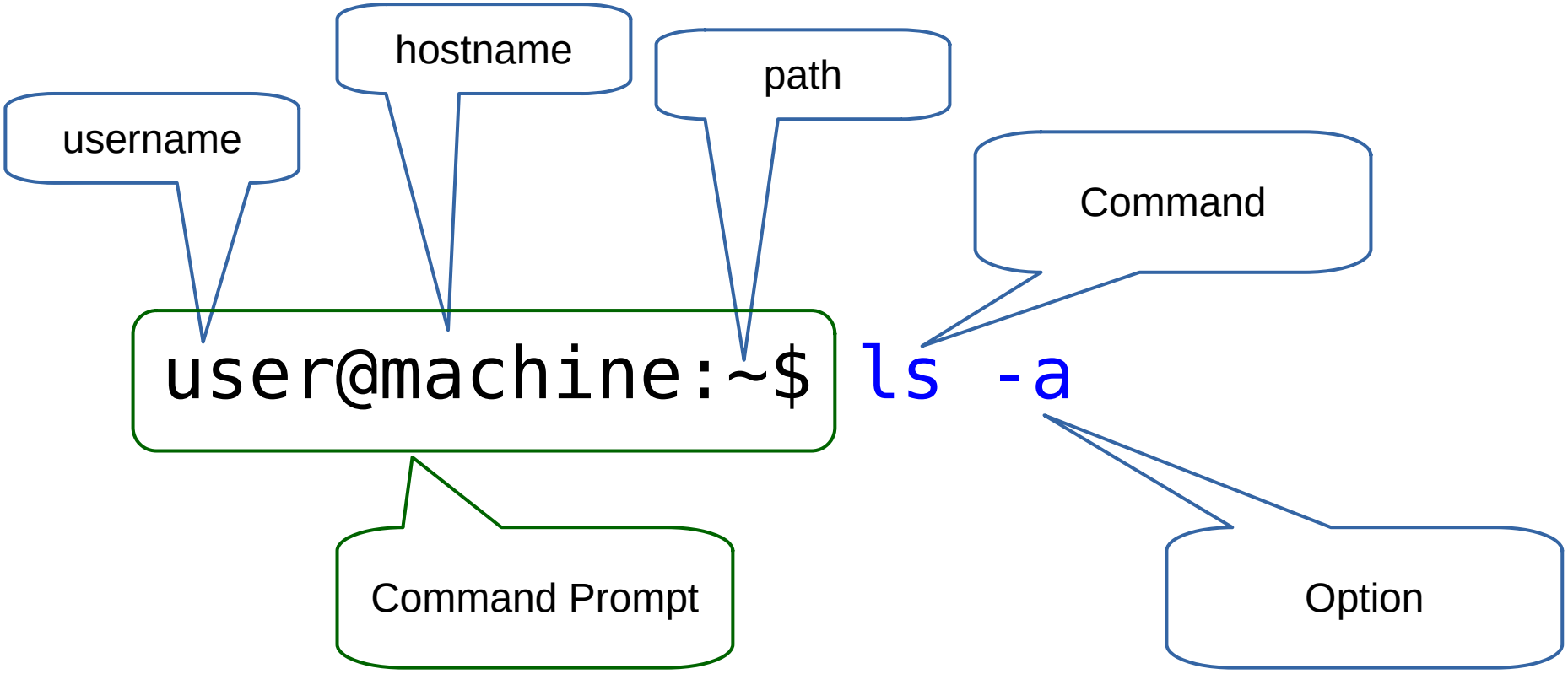
