Obtendo ajuda

```
faofernando@srv-ubuntu:/$ ls --help
Usage: ls [OPTION]... [FILE]...
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
```

Formato de lista longa

```
faofernando@srv-ubuntu:/$ ls -l
total 1912900
lrwxrwxrwx   1 root root          7 abr 21 00:57 bin -> usr/bin
drwxr-xr-x   4 root root       4096 jul 25 10:41 boot
drwxr-xr-x  20 root root       4080 jul 28 11:05 dev
drwxr-xr-x  97 root root       4096 jul 25 10:47 etc
drwxr-xr-x   3 root root       4096 jul 25 10:47 home
lrwxrwxrwx   1 root root          7 abr 21 00:57 lib -> usr/lib
lrwxrwxrwx   1 root root          9 abr 21 00:57 lib32 -> usr/lib32
lrwxrwxrwx   1 root root          9 abr 21 00:57 lib64 -> usr/lib64
lrwxrwxrwx   1 root root         10 abr 21 00:57 libx32 -> usr/libx32
drwx------   2 root root      16384 jul 25 10:35 lost+found
drwxr-xr-x   2 root root       4096 abr 21 00:57 media
drwxr-xr-x   2 root root       4096 abr 21 00:57 mnt
drwxr-xr-x   2 root root       4096 abr 21 00:57 opt
dr-xr-xr-x 164 root root          0 jul 28 09:43 proc
drwx------   4 root root       4096 jul 28 10:51 root
drwxr-xr-x  28 root root        820 jul 28 23:18 run
lrwxrwxrwx   1 root root          8 abr 21 00:57 sbin -> usr/sbin
drwxr-xr-x   6 root root       4096 abr 21 01:02 snap
drwxr-xr-x   2 root root       4096 abr 21 00:57 srv
-rw-------   1 root root 1958739968 jul 25 10:38 swap.img
dr-xr-xr-x  13 root root          0 jul 28 09:43 sys
drwxrwxrwt  12 root root       4096 jul 29 00:00 tmp
drwxr-xr-x  14 root root       4096 abr 21 00:57 usr
drwxr-xr-x  13 root root       4096 abr 21 01:01 var
```

d- diretório

Se a primeira letra for d, vai ser um diretório

Se for – vai ser um arquivo

Se for l é um link, um redirecionamento p/ outro local

```
faofernando@srv-ubuntu:/$ ls -l
total 1912900
lrwxrwxrwx   1 root root          7 abr 21 00:57 bin -> usr/bin
drwxr-xr-x   4 root root       4096 jul 25 10:41 boot
drwxr-xr-x  20 root root       4080 jul 29 00:30 dev
drwxr-xr-x  97 root root       4096 jul 25 10:47 etc
drwxr-xr-x   3 root root       4096 jul 25 10:47 home
lrwxrwxrwx   1 root root          7 abr 21 00:57 lib -> usr/lib
lrwxrwxrwx   1 root root          9 abr 21 00:57 lib32 -> usr/lib32
lrwxrwxrwx   1 root root          9 abr 21 00:57 lib64 -> usr/lib64
lrwxrwxrwx   1 root root         10 abr 21 00:57 libx32 -> usr/libx32
drwx------   2 root root      16384 jul 25 10:35 lost+found
drwxr-xr-x   2 root root       4096 abr 21 00:57 media
drwxr-xr-x   2 root root       4096 abr 21 00:57 mnt
drwxr-xr-x   2 root root       4096 abr 21 00:57 opt
dr-xr-xr-x 167 root root          0 jul 28 09:43 proc
drwx------   4 root root       4096 jul 28 10:51 root
drwxr-xr-x  28 root root        820 jul 29 09:26 run
lrwxrwxrwx   1 root root          8 abr 21 00:57 sbin -> usr/sbin
drwxr-xr-x   6 root root       4096 abr 21 01:02 snap
drwxr-xr-x   2 root root       4096 abr 21 00:57 srv
-rw-------   1 root root 1958739968 jul 25 10:38 swap.img
dr-xr-xr-x  13 root root          0 jul 28 09:43 sys
drwxrwxrwt  12 root root       4096 jul 29 09:25 tmp
drwxr-xr-x  14 root root       4096 abr 21 00:57 usr
drwxr-xr-x  13 root root       4096 abr 21 01:01 var
```

A segunda coluna :

