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 speci- fied.

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 -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

-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 'ne-

ver'

–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, –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 $QUOTING_STYLE$ environment variable)

$-r, --reverse$
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, largest first

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

$--time = WORD$
change the default of using modification times; access time (−u) : atime, access, use; change time (−c) : ctime, status; birthtime : 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

$-u$ with −lt : sort by, and show, access time; with −l : show access 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

$-Z, --context$

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print any security context of each file

−1 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 so on.

The $TIME_STYLE$ argument can be full−iso, long−iso, iso, locale, or +FORMAT. FORMAT is interpreted
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 t
able sets 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_C
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).

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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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