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Week Report 5

Commands, definition, usage and example

Mkdir:

- Definition: It is used to creating a single directory or multiple directories.
- Usage: mkdir + the name of the directory
- Examples:
 - Create a folder in the present working directory
 - mkdir wallpapers/
 - · Create multiple directories
 - mkdir wallpapers/cars wallpapers/cities wallpapers/forest
 - o create a directory with a parent directory at the same time

Touch:

- Definition: It is a command for creating files.
- Usage: Touch +file
- Examples:
 - To create a file called list:
 - Touch list
 - To create several files:
 - Touch names.csv script.py
 - To create a file using absolute path:
 - Touch ~/Downloads/games.txt

Rm:

- Definition: It is a command that allows the user to remove files.
- Usage: rm +file
- Example:
 - To remove a file
 - rm list
 - Remove a file and prompt confirmation before removal
 - rm -i list
 - Remove an empty directory
 - rmdir Downloads/games

Rmdir:

- Definition: This command allows to remove an empty directory.
- Usage: rmdir + directory
- Example:
 - rmdir Downloads/games

Mv:

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- Definition: This command moves and renames directories.
- Usage: mv + source + destination
- Example:
 - For renaming files/directories:
 - mv + file/directory
 - To move a file from a directory to another using relative path
 - mv Downloads/homework.pdf Documents/
 - To move a directory from one directory to another using absolute path
 - sudo mv ~Downloads/theme /usr/share/themes

Cp:

- Definition: Cp command that copies files/directories from a source to a destination.
 - Usage: cp + files to copy + destination
- To copy directories you must use the -r option
 - Usage: cp -r + directory to copy + destination
- · To copy a file
 - cp Downloads/wallpapers.zip pictures/
- · To copy multiples files in a single command
 - sudo cp -r script.sh program.py home.html assets//var/www/html/

Ln:

- Definition: It is a command to create a hard link. A hard link is a file that point to data on the hard drive.
 - To create a hard link: In file ~/Downloads/fileHL
 - To create a symbolic link: ln -s file fileSL

Man:

- Definition: Man is command used to look for quick references.
 - Usage: man + command
 - Example: man ls
- Open the man page of the passwd command
 - man passed
- Open a specific man page for the passwd command
 - man 5 passwd
- Show all the available pages of a command
 - man -a passwd

Brace expansion and how to use it:

- Definition: Brace expansion {} is not a wildcard but another feature of bash that allows you to generate arbitrary strings to use with commands.
- Examples:
 - to match all files that have a vowel after letter f:
 - ls f[aeiou]*
 - to match all files that have a range of letter after f:
 - ld f[a-z]*

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Wildcard cheat sheet

WILDCAPDS/FILE	GLOBBING CHEAT SHEET	Wildcard	f Matches	Example
WIEDCARDS/TILL	GEODDING CHEAT SHEET		0 or multiple charact	ers ls *.pdf
The * Wildcard	The ? Wildcard	?	1 character	ls program?.py
List all txt and python files	Copy all the files that have 2 characters between 2 letters.	[] 1 character from a giver		set of ls document[A-Z].doc
ls -A *.txt *.py	cp Downloads/b??k.pdf Documents/	[1]	The opposite of the give	en set ls new-doc[!0-9].docx
List all the files that have 'demo' in the name	List all the files with a 2 letter file extension	[1] The opposite of the given set is new-out to-51.00ck		
ls -A *demo*	ls -A Scripts/*.?? Programs/program.?? Downloads/setup*.??	POSIX CHARACTER CLASSES		
Move all the files inside a directory	Remove all the hidden files in a given directory	POSIX class	Equivalent to	Patches
mv Pictures/* ~/Backup/	rm Documents/.??*.doc	[:alnun:]	[A-Za-z0-9]	Digits, uppercase and lowercase letters
Delete all files that start with a given word	List all the hidden files that have a 4 letter file extension	[:alpha:]	[A-Zo-z]	Upper- and lowercase letters
rm Downloads/copy* Documents/new*.docx	1s -A .??*.????	[:sscii:] [:blank:]	[\x80-\x7F]	ASCII characters
		[:blank:]	[\t] [\x80-\x1F\x7F]	Space and TAB characters only Control characters
The [] wildcard				
List all the text files that start with an uppercase letter and all the python files that start with a number		[:digit:]	[0-9]	Digits
ls -A [A-Z]*.txt [0-9]*.py		[:graph:]	[* [:entrl:]]	Characters which have graphic representation
List all the ruby files that do not start with a number.		[:lower:]	[a-z]	Lowercase letters
		[:print:]	[[:graph:]]	Graphic characters and space
1s -A [10-9]*.rb		[:punct:]	[-!"#\$%E'()**,./;;<=>?#[]*_'()~]	Punctuation characters except letters and digits
List all the files that have ane of the characters in a set before the extension		[:space:]	[\t\n\r\f\v]	All whitespace characters
List *[xyz].*		[suppers]	[A-Z]	Uppercase letters
List all files whose name begins with any 3 combination of numbers and the current user's username:		[:word:]	[A-Za-z0-9_]	Word characters
ls -A [0-9][0-9][0-9]SUSER*		[:xdigit:]	[0-9A-Fa-f]	Hexadecimal digits

Using Brace Expansion

- Brace expansion {} is not a wildcard but another feature of bash that allows you to generate arbitrary strings to use with commands.
- For example,

!

!

- To create a whole directory structure in a single command:
 - mkdir -p music/{jazz,rock}/{mp3files,vidoes,oggfiles}/new{1..3}
- To create a N number of files use:
 - touch website{1..5}.html
 - touch file{A..Z}.txt
 - touch file{001..10}.py
 - touch file{{a..z},{0..10}}.js
- Remove multiple files in a single directory
 - rm -r {dir1,dir2,dir3,file.txt,file.py}