

CÓNQUER BLOCKS

LA SHELL

TRABAJANDO CON LA
TERMINAL

¿QUÉ ES UNA TERMINAL?

```
override@Atul-HP: ~
override@Atul-HP:~$ ls -l
total 212
drwxrwxr-x  5 override override 4096 May 19 03:45 acadenv
drwxrwxr-x  4 override override 4096 May 27 18:20 acadview_demo
drwxrwxr-x 12 override override 4096 May  3 15:14 anaconda3
drwxr-xr-x  6 override override 4096 May 31 16:49 Desktop
drwxr-xr-x  2 override override 4096 Oct 21 2016 Documents
drwxr-xr-x  7 override override 40960 Jun  1 13:09 Downloads
-rw-r--r--  1 override override 8980 Aug  8 2016 examples.desktop
-rw-rw-r--  1 override override 45005 May 28 01:40 hs_err_pid1971.log
-rw-rw-r--  1 override override 45147 Jun  1 03:24 hs_err_pid2006.log
drwxr-xr-x  2 override override 4096 Mar  2 18:22 Music
drwxrwxr-x 21 override override 4096 Dec 25 00:13 Mydata
drwxrwxr-x  2 override override 4096 Sep 20 2016 newbin
drwxrwxr-x  5 override override 4096 Dec 20 22:44 nltk_data
drwxr-xr-x  4 override override 4096 May 31 20:46 Pictures
drwxr-xr-x  2 override override 4096 Aug  8 2016 Public
drwxrwxr-x  2 override override 4096 May 31 19:49 scripts
drwxr-xr-x  2 override override 4096 Aug  8 2016 Templates
drwxrwxr-x  2 override override 4096 Feb 14 11:22 test
drwxr-xr-x  2 override override 4096 Mar 11 13:27 Videos
drwxrwxr-x  2 override override 4096 Sep  1 2016 xdm-helper
override@Atul-HP:~$
```

Una terminal es un programa cuyo objetivo principal es **leer comandos y ejecutar otros programas**.

Las principales ventajas de la terminal son su **alta relación acción-tecla**, su soporte para la **automatización de tareas repetitivas**, y que puede utilizarse para acceder a otras máquinas en una red.



MANIPULAR ARCHIVOS Y NAVEGAR POR LA TERMINAL

```
● Username@MacBook-Pro-2 MasterConquerBlocks % pwd
/Users/Username/Desktop/MasterConquerBlocks
○ Username@MacBook-Pro-2 MasterConquerBlocks %
```

pwd = **p**rint **w**orking **d**irectory

imprime el directorio en el que estamos trabajando

```
● Username@MacBook-Pro-2 MasterConquerBlocks % ls
modulo1          modulo2
○ Username@MacBook-Pro-2 MasterConquerBlocks %
```

ls = **l**ist

Lista el contenido del directorio en el que estamos trabajando

```
● Username@MacBook-Pro-2 MasterConquerBlocks % vim fichero1.txt
● Username@MacBook-Pro-2 MasterConquerBlocks % ls
fichero1.txt      modulo1          modulo2
○ Username@MacBook-Pro-2 MasterConquerBlocks %
```

Vim - Editor de texto presente en todos los sistemas Unix.

Puede servirnos para hacer cambios rápidos en un fichero o para ver más rápidamente su contenido.

Con VSCode no es necesario usarlo, podemos abrir el fichero en la zona de ficheros de VScode

PROBLEMAS SALIDA CONSOLA DE DEPURACIÓN TERMINAL

```
Esto es vim, un editor integrado en la terminal
```

```
~
~
~
~
~
~
~
```

```
"fichero1.txt" 1L, 48B written
```




MANIPULAR ARCHIVOS Y NAVEGAR POR LA TERMINAL

```

● Username@MacBook-Pro-2 MasterConquerBlocks % ls
  fichero1.txt      modulo1      modulo2
● Username@MacBook-Pro-2 MasterConquerBlocks % rm fichero1.txt
● Username@MacBook-Pro-2 MasterConquerBlocks % ls
  modulo1      modulo2      video1482408536.mp4
○ Username@MacBook-Pro-2 MasterConquerBlocks %
  
```

rm = **remove**

Borra un fichero

```

● Username@MacBook-Pro-2 MasterConquerBlocks % mkdir modulo3
● Username@MacBook-Pro-2 MasterConquerBlocks % ls
  modulo1      modulo2      modulo3
○ Username@MacBook-Pro-2 MasterConquerBlocks %
  
```

mkdir = **make directory**

Crear un directorio

```

● Username@MacBook-Pro-2 MasterConquerBlocks % ls
  modulo1      modulo2      modulo3
● Username@MacBook-Pro-2 MasterConquerBlocks % rmdir modulo3
● Username@MacBook-Pro-2 MasterConquerBlocks % ls
  modulo1      modulo2      video1482408536.mp4
○ Username@MacBook-Pro-2 MasterConquerBlocks %
  
