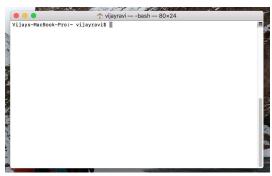
STATS 202A: STATISTICS PROGRAMMING

HOMEWORK 8: UNIX COMMANDS

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Command Terminal on MAC where UNIX commands are executed.



The following UNIX commands have been tried. Attached is the screenshot with each and brief explanation of each command functionality.

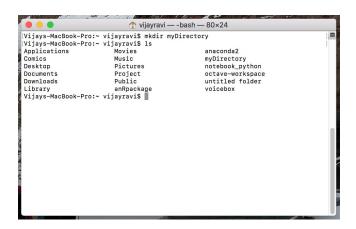
1. '**Is**': The **Is** command (lowercase L and lowercase S) lists the contents of your current working directory.



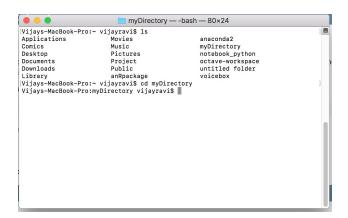
2. 'Is -a': List all files including the hidden files.



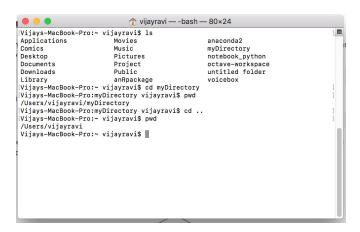
3. 'mkdir: make a directory. Creating a directory called 'myDirectory'. Using 'ls' to check if directory has been created.



4. 'cd directory': change working directory to the named directory. Changed the working directory to the newly created directory.



- 5. 'cd': Change working directory to home directory.
- 6. 'cd ..' : Change working directory to parent directory.
- 7. 'pwd': Display the path of the current working directory.



Changed the working directory back to parent directory. Confirmed the change by printing the path.

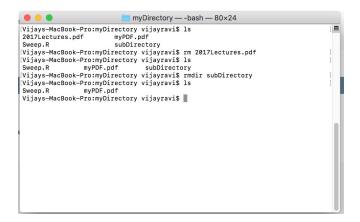
8. 'Cp file1 file2': Copy file1 and rename it as file2. Here I am copying the lecture notes from its file location to the current working directory. Using 'Is' to verify if file exists in copied location. Using the (.) notation for current working directory. *myDirectory* is empty before copying but has the 2017Lectures.pdf after file has been copied.



9. 'mv file1 file2': moves (or renames) **file1** to **file2.** Here, I am moving Sweep.R from it's location to 'myDirectory'. If the file is in the same directory, mv command can be used to rename the file.



10. 'rm ' and 'rmdir': These commands are used to remove/delete a file or a directory. Here I am removing the file 2017Lectures.pdf and the directory 'subDirectory'.

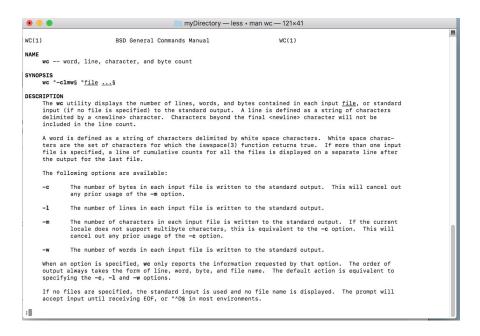


- 11. 'clear': clears the command prompt/terminal. History is still accessible by up/down cursor key.
- 12. 'cat': The command cat can be used to display the contents of a file on the screen. Here, I am displaying the contents of the sweep.R file.

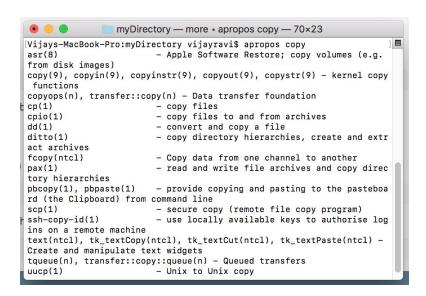
- 13. 'less file1': Displays the contents of file1 one page at a time. Press spacebar to navigate to the next page. Press q to exit reading the file.
- 14. 'head file1': Displays first 10 lines of the file.
- 15. 'tail file1': Displays last 10 lines of the file.
- 16. 'grep keyword file1': Returns the occurrence of the keyword in the file.
- 17. 'wc file1': Returns the count number of lines/words/characters in file

The file Sweep.R has the word 'Height' and has 62 lines, 160 words and 838 characters.

18. 'man *command'*: read the online manual/Documentation page for a command. Use cursor to navigate. Press 'q' to exit. 'man wc' gives the following output:

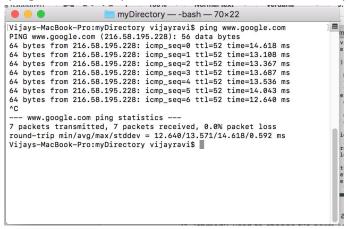


19. 'apropos *keyword'*: match commands with keyword in their man(manual) pages. 'apropos copy' gives the following output:

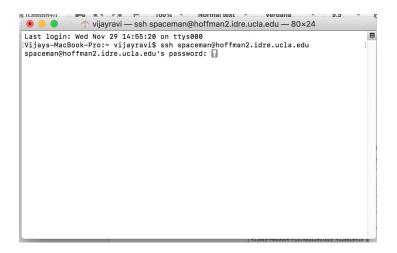


- 20. 'vim file1': Vim can be used to edit a file. Vim is a text editor.
- 21. 'chmod': used to change file permissions (read/write/executable). Eg: chmod 777 – read, write, execute for all

22. 'ping host' - ping host and output results. Press 'CTRL+c' to exit ping.



23. 'ssh user@host' - connect to host as user.



- 24. Ctrl+C halts the current command
- 25. Ctrl+Z stops the current command, resume with fg in the foreground or bg in the background
- 26. Ctrl+D logout of current session, similar to exit
- 27. Ctrl+W erases one word in the current line
- 28. Ctrl+U erases the whole line
- 29. Ctrl+R type to bring up a recent command !! repeats the last command
- 30. exit log out of current session