### 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 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  $\dots$ 

-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

 $-\mathrm{d},\,-\mathrm{directory}$ 

list directories themselves, not their contents

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-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 'never'

#### -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 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

#### -p, -indicator-style=slash

append / indicator to directories

# $\hbox{-q, -hide-control-chars}$

print? instead of nongraphic characters

### -show-control-chars

show nongraphic characters as-is (the default, unless program is 'ls' and output is a terminal)  $\,$ 

# $\textbf{-}Q,\, -\! quote\text{-}name$

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
reverse order while sorting
-R, -recursive
list subdirectories recursively
-s, --size
print the allocated size of each file, in blocks\\
-\,Ssort by file size, largest first
--sort = WORD
sortby 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): a time, 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_S TYLE below
-tsortbytime, newestfirst; see--time
-T, --tabsize = COLS
assume tab stops at each COLS instead of 8\\
-uwith-lt: sortby, and show, access time; with-l: show access time and sort by name; otherwise:
sort by access time, newest first
- Udonotsort; listentries indirectory order
-vnaturals ortof (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
- \, Xsortal phabetically by entry extension
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-Z, --context

printany security context of each file
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- $-\ 1 list one file per line. A voi d'' with -qor-b$
- --help display this help and exit
- -version

output version in formation 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.

 $The TIME_{S}TYLE argument can be full-iso, long-iso, iso, locale, or + FORMAT. FORMAT is interpreted MAT1 < new line > FORMAT2, then FORMAT1 applies to non-recent files and FOR-MAT2 to recent files. TIME_{S}TYLE prefixed with 'posix-'takes effect only outside the POSIX locale. Also tables et sthe default style to use.$ 

 $\label{lem:color} Using color to distinguish filetypesis disable dboth by default and with --color = never. With --color = auto, lsemits color codes only when standard output is connected to a terminal. The LSC Exits tatus: 0 if OK,$ 

1ifminorproblems(e.g., cannot access subdirectory),

2ifserious trouble (e.g., cannot access command-linear gument).

### AUTHOR

Written by Richard M. Stallman and David MacKenzie.

#### REPORTINGBUGS

```
GNU core util son line help: < https://www.gnu.org/software/core utils/> Report any translation bugs to < https://translation project.org/team/>
```

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#### SEEALSO

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

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