

WORKSHOP

1.faire

```
y@y-VirtualBox:~$ man  
What manual page do you want?  
y@y-VirtualBox:~$
```

2."what manual page do you want?", parce que la Commande vide

3.faire

```
What manual page do you want?  
y@y-VirtualBox:~$ man ls  
y@y-VirtualBox:~$
```

4.faire

```
File Edit View Search Terminal Help
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

Manual page ls(1) line 1 (press h for help or q to quit)
```

- espace: pour la page suivante
- entrée: pour la ligne suivante
- b: pour la page précédente
- G : dernier ligne de la documentation ls
- b : active le pourcentage
- q : quitter le manuel de la commande ls

5.-no parce que Il n'y a pas de commande de ce nom

-man 3 ls introuvable

6.faire

```

y@y-VirtualBox:~$ ls -l
total 48
drwxr-xr-x 2 y y 4096 янв 7 03:22 Desktop
drwxr-xr-x 2 y y 4096 янв 7 03:22 Documents
drwxr-xr-x 2 y y 4096 янв 7 03:22 Downloads
-rw-r--r-- 1 y y 8980 янв 7 03:16 examples.desktop
drwxr-xr-x 2 y y 4096 янв 7 03:22 Music
drwxr-xr-x 2 y y 4096 янв 7 03:22 Pictures
drwxr-xr-x 2 y y 4096 янв 7 03:22 Public
drwxr-xr-x 3 y y 4096 янв 7 06:12 snap
drwxr-xr-x 2 y y 4096 янв 7 03:22 Templates
drwxr-xr-x 2 y y 4096 янв 7 03:22 Videos
y@y-VirtualBox:~$ ls -h
Desktop      Downloads      Music      Public      Templates
Documents    examples.desktop Pictures    snap      Videos

```

```

y@y-VirtualBox:~$ ls -l -h
total 48K
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Desktop
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Documents
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Downloads
-rw-r--r-- 1 y y 8,8K янв 7 03:16 examples.desktop
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Music
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Pictures
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Public
drwxr-xr-x 3 y y 4,0K янв 7 06:12 snap
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Templates
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Videos
y@y-VirtualBox:~$ ls -lh
total 48K
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Desktop
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Documents
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Downloads
-rw-r--r-- 1 y y 8,8K янв 7 03:16 examples.desktop
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Music
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Pictures
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Public
drwxr-xr-x 3 y y 4,0K янв 7 06:12 snap
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Templates
drwxr-xr-x 2 y y 4,0K янв 7 03:22 Videos

```

7.-faire

```

y@y-VirtualBox:~$ ls -lct
total 32
drwxr-xr-x 2 y y 4096 رياني 7 21:16 Templates
drwxr-xr-x 2 y y 4096 رياني 7 21:16 Desktop
drwxr-xr-x 2 y y 4096 رياني 7 21:16 Documents
drwxr-xr-x 2 y y 4096 رياني 7 21:16 Downloads
drwxr-xr-x 2 y y 4096 رياني 7 21:16 Music
drwxr-xr-x 2 y y 4096 رياني 7 21:16 Pictures
drwxr-xr-x 2 y y 4096 رياني 7 21:16 Public
drwxr-xr-x 2 y y 4096 رياني 7 21:16 Videos
y@y-VirtualBox:~$ ls -a
.          .bashrc  Desktop  Downloads  .local    .profile  Videos   .xscreensaver
..         .cache   .dmrc    .gnupg     Music     Public    .Xauthority .xsession-errors
.bash_logout .config  Documents .ICEauthority Pictures   Templates .Xdefaults
y@y-VirtualBox:~$ ls /etc/
acpi                  gnome                machine-id            resolv.conf
adduser.conf          gnome-system-tools  magic                 rmt
alternatives          groff                magic.mime            rpc
anacrontab            group               mailcap               rsyslog.conf
apm                   group-              mailcap.order         rsyslog.d
apparmor              grub.d              manpath.config        sane.d
apparmor.d            gshadow             mime.types             securetty
appport               gshadow-            mke2fs.conf           security
appstream.conf        gss                 modprobe.d            selinux
apt                   gtk-2.0             modules               sensors3.conf
avahi                 gtk-3.0             modules-load.d        sensors.d
bash.bashrc           guest-session       mtab                  services

```

```

y@y-VirtualBox:~$ ls --color
Desktop Documents Downloads Music Pictures Public Templates Videos
y@y-VirtualBox:~$ lsusb
Bus 001 Device 002: ID 80ee:0021 VirtualBox USB Tablet
Bus 001 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
y@y-VirtualBox:~$

```

-Il existe de légères différences entre ces commandes

8.-faire

```

y@y-VirtualBox:~$ pwd
/home/y
y@y-VirtualBox:~$

```

-Cette commande permet d'afficher l'emplacement

-faire

```

y@y-VirtualBox:~$ cd /
y@y-VirtualBox:/$

```

-Nous sommes revenus à le root

9.faire

```

y@y-VirtualBox:/$ cd ~
y@y-VirtualBox:~$ cd
y@y-VirtualBox:~$ cd ..
y@y-VirtualBox:/home$ cd /usr/bin
y@y-VirtualBox:/usr/bin$ cd -
/home

