

27_03hw

March 27, 2020

```
[1]: pwd
```

```
/home/jupyter-aiana178
```

```
[2]: cd ../folder21/bts
```

```
[3]: pwd
```

```
/home/jupyter-aiana178/folder21/bts
```

```
[4]: ls
```

```
Switzerland.jpg
```

```
[5]: ls -l
```

```
total 600
-rw-r--r-- 1 jupyter-aiana178 jupyter-aiana178 614008 Mar 26 17:44
Switzerland.jpg
```

```
[6]: ls -a
```

```
.  ..  Switzerland.jpg
```

```
[7]: file Switzerland.jpg
```

```
Switzerland.jpg: JPEG image data, JFIF standard 1.01, resolution (DPI), density
240x240, segment length 16, Exif Standard: [TIFF image data, big-endian,
direntries=9, manufacturer=Canon, model=Canon EOS 5D Mark II, orientation=upper-
left, xresolution=150, yresolution=158, resolutionunit=2, software=Adobe
Photoshop Lightroom 4.1 (Macintosh), datetime=2014:05:16 22:41:03], baseline,
precision 8, 2048x1319, frames 3
```

```
[8]: echo 'My resume - Aiana Vergaliyeva' >resume.txt
```

```
[9]: ls
```

```
resume.txt  Switzerland.jpg
```

```
[10]: ls -l
```

```
total 604
-rw-r--r-- 1 jupyter-aiana178 jupyter-aiana178    30 Mar 27 20:15 resume.txt
-rw-r--r-- 1 jupyter-aiana178 jupyter-aiana178 614008 Mar 26 17:44
Switzerland.jpg
```

```
[11]: ls -a
```

```
.  ..  resume.txt  Switzerland.jpg
```

```
[13]: file resume.txt
```

```
resume.txt: ASCII text
```

```
[14]: cd ../../..
```

```
[15]: pwd
```

```
/home/jupyter-aiana178
```

```
[16]: man ls
```

```
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 ..

    --author
        with -l, print the author of each file
```

-b, --escape
print C-style escapes for nongraphic characters

--block-size=SIZE
scale sizes by SIZE before printing them; e.g., '--block-size=M'
prints sizes in units of 1,048,576 bytes; 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/or -s, print human readable sizes (e.g., 1K 234M 2G)

--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

-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

-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=STYLE
with -l, show times using style STYLE: full-iso, long-iso, iso, locale, or +FORMAT; FORMAT is interpreted like in 'date'; if FORMAT is FORMAT1<newline>FORMAT2, then FORMAT1 applies to

non-recent files and FORMAT2 to recent files; if STYLE is prefixed with 'posix-', STYLE takes effect only outside the POSIX locale

- 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).

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

Written by Richard M. Stallman and David MacKenzie.

REPORTING BUGS

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

Report ls translation bugs to <<http://translationproject.org/team/>>

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SEE ALSO

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

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

GNU coreutils 8.28

January 2018

LS(1)

[17]: `ls -all`

```
total 72
drwxr-x---  8 jupyter-aiana178 jupyter-aiana178 4096 Mar 27 20:19 .
drwxr-xr-x 30 root              root              4096 Mar 26 20:15 ..
-rw-----  1 jupyter-aiana178 jupyter-aiana178 4145 Mar 27 20:11 .bash_history
-rw-r--r--  1 jupyter-aiana178 jupyter-aiana178  220 Apr  4  2018 .bash_logout
-rw-r--r--  1 jupyter-aiana178 jupyter-aiana178 3771 Apr  4  2018 .bashrc
drwxr-xr-x  3 jupyter-aiana178 jupyter-aiana178 4096 Mar 21 12:13 .cache
drwxr-xr-x  4 jupyter-aiana178 jupyter-aiana178 4096 Mar 21 13:56 folder21
drwxr-xr-x  2 jupyter-aiana178 jupyter-aiana178 4096 Mar 27 20:11
.ipynb_checkpoints
drwxr-xr-x  5 jupyter-aiana178 jupyter-aiana178 4096 Mar 21 12:18 .ipython
drwxr-xr-x  3 jupyter-aiana178 jupyter-aiana178 4096 Mar 26 16:53 .jupyter
drwxr-xr-x  3 jupyter-aiana178 jupyter-aiana178 4096 Mar 21 12:13 .local
-rw-r--r--  1 jupyter-aiana178 jupyter-aiana178  807 Apr  4  2018 .profile
lrwxrwxrwx  1 jupyter-aiana178 jupyter-aiana178   16 Mar 10 11:57 shared ->
/srv/data/shared
-rw-r--r--  1 jupyter-aiana178 jupyter-aiana178    7 Mar 26 17:50 unisat.mp3
-rw-r--r--  1 jupyter-aiana178 jupyter-aiana178 15087 Mar 27 20:19
Untitled.ipynb
```

