## NDG Linux Unhatched - NDG Linux Unhatched





## **Options**

```
command [options...] [arguments...]
```

Options can be used to alter the behavior of a command. On the previous page, the 1s command was used to list the contents of a directory. In the following example, the -1 option is provided to the 1s command, which results in a "long display" output, meaning the output gives more information about each of the files listed:

```
sysadmin@localhost:~$ 1s -1
```

```
total 32
drwx------ 2 sysadmin sysadmin 4096 Dec 20 2017 Desktop
drwx------ 4 sysadmin sysadmin 4096 Dec 20 2017 Documents
drwx------ 2 sysadmin sysadmin 4096 Dec 20 2017 Downloads
drwx------ 2 sysadmin sysadmin 4096 Dec 20 2017 Music
drwx------ 2 sysadmin sysadmin 4096 Dec 20 2017 Pictures
drwx------ 2 sysadmin sysadmin 4096 Dec 20 2017 Public
drwx------ 2 sysadmin sysadmin 4096 Dec 20 2017 Templates
drwx------ 2 sysadmin sysadmin 4096 Dec 20 2017 Videos
```

Note that, in the command above, -1 is a lowercase letter "L".

Often the character is chosen to be mnemonic for its purpose, like choosing the letter *I* for *long* or *r* for *reverse*. By default, the 1s command prints the results in alphabetical order, so adding the -r option will print the results in reverse alphabetical order.

```
sysadmin@localhost:~$ ls -r
Videos Templates Public Pictures Music Downloads Documents Desktop
```

Multiple options can be used at once, either given as separate options as in -1 -r or combined like -1r. The output of all of these examples would be the same:

```
ls -l -r
ls -rl
ls -lr
```

As explained above, -1 gives a long listing format while -r reverses the listing. The result of using both options is a long listing given in reverse order:

```
sysadmin@localhost:~$ ls -l -r
total 32
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Videos
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Templates
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Public
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Pictures
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Music
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Downloads
drwx----- 4 sysadmin sysadmin 4096 Dec 20 2017 Documents
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Desktop
sysadmin@localhost:~$ ls -rl
total 32
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Videos
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Templates
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Public
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Pictures
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Music
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Downloads
drwx----- 4 sysadmin sysadmin 4096 Dec 20 2017 Documents
drwx----- 2 sysadmin sysadmin 4096 Dec 20 2017 Desktop
```

Ultimately, commands can use many combinations of options and arguments. The possibilities for each command will be unique. Remember the aptitude easter egg?

```
sysadmin@localhost:~$ aptitude moo
There are no Easter Eggs in this program.
```

It is possible to alter the behavior of this command using options. See what happens when the -v (verbose) option is added:

```
sysadmin@localhost:~$ aptitude -v moo
There really are no Easter Eggs in this program.
```

By combining multiple -v options, we can get a variety of responses:

```
sysadmin@localhost:~$ aptitude -vv moo
Didn't I already tell you that there are no Easter Eggs in this program?
sysadmin@localhost:~$ aptitude -vvv moo
Stop it!
```

Remember multiple options can be denoted separately or combined:

```
aptitude -v -v moo
aptitude -vv moo
```

Keep adding -v options to see how many unique responses you can get!