```

rmdir = **remove directory**

Eliminar un directorio

```

● Username@MacBook-Pro-2 MasterConquerBlocks % ls
  modulo1      modulo2      modulo3
● Username@MacBook-Pro-2 MasterConquerBlocks % rm -r modulo3
● Username@MacBook-Pro-2 MasterConquerBlocks % ls
  modulo1      modulo2      video1482408536.mp4
○ Username@MacBook-Pro-2 MasterConquerBlocks %
  
```

rm -r = **remove recursively**

Eliminar recursivamente el contenido del directorio

MANIPULAR ARCHIVOS Y NAVEGAR POR LA TERMINAL

```
modulo1 modulo2 video1
❌ Username@MacBook-Pro-2 MasterConquerBlocks % man rm

zsh: suspended man rm
○ Username@MacBook-Pro-2 MasterConquerBlocks %
```

man = **man**ual

Manual con todas las opciones para cada uno de los comandos

RM(1)

General Commands Manual

RM(1)

NAME

rm, unlink – remove directory entries

SYNOPSIS

rm [-f | -i] [-dIRvWx] file ...
unlink [--] file

DESCRIPTION

The **rm** utility attempts to remove the non-directory type files specified on the command line. If the permissions of the file do not permit writing, and the standard input device is a terminal, the user is prompted (on the standard error output) for confirmation.

The options are as follows:

| | | | |
|-----------|--|-----------|--|
| -d | Attempt to remove directories as well as other types of files. | -P | This flag has no effect. It is kept only for backwards compatibility with 4.BSD-Lite2. |
| -f | Attempt to remove the files without prompting for confirmation, regardless display a diagnostic message or modify the exit status to reflect an error. | -R | Attempt to remove the file hierarchy rooted in each file argument. The -R option implies the -d option. If the -i option is specified, the user is prompted for confirmation before each directory's contents are processed (as well as before the attempt is made to remove the directory). If the user does not respond affirmatively, the file hierarchy rooted in that directory is skipped. |
| -i | Request confirmation before attempting to remove each file, regardless of a terminal. The -i option overrides any previous -f options. | -r | Equivalent to -R . |
| -I | Request confirmation once if more than three files are being removed or if intrusive option than -i yet provides almost the same level of protection. | -v | Be verbose when deleting files, showing them as they are removed. |
| -P | This flag has no effect. It is kept only for backwards compatibility with 4.BSD-Lite2. | -W | Attempt to undelete the named files. Currently, this option can only be used to recover files covered by whiteouts in a union file system (see undelete(2)). |
| | | -x | When removing a hierarchy, do not cross mount points. |

The **rm** utility removes symbolic links, not the files referenced by the links.

It is an error to attempt to remove the files **/**, **.** or **..**.

When the utility is called as **unlink**, only one argument, which must not be a directory, may be supplied. No options may be supplied in this simple mode of operation, which performs an unlink(2) operation on the passed argument. However, the usual option-end delimiter, **--**, may optionally precede the argument.

EXIT STATUS

The **rm** utility exits **0** if all of the named files or file hierarchies were removed, or if the **-f** option was specified and all of the existing files or file hierarchies were removed. If an error occurs, **rm** exits with a value **>0**.



MANIPULAR ARCHIVOS Y NAVEGAR POR LA TERMINAL

```
● Username@MacBook-Pro-2 modulo1 % cd
● Username@MacBook-Pro-2 ~ % pwd
  /Users/Username
○ Username@MacBook-Pro-2 ~ %
```

```
● Username@MacBook-Pro-2 MasterConquerBlocks % cd modulo3
● Username@MacBook-Pro-2 modulo3 % pwd
  /Users/Username/Desktop/MasterConquerBlocks/modulo3
○ Username@MacBook-Pro-2 modulo3 %
```

```
● Username@MacBook-Pro-2 modulo1 % cd .
● Username@MacBook-Pro-2 modulo1 % cd ..
○ Username@MacBook-Pro-2 MasterConquerBlocks %
```

```
● Username@MacBook-Pro-2 ~ % pwd
  /Users/Username
● Username@MacBook-Pro-2 ~ % cd Desktop/MasterConquerBlocks/modulo1
○ Username@MacBook-Pro-2 modulo1 %
```

cd = **c**hange **d**irectory

Cambia a tu directorio de Login

cd *dir*

Cambia a un directorio dentro del directorio actual

cd .

. = directorio actual

cd ..