```

10.faire


```
y@y-VirtualBox:~$ mkdir yassine
y@y-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos yassine
y@y-VirtualBox:~$ rmdir yassine
y@y-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
```

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```
y@y-VirtualBox:~$ mkdir yassine
y@y-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos yassine
```

12.faire

```
y@y-VirtualBox:~$ touch README.md
y@y-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public README.md Templates Videos yassine
```

13.faire

```
y@y-VirtualBox:~$ cp README.md yassine
y@y-VirtualBox:~$ cd yassine
y@y-VirtualBox:~/yassine$ ls
README.md
y@y-VirtualBox:~/yassine$ cd ~
y@y-VirtualBox:~$ rm README.md
y@y-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos yassine
```

14.faire

```

'3D Objects'      'Mes documents'
AppData           MicrosoftEdgeBackups
'Application Data' Modèles
Contacts          Music
Cookies           new
Desktop           NTUSER.DAT
Documents         ntuser.dat.LOG1
Downloads         ntuser.dat.LOG2
Favorites         NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TM.blf
firebase.json     NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000001.regtrans-m
Links            NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000002.regtrans-m
'Local Settings'  ntuser.ini
'Menu Démarrer'   OneDrive

user@user-PC MINGW64 ~ (master)
$ cd new

user@user-PC MINGW64 ~/new (master)
$ mv old.txt ~

user@user-PC MINGW64 ~/new (master)
$ cd

user@user-PC MINGW64 ~ (master)
$ ls
'3D Objects'      'Mes documents'
OneDrive          MicrosoftEdgeBackups
AppData           public
Pictures

Contacts          Music
Cookies           new
Desktop           NTUSER.DAT
Documents         ntuser.dat.LOG1
Downloads         ntuser.dat.LOG2
Favorites         NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TM.blf
firebase.json     NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000001.regtrans-ms
Links            NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000002.regtrans-ms
'Local Settings'  ntuser.ini
'Menu Démarrer'   old.txt
Recent
'Saved Games'
Searches
SendTo
Videos
'Virtual Machines'
'VirtualBox VMs'
"Voisinage d'impression"
'Voisinage réseau'

```

15.faire

```

user@user-PC MINGW64 ~ (master)
$ mkdir new2

user@user-PC MINGW64 ~ (master)
$ ls
'3D Objects'
AppData
'Application Data'
Contacts
Cookies
Desktop
Documents
Downloads
Favorites
firebase.json
Links
'Local Settings'
'Menu Démarrer'
'Mes documents'
MicrosoftEdgeBackups
Modèles
Music
Muusic
new
new2
NTUSER.DAT
ntuser.dat.LOG1
ntuser.dat.LOG2
NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TM.blf
NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000001.regtrans-ms
NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000002.regtrans-ms
ntuser.ini
old.txt
OneDrive
Pictures
public
Recent
'Saved Games'
Searches
SendTo
Videos
'Virtual Machines'
'VirtualBox VMs'
"Voisinage d'impression"
'Voisinage réseau'

user@user-PC MINGW64 ~ (master)
$ cp -r new new2

user@user-PC MINGW64 ~ (master)
$ cd new2

user@user-PC MINGW64 ~/new2 (master)
$ ls
new

```

16.faire

```

user@user-PC MINGW64 ~ (master)
$ cp -r new new2

user@user-PC MINGW64 ~ (master)
$ ls
'3D Objects'      Links          NTUSER.DAT      Recent
AppData           'Local Settings' ntuser.dat.LOG1 'Saved Games'
'Application Data' 'Menu Démarrer' ntuser.dat.LOG2 Searches
Contacts          'Mes documents' NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TM.blf SendTo
Cookies           MicrosoftEdgeBackups NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000001.regtrans-ms user
Desktop           Modèles        NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000002.regtrans-ms Videos
Documents         Music          ntuser.ini      'Virtual Machines'
Downloads         Muusic         OneDrive        'VirtualBox VMs'
Favorites         new           Pictures        "Voisinage d'impression"
firebase.json     new2         public          'Voisinage réseau'

user@user-PC MINGW64 ~ (master)
$ cd new2

user@user-PC MINGW64 ~/new2 (master)
$ ls
new

user@user-PC MINGW64 ~/new2 (master)
$ cd new

user@user-PC MINGW64 ~/new2/new (master)
$ ls
old.txt

```

17.faire

```

user@user-PC MINGW64 ~/new2/new (master)
$ ls
old.txt

user@user-PC MINGW64 ~/new2/new (master)
$ ln -s old.txt OLD

user@user-PC MINGW64 ~/new2/new (master)
$ ls
OLD  old.txt

user@user-PC MINGW64 ~/new2/new (master)
$ rm OLD

user@user-PC MINGW64 ~/new2/new (master)
$ ls
old.txt

```

18.faire

```

user@user-PC MINGW64 ~ (master)
$ cat > fich.txt
hi
2
4
5
6

user@user-PC MINGW64 ~ (master)

```

19.faire


```
user@user-PC MINGW64 ~ (master)
$ cat -n fich.txt
1 hi
2 2
3 4
4 5
```

20.faire