- Sempre vai ser um quando for arquivo

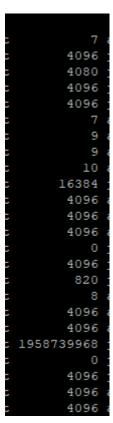- Quando for diretório, esse número vai representar a quantidade de conteúdos dentro do diretório

```
  1
  4
 20
 97
  3
  1
  1
  1
  1
  2
  2
  2
  2
167
  4
 28
  1
  6
  2
  1
 13
 12
 14
 13
```

Lista objetos ocultos

```
faofernando@srv-ubuntu:/opt$ ls -a
.  ..
```

3 coluna - O dono do objeto

4 coluna – Grupo a qual ele pertence

```
dr-xr-xr-x  9 root            root               0 jul 28 09:43 1
dr-xr-xr-x  9 root            root               0 jul 28 09:43 10
dr-xr-xr-x  9 root            root               0 jul 28 09:43 108
dr-xr-xr-x  9 root            root               0 jul 28 09:43 11
dr-xr-xr-x  9 root            root               0 jul 28 09:43 111
dr-xr-xr-x  9 root            root               0 jul 28 09:43 112
dr-xr-xr-x  9 root            root               0 jul 28 09:43 117
dr-xr-xr-x  9 root            root               0 jul 28 09:43 12
dr-xr-xr-x  9 root            root               0 jul 28 09:43 13
dr-xr-xr-x  9 root            root               0 jul 28 23:18 1354
dr-xr-xr-x  9 root            root               0 jul 28 09:43 14
dr-xr-xr-x  9 faofernando     faofernando        0 jul 28 23:30 1451
dr-xr-xr-x  9 faofernando     faofernando        0 jul 28 23:30 1452
dr-xr-xr-x  9 root            root               0 jul 28 09:43 15
dr-xr-xr-x  9 root            root               0 jul 28 09:43 151
dr-xr-xr-x  9 root            root               0 jul 28 09:43 152
dr-xr-xr-x  9 root            root               0 jul 28 09:43 153
dr-xr-xr-x  9 root            root               0 jul 28 09:43 16
dr-xr-xr-x  9 root            root               0 jul 29 00:23 1636
dr-xr-xr-x  9 root            root               0 jul 28 09:43 17
dr-xr-xr-x  9 root            root               0 jul 29 00:23 1785
dr-xr-xr-x  9 root            root               0 jul 28 09:43 18
dr-xr-xr-x  9 root            root               0 jul 29 09:26 1821
dr-xr-xr-x  9 root            root               0 jul 28 09:43 183
dr-xr-xr-x  9 root            root               0 jul 29 09:26 1835
dr-xr-xr-x  9 root            root               0 jul 28 09:43 185
dr-xr-xr-x  9 root            root               0 jul 28 09:43 187
dr-xr-xr-x  9 root            root               0 jul 28 09:43 19
dr-xr-xr-x  9 root            root               0 jul 28 09:43 190
dr-xr-xr-x  9 root            root               0 jul 28 09:43 192
dr-xr-xr-x  9 faofernando     faofernando        0 jul 29 09:41 1932
dr-xr-xr-x  9 faofernando     faofernando        0 jul 29 09:41 1933
dr-xr-xr-x  9 root            root               0 jul 29 09:41 1948
dr-xr-xr-x  9 root            root               0 jul 28 09:43 195
dr-xr-xr-x  9 faofernando     faofernando        0 jul 29 09:41 1960
```

Exibe o tamanho do objeto em bytes

```
c              7 a
c           4096 1
c           4080 1
c           4096 1
c           4096 1
c              7 a
c              9 a
c              9 a
c             10 a
c          16384 1
c           4096 a
c           4096 a
c           4096 a
c              0 1
c           4096 1
c            820 1
c              8 a
c           4096 a
c           4096 a
c     1958739968 1
c              0 1
c           4096 1
c           4096 a
c           4096 a
```

