

```

sunbeam@sunbeam-niraj:~/Downloads/a1$ factor 1123546
1123546: 2 19 29567
sunbeam@sunbeam-niraj:~/Downloads/a1$ alias
alias alert='notify-send --urgency=low -i "${[ $? = 0 ]} && echo terminal || echo error)" "${history|tail
-n1|sed -e '\''s/^\s*[0-9]\+\s*//;s/[:&|]\s*alert$/'\'''"
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'
alias grep='grep --color=auto'
alias l='ls -CF'
alias la='ls -A'
alias ll='ls -aLF'
alias ls='ls --color=auto'
sunbeam@sunbeam-niraj:~/Downloads/a1$ echo

sunbeam@sunbeam-niraj:~/Downloads/a1$ ps
  PID TTY          TIME CMD
  5632 pts/1    00:00:00 bash
  6563 pts/1    00:00:00 ps
sunbeam@sunbeam-niraj:~/Downloads/a1$ kill
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
sunbeam@sunbeam-niraj:~/Downloads/a1$ env
SHELL=/bin/bash
SESSION_MANAGER=local/sunbeam-niraj:@/tmp/.ICE-unix/1764,unix/sunbeam-niraj:/tmp/.ICE-unix/1764
QT_ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
SSH_AGENT_LAUNCHER=gnome-keyring
XDG_MENU_PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
LANGUAGE=en_IN:en
GNOME_SHELL_SESSION_MODE=ubuntu
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
XMODIFIERS=@im=ibus
DESKTOP_SESSION=ubuntu
GTK_MODULES=gail:atk-bridge
PWD=/home/sunbeam/Downloads/a1
LOGNAME=sunbeam
XDG_SESSION_DESKTOP=ubuntu
XDG_SESSION_TYPE=wayland
SYSTEMD_EXEC_PID=1799
XAUTHORITY=/run/user/1000/.mutter-Xwaylandauth.IPAUF2
HOME=/home/sunbeam
USERNAME=sunbeam
IM_CONFIG_PHASE=1
LANG=en_IN
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=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=01;31:*.tgz=01;31:*.arc=01;31:*.a
rj=01;31:*.taz=01;31:*.lha=01;31:*.lz4=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:*.lz=01;31:*.lzo=01;31:*.xz=01;31:*.
zst=01;31:*.tazst=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=0
1;31:*.7z=01;31:*.rz=01;31:*.cab=01;31:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.esd=01;31:*.jpg=01;35:*.jpeg
=01;35:*.mjpg=01;35:*.mjpeg=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:

```

## NAME

man - an interface to the system reference manuals

## SYNOPSIS

```
man [man options] [section] page ...] ...
man -k [apropos options] regex ...
man -K [man options] [section] term ...
man -f [whatis options] page ...
man -l [man options] file ...
man -w|-W [man options] page ...
```

## DESCRIPTION

**man** is the system's manual pager. Each page argument given to **man** is normally the name of a program, utility or function. The manual page associated with each of these arguments is then found and displayed. A section, if provided, will direct **man** to look only in that section of the manual. The default action is to search in all of the available sections following a pre-defined order (see **DEFAULTS**), and to show only the first page found, even if page exists in several sections.

The table below shows the section numbers of the manual followed by the types of pages they contain.

- |   |  |
|---|--|
| 1 | Executable programs or shell commands  |
| 2 | System calls (functions provided by the kernel)  |
| 3 | Library calls (functions within program libraries)   |
| 4 | Special files (usually found in <u>/dev</u> )  |
| 5 | File formats and conventions, e.g. <u>/etc/passwd</u>  |
| 6 | Games  |
| 7 | Miscellaneous (including macro packages and conventions), e.g. <b>man(7)</b> , <b>groff(7)</b> , <b>man-pages(7)</b> |
| 8 | System administration commands (usually only for root)   |
| 9 | Kernel routines [Non standard]   |

A manual page consists of several sections.

Conventional section names include **NAME**, **SYNOPSIS**, **CONFIGURATION**, **DESCRIPTION**, **OPTIONS**, **EXIT STATUS**, **RETURN VALUE**, **ERRORS**, **ENVIRONMENT**, **FILES**, **VERSIONS**, **CONFORMING TO**, **NOTES**, **BUGS**, **EXAMPLE**, **AUTHORS**, and **SEE ALSO**.

The following conventions apply to the **SYNOPSIS** section and can be used as a guide in other sections.