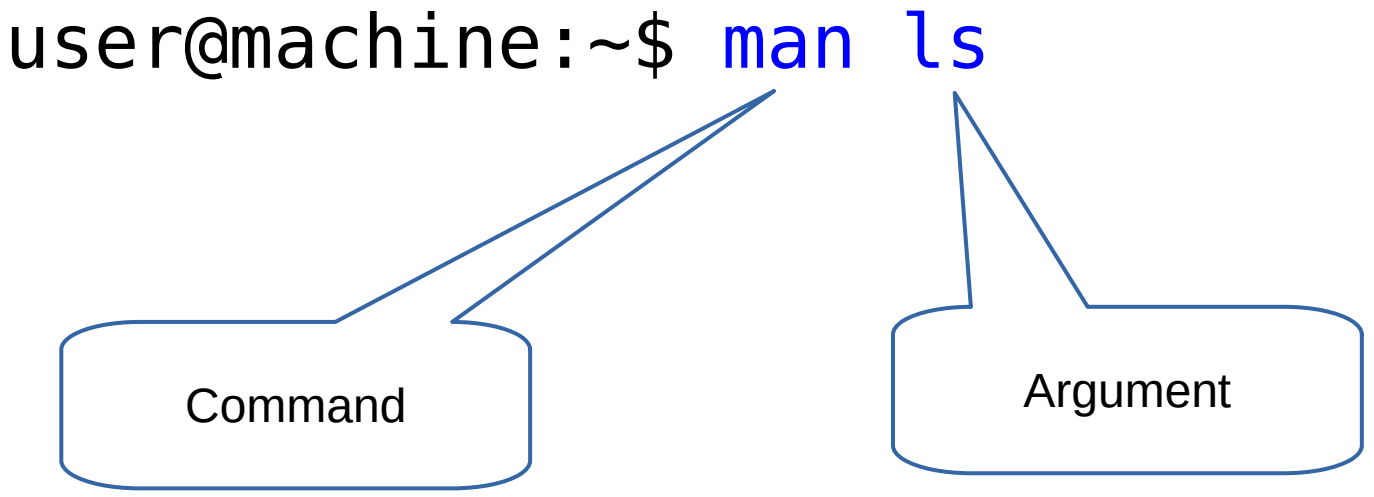
Command line environment

