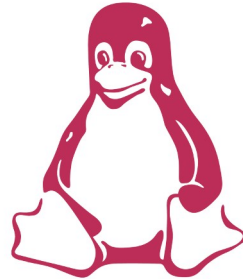


LinuxChixLA

LinuxChix Los Angeles
Be polite, Be Helpful

LinuxChix is a community for women who like Linux and for anyone who wants to support women in computing. We are an international group of Free Software users and developers, founded in 1999 with the aim of supporting women in technology specifically free and open source technology.

LinuxChixLA.org



BECAUSE CHIX DIG LINUX

<http://linuxchixla.org>

Twitter: (Sharon) @smichelleism

Google+: (Jill) <https://plus.google.com/106856186739549581615/>

Website: (Betty) <http://www.99alliancegroup.com/>



LinuxChixLA

LinuxChix Los Angeles
Be polite, Be Helpful

UPCOMING EVENTS

Web Server Instation/Cloud Services
- Watch our mailing list and Meetup
page for more information

TBD

TBD

SoCal Code Camp
- <https://www.socalcodecamp.com/>

USC

December 2-3

Southern California Linux Expo (SCALE)
- <https://www.socallinuxexpo.org/>

Pasadena

March 8-11



LinuxChixLA / Sponsors

verizon

digital media services



@verizondigital



<https://plus.google.com/111016396826991377281>



<https://www.facebook.com/verizondigital/>

LinuxChixLA / Sponsors



Linux Academy

<https://linuxacademy.com/>

High quality Linux & cloud training for teams & individuals.

Twitter: @linuxacademyCOM

Facebook: <https://www.facebook.com/linuxacademycom>

Google+: +LinuxAcademycom



<http://www.oreilly.com/>

Twitter: @OReillyMedia

Facebook: <https://www.facebook.com/OReilly/>

Google+: +oreillymedia



LinuxChixLA / CLI Intro

<https://lifehacker.com/5633909/who-needs-a-mouse-learn-to-use-the-command-line-for-almost-anything>

- Why the Command Line Interface (CLI)?
 - ✓ Linux is EVERYWHERE
 - ✓ The Graphical User Interface (GUI) is not (always) available to interaction with remote servers
 - ✓ You will be presented with a CLI sometime in your career as a Dev.



