

Where to get help:

man [-k] program : Shows manual page
-k Searches man pages for keyword program

info program information pages

Navigating Unix:

ls [-lhaF] [dir or file] : Lists directories and files

- l List with long (verbose) format
- h List with human readable format
- a List all (hidden) files
- F Adds file type information

cd [directory]

- . Current working directory
- .. One "branch" down
- ~ Your home directory
- ~user Home directory of user
- / Root file system

pwd : show present working directory

File Manipulation:

mkdir [-p] [dir] : Makes a directory

- p Makes parents of directory

rmdir [dir] : Deletes directory

cp [-aprbfi] [file1 file2...] [dir] : Copy file(s) or directory(s) to a new location

- p Preserves attributes (owner, permissions, modification time)
- r Copies files recursively
- a Preserves all attributes and copies recursively
- b Makes a backup of file to be overwritten
- f Force an overwrite of an existing file
- i Interactive, it asks for verification

mv [-vubfi] [file1 file2...] [dir] : Move file(s) or directory(s) to a new location

- v Be verbose (tells you everything mv is moving)
- n No-clobber, won't overwrite existing files
- u Update files that are newer
- b Makes a backup of file to be overwritten
- f Force an overwrite of an existing file
- i Interactive, it asks for verification

rm [-vrfi] [file1 file2 file3 ...] : Removes file(s) or directory(s)

- v Verbose
- f Force deleting a file (or directory)
- i Interactive, it asks for verification
- r Recursively remove files

ln [-s] [source] [destination] : Make a link to a file

- s Makes a symbolic link

Useful Unix Applications:

wget Get a file from the web

nano Simple text editing

cat List the contents of a file

more Scrolls through the content of a file

wc Give a word count of the file

grep Searches for a string of text in a file

which Shows path to program you are running

whereis Helps find location of applications

file Give information about a file

clear Clears the screen

find Find a file in a directory

Job Control:

"Ctrl"+"c" Stops the current running program

"Ctrl"+"z" Suspends the current running program

"Ctrl"+"d" Exits the shell (logoff)

command & Starts the application in the background

ps Show the currently running processes

bg Puts a suspended job into the background

fg Moves a suspended job into the foreground

jobs Lists jobs associated with your current shell

File and Directory Permissions:

chmod [-R] [ugoa][+=[rwx]] : Change read, write, and execute permissions

- ugoa User, group, other, all (choose one or more)
- + Add attribute
- Delete attribute
- = Set to exact attribute
- rwx Read, write, execute (choose one or more)
- R Do it recursively

File and Directory Ownership:

chown [-R] [username]:[groupname] [file] : Change ownership of file

chgrp [-R] [groupname] [file] : Change group ownership of file

File Data Flow:

[command1] | [command2] : Pipe output of command1 into command2

command1 > file1 : direct output of command1 to create or replace file1

command1 >> file1 : direct output of command 1 to be concatenated onto a file 1