

LS(1)

User Commands

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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** is specified.

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

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-b, --escape

print C-style escapes for nongraphic characters

--block-size=SIZE

with **-l**, scale sizes by **SIZE** when printing them; e.g.,

'--block-size=M'; 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 change of file status information); with **-l**: show ctime and sort by name; otherwise: sort by ctime, newest first

-C list entries by columns

--color[=WHEN]

color the output **WHEN**; more info below

-d, --directory

list directories themselves, not their contents

-D, --dired

generate output designed for Emacs' dired mode

-f list all entries in directory order

-F, --classify[=WHEN]

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

--file-type

likewise, except do not append '*'

--format=WORD

across -x, commas -m, horizontal -x, long -l, single-column -1,
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; can be augmented 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

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with **-l** and **-s**, print sizes like 1K 234M 2G etc.

--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**)

--hyperlink[=WHEN]

hyperlink file names WHEN

--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

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-I, --ignore=PATTERN

do not list implied entries matching shell PATTERN

-k, --kibibytes

default to 1024-byte blocks for file system usage; used only with -s and per directory totals

-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 entry names without quoting

-o like -l, but do not list group information

append / indicator to directories

-q, --hide-control-chars

print ? instead of nongraphic characters

--show-control-chars

show nongraphic characters as-is (the 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, shell-escape, shell-escape-always, c, escape
(overrides QUOTING_STYLE environment variable)

-r, --reverse

reverse order while sorting

-R, --recursive

list subdirectories recursively

-s, --size

-S sort by file size, largest first

--sort=WORD

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

--time=WORD

select which timestamp used to display or sort; access time
(-u): atime, access, use; metadata change time (-c): ctime, sta?
tus; modified time (default): mtime, modification; birth time:
birth, creation;

with -l, WORD determines which time to show; with --sort=time,
sort by WORD (newest first)

--time-style=TIME_STYLE

time/date format with -l; see TIME_STYLE below

-t sort by time, newest first; see --time

-T, --tabsize=COLS

assume tab stops at each COLS instead of 8

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time and sort by name; otherwise: sort by access time, newest first

-U do not sort; list entries in directory order

-v natural sort of (version) numbers within text

-w, --width=COLS

set output width to COLS. 0 means no limit

-x list entries by lines instead of by columns

-X sort alphabetically by entry extension

-Z, --context

print any security context of each file

--zero end each output line with NUL, not newline

-1 list one file per line

--help display this help and exit

--version

The **SIZE** argument is an integer and optional unit (example: 10K is 10*1024). Units are K,M,G,T,P,E,Z,Y,R,Q (powers of 1024) or KB,MB,... (powers of 1000). Binary prefixes can be used, too: KiB=K, MiB=M, and so on.

The **TIME_STYLE** argument can be full-iso, long-iso, iso, locale, or +FORMAT. FORMAT is interpreted like in date(1). If FORMAT is FOR? MAT1<newline>FORMAT2, then FORMAT1 applies to non-recent files and FOR? MAT2 to recent files. TIME_STYLE prefixed with 'posix-' takes effect only outside the POSIX locale. Also the TIME_STYLE environment variable sets the default style to use.

The **WHEN** argument defaults to 'always' and can also be 'auto' or 'never'.

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(1) 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

GNU coreutils online help: <<https://www.gnu.org/software/coreutils/>>

Report any translation bugs to <<https://translationproject.org/team/>>

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SEE ALSO

`dircolors(1)`

Full documentation <<https://www.gnu.org/software/coreutils/ls/>>

or available locally via: `info '(coreutils) ls invocation'`