.. = directorio superior

cd *PATH*

Cambiar al directorio en la ubicación PATH



MANIPULAR ARCHIVOS Y NAVEGAR POR LA TERMINAL

```

● Username@MacBook-Pro-2 modulo2 % cd ..
● Username@MacBook-Pro-2 MasterConquerBlocks % ls
  modulo1          modulo2          video1482408536.mp4
● Username@MacBook-Pro-2 MasterConquerBlocks % cp modulo2/fichero1.txt .
● Username@MacBook-Pro-2 MasterConquerBlocks % ls
  fichero1.txt      modulo1          modulo2
○ Username@MacBook-Pro-2 MasterConquerBlocks %
  
```

```

● Username@MacBook-Pro-2 modulo2 % cp -r ../modulo1 .
● Username@MacBook-Pro-2 modulo2 % ls
  fichero1.txt      modulo1
○ Username@MacBook-Pro-2 modulo2 %
  
```

```

● Username@MacBook-Pro-2 MasterConquerBlocks % cp -r ../modulo1/ ../modulo2
○ Username@MacBook-Pro-2 MasterConquerBlocks %
  
```

cp *PATH* . = **copy** file in *PATH* in current directory

Copiar fichero en *PATH* al directorio actual

cp -r *PATH* . = **copy** recursively the directory in *PATH* in current directory

Copiar recursivamente el directorio en la ubicación *PATH* en el directorio actual

cp -r *PATH1 PATH2* = **copy** recursively the directory in *PATH1* in the directory in *PATH2*

Copiar recursivamente el directorio en la ubicación *PATH1* en el directorio en la ubicación *PATH2*



MANIPULAR ARCHIVOS Y NAVEGAR POR LA TERMINAL

```
● Username@MacBook-Pro-2 MasterConquerBlocks % ls
fichero1.txt      fichero2.txt      modulo1           modulo2
● Username@MacBook-Pro-2 MasterConquerBlocks % cat fichero1.txt fichero2.txt > fichero3.txt
● Username@MacBook-Pro-2 MasterConquerBlocks % ls
fichero1.txt      fichero2.txt      fichero3.txt      modulo1
○ Username@MacBook-Pro-2 MasterConquerBlocks %
```

cat = concatenate two files and create a new one

Unir dos archivos y crear uno nuevo

head

Muestra las primeras lineas de un archivo

```
● Username@MacBook-Pro-2 MasterConquerBlocks % head fichero1.txt
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean rutrum eu metus eget con
gue. Ut venenatis mi sed justo vulputate tristique. Donec cursus vehicula dignissim. Mae
cenas rutrum turpis purus, non posuere ligula rutrum at. Phasellus dignissim est in feug
iat consectetur. Nullam tincidunt felis vitae feugiat auctor. Aliquam eleifend eleifend
quam a mattis. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
● Username@MacBook-Pro-2 MasterConquerBlocks % tail fichero1.txt
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean rutrum eu metus eget con
gue. Ut venenatis mi sed justo vulputate tristique. Donec cursus vehicula dignissim. Mae
cenas rutrum turpis purus, non posuere ligula rutrum at. Phasellus dignissim est in feug
iat consectetur. Nullam tincidunt felis vitae feugiat auctor. Aliquam eleifend eleifend
quam a mattis. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Pellentesque suscipit magna sit amet augue convallis dapibus. Fusce vitae massa nec just
o feugiat blandit. Mauris a aliquet quam, in euismod libero. Fusce sed quam et leo conse
quat convallis. Praesent aliquam sit amet nisi eu malesuada. In vestibulum dapibus conse
quat. Nulla volutpat finibus est. Etiam vitae nisi sit amet urna pellentesque fringilla
sed a risus.

Nam vel purus dictum, accumsan ante faucibus, vulputate eros. Nam a aliquet dolor, ut el
eifend elit. Morbi ac interdum odio. Suspendisse porttitor velit dolor, vel rhoncus ex r
honcus vel. Aliquam varius tellus id vehicula efficitur. Donec mollis hendrerit lacus, e
get viverra nisi facilisis eu. Donec at laoreet enim.

Etiam luctus mattis diam eu aliquam. Pellentesque orci urna, mattis et lacus sit amet, m
aximus finibus diam. Maecenas faucibus sapien aliquam dignissim maximus. Nulla vitae ero
s rutrum, ornare nulla eu, pharetra tellus. Phasellus nec accumsan velit, venenatis maxi
mus nisi. Interdum et malesuada fames ac ante ipsum primis in faucibus. Aenean sollicitu
din lacinia pretium.

Vivamus vitae efficitur risus. Morbi pellentesque mauris mi, in fermentum purus tempor n
ec. Aliquam imperdiet tempus augue, sed ornare nibh ultricies a. Donec eget arcu tincidu
nt, viverra nunc nec, pretium turpis. In varius vel tortor eu auctor. Morbi leo nisl, pl
acerat ac erat sit amet, lacinia viverra lacus. Vivamus aliquet finibus sem, vitae biben
dum dolor tincidunt at. Nam volutpat vitae diam nec pellentesque.
○ Username@MacBook-Pro-2 MasterConquerBlocks %
```

tail

Muestra las últimas lineas de un archivo

CONTROL/COMMAND + C

Kill/Matar un proceso

CONTROL/COMMAND + Z

Suspender un proceso

CÔNQUER BLOCKS