LinuxChixLA / CLI Intro

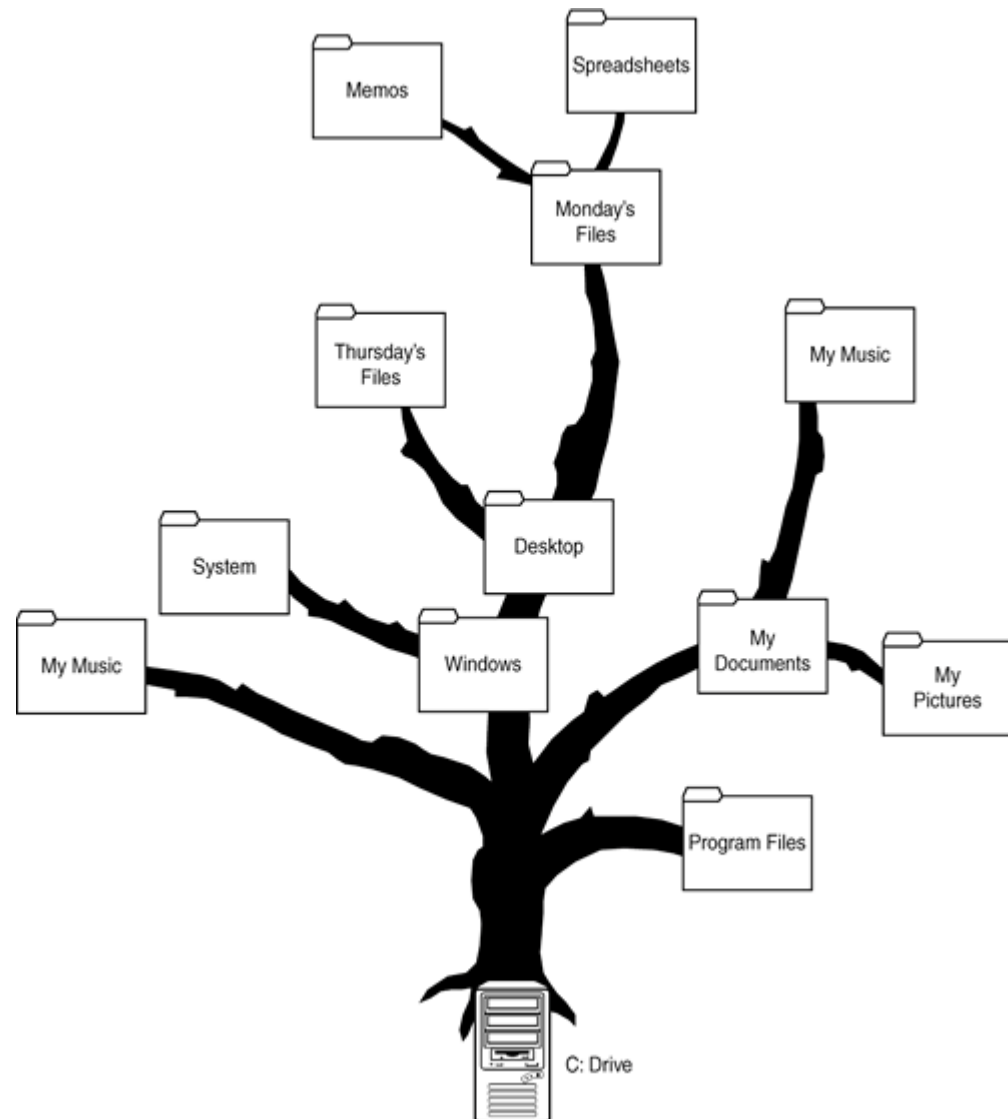
http://linuxcommand.org/lc3_lts0010.php

- The “Terminal” is not a fatal disease.
 - ✓ It is a program which allows you to interact with the shell. The default shell on most Linux distributions is BASH (Bourne Again Shell).
 - ✓ Other shell's include ksh, sh, zsh, etc.
- The shell is a program that takes your commands (CLI) and passes them on to the OS for execution.
 - ✓ Working with the shell in a terminal window is where you'll be headed for the remainder of the this event!

LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0040.php

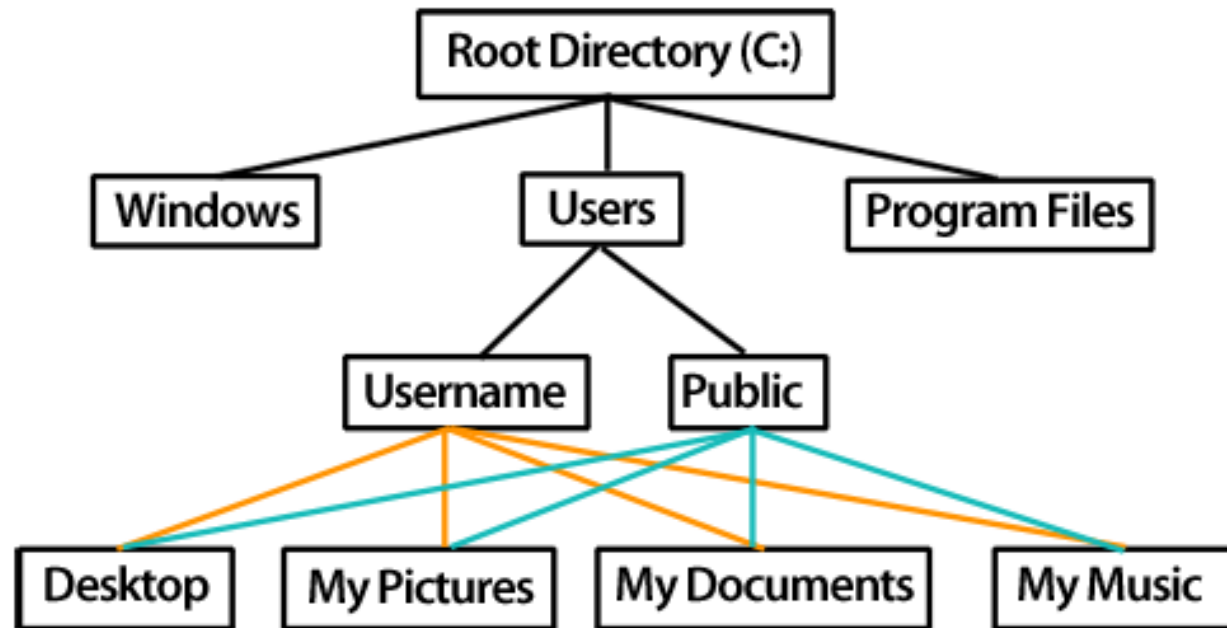
- Tree Structure Windows



LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0040.php

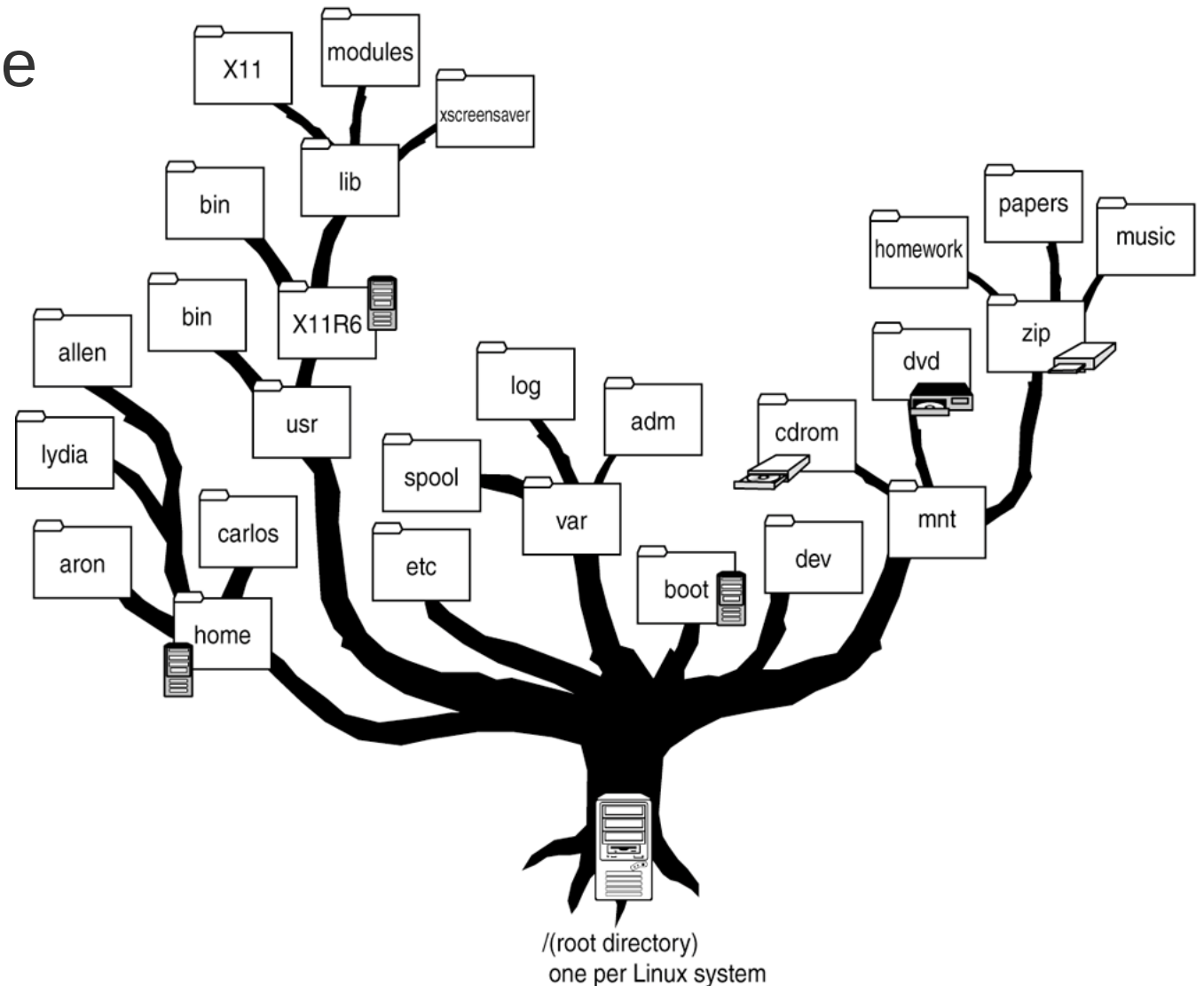
- Top Down Structure Windows



LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0040.php

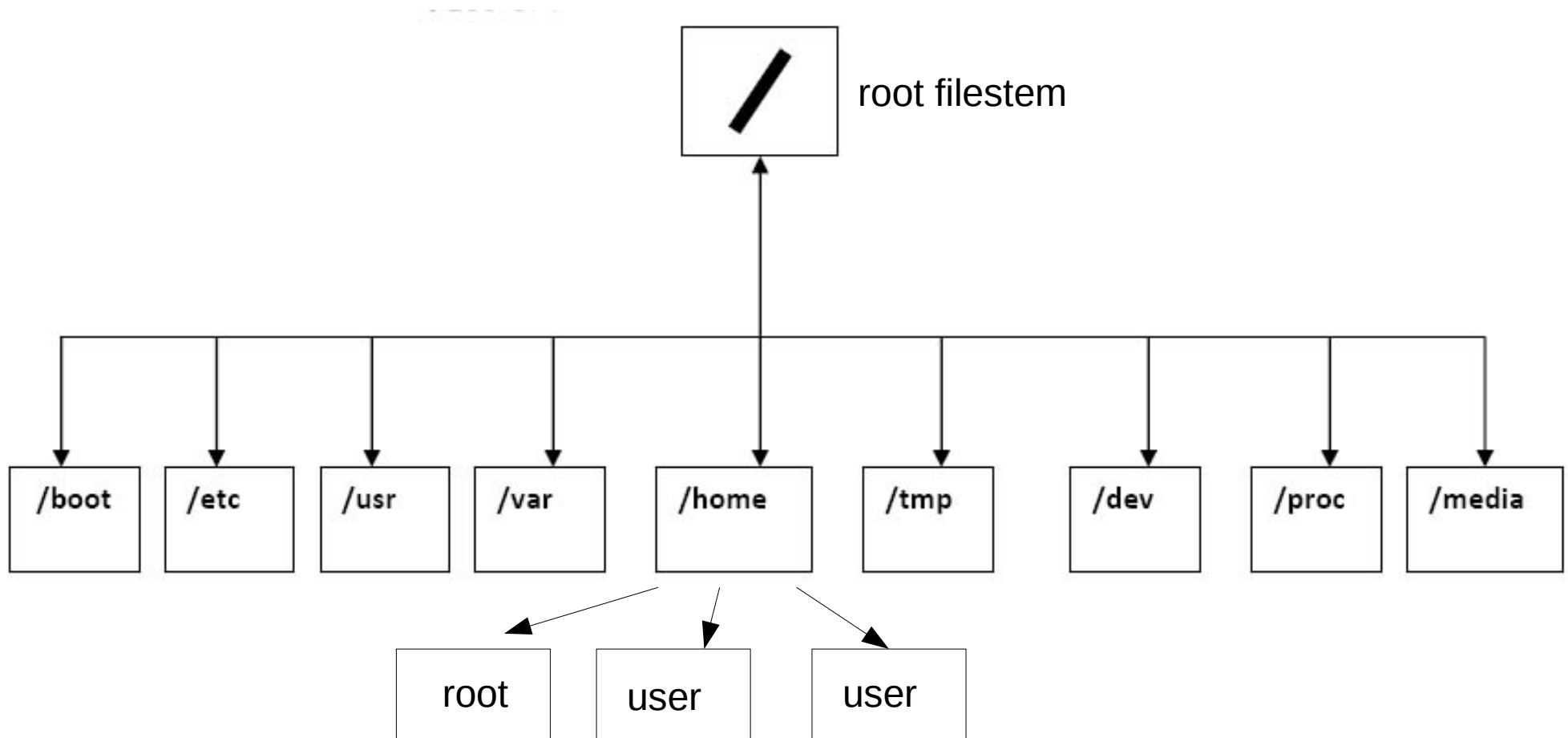
- Tree Structure
Linux



LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0040.php

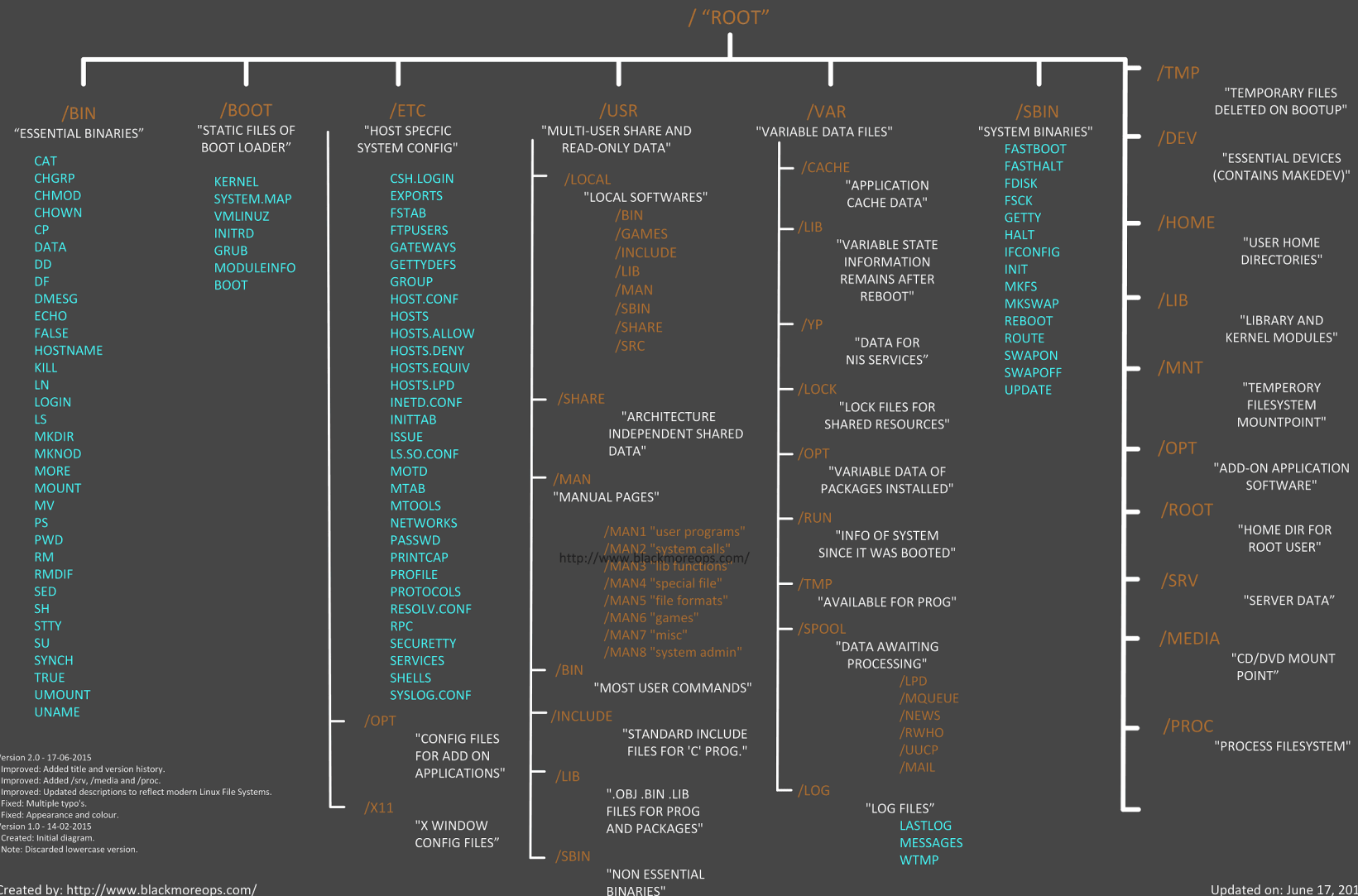
- Top Down Structure Linux



LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0040.php

Linux File System Hierarchy v2.0





LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0030.php

- Looking around
 - ✓ **ls** (lists files and directories)
 - ✓ **less** <filename> (what's inside)
 - ✓ **file** <filename> (what type of file is it)
 - ✓ **clear** (clears the terminal)