```
user@user-PC MINGW64 ~ (master)
$ cat > fich2.txt
hi
23
45
67

user@user-PC MINGW64 ~ (master)
$ ls
'3D Objects'/      Links/              NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TM.b1f      Videos/              new2/
AppData/            'Local Settings'@  NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000001.regtrans-ms  'Virtual Machines'/  ntuser.dat.LOG1
'Application Data'@ 'Menu Démarrer'@  NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000002.regtrans-ms  'VirtualBox VMs'/     ntuser.dat.LOG2
Contacts/           'Mes documents'@  OneDrive/              'Voisinage d'impression'@  ntuser.ini
Cookies@            MicrosoftEdgeBackups/ Pictures/               'Voisinage réseau'@     old.txt
Desktop/            Modeles@           Recent@                fich.txt
Documents/          Music/             'Saved Games'/         fich2.txt
Downloads/          Muusic/            Searches/               firebase.json
Favorites/          NTUSER.DAT         SendTo@                new/
```

After being invite-only and quietly releasing an iOS app[3] in February 2017, Google formally launched Meet in March 2017.[4] The service was unveiled as a video conferencing app for participants, described as an enterprise-friendly version of Hangouts. It has launched with a web app, an Android app, an Symbian app, and an iOS app.

While Google Meet introduced the above features to upgrade the original Hangouts application, some standard Hangouts features were deprecated, including viewing attendees and chat s[1]y. The number of video feeds allowed at one time was also reduced to 8 (while up to 4 feeds can be shown in a "tiles" layout), prioritizing those attendees who most recently used t[1]hose. Additionally features such as the chat box were changed to overlay the video feeds, rather than resizing the latter to fit.[citation needed]

During the 2020 COVID-19 pandemic, the use of Meet grew by a factor of 30 between January and April of 2020, with 100 million users a day accessing Meet, compared to 200 million dai[1] Zoom as of the last week of April 2020.[5][6][7] Google suspended its usual 60 minute limit for unpaid accounts.

Features
Features of Google Meet include:

- Two-way and multi-way audio and video calls with a resolution up to 720p
- An accompanying chat
- Call encryption between all users[8]
- Noise cancelling audio filter
- Low-light mode for video
- Ability to join meetings through a web browser or through Android or iOS apps
- Integration with Google Calendar and Google Contacts for one-click meeting calls
- Screen-sharing to present documents, spreadsheets, presentations, or (if using a browser) other browser tabs[8]
- Ability to call into meetings using a dial-in number in the US
- Hosts being able to deny entry and remove users during a call.[9]
- Google Meet uses proprietary protocols for video, audio and data transcoding. However, Google has partnered with the company Pexip to provide interoperability between Google Meet and -based conferencing equipment and software.[10]

Google Workspace accounts
Features for users who use Google Workspace accounts include:

- Up to 100 members per call for Google Workspace Starter users, up to 150 for Google Workspace Business users, and up to 250 for Google Workspace Enterprise users[8][11][12][13]
- Ability to call into meetings with a dial-in number from selected countries[8]
- Password-protected dial-in numbers for Google Workspace Enterprise edition users
- Real-time closed captioning based on speech recognition
- Background blurring
- In March 2020, Google temporarily extended advanced features present in the enterprise edition to anyone using Google Workspace or G Suite for Education[14] editions.

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```
user@user-PC MINGW64 ~ (master)
$ ls
'3D Objects'/      Links/              NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TM.b1f      Videos/              new2/
AppData/            'Local Settings'@  NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000001.regtrans-ms  'Virtual Machines'/  ntuser.dat.LOG1
'Application Data'@ 'Menu Démarrer'@  NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000002.regtrans-ms  'VirtualBox VMs'/     ntuser.dat.LOG2
Contacts/           'Mes documents'@  OneDrive/              'Voisinage d'impression'@  ntuser.ini
Cookies@            MicrosoftEdgeBackups/ Pictures/               'Voisinage réseau'@     old.txt
Desktop/            Modeles@           Recent@                fich.txt
Documents/          Music/             'Saved Games'/         fich2.txt
Downloads/          Muusic/            Searches/               firebase.json
Favorites/          NTUSER.DAT         SendTo@                new/

user@user-PC MINGW64 ~ (master)
$ less fich2.txt

user@user-PC MINGW64 ~ (master)
```

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- Real-time closed captioning based on speech recognition

- Background blurring

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YASSINE AZDOUD
Le 1/8/2021