<b>bold text</b>	type exactly as shown.
<i>italic text</i>	replace with appropriate argument.
<b>[-abc]</b>	any or all arguments within [ ] are optional.
<b>-a -b</b>	options delimited by   cannot be used together.
<u>argument</u> ...	<u>argument</u> is repeatable.
<u>[expression]</u> ...	entire <u>expression</u> within [ ] is repeatable.

Exact rendering may vary depending on the output device. For instance, **man** will usually not be able to render italics when running in a terminal, and will typically use underlined or coloured text instead.

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

```

sunbeam@sunbeam-niraj:~$ man
What manual page do you want?
For example, try 'man man'.
sunbeam@sunbeam-niraj:~$ man man
sunbeam@sunbeam-niraj:~$ man man
sunbeam@sunbeam-niraj:~$ uname
Linux
sunbeam@sunbeam-niraj:~$ pwd
/home/sunbeam
sunbeam@sunbeam-niraj:~$ hostname
sunbeam-niraj
sunbeam@sunbeam-niraj:~$ date
Wednesday 06 December 2023 04:49:40 PM IST
sunbeam@sunbeam-niraj:~$ cal
Command 'cal' not found, but can be installed with:
sudo apt install ncal
sunbeam@sunbeam-niraj:~$ sudo apt install ncal
[sudo] password for sunbeam:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  ncal
0 upgraded, 1 newly installed, 0 to remove and 42 not upgraded.
Need to get 20.2 kB of archives.
After this operation, 69.6 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 ncal amd64 12.1.7+nmu3ubuntu2 [20.2 kB]
Fetched 20.2 kB in 2s (11.5 kB/s)
Selecting previously unselected package ncal.
(Reading database ... 218461 files and directories currently installed.)
Preparing to unpack ../ncal_12.1.7+nmu3ubuntu2_amd64.deb ...
Unpacking ncal (12.1.7+nmu3ubuntu2) ...
Setting up ncal (12.1.7+nmu3ubuntu2) ...
Processing triggers for man-db (2.10.2-1) ...
sunbeam@sunbeam-niraj:~$ cal
      December 2023
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
sunbeam@sunbeam-niraj:~$ cal -3
      November 2023      December 2023      January 2024
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
                1  2  3  4                1  2      1  2  3  4  5  6
 5  6  7  8  9 10 11  3  4  5  6  7  8  9  7  8  9 10 11 12 13
12 13 14 15 16 17 18 10 11 12 13 14 15 16 14 15 16 17 18 19 20
19 20 21 22 23 24 25 17 18 19 20 21 22 23 21 22 23 24 25 26 27
26 27 28 29 30      24 25 26 27 28 29 30 28 29 30 31
31

```

```

sunbeam@sunbeam-niraj:~$ ls
ans          Downloads    hs_err_pid6031.log  'mysql pl 7 exercise'  snap
assignment21 hs_err_pid2696.log 'jwt token'         Pictures                'SQL EXERCISE 1'
Desktop      hs_err_pid4204.log 'matrix addition'   Practice               sunbeampull
'Docs upload' hs_err_pid4378.log Music               Public                 Templates
Documents    hs_err_pid5621.log __MyResume__.pdf    remDsa                 Videos
sunbeam@sunbeam-niraj:~$ dir
ans          Downloads    hs_err_pid6031.log  mysql\ pl\ 7\ exercise  snap
assignment21 hs_err_pid2696.log jwt\ token          Pictures                SQL\ EXERCISE\ 1
Desktop      hs_err_pid4204.log matrix\ addition    Practice               sunbeampull
Docs\ upload hs_err_pid4378.log Music               Public                 Templates
Documents    hs_err_pid5621.log __MyResume__.pdf    remDsa                 Videos
sunbeam@sunbeam-niraj:~$ cd Downloads
sunbeam@sunbeam-niraj:~/Downloads$ ls
'12th marklist.pdf'
'2. Format for My Resume Video Recording (1).pdf'
antipolygon-youtube-i9pq0AcQPow-unsplash.jpg
'Cdac resume-1.pdf'
'FORMAT FOR MY RESUME VIDEO RECORDING.docx'
GreenGrocer.db
ikshit-chaudhari-CmM-yZasjaQ-unsplash.jpg
jonathan-castaneda-xUw6ss4dPrM-unsplash.jpg
__MyResume__.docx
__MyResume__.pdf
'node installation steps.txt'
node-v20.10.0-linux-x64
node-v20.10.0-linux-x64.tar.xz
omid-armin-6Aw1X7q1sBA-unsplash.jpg
omid-armin-R-4vz6I1TAQ-unsplash.jpg
paymentReceipt1.pdf
Picsart_23-09-25_20-35-18-500.jpg
rohan-i6Su3pEmQkg-unsplash.jpg
silas-schneider-v0LP-RvKNfQ-unsplash.jpg
spring-tool-suite-3.9.18.RELEASE-e4.21.0-linux-gtk-x86_64
'Stock Price Prediction'
'Uploading Documents in MIS.pdf'
'WhatsApp Image 2023-11-28 at 18.15.52.jpeg'
'WhatsApp Image 2023-11-28 at 18.24.38.jpeg'
sunbeam@sunbeam-niraj:~/Downloads$