CASE Matters! Linux commands are case sensitive, i.e., 'LS' is not the same as 'ls'



LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0030.php

- Options to commands
 - ✓ **ls -a**
 - -a option shows the “hidden” files
 - ✓ **ls -l**
 - -l option shows long listing
 - ✓ **ls -la**
 - You can combine options

LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0030.php

- Triplet permissions (Owner, Group, Everyone)
 - ✓ ls -l

```
-rw----- 1 bshotts bshotts    576 Apr 17  1998 weather.txt
drwxr-xr-x 6 bshotts bshotts   1024 Oct  9  1999 web_page
-rw-rw-r-- 1 bshotts bshotts 276480 Feb 11 20:41 web_site.tar
-rw----- 1 bshotts bshotts    5743 Dec 16  1998 xmas_file.txt
```

File Permissions	Owner	Group	Size (in bytes)	Modification Time	File Name
-rw-----	1	bshotts	bshotts	576 Apr 17 1998	weather.txt
drwxr-xr-x	6	bshotts	bshotts	1024 Oct 9 1999	web_page
-rw-rw-r--	1	bshotts	bshotts	276480 Feb 11 20:41	web_site.tar
-rw-----	1	bshotts	bshotts	5743 Dec 16 1998	xmas_file.txt

LinuxChixLA / CLI Intro

<https://www.linux.com/learn/understanding-linux-file-permissions>
<https://ryanstutorials.net/linuxtutorial/permissions.php>

- Triplet permissions (User, Group, Others)
 - ✓ UGO
- RWX
 - ✓ **R**ead **W**rite **eX**ecute





LinuxChixLA / CLI Intro

<https://unix.stackexchange.com/questions/19451/difference-between-help-info-and-man-command>

- Getting more information
 - ✓ man (Manual)
 - man <command>
 - man -k
 - apropos
 - ✓ Help
 - <command> --help or -h
 - ✓ Info
 - info <command>



