

LS(1) User Commands LS(1)

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

-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 modification 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]
colorize the output; WHEN can be 'always' (default if omitted), 'auto', or 'never'; more info below

-d, --directory

list directories themselves, not their contents

`-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;

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

`-h, --human-readable`
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 can be 'always' (default if omitted),
'auto', or 'never'

-indicator-style=WORD
append indicator with style WORD to entry names : none (de-
fault), 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, -kibibytes
default to 1024-byte blocks for disk 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 informa-
tion 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

-p, -indicator-style=slash
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_STYLEenvironmentvariable)

-r, --reverse
reverseorderwhilesorting

-R, --recursive
listsubdirectoriesrecursively

-s, --size
printtheallocatedsizeofeachfile,inblocks

-Ssortbyfilesize, largest first

--sort = WORD
sortbyWORDinsteadofname : none(-U), size(-S), time(-t), version(-v), extension(-X)

--time = WORD
*changethedefaultofusingmodificationtimes; accesstime(-u) : atime, access, use; changetime(-c) :
ctime, status; birthtime : birth, creation;*

with-l, WORDdetermineswhichtimetoshow; with--sort = time, sortbyWORD(newest first)

--time - style = TIME_STYLE
time/dateformatwith - l; seeTIME_STYLEbelow

-t sortbytime, newest first; see --time

-T, --tabsize = COLS
assumetabstopseachCOLSinsteadof8

-uwith-lt : sortby, andshow, accesstime; with-l : showaccesstimeandsortbyname; otherwise :
sortbyaccesstime, newest first

-Udonotsort; listentriesindirectoryorder

-vnatural sortof(version)numberswithintext

-w, --width = COLS
setoutputwidthtoCOLS.0meansnolimit

– *xlist* entries by lines instead of by columns

– *Xsort* alphabetically by entry extension

– *Z*, – *context*

print any security context of each file

– *l* list one file per line. Avoid " with – *q* or – *b*

– –*help* display this help and exit

– –*version*

output version information and exit

The *SIZE* argument is an integer and optional unit (example : 10K is 10*1024). Units are K, M, G, T, P, E, Z, Y, KiB = K, MiB = M, and soon.

The *TIME_STYLE* argument can be full-iso, long-iso, iso, locale, or +*FORMAT*. *FORMAT* is interpreted as *MAT1* < newline > *FORMAT2*, then *FORMAT1* applies to non-recent files and *FORMAT2* to recent files. *TIME_STYLE* prefixed with 'posix-' takes effect only outside the POSIX locale. Also, the *ls* command has a *--full-time* option to set the default style to use.

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 be used to set the default style.

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

*Full documentation < <https://www.gnu.org/software/coreutils/ls> >
or available locally via : info'(coreutils)ls invocation'*

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