ls -lh – exibe a lista com o tamanho em um formato numérico na qual humanos possam entender.

```
faofernando@srv-ubuntu:/$ ls -lh
total 1,9G
lrwxrwxrwx   1 root root      7 abr 21 00:57 bin -> usr/bin
drwxr-xr-x   4 root root 4,0K jul 25 10:41 boot
drwxr-xr-x  20 root root 4,0K jul 29 00:30 dev
drwxr-xr-x  97 root root 4,0K jul 25 10:47 etc
drwxr-xr-x   3 root root 4,0K jul 25 10:47 home
lrwxrwxrwx   1 root root      7 abr 21 00:57 lib -> usr/lib
lrwxrwxrwx   1 root root      9 abr 21 00:57 lib32 -> usr/lib32
lrwxrwxrwx   1 root root      9 abr 21 00:57 lib64 -> usr/lib64
lrwxrwxrwx   1 root root     10 abr 21 00:57 libx32 -> usr/libx32
drwx------   2 root root  16K jul 25 10:35 lost+found
drwxr-xr-x   2 root root 4,0K abr 21 00:57 media
drwxr-xr-x   2 root root 4,0K abr 21 00:57 mnt
drwxr-xr-x   2 root root 4,0K abr 21 00:57 opt
dr-xr-xr-x 167 root root      0 jul 28 09:43 proc
drwx------   4 root root 4,0K jul 28 10:51 root
drwxr-xr-x  28 root root  820 jul 29 09:26 run
lrwxrwxrwx   1 root root      8 abr 21 00:57 sbin -> usr/sbin
drwxr-xr-x   6 root root 4,0K abr 21 01:02 snap
drwxr-xr-x   2 root root 4,0K abr 21 00:57 srv
-rw-------   1 root root 1,9G jul 25 10:38 swap.img
dr-xr-xr-x  13 root root      0 jul 28 09:43 sys
drwxrwxrwt  12 root root 4,0K jul 29 09:25 tmp
drwxr-xr-x  14 root root 4,0K abr 21 00:57 usr
drwxr-xr-x  13 root root 4,0K abr 21 01:01 var
```

Exibe o tamaho no formato onde humanos possam entender e também o objetos ocultos

```
faofernando@srv-ubuntu:/$ ls -lah
total 1,9G
drwxr-xr-x   19 root root 4,0K jul 25 10:42 .
drwxr-xr-x   19 root root 4,0K jul 25 10:42 ..
lrwxrwxrwx    1 root root    7 abr 21 00:57 bin -> usr/bin
drwxr-xr-x    4 root root 4,0K jul 25 10:41 boot
drwxr-xr-x   20 root root 4,0K jul 29 00:30 dev
drwxr-xr-x   97 root root 4,0K jul 25 10:47 etc
drwxr-xr-x    3 root root 4,0K jul 25 10:47 home
lrwxrwxrwx    1 root root    7 abr 21 00:57 lib -> usr/lib
lrwxrwxrwx    1 root root    9 abr 21 00:57 lib32 -> usr/lib32
lrwxrwxrwx    1 root root    9 abr 21 00:57 lib64 -> usr/lib64
lrwxrwxrwx    1 root root   10 abr 21 00:57 libx32 -> usr/libx32
drwx------    2 root root  16K jul 25 10:35 lost+found
drwxr-xr-x    2 root root 4,0K abr 21 00:57 media
drwxr-xr-x    2 root root 4,0K abr 21 00:57 mnt
drwxr-xr-x    2 root root 4,0K abr 21 00:57 opt
dr-xr-xr-x  166 root root    0 jul 28 09:43 proc
drwx------    4 root root 4,0K jul 28 10:51 root
drwxr-xr-x   28 root root  820 jul 29 09:26 run
lrwxrwxrwx    1 root root    8 abr 21 00:57 sbin -> usr/sbin
drwxr-xr-x    6 root root 4,0K abr 21 01:02 snap
drwxr-xr-x    2 root root 4,0K abr 21 00:57 srv
-rw-------    1 root root 1,9G jul 25 10:38 swap.img
dr-xr-xr-x   13 root root    0 jul 28 09:43 sys
drwxrwxrwt   12 root root 4,0K jul 29 09:25 tmp
drwxr-xr-x   14 root root 4,0K abr 21 00:57 usr
drwxr-xr-x   13 root root 4,0K abr 21 01:01 var
```

V verbose – mostra as steps do comando

```
faofernando@srv-ubuntu:~$ rm -rfv Documentos
removed directory 'Documentos/Escolares'
removed directory 'Documentos'
faofernando@srv-ubuntu:~$
```

I-   Pede confirmação p/ apagar os objetos

```
faofernando@srv-ubuntu:~$ rm -rfvi text2.txt
rm: cannot remove 'text2.txt': No such file or directory
faofernando@srv-ubuntu:~$ rm -rfvi text2*
rm: cannot remove 'text2*': No such file or directory
faofernando@srv-ubuntu:~$ rm -rfvi Test1
rm: descend into directory 'Test1'? y
rm: remove regular empty file 'Test1/text2.txt'? y
removed 'Test1/text2.txt'
rm: remove regular empty file 'Test1/text1.txt'? y
removed 'Test1/text1.txt'
rm: remove directory 'Test1'? y
removed directory 'Test1'
```

Man – abre um manual do comando desejado

```
faofernando@srv-ubuntu:~$ 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 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
```

Mostra os conteúdos recursivamente

```
faofernando@srv-ubuntu:/$ ls -R etc
```