LinuxChixLA / CLI Intro

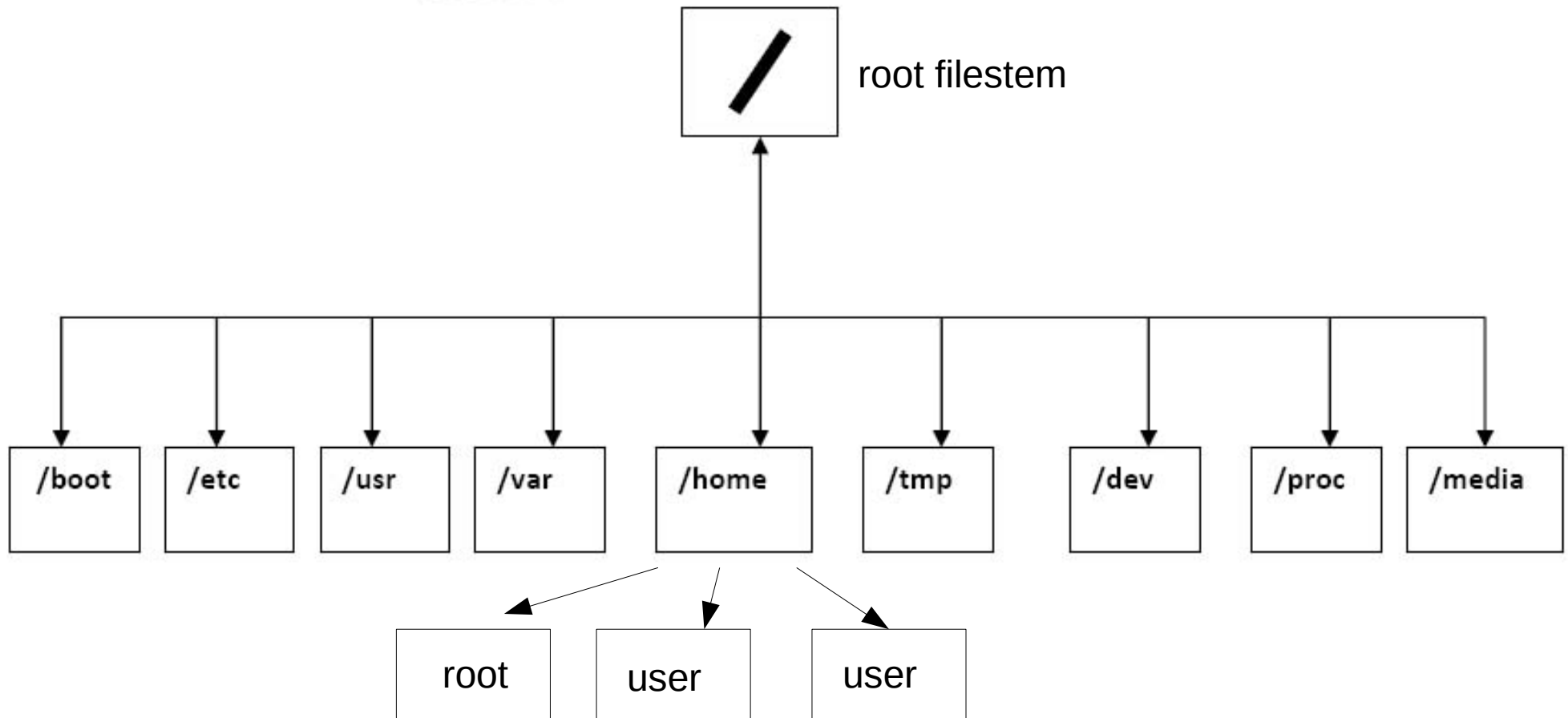
http://linuxcommand.org/lc3_lts0020.php

- Getting Around
 - ✓ **cd** <directory> (changes to a new directories)
 - the . directory (current)
 - the .. directory (parent)
 - always go home with **cd** or **cd ~**
 - return from whence you came with **cd -**
 - ✓ **pwd** (print working directory, “Where am I?”)

LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0020.php

- Absolute vs. Relative
 - ✓ Is /etc vs. Is ../../etc



LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0050.php

- Changing things up
 - ✓ **cp** (copy files and directories)
 - cp <filename> <filename>
 - cp -i
 - cp -r
 - ✓ **rm** (removes files)
 - rm <filename>
 - ✓ **mv** (moves, aka renames, files and directories)
 - mv <filename> <filename>

rm -r -f (DANGER WILL ROBINSON!)

LinuxChixLA / CLI Intro

- Changing things up
 - ✓ **rm****dir** (removes EMPTY directories)
 - `rm -p`
 - ✓ **mk****dir** (makes directories)
 - `mkdir -p`

`rm -r -f` (DANGER WILL ROBINSON!)



LinuxChixLA / CLI Intro

<https://www.tecmint.com/13-basic-cat-command-examples-in-linux/>

- Looking Inside
 - ✓ **less** <filename> (file pager)
 - ✓ **cat** <filename> (concatenate)
 - cat -n
 - cat > test.txt
 - cat >> test.txt
 - ✓ head
 - ✓ tail



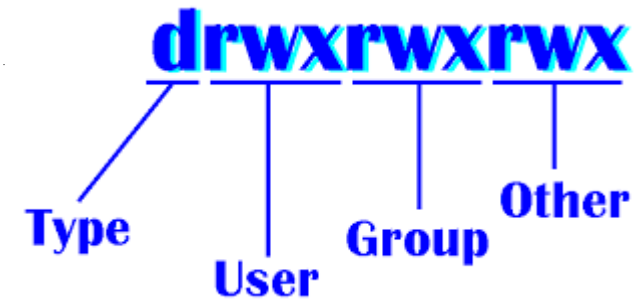
LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0090.php

- Permissions Redux
 - ✓ **whoami**
 - ✓ **su** (Super user)
 - ✓ **sudo** (Super user Do)

LinuxChixLA / CLI Intro

http://linuxcommand.org/lc3_lts0090.php



- Permissions Redux
 - ✓ **chmod** (CHange, or modify, a file/directory access permissions)
 - `chmod o+w <filename/directory>`
gives write permissions to Others
 - ✓ **chown** (CHange file/directory owner)
 - `chown <from> <to> <filename/directory>`
 - ✓ **chgrp** (CHange file/directory group)
 - `chgrp <from> <to> <filename/directory>`