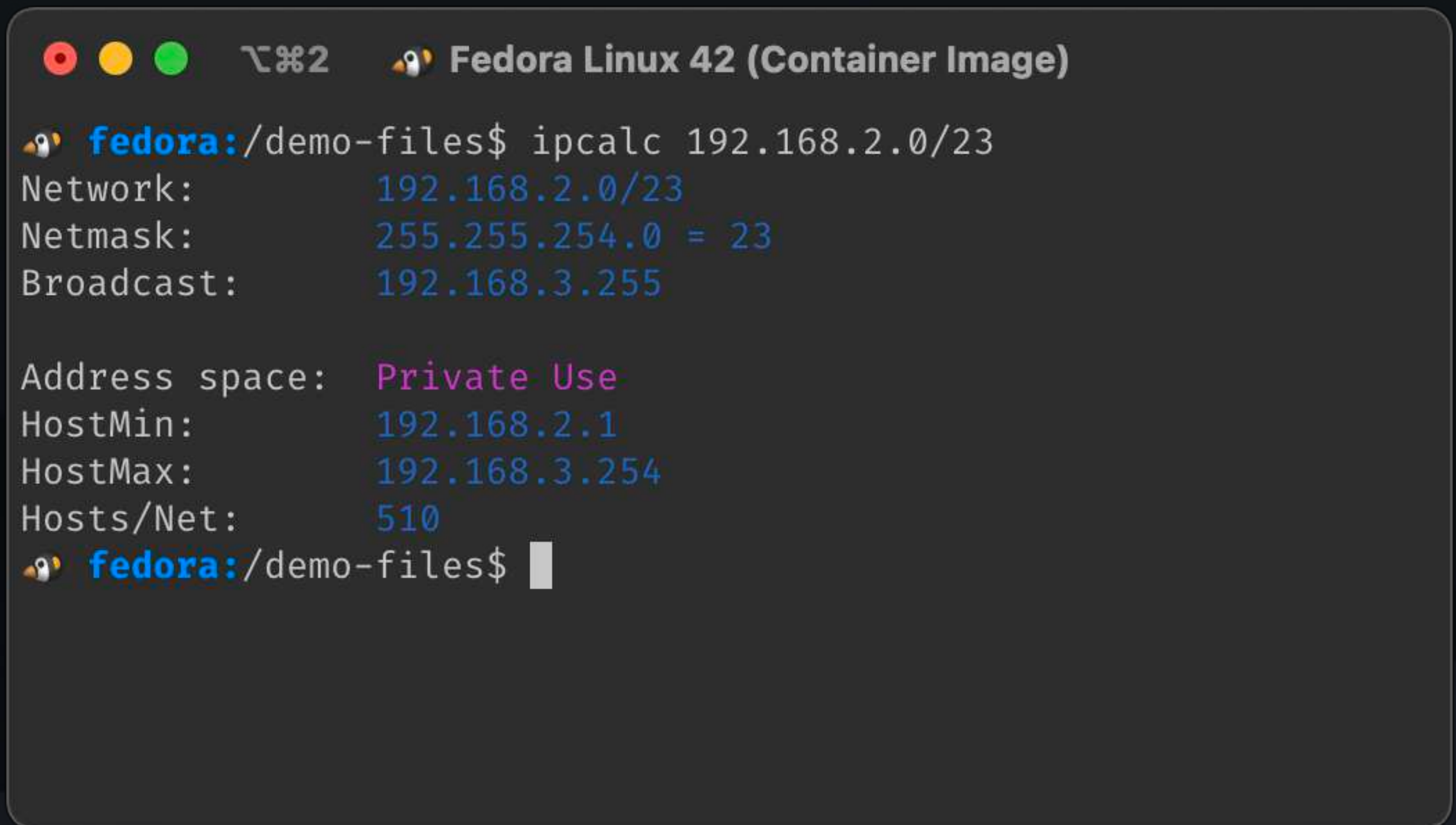
7. Ipcalc - IP Calculator

Hoe zat dat nou ook al weer??

Een handige subnet calculator.

Altijd weer opzoeken hoe dat zat.

```
$ apt install uno          # Ubuntu
$ brew install unp         # Mac
$ pacman -S trash-cli     # Arch
```



```

Fedora Linux 42 (Container Image)

fedora:/demo-files$ ipcalc 192.168.2.0/23
Network:      192.168.2.0/23
Netmask:      255.255.254.0 = 23
Broadcast:    192.168.3.255

Address space: Private Use
HostMin:      192.168.2.1
HostMax:      192.168.3.254
Hosts/Net:    510
fedora:/demo-files$
```