```

```

sunbeam@sunbeam-niraj:~/Downloads$ cat > assignment1.txt
This is assignment 1sunbeam@sunbeam-niraj:~/Downloads$ ls
'12th marklist.pdf'
'2. Format for My Resume Video Recording (1).pdf'
antipolygon-youtube-i9pq0AcQPow-unsplash.jpg
assignment1.txt
Cdac resume-1.pdf'
'FORMAT FOR MY RESUME VIDEO RECORDING.docx'
GreenGrocer.db
ikshit-chaudhari-CmM-yZasjaQ-unsplash.jpg
jonathan-castaneda-xUw6ss4dPrM-unsplash.jpg
__MyResume__.docx
__MyResume__.pdf
'node installation steps.txt'
node-v20.10.0-linux-x64
node-v20.10.0-linux-x64.tar.xz
omid-armin-6Aw1X7q1sbA-unsplash.jpg
omid-armin-R-4vz6I1TAQ-unsplash.jpg
paymentReceipt1.pdf
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rohan-i6Su3pEmQkg-unsplash.jpg
silas-schneider-vOLP-RvKNfQ-unsplash.jpg
spring-tool-suite-3.9.18.RELEASE-e4.21.0-linux-gtk-x86_64
'Stock Price Prediction'
test.txt
test.txt
'Uploading Documents in MIS.pdf'
'WhatsApp Image 2023-11-28 at 18.15.52.jpeg'
'WhatsApp Image 2023-11-28 at 18.24.38.jpeg'
sunbeam@sunbeam-niraj:~/Downloads$ cat >> assignment1.txt
Appended textsunbeam@sunbeam-niraj:~/Downloads$
sunbeam@sunbeam-niraj:~/Downloads$ cp assignment1.txt
cp: missing destination file operand after 'assignment1.txt'
Try 'cp --help' for more information.
sunbeam@sunbeam-niraj:~/Downloads$ cp assignment1.txt assignment1copy.txt
sunbeam@sunbeam-niraj:~/Downloads$ ls
'12th marklist.pdf'
'2. Format for My Resume Video Recording (1).pdf'
antipolygon-youtube-i9pq0AcQPow-unsplash.jpg
assignment1copy.txt
assignment1.txt
Cdac resume-1.pdf'
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GreenGrocer.db
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paymentReceipt1.pdf
Picsart_23-09-25_20-35-18-500.jpg
rohan-i6Su3pEmQkg-unsplash.jpg

```

```

GreenGrocer.db
ikshit-chaudhari-CmM-yZasjaQ-unsplash.jpg
jonathan-castaneda-xUw6ss4dPrM-unsplash.jpg
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omid-armin-R-4vz6I1TAQ-unsplash.jpg
paymentReceipt1.pdf
Picsart_23-09-25_20-35-18-500.jpg
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silas-schneider-v0LP-RvKNfQ-unsplash.jpg
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'Stock Price Prediction'
test.txt
test.txt
'Uploading Documents in MIS.pdf'
'WhatsApp Image 2023-11-28 at 18.15.52.jpeg'
'WhatsApp Image 2023-11-28 at 18.24.38.jpeg'
sunbeam@sunbeam-niraj:~/Downloads$ mv assignment1.txt test.txt
sunbeam@sunbeam-niraj:~/Downloads$ ls
'12th marklist.pdf'
'2. Format for My Resume Video Recording (1).pdf'
antipolygon-youtube-i9pq0AcQPow-unsplash.jpg
assignment1copy.txt
'Cdac resume-1.pdf'
'FORMAT FOR MY RESUME VIDEO RECORDING.docx'
GreenGrocer.db
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omid-armin-R-4vz6I1TAQ-unsplash.jpg
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test.txt
test.txt
'Uploading Documents in MIS.pdf'
'WhatsApp Image 2023-11-28 at 18.15.52.jpeg'
'WhatsApp Image 2023-11-28 at 18.24.38.jpeg'
sunbeam@sunbeam-niraj:~/Downloads$ mv text.txt OSC
mv: cannot stat 'text.txt': No such file or directory
sunbeam@sunbeam-niraj:~/Downloads$ tac test.txt
This is assignment 1Appended textsunbeam@sunbeam-niraj:~/Downloads$ rev test.txt
txet dedneppA1 tnenngissa si sihtSunbeam@sunbeam-niraj:~/Downloads$

