

LS

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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
- 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 (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
- 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* with -l, show time as WORD instead of default modification time: atime or access or use (-u); ctime or status (-c); also use specified time as sort key if --sort=*time* (newest first)
- time-style=*TIME_STYLE* time/date format with -l; see TIME_STYLE below
- t sort by modification time, newest first
- 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** print any security context of each file
- 1** list one file per line. Avoid '\n' 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 (powers of 1024) or KB,MB,... (powers of 1000).

The **TIME_STYLE** argument can be full-iso, long-iso, iso, locale, or +FORMAT. **FORMAT** is interpreted like in `date(1)`. If **FORMAT** is **FORMAT1<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 **TIME_STYLE** environment variable 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_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

GNU coreutils online help: <<https://www.gnu.org/software/coreutils/>>
Report ls translation bugs to <<https://translationproject.org/team/>>

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SEE ALSO

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