ncdu Disk usage browser

START HERE

- **Up** / **Down** Move the selection
- **i** Info on the item
- **Enter** Open a directory
- **n** / **s** Sort by name / size
- **Left** Back to the parent
- **r** Rescan this directory
- **d** Delete the item
- **q** Quit

Scan ncdu <path> → `-o` / `-O` **Export file** JSON or binary → `-f` **Browse** read-only view → `d` **Delete** live scan only

CONCEPTS

Scan once, then dig down: the biggest entries sit on top, so open the top directory and repeat.

Imported scans cannot delete, refresh or spawn a shell; only a live scan can.

Sizes are disk usage (blocks) by default; press a to compare with apparent size, e.g. for sparse files.

NAVIGATE

Up / **Down**
Move the selection

k / **j**
Move up / down (vi keys)

Enter / **Right**
Open the selected directory

Left / **h**
Go to the parent directory

l
Open the selected directory (vi key)

? Show help, keys and about

q Quit ncdu

SORT AND VIEW

s
Sort by size; press again to reverse

n
Sort by name; press again to reverse

C Sort by item count

M
Sort by newest child mtime
Needs a scan started with -e.

a
Toggle disk usage / apparent size

g
Cycle percentage and graph display

c Show item counts

m Show newest child mtime
Needs a scan started with -e.

SORT AND VIEW (cont.)

t Directories first on or off

u
Toggle shared / unique size column
Only shows when the listing has directories with shared hard links.

e
Show or hide hidden and excluded items
They still count toward the totals.

ACT ON ITEMS

d Delete the selected item
Asks for confirmation unless --no-confirm-delete is set.

i
Show details of the selected item

r
Rescan the current directory

b
Open a shell in this directory
Uses NCDU_SHELL, then SHELL, then /bin/sh. NCDU_LEVEL tells nested sessions apart.

Flags in the first column: ! unreadable, . error below, > other filesystem, @ symlink or special, H hard link counted already, e empty dir, < excluded.

SCAN OPTIONS

ncdu *<path>*
Scan a directory and browse it

ncdu -x *<path>*
Stay on one filesystem

ncdu -e *<path>*
Also record owner, mode and mtime

ncdu -t *<n>* *<path>*
Scan with n threads

ncdu -L *<path>*
Count the targets of symlinks

ncdu --exclude *<pattern>* *<path>*
Skip matching files (repeatable)
Excluded entries are still listed but not counted.

SCAN OPTIONS (cont.)

ncdu -X *<file>* *<path>*
Read exclude patterns from a file

ncdu --exclude-caches *<path>*
Skip dirs holding CACHEDIR.TAG

ncdu --exclude-kernfs /
Skip proc, sys and similar

ncdu --ignore-config
Skip the config files

DISPLAY OPTIONS

ncdu --si
Use kB / MB instead of KiB / MiB

ncdu --apparent-size
Start on apparent size

ncdu --sort *<col>*-desc
Pick the starting sort
Columns: disk-usage, name, apparent-size, itemcount, mtime.

ncdu --group-directories-first
Directories above files

ncdu --color dark
Use the dark colour scheme
Use dark-bg for a light terminal; the default is off.

ncdu -q
Update the screen less often

ncdu -2
Full-screen UI while scanning
The only mode that shows non-fatal scan errors.

ncdu -1
Progress text, no full-screen UI

ncdu -0
No output during the scan

EXPORT AND IMPORT

ncdu -o *<file>* *<path>*
Scan and save as JSON

ncdu -O *<file>* *<path>*
Scan and save in binary format
Compressed, browsable without loading it all into memory.

ncdu -f *<file>*
Browse a saved scan

EXPORT AND IMPORT (cont.)

ncdu -co- *<path>*
Write compressed JSON to stdout

ncdu -f-
Read a JSON scan from stdin

ncdu --compress-level *<n>*
Zstd level 1 to 19 for -O or -c

SAFETY AND CONFIG

ncdu -r *<path>*
Read-only: no delete
Give -r twice to also disable the shell.

ncdu --disable-delete
Turn off the delete key

ncdu --delete-command "gio trash --"
Trash instead of delete
The item's absolute path is appended; NCDU_DELETE_PATH is set too.

ncdu --confirm-quit
Ask before quitting

Put one option per line in ~/.config/ncdu/config (or /etc/ncdu.conf) to make flags permanent; command-line flags win.

RECIPES

Find what fills the root disk

```
sudo ncdu -x /
# s sorts by size, Enter dives in,
# -x skips other mounts and network shares
```

Scan a remote host, browse locally

```
ssh <user>@<host> ncdu -co- / | ncdu -f-
```

Save a scan, review it later

```
ncdu -1xO scan.ncdu /
ncdu -f scan.ncdu
```

Browse a cleanup without deleting

```
ncdu -r -x --exclude node_modules ~/projects
```