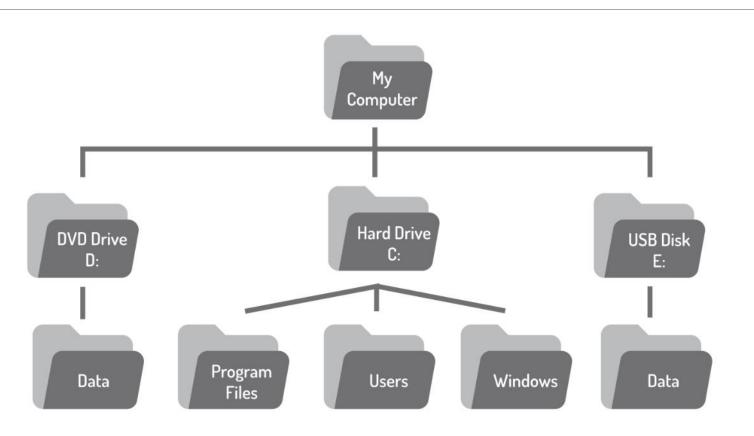
# Linux Essentials

**NAVIGATION** 

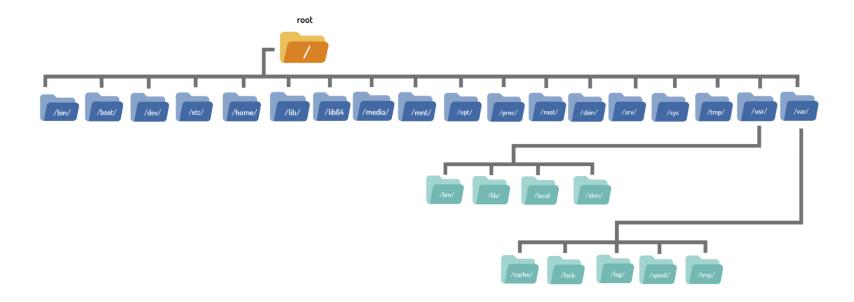
#### Introduction

- In Linux, everything is considered a file.
- Files are used to store data such as text, graphics, and programs.
- Directories are a type of file used to store other files; Windows and Mac OS X users typically refer to them as folders.
- In any case, directories are used to provide a hierarchical organization structure. However, this structure may be somewhat different depending on the type of system in use.
- ✓ When working in a Linux operating system, it is important to know how to manipulate files and directories.
- ✓ Some Linux distributions have GUI-based applications that allow you to manage files, but it is advantageous to know how to perform these operations via the command line.