First few steps

- Open a Terminal emulator (Terminal, Konsole, xterm, guake, ...)
- `pwd`
- `ls`
- `ps`
- `uname`
- `clear` or ctrl+L to clear the screen
- `exit` or ctrl+D to close the shell

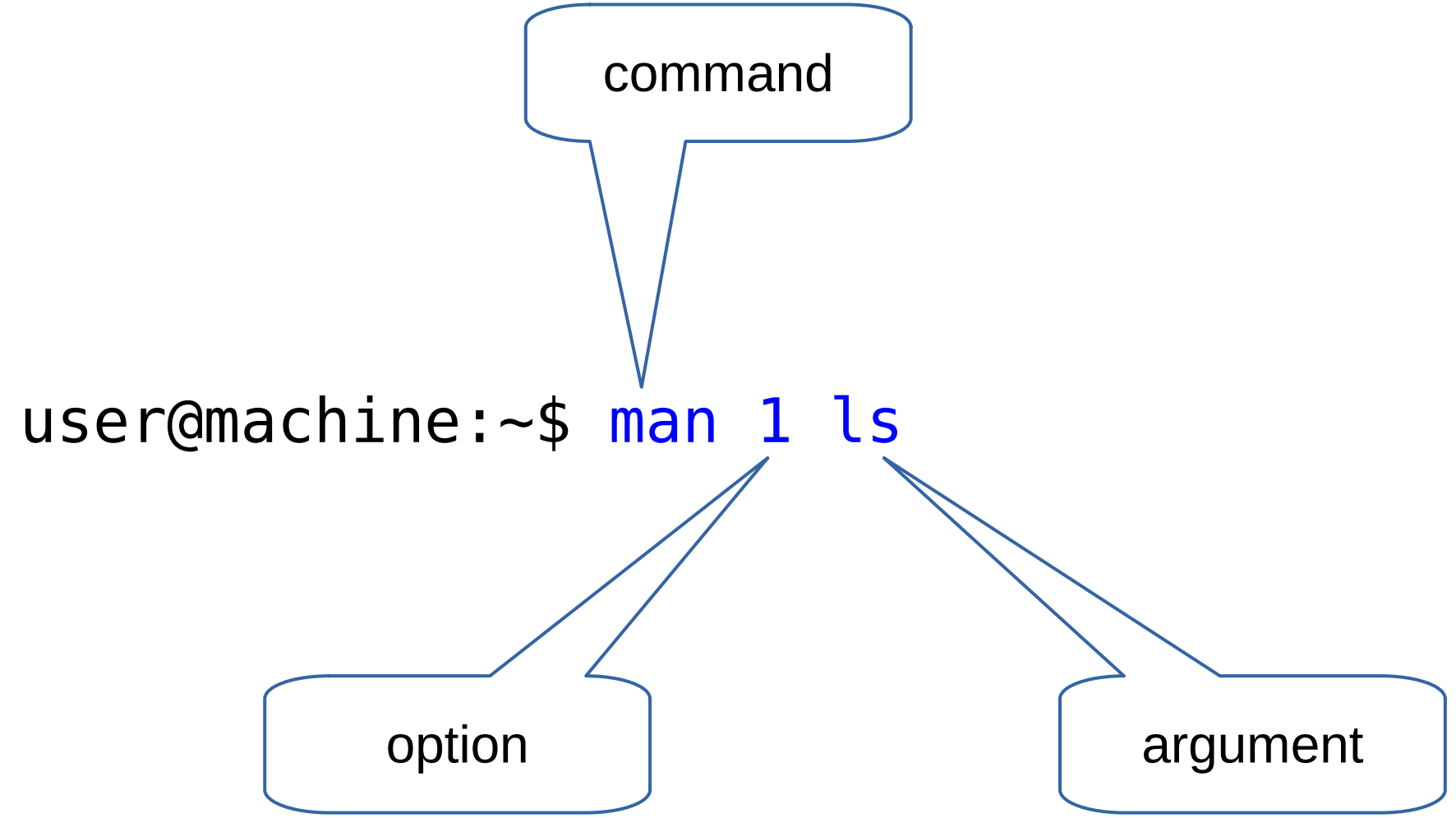
```
user@machine:~$ ls -a
```


hostname
path
username
Command
user@machine:~$ ls -a
Command Prompt
Option


user@machine:~$ man ls
Command
Argument

man page sections

Section	Type of pages
1	Executable programs or shell commands
2	System calls provided by kernel
3	Library calls
4	Special files usually found in /dev
5	File formats and conventions
6	Games
7	Miscellaneous: macro packages, conventions
8	System administration commands
9	Kernel routines