```

```
sunbeam@sunbeam-niraj:~/Downloads$ tac test.txt
This is assignment 1Appended textsunbeam@sunbeam-niraj:~/Downloads$ rev test.txt
txet dedneppA1 tneimgissa si sihTsunbeam@sunbeam-niraj:~/Downloads$ wc test.txt
 0  5 33 test.txt
sunbeam@sunbeam-niraj:~/Downloads$ mkdir a1
sunbeam@sunbeam-niraj:~/Downloads$ ls
'12th marklist.pdf'
'2. Format for My Resume Video Recording (1).pdf'
a1
antipolygon-youtube-i9pq0AcQPow-unsplash.jpg
assignment1copy.txt
'Cdac resume-1.pdf'
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omid-armin-R-4vz6I1TAQ-unsplash.jpg
paymentReceipt1.pdf
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'WhatsApp Image 2023-11-28 at 18.15.52.jpeg'
'WhatsApp Image 2023-11-28 at 18.24.38.jpeg'
sunbeam@sunbeam-niraj:~/Downloads$
```



```

sunbeam@sunbeam-niraj:~/Downloads$ cd a1
sunbeam@sunbeam-niraj:~/Downloads/a1$ rm a1
rm: cannot remove 'a1': No such file or directory
sunbeam@sunbeam-niraj:~/Downloads/a1$ cat > new.txt
content
sunbeam@sunbeam-niraj:~/Downloads/a1$ ls
new.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ rm new.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ ls
sunbeam@sunbeam-niraj:~/Downloads/a1$ cd ..
sunbeam@sunbeam-niraj:~/Downloads$ rmdir a1
sunbeam@sunbeam-niraj:~/Downloads$ cd a1
bash: cd: a1: No such file or directory
sunbeam@sunbeam-niraj:~/Downloads$ mkdir a1
sunbeam@sunbeam-niraj:~/Downloads$ cd a1
sunbeam@sunbeam-niraj:~/Downloads/a1$ touch new.txt new1.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ ls
new1.txt  new.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ sort
sunbeam@sunbeam-niraj:~/Downloads/a1$ ls
new1.txt  new.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ touch a.txt b.txt z.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ sort a1
sort: cannot read: a1: No such file or directory
sunbeam@sunbeam-niraj:~/Downloads/a1$ sort
sunbeam@sunbeam-niraj:~/Downloads/a1$ ls
a.txt  b.txt  new1.txt  new.txt  z.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ unique
Command 'unique' not found, but can be installed with:
sudo apt install john
sunbeam@sunbeam-niraj:~/Downloads/a1$ uniq
sunbeam@sunbeam-niraj:~/Downloads/a1$ ls
a.txt  b.txt  new1.txt  new.txt  z.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ touch c.txt c.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ ls
a.txt  b.txt  c.txt  new1.txt  new.txt  z.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ head a.txt
sunbeam@sunbeam-niraj:~/Downloads/a1$ cat >> a.txt
abcdefghijklmnopqrstuvwxyz
sunbeam@sunbeam-niraj:~/Downloads/a1$ head a.txt
abcdefghijklmnopqrstuvwxyz
sunbeam@sunbeam-niraj:~/Downloads/a1$ head a.txt 5
==> a.txt <==
abcdefghijklmnopqrstuvwxyz
sunbeam@sunbeam-niraj:~/Downloads/a1$ head 5 a.txt
head: cannot open '5' for reading: No such file or directory
==> a.txt <==
abcdefghijklmnopqrstuvwxyz
sunbeam@sunbeam-niraj:~/Downloads/a1$ tail a.txt
abcdefghijklmnopqrstuvwxyz
sunbeam@sunbeam-niraj:~/Downloads/a1$ factor a.txt
factor: 'a.txt' is not a valid positive integer
sunbeam@sunbeam-niraj:~/Downloads/a1$ factor 2
2: 2
sunbeam@sunbeam-niraj:~/Downloads/a1$ factor 1123546
1123546: 2 19 29567
sunbeam@sunbeam-niraj:~/Downloads/a1$ alias
alias alert='notify-send --urgency=low -i "${([ $? = 0 ]) && echo terminal || echo error}" "$(history|tail
-n1|sed -e '\''s/^\s*[0-9]\+\s*//;s/[:;&]\s*alert$/'\''\')"'
alias egrep='egrep --color=auto'
alias fgrep='fgrep --color=auto'

```