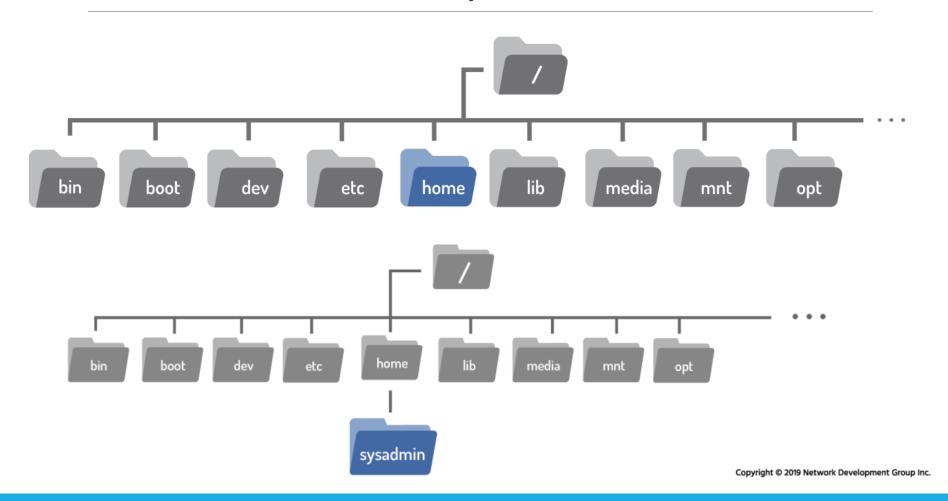
## Directory Structure



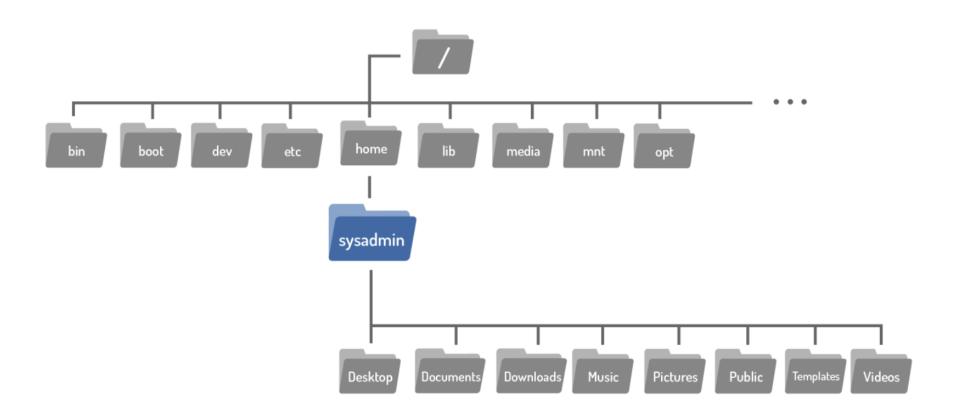
# Directory Structure



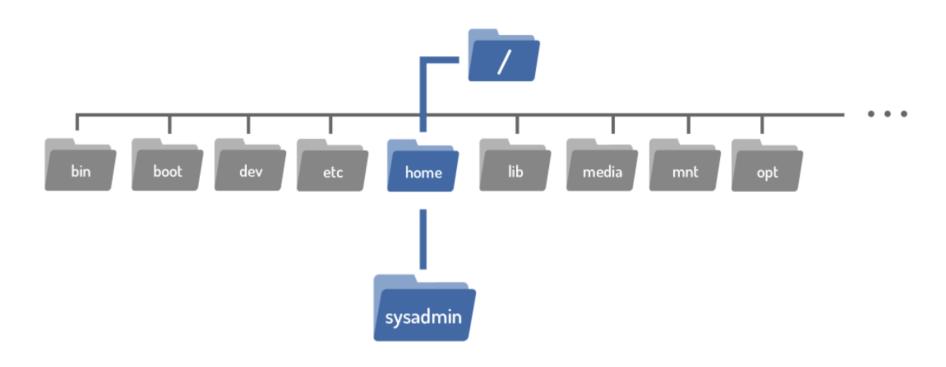
### Home Directory



### Home Directory

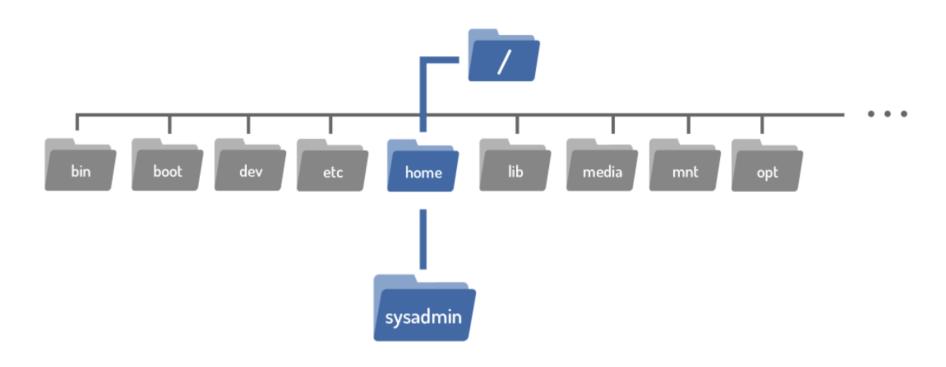


### Paths



Path: /home/sysadmin

### Paths



Path: /home/sysadmin

#### Absolute Paths

sysadmin@localhost:~/Documents\$ cd /home/sysadmin

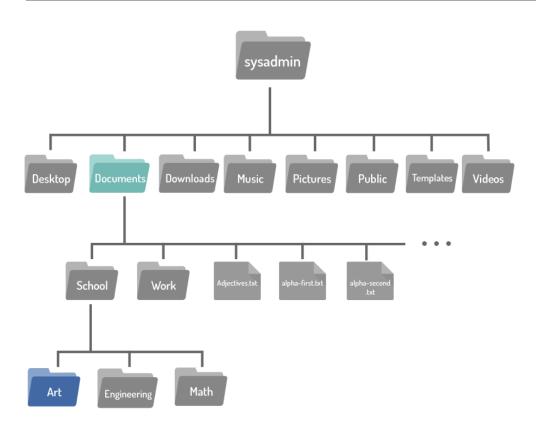
sysadmin@localhost:~\$ pwd
/home/sysadmin

#### Relative Paths

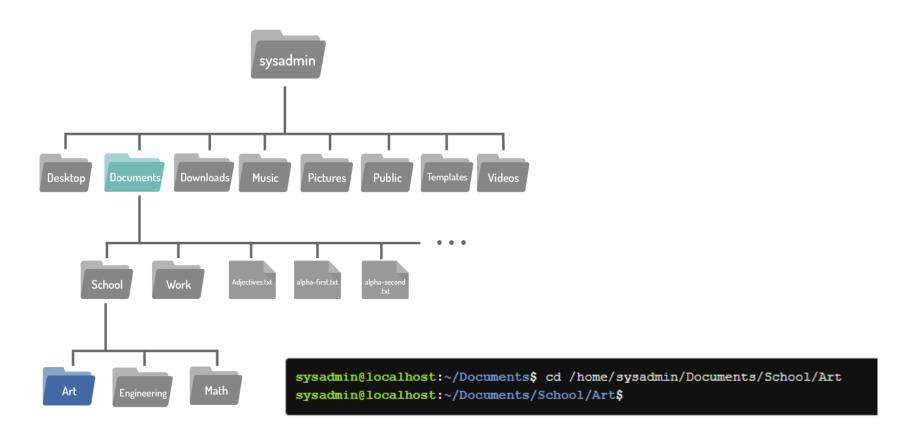