command
user@machine:~$ man 1 ls
option
argument

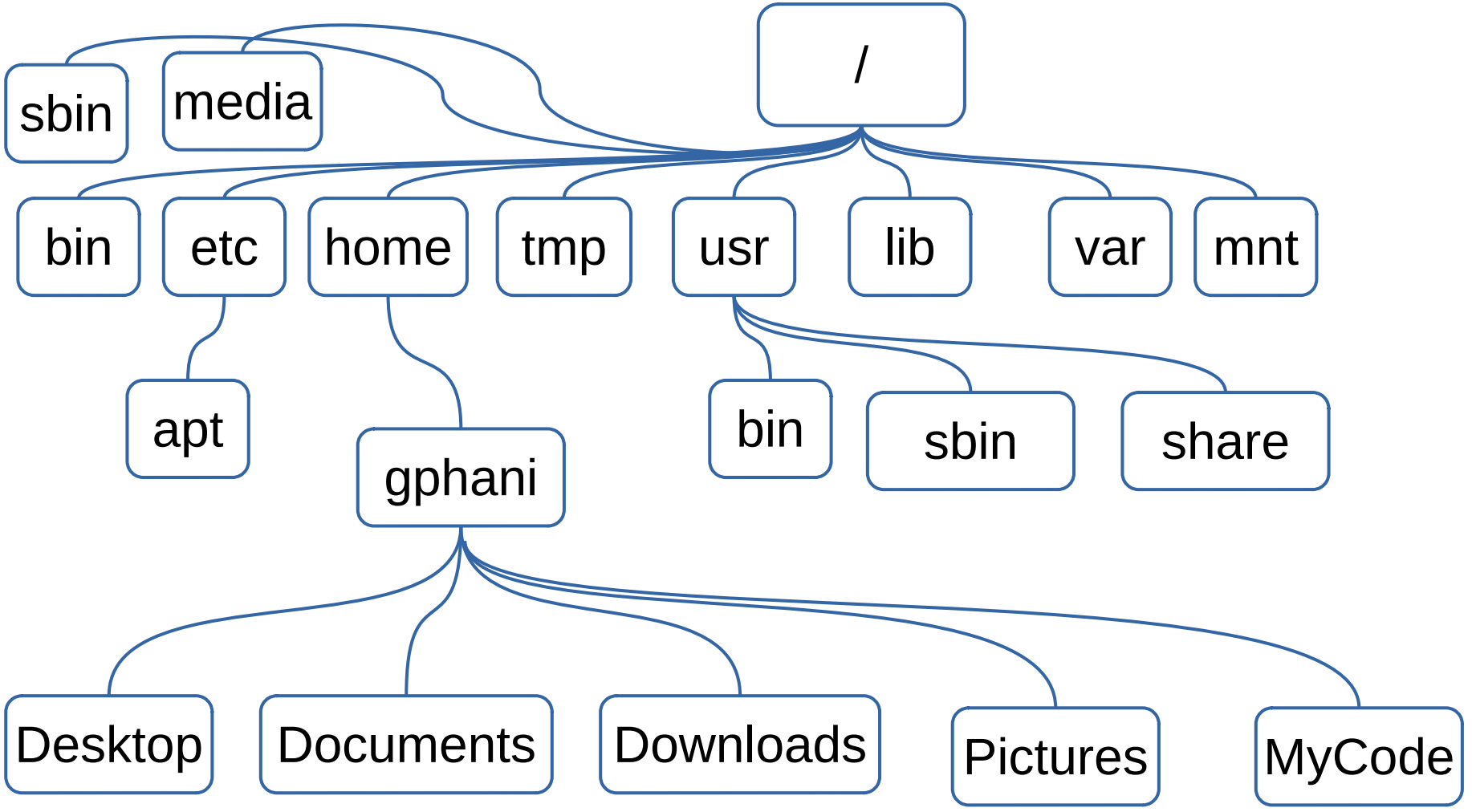
File system

Filesystem Hierarchy Standard

FHS 3.0 released on June 03, 2015

Available at

`https://refspecs.linuxfoundation.org/fhs.shtml`


/
sbin
media
bin
etc
home
tmp
usr
lib
var
mnt
apt
gphani
bin
sbin
share
Desktop
Documents
Downloads
Pictures
MyCode