[18]: `ls -a`

```
.          .bash_logout  folder21      .jupyter  shared
..         .bashrc      .ipynb_checkpoints .local    unisat.mp3
.bash_history .cache      .ipython      .profile  Untitled.ipynb
```

```
[19]: ls --all
```

```
.                .bash_logout  folder21        .jupyter  shared
..               .bashrc       .ipynb_checkpoints .local    unisat.mp3
.bash_history    .cache        .ipython        .profile  Untitled.ipynb
```

```
[20]: ls -l
```

```
total 24
drwxr-xr-x 4 jupyter-aiana178 jupyter-aiana178 4096 Mar 21 13:56 folder21
lrwxrwxrwx 1 jupyter-aiana178 jupyter-aiana178   16 Mar 10 11:57 shared ->
/srv/data/shared
-rw-r--r-- 1 jupyter-aiana178 jupyter-aiana178    7 Mar 26 17:50 unisat.mp3
-rw-r--r-- 1 jupyter-aiana178 jupyter-aiana178 15087 Mar 27 20:19 Untitled.ipynb
```

```
[21]: ls -al
```

```
total 76
drwxr-x---  8 jupyter-aiana178 jupyter-aiana178 4096 Mar 27 20:21 .
drwxr-xr-x 30 root              root              4096 Mar 26 20:15 ..
-rw-----  1 jupyter-aiana178 jupyter-aiana178 4145 Mar 27 20:11 .bash_history
-rw-r--r--  1 jupyter-aiana178 jupyter-aiana178  220 Apr  4  2018 .bash_logout
-rw-r--r--  1 jupyter-aiana178 jupyter-aiana178 3771 Apr  4  2018 .bashrc
drwxr-xr-x  3 jupyter-aiana178 jupyter-aiana178 4096 Mar 21 12:13 .cache
drwxr-xr-x  4 jupyter-aiana178 jupyter-aiana178 4096 Mar 21 13:56 folder21
drwxr-xr-x  2 jupyter-aiana178 jupyter-aiana178 4096 Mar 27 20:11
.ipynb_checkpoints
drwxr-xr-x  5 jupyter-aiana178 jupyter-aiana178 4096 Mar 21 12:18 .ipython
drwxr-xr-x  3 jupyter-aiana178 jupyter-aiana178 4096 Mar 26 16:53 .jupyter
drwxr-xr-x  3 jupyter-aiana178 jupyter-aiana178 4096 Mar 21 12:13 .local
-rw-r--r--  1 jupyter-aiana178 jupyter-aiana178  807 Apr  4  2018 .profile
lrwxrwxrwx  1 jupyter-aiana178 jupyter-aiana178   16 Mar 10 11:57 shared ->
/srv/data/shared
-rw-r--r--  1 jupyter-aiana178 jupyter-aiana178    7 Mar 26 17:50 unisat.mp3
-rw-r--r--  1 jupyter-aiana178 jupyter-aiana178 18192 Mar 27 20:21
Untitled.ipynb
```

```
[22]: ls -A
```

```
.bash_history  .cache          .ipython  .profile  Untitled.ipynb
.bash_logout   folder21        .jupyter  shared
.bashrc        .ipynb_checkpoints .local    unisat.mp3
```

```
[23]: ls --almost-all
```

```
.bash_history  .cache          .ipython  .profile  Untitled.ipynb
.bash_logout   folder21        .jupyter  shared
.bashrc        .ipynb_checkpoints .local    unisat.mp3
```



```
[24]: ls --author
```

```
folder21  shared  unisat.mp3  Untitled.ipynb
```

```
[25]: ls
```

```
folder21  shared  unisat.mp3  Untitled.ipynb
```

```
[26]: ls -b
```

```
folder21  shared  unisat.mp3  Untitled.ipynb
```

```
[27]: ls -c
```

```
Untitled.ipynb  unisat.mp3  folder21  shared
```

```
[28]: ls -cl
```

```
total 32
drwxr-xr-x 4 jupyter-aiana178 jupyter-aiana178 4096 Mar 21 13:56 folder21
lrwxrwxrwx 1 jupyter-aiana178 jupyter-aiana178   16 Mar 21 12:13 shared ->
/srv/data/shared
-rw-r--r-- 1 jupyter-aiana178 jupyter-aiana178    7 Mar 26 17:53 unisat.mp3
-rw-r--r-- 1 jupyter-aiana178 jupyter-aiana178 20657 Mar 27 20:25 Untitled.ipynb
```

```
[29]: ls -d
```

```
.
```

```
[30]: ls -n
```

```
total 32
drwxr-xr-x 4 1024 1025 4096 Mar 21 13:56 folder21
lrwxrwxrwx 1 1024 1025   16 Mar 10 11:57 shared -> /srv/data/shared
-rw-r--r-- 1 1024 1025    7 Mar 26 17:50 unisat.mp3
-rw-r--r-- 1 1024 1025 22343 Mar 27 20:27 Untitled.ipynb
```

```
[33]: ls -u
```

```
Untitled.ipynb  folder21  unisat.mp3  shared
```

```
[34]: ls -s
```

```
total 32
 4 folder21   0 shared   4 unisat.mp3 24 Untitled.ipynb
```

```
[35]: ls -S
```

```
Untitled.ipynb  folder21  shared  unisat.mp3
```

[36]: `ls -t`

```
Untitled.ipynb  unisat.mp3  folder21  shared
```

[]: