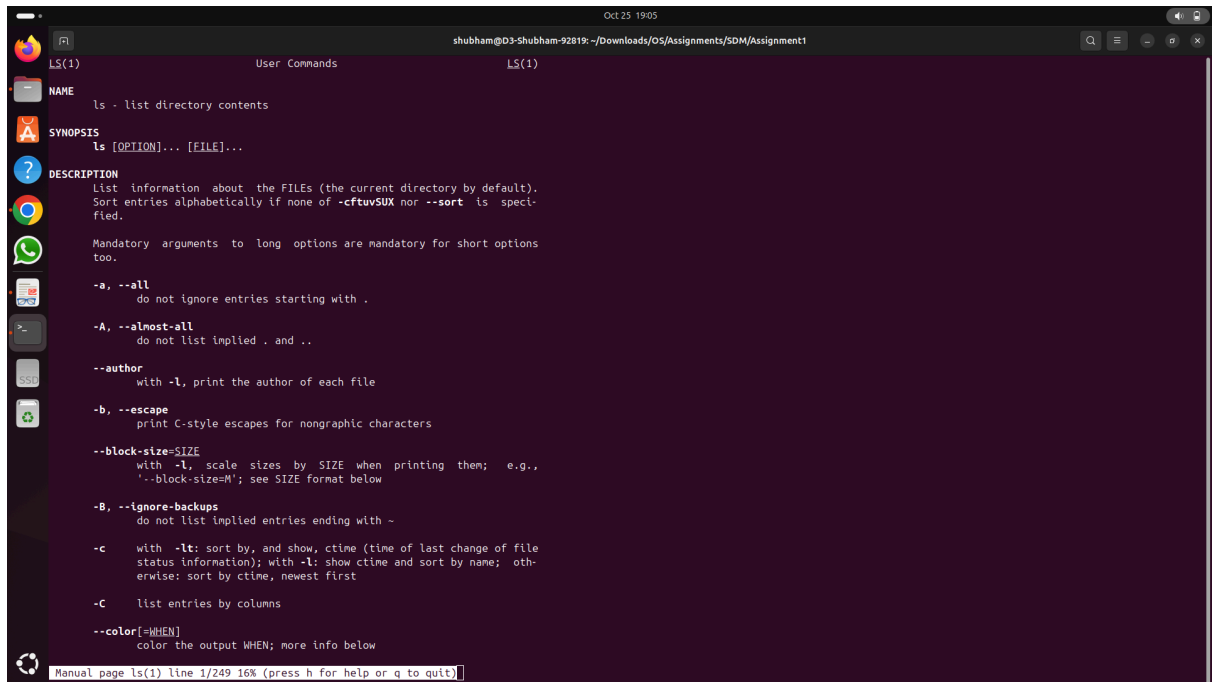


## 1. Man



```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1
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
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 ~

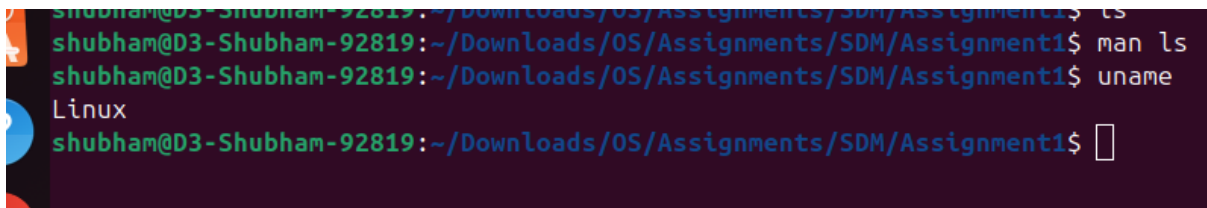
-c
with -lt: sort by, and show, ctime (time of last change of file
status information); with -l: show ctime and sort by name; oth-
erwise: sort by ctime, newest first

-C
list entries by columns

--color[=WHEN]
color the output WHEN; more info below

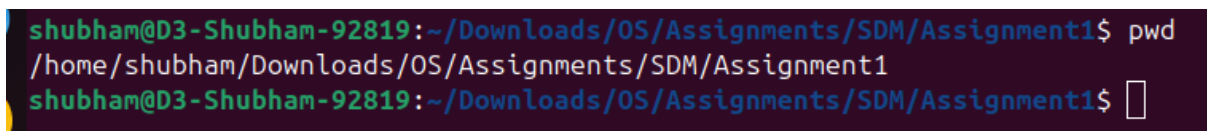
Manual page ls(1) line 1/249 16% (press h for help or q to quit)
```

## 2. Uname



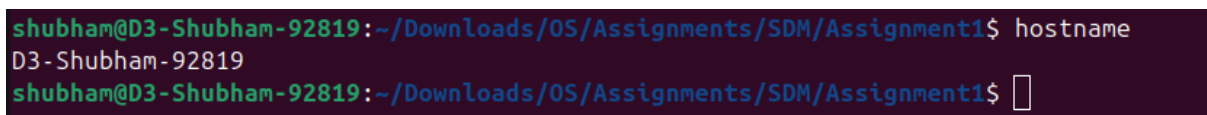
```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ man ls
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ uname
Linux
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 3. Pwd



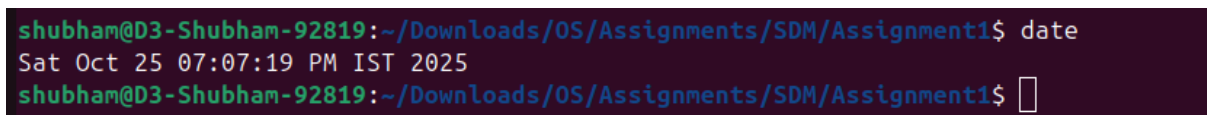
```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ pwd
/home/shubham/Downloads/OS/Assignments/SDM/Assignment1
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 4. Hostname



```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ hostname
D3-Shubham-92819
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 5. Date



```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ date
Sat Oct 25 07:07:19 PM IST 2025
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 6. Cal

```
Processing triggers for man-db (2.12.0-4build2) ...
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cal
October 2025
Su Mo Tu We Th Fr Sa
          1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31

shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 7. ls, dir

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ dir
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat
Shubham
Shubham
Shinjde
Shinjde
Jay
Jay
Ganesh
Ganesh
```

## 8. Cat

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat > file1.txt
Jay Ganesh
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat file1.txt
Jay Ganesh
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 9. cat >>

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat >> file2.txt
Shubham
Abhi
Harsh
Harya
Om
Omkar
Karan
10
24
64\
245
321

shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat file2.txt
Jay Ganesh
Shubham
Abhi
Harsh
Harya
Om
Omkar
Karan
10
24
64\
245
321
```

## 10. Cp

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ man cp
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cp file1.txt file1.txt
cp: 'file1.txt' and 'file1.txt' are the same file
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cp file1.txt file2.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
file1.txt  file2.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat file
file1.txt  file2.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat file
file1.txt  file2.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat file2.txt
Jay Ganesh
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat file1.txt
Jay Ganesh
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 11. Mv

```
Try 'mv --help' for more information.
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ mv file1.txt file2.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
file2.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 12. tac, rev

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ tac file2.txt
321
245
64\
24
10
Karan
Omkar
Om
Harya
Harsh
Abhi
Shubham
Jay Ganesh
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

```

shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ man rev
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ rev file2.txt
hsenaG yaJ
mahbuH
ihbA
hsraH
ayraH
mO
rakmO
naraK
01
42
\46
542
123

shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ 

```

### 13. Wc

```

shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ wc file2.txt
14 14 70 file2.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ 

```

### 14. Mkdir

```

shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ mkdir Sunbeam
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
file2.txt  Sunbeam
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ 

```

### 15. Cd

```

shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cd Sunbeam/
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1/Sunbeam$ 

```

### 16. Rm

```

shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ rm file2.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
Sunbeam
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ rm -R Sunbeam/
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ 

```

### 17. Rmdir

```

shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ rm file2.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
Sunbeam
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ rm -R Sunbeam/
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ 

```

### 18. Rmdir

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ mkdir Sunbeam
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
Sunbeam
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ rmdir Sunbeam/
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 19. Touch

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ man touch
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ touch file1.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
file1.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ touch file{1..100}.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ls
file100.txt  file16.txt  file22.txt  file29.txt  file35.txt  file41.txt  file48.txt  file54.txt  file60.txt  file67.txt  file73.txt  file7.txt  file86.txt  file92.txt  file99.txt
file10.txt  file17.txt  file23.txt  file2.txt  file36.txt  file42.txt  file49.txt  file55.txt  file61.txt  file68.txt  file74.txt  file80.txt  file87.txt  file93.txt  file9.txt
file11.txt  file18.txt  file24.txt  file30.txt  file37.txt  file43.txt  file4.txt  file56.txt  file62.txt  file69.txt  file75.txt  file81.txt  file88.txt  file94.txt
file12.txt  file19.txt  file25.txt  file31.txt  file38.txt  file44.txt  file50.txt  file57.txt  file63.txt  file66.txt  file76.txt  file82.txt  file89.txt  file95.txt
file13.txt  file1.txt  file26.txt  file32.txt  file39.txt  file45.txt  file51.txt  file58.txt  file64.txt  file70.txt  file77.txt  file83.txt  file8.txt  file96.txt
file14.txt  file20.txt  file27.txt  file33.txt  file3.txt  file46.txt  file52.txt  file59.txt  file65.txt  file71.txt  file78.txt  file84.txt  file90.txt  file97.txt
file15.txt  file21.txt  file28.txt  file34.txt  file40.txt  file47.txt  file53.txt  file5.txt  file66.txt  file72.txt  file79.txt  file85.txt  file91.txt  file98.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 20. Sort

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat >> file1.txt
Shubham
Shinde
Ran
Abhi
Potr
Omkar
Dada
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ sort file1.txt
Abhi
Dada
Omkar
Potr
Ran
Shinde
Shubham
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 21. Uniq

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ uniq file1.txt
Shubham
Shinde
Omakr
daada
PK
Omakr
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 22. Head

```

shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat file1.txt
Shubham
Shubham
Shinde
Omakr
daada
PK
Omakr10
45
85
76
24
20
23

Dadad
Shinde
Shubham
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ head file1.txt
Shubham
Shubham
Shinde
Omakr
daada
PK
Omakr10
45
85
76
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ 

```

### 23. Tail

```

shubham@D3-Shubham-92819: ~/Downl
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ cat file1.txt
Shubham
Shubham
Shinde
Omakr
daada
PK
Omakr10
45
85
76
24
20
23

Dadad
Shinde
Shubham
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ tail -n 5 file1.txt
23

Dadad
Shinde
Shubham
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ 

```

### 24. Factor

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ man factor
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ factor 100
100: 2 2 5 5
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 25. Alias

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ alias l = "ls"
alias l='ls -CF'
bash: alias: =: not found
alias ls='ls --color=auto'
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ l
file1.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 26. Unalias

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ l
file1.txt
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ unalias l
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ l
l: command not found
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 27. Echo

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ echo "Shubham Shinde is good Boy"
Shubham Shinde is good Boy
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 28. Ps

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ps
  PID TTY          TIME CMD
  6689 pts/0    00:00:00 bash
  7396 pts/0    00:00:00 ps
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 29. Kill

```
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ sleep 60&
[1] 7586
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ps
  PID TTY          TIME CMD
  6689 pts/0    00:00:00 bash
  7586 pts/0    00:00:00 sleep
  7587 pts/0    00:00:00 ps
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ^C
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ kill 7586
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ ps
  PID TTY          TIME CMD
  6689 pts/0    00:00:00 bash
  7588 pts/0    00:00:00 ps
[1]+  Terminated                  sleep 60
shubham@D3-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$
```

## 30. env

```
shubham@03-Shubham-92819:~/Downloads/OS/Assignments/SDM/Assignment1$ env
SHELL=/bin/bash
SESSION_MANAGER=local/shubham:0/tmp/.ICE-unix/2028,unix/shubham:/tmp/.ICE-unix/2028
QT_ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
XDG_MENU_PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
GNOME_SHELL_SESSION_MODE=ubuntu
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
MEMORY_PRESSURE_WRITE=c29tZSAyMDAwMDAgMjAwMDAwMAA=
XMODIFIERS=@im=ibus
DESKTOP_SESSION=ubuntu
GTK_MODULES=gail:atk-bridge
DBUS_STARTER_BUS_TYPE=session
PWD=/home/shubham/Downloads/OS/Assignments/SDM/Assignment1
LOGNAME=shubham
XDG_SESSION_DESKTOP=ubuntu
XDG_SESSION_TYPE=wayland
SYSTEMD_EXEC_PID=2028
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.453VE3
HOME=/home/shubham
USERNAME=shubham
IM_CONFIG_PHASE=1
LANG=en_US.UTF-8
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33:01:cd=40;33:01:or=40;31;01:mi=00:su=37;41:sg=30;43:ca=00:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=01;31:*.tg
z=01;31:*.arc=01;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lzh=01;31:*.lzma=01;31:*.tlz=01;31:*.txz=01;31:*.tzo=01;31:*.t7z=01;31:*.zip=01;31:*.z=01;31:*.dz=01;31:*.gz=01;31
:*.lrz=01;31:*.lzo=01;31:*.xz=01;31:*.zst=01;31:*.tzt=01;31:*.bz2=01;31:*.bz=01;31:*.tbz=01;31:*.tbz2=01;31:*.tz=01;31:*.deb=01;31:*.rpm=01;31:*.jar=01;31:*.war=01;31:*.ear
=01;31:*.sar=01;31:*.rar=01;31:*.alz=01;31:*.ace=01;31:*.zoo=01;31:*.cpio=01;31:*.7z=01;31:*.r=01;31:*.cab=01;31:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.esd=01;31:*.avif=01;35:*.jpg=01
;35:*.jpeg=01;35:*.njpg=01;35:*.njpeg=01;35:*.gif=01;35:*.bmp=01;35:*.pbm=01;35:*.pgm=01;35:*.ppm=01;35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01
;35:*.svgz=01;35:*.mng=01;35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.webm=01;35:*.webp=01;35:*.ogm=01;35:*.mp4=01;35:*.m4v=01;35:*.mp4v=01;35:*.vob=0
1;35:*.qt=01;35:*.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmvb=01;35:*.flc=01;35:*.avi=01;35:*.fli=01;35:*.flv=01;35:*.gl=01;35:*.dl=01;35:*.xcf=01;35:*.xwd=01;35:*.yuv=01;35:*.
cgm=01;35:*.emf=01;35:*.ogv=01;35:*.ogx=01;35:*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.midi=00;36:*.nka=00;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00;36:*.wav=
00;36:*.oga=00;36:*.opus=00;36:*.spx=00;36:*.xspf=00;36:*.bak=00;90:*.crdownload=00;90:*.dpg=00;90:*.dpg-dist=00;90:*.dpg-new=00;90:*.dpg-old=00;90:*.dpgk-dist=00;90:*.dpgk-new=00;90:*.dpgk-old=00;9
0:*.orig=00;90:*.part=00;90:*.rej=00;90:*.rpmnew=00;90:*.rpmorig=00;90:*.rpmsave=00;90:*.swp=00;90:*.tmp=00;90:*.ucf-dist=00;90:*.ucf-new=00;90:*.ucf-old=00;90:
XDG_CURRENT_DESKTOP=ubuntu:GNOME
MEMORY_PRESSURE_WATCH=/sys/fs/cgroup/user.slice/user-1000.slice/user@1000.service/app.slice/app-gnome-x2dsession/x2dmanager.slice/gnome-session-manager@ubuntu.service/memory.pressure
VTE_VERSION=7600
WAYLAND_DISPLAY=wayland-0
GNOME_TERMINAL_SCREEN=/org/gnome/Terminal/screen/10b5f8d4_b37e_436d_b719_3caad26cd4de
GNOME_SETUP_DISPLAY=1
LESSCLOSE=/usr/bin/lesspipe %F %f
```