- ☐ *Relative paths* start from the current directory.
- A relative path gives directions to a file relative to the current location in the filesystem

```
sysadmin@localhost:~$ cd Documents
sysadmin@localhost:~/Documents$
```

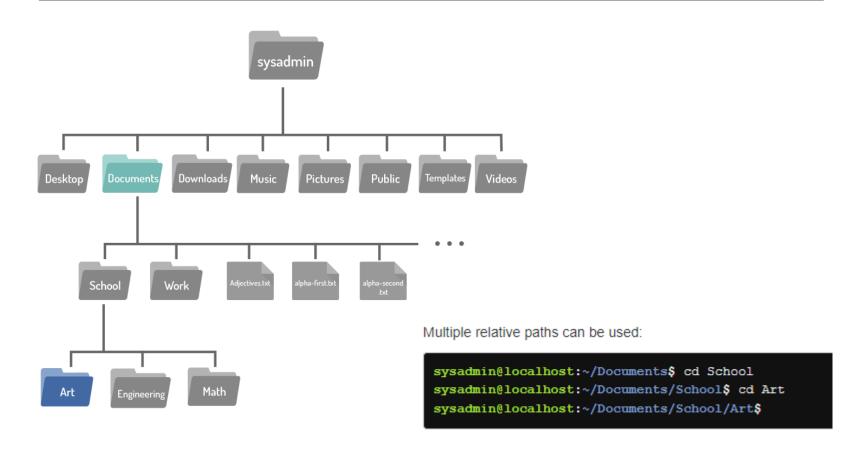
# Example:



### Example: Absolute Path



## Example: Relative Path



### Recursive Listing

Is -R

```
sysadmin@localhost:~$ ls -R /etc/ppp
/etc/ppp:
ip-down.d ip-up.d

/etc/ppp/ip-down.d:
bind9

/etc/ppp/ip-up.d:
bind9
```

# Sort Listing

```
Is -IS
```

Is -It

Is -Ih

Is -rIS

Is -rlt

Is -rIh