

NAME

ls – list directory contents

SYNOPSIS

ls [*OPTION*]... [*FILE*]...

DESCRIPTION

List information about the FILES (the current directory by default). Sort entries alphabetically if none of **-cftuvSUX** nor **--sort**.

Mandatory arguments to long options are mandatory for short options too.

-a, --all

do not ignore entries starting with .

-A, --almost-all

do not list implied . and ..

--author

with **-l**, print the author of each file

-b, --escape

print octal escapes for nongraphic characters

--block-size=SIZE

use SIZE-byte blocks. See SIZE format below

-B, --ignore-backups

do not list implied entries ending with ~

-c

with **-lt**: sort by, and show, ctime (time of last modification of file status information) with **-l**: show ctime and sort by name otherwise: sort by ctime

-C

list entries by columns

--color[=WHEN]

colorize the output. WHEN defaults to ‘always’ or can be ‘never’ or ‘auto’. More info below

-d, --directory

list directory entries instead of contents, and do not dereference symbolic links

-D, --dired

generate output designed for Emacs’ dired mode

-f

do not sort, enable **-aU**, disable **-ls --color**

-F, --classify

append indicator (one of */=>@|) to entries

--file-type

likewise, except do not append ‘*’

--format=WORD

across **-x**, commas **-m**, horizontal **-x**, long **-l**, single-column **-l**, verbose **-l**, vertical **-C**

--full-time

like **-l --time-style=full-iso**

-g

like **-l**, but do not list owner

--group-directories-first

group directories before files.

augment with a **--sort** option, but any use of **--sort=none** (**-U**) disables grouping

-G, --no-group

in a long listing, don’t print group names

- h, --human-readable**
with **-l**, print sizes in human readable format (e.g., 1K 234M 2G)
- si** likewise, but use powers of 1000 not 1024
- H, --dereference-command-line**
follow symbolic links listed on the command line
- dereference-command-line-symlink-to-dir**
follow each command line symbolic link that points to a directory
- hide=PATTERN**
do not list implied entries matching shell PATTERN (overridden by **-a** or **-A**)
- indicator-style=WORD**
append indicator with style WORD to entry names: none (default), slash (**-p**), file-type (**--file-type**), classify (**-F**)
- i, --inode**
print the index number of each file
- I, --ignore=PATTERN**
do not list implied entries matching shell PATTERN
- k** like **--block-size=1K**
- l** use a long listing format
- L, --dereference**
when showing file information for a symbolic link, show information for the file the link references rather than for the link itself
- m** fill width with a comma separated list of entries
- n, --numeric-uid-gid**
like **-l**, but list numeric user and group IDs
- N, --literal**
print raw entry names (don't treat e.g. control characters specially)
- o** like **-l**, but do not list group information
- p, --indicator-style=slash**
append / indicator to directories
- q, --hide-control-chars**
print ? instead of non graphic characters
- show-control-chars**
show non graphic characters as-is (default unless program is 'ls' and output is a terminal)
- Q, --quote-name**
enclose entry names in double quotes
- quoting-style=WORD**
use quoting style WORD for entry names: literal, locale, shell, shell-always, c, escape
- r, --reverse**
reverse order while sorting
- R, --recursive**
list subdirectories recursively
- s, --size**
print the allocated size of each file, in blocks
- S** sort by file size

--sort=WORD

sort by WORD instead of name: none **-U**, extension **-X**, size **-S**, time **-t**, version **-v**

--time=WORD

with **-l**, show time as WORD instead of modification time: atime **-u**, access **-u**, use **-u**, ctime **-c**, or status **-c**; use specified time as sort key if **--sort=time**

--time-style=STYLE

with **-l**, show times using style STYLE: full-iso, long-iso, iso, locale, +FORMAT. FORMAT is interpreted like 'date'; if FORMAT is FORMAT1<newline>FORMAT2, FORMAT1 applies to non-recent files and FORMAT2 to recent files; if STYLE is prefixed with 'posix-', STYLE takes effect only outside the POSIX locale

-t sort by modification time

-T, --tabsize=COLS

assume tab stops at each COLS instead of 8

-u with **-lt**: sort by, and show, access time with **-l**: show access time and sort by name otherwise: sort by access time

-U do not sort; list entries in directory order

-v natural sort of (version) numbers within text

-w, --width=COLS

assume screen width instead of current value

-x list entries by lines instead of by columns

-X sort alphabetically by entry extension

-1 list one file per line

SELinux options:

--lcontext

Display security context. Enable **-l**. Lines will probably be too wide for most displays.

-Z, --context

Display security context so it fits on most displays. Displays only mode, user, group, security context and file name.

--scontext

Display only security context and file name.

--help display this help and exit

--version

output version information and exit

SIZE may be (or may be an integer optionally followed by) one of following: KB 1000, K 1024, MB 1000*1000, M 1024*1024, and so on for G, T, P, E, Z, Y.

Using color to distinguish file types is disabled both by default and with **---color=never**. With **---color=auto**, ls emits color codes only when standard output is connected to a terminal. The LS_COLORS environment variable can change the settings. Use the dircolors command to set it.

Exit status:

- 0 if OK,
- 1 if minor problems (e.g., cannot access subdirectory),
- 2 if serious trouble (e.g., cannot access command-line argument).

AUTHOR

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REPORTING BUGS

Report ls bugs to bug-coreutils@gnu.org

GNU coreutils home page: <http://www.gnu.org/software/coreutils/>

General help using GNU software: <http://www.gnu.org/gethelp/>

Report ls translation bugs to <http://translationproject.org/team/>

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SEE ALSO

The full documentation for **ls** is maintained as a Texinfo manual. If the **info** and **ls** programs are properly installed at your site, the command

info coreutils 'ls invocation'

should give you access to the complete manual.