* The Ilib and libby Directories

- in 16in and 18bin.
- -> These library filename either starts with ald or lib.

liblibm cyrses. so. 5.9

- -> most of these are what is known as
 dynamically loaded libraries.
- -> some lingx distributions there exists a libraries. directories containing 64. bit
 - -1 while lib contains 82. bit versions.
- * Additional Directories under 1

Directory	Name	45996
lopt		optional application software play
1545	Gra, b	virtual Pseto-file system siving information about the system and the hardware, can use to all ter system parameter
1570		by system seldom used
Itmp		Temporary files on some distribution crosed greats
1454		and data

* comparing Files with diff

-> Now that You know about the file system and it's structure, let's learn how to manage files and directories.

-> diff is used to compare files and directories.

diff options	4599e
-c	Provides a listing of difference that
Strong II.	include three lines of context before and after the lines diffrems in content.
-~	-1 Used to recursively compare. Subdivectories nas well as the cyarent directories
- ú	ignore the case of letters
-w	ignore diffrence in spaces and tabs
-9	Be quite: only report if files que difference

SYMAYX

Ly diff [ortions] <filename1> <filename2>

bingary files, once can use comp.

- * using diffs and patch
- -> you can compare three files at once using diff3, which usage one file as reference basis for other two.
 - -1 The sintax for diff3

\$ diff3 my-File comman-File your-File.

-> A patch file contains the deltas readire to update an older version of a file to the new one.

syntax

\$ diff - Nur originalfile newfile > Patchfile

- -> Distributing sust the ratch is more concise and efficient than distributing the entire file
 - the patch will sus a few line long.

of patch - PI & patchfile

I patch original file patchfile.

-> rsync i's very powerful utilial. Fox Example usefull was to back up Prosect.

of reync -r Project -x archive - machine: anchives)

- -1 Note that refine can be very destaultive.
- -> It is highly recommended that you first

 test your async command using -dry-ryn

 aption.
 - -) To use younce at the command line type,

async sourcefile éestinationfile.

-> where file can be an local file or network

* compressing data.

-) File data is often compressed to save disk space and reduce the time it take to transmit over the network.

Command	4599 C
3218	The most frequenty used lings compression utinity
pzils	produce file significanty smaller than those produce
X2	-) The most space - efficient compression attity used in liny
ZiP	-> 15 often re quired to examine and decompress anchives from othe o.s.

& compress data using 3218

- -) 92ip has historically been the most widely used linux compression utility.
- -> It compress well and very fast.

Command	4599e
gzip *	Compress all files in the current directory each file compressed and renamed of 32 extension.
ozip - ~ Projext x	X directory, ground will
gynzip for	pe-compress for found in the fire for, of

genzie = gzie -d

* compressing Data using bzip2

-> It has same syntax as grip but usage diffrent algorithms and produces significantly smaller flies.

Comman	4599e
	-> compress all of the files in the
b21P2 8	* current directories and restace each
	file with live name with adip
	a.b22 extension.
- British	- Decompress all of the files
1621P2 *	with an extension of . bzz in
	chrieut girectoer.

| bzip2 -d = bynzip2

Note: bzipz has 19tely derrecated due to 19ck

* compressing data using X2.

Comman 9	45996
×2 ×	compresses all of the files in the current directories, and replace each file with 9. X2 extension
XZ foo	compress for into for. x2
par. X2	
X2 -dcf	Decompresses of mix of compressed
ortxt.x brtxt.x	(2)
XZ - d 3	1000 monares 548 + H & + 116 company 1 - 21

* Handling File 45ing Zip

Command	45996
zip backyp	compresses all files in the cyment directory and place them in the backup, 2 ip
backup, zip	Archives your login directories (~) and all files and directories under it in backyl, zil
472iP 69CK4P.21	extracts all files in backup. 21'p and Place them in current directories.