

# 19 Directories & Basic Commands



## Basic Commands

1. **pwd** - print/present working directory
2. **ls(list in series)** - list a file & directory
3. **ls -a** to see hidden(.) files
4. **ll(long list) ls -ltr** shows in detail
5. **date** -current date ,time, year, seonds
6. **date -s** used for date set
7. **cal** used to view current month calender

**cal -s** Displays sunday as the first day of the week

**cal -m** Displays monday

**cal -J** Displays Julian dates

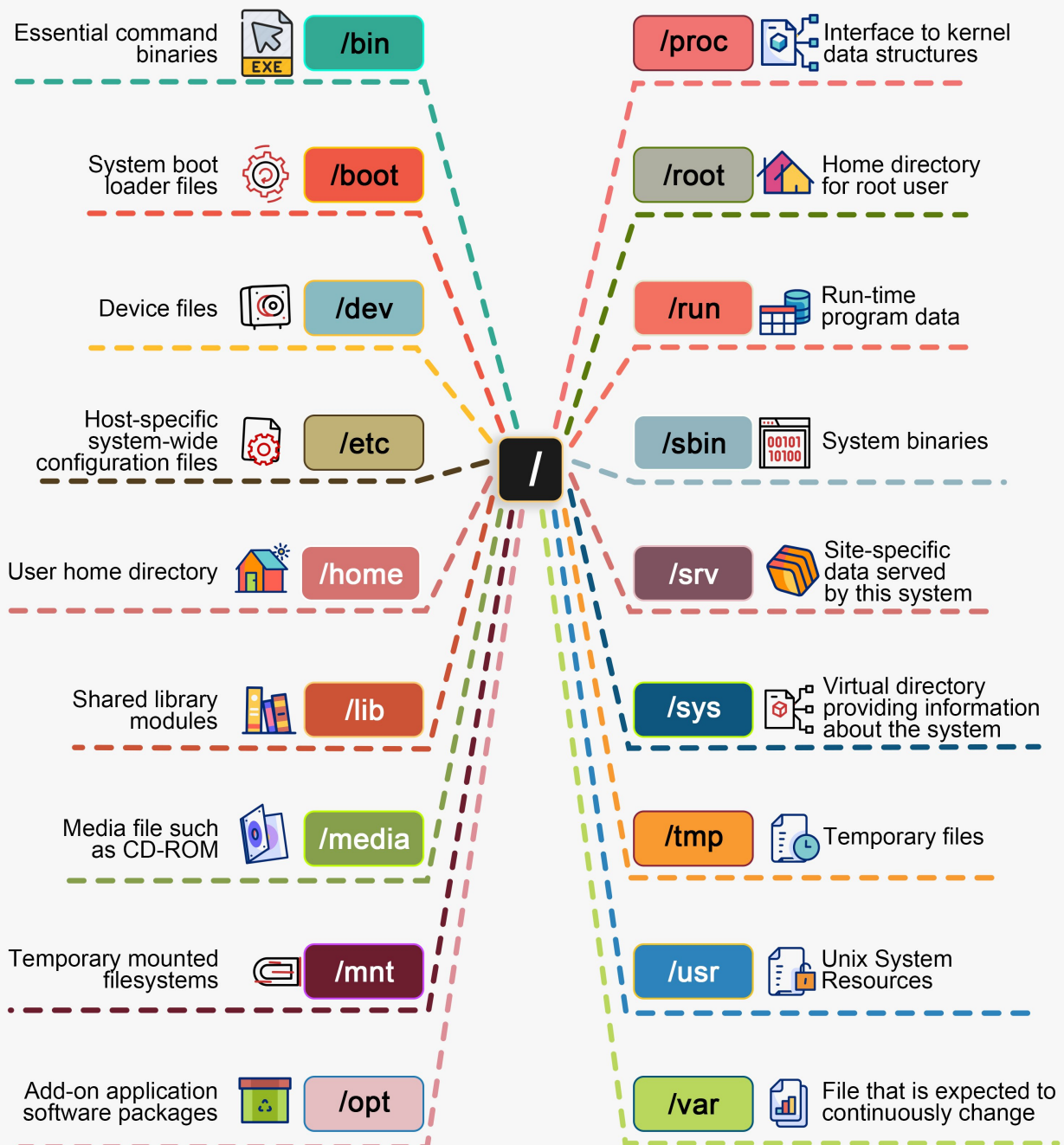
**cal -y** Displays a calender for the year

**cal -3** to view 3 months calender (previous,current,next)

8. **lsusb** -usb related information
9. **lspci** - peripheral connected device information
10. **clear** - to clear /clean the screen
11. **history** - to see the previous command history
12. **tty** - terminal command information
13. **man** - to get detailed information of a command it is well structured
14. **free** -storage is visible  
**free -h** the storage is shown in human readable format
15. **whoami** - to see user
16. **uname** - name of the operating system i.e kernel information  
**uname -v** to known the version of the kernel  
**uname -a** all information about the kernel
17. **passwd** -to change the passwd
18. **w** - which user is logged in
19. **dmidecode** - complete information about system  
**dmidecode | less** basically less is used to read the file
20. **who** - user & its time
21. **whatis** it provides one line information
22. **echo** - prints message on terminal & also used for file creation
23. **rm** - **-help** to known the rm related information  
**rm -rf** **r** means recursive which first deletes the last file & then deletes last file and then delete one by one .  
**f** means forcefully  
**v** verbose → which shows the process of the recursive deletion  
**rm -rvf**  
**ex : dir1/dir2/dir3/dir4/file1 → it will first delete the file1 →dir4 →dir3 →dir2 →dir1**

- 24. **du** - displays the folder size
- 25. **df -hT** - displays storage related information
- 26. **info** - in a descriptive way( very much in detail)
- 27. **top** - used to see current running process
- 28. **diff filename** - used to find out the difference between two files
- 29. **tac filename** - used to reverse the content of the file

# Linux File Systems



# Directories (Filesystem hierarchy)

**/root** - it is the top level directory in linux hierarchy. All other directories are subdirectory of root.

**/bin** - it contains essential binary executable , basically used for basic system functionality. They are used to change the system booting and functionality.

**/boot** - this contains files needed for systems boot process such as kernel and boot loader.

**/dev** - it contains devices files & provides interface for interaction .

**/etc** - this contains configuration file that consist of various aspect of system, application and services .

**/home** - it contains local users home directory .

**/lib** - it contains 32 bit library files.

**/lib64** - 64 bit shared library files.

**/media** - it is used as a mounting point for removable are such as usb devices.

**/mnt** - it is used as a temporary mounting point.

**/opt** - it is the most installed third party software.

**/proc** - this provides information about currently running software

**/sbin** - it contains system admin binary executable typically used by root user.

**/temp** - it is used for temporary used file ,which may be deleted at power off .

**/usr** - it contains user related files like libraries, binary file etc

**/var** - variable data file

**/srv** - service contains service related data

**/run** - temporary file system , holding data for process since last boot.

**/sys** - virtual file system which provides information about device , drives & kernel parameters.