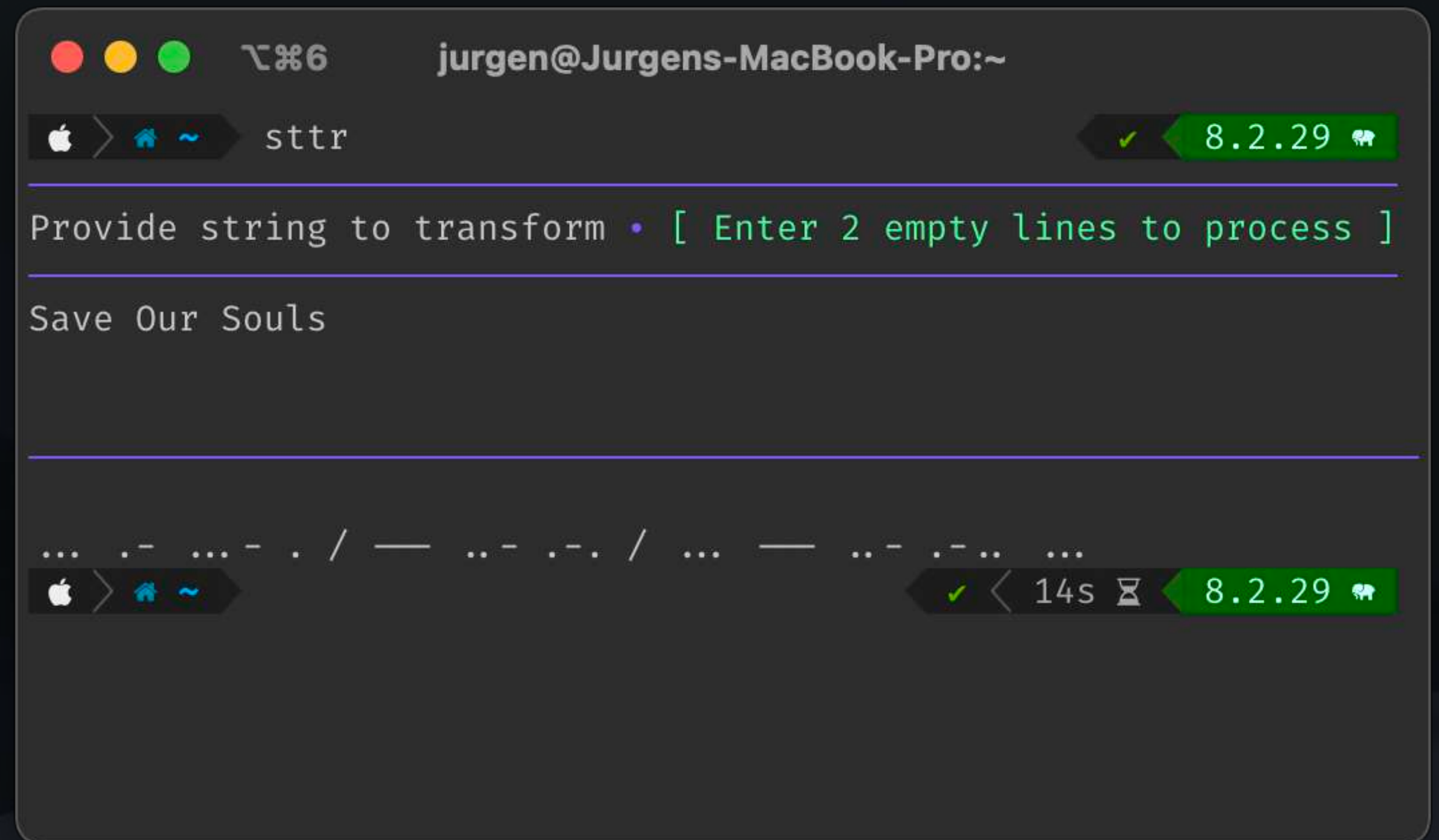
8. STTR - String Manipulation

8. STTR - String Manipulation

Zwitsers zakmes voor het string manipulatie

Zeer uitgebreid maar erg
gebruiksvriendelijk

Installatie is wel een dingetje



The screenshot shows a macOS terminal window titled "jurgen@Jurgens-MacBook-Pro:~". The terminal displays the command "sttr" which has been executed successfully, as indicated by a green checkmark and the version number "8.2.29" in the top right corner. The application's interface is shown in a light gray font on a dark background. It prompts the user to "Provide string to transform" and includes a green instruction "[Enter 2 empty lines to process]". The input string "Save Our Souls" is visible. Below the input, there is a horizontal line of symbols: "... .- ... - . / — ..- .-. / ... — ..- .-.. ...". At the bottom of the terminal, a status bar shows a green checkmark, a left arrow, "14s", a pause icon, and the version number "8.2.29" with a small elephant icon.

```
jurgen@Jurgens-MacBook-Pro:~  
sttr 8.2.29  
Provide string to transform • [ Enter 2 empty lines to process ]  
Save Our Souls  
... .- ... - . / — ..- .-. / ... — ..- .-.. ...  
14s 8.2.29
```