File system: traversing the tree

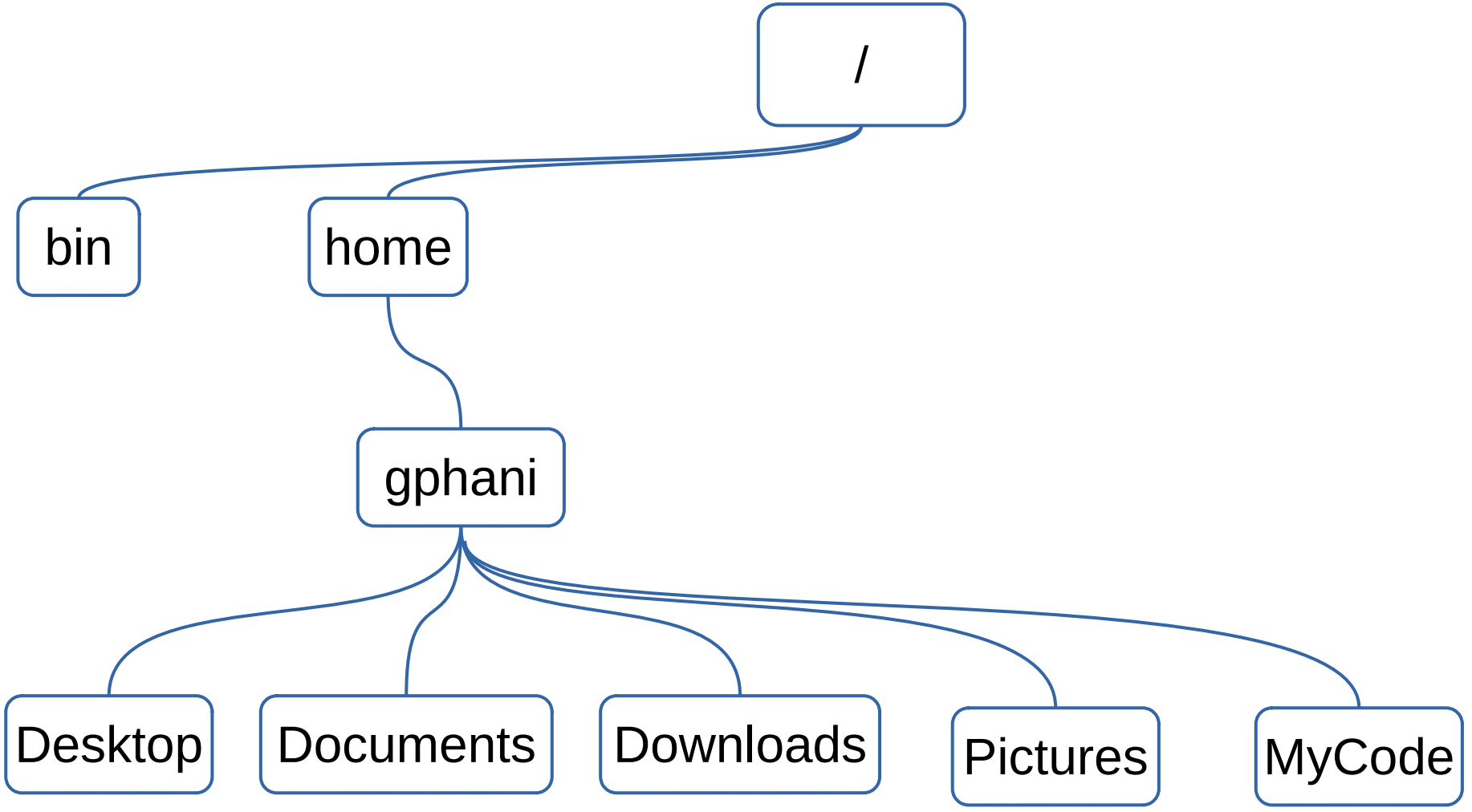
/ is the root of the file system

/ is also the delimiter for sub-directories

. is current directory

.. is parent directory

Path for traversal can be absolute or relative


/
bin
home
gphani
Desktop
Documents
Downloads
Pictures
MyCode

/bin	Essential command binaries
/boot	Static files of the boot loader
/dev	Device files
/etc	Host specific system configuration
/lib	Essential shared libraries and kernel modules
/media	Mount points for removable devices
/mnt	Mount points
/opt	Add on application software packages

/run	Data relevant to running processes
/sbin	Essential system binaries
/srv	Data for services
/tmp	Temporary files
/usr	Secondary hierarchy
/var	Variable data

/usr hierarchy

/usr/bin	User commands
/usr/lib	Libraries
/usr/local	Local hierarchy
/usr/sbin	Non-vital system binaries
/usr/share	Architecture dependent data
/usr/include	Header files included by C programs
/usr/src	Source code

/var hierarchy

/var/cache	Application cache data
/var/lib	Variable state information
/var/local	Variable data for /usr/local
/var/lock	Lock files
/var/log	Log files and directories
/var/run	Data relevant to running processes
/var/tmp	Temporary files preserved between reboots

	sharable	**unsharable**
static	/usr /opt	*/etc* */boot*
variable	*/var/mail*	/var/run /var/lock