<u>Abbreviations</u>	<u>Function</u>	Noted By	
Owner	User that owns the file.	u	
Group	Group that owns the file. Anyone who is not one of the	g	
Everybody Else	previous two.	0	
n/a	All three groups	a	
Basic Commands	<u>Function</u>	<u>Example</u>	Definition
la	Lists the contents of the current		
ls	directory.	ls /System/Library	Lists contents of System Library
		ls -I /System/Library	Long lists contents of /System/Library
		ls -t	Displays contents that is sorted by time.
cd	Change directory; Switches to a		
	different folder.	cd RETURN	Goes to the home directory for the current user (~).
		cd documents	Changes the current directory to documents.
	Print to the screen the current		
pwd	directory.	[localhost:/usr/sbin] ac_rep% pwd	Displays the directory path on the screen.
		/usr/sbin	
		[localhost:/usr/sbin] ac_rep	
mkdir			
mkali	Make a new directory(folder).	mkdir foodir	Makes the folder "foodir" in the current working directory.
ср	Copies a file.	cp door door2	Creates a copy of file "door" called "door2"
·		cp door doordir	Creates a copy of "door" in the folder "doordir"
		cp -R doordir ~/New\Folder/	Copies contents of folder doordir and its contents to "New Folder' in the current user's home directory.

Basic Commands (Continued)	<u>Function</u>	<u>Example</u>	<u>Definition</u>
compress	Compresses files.	compress door	Compresses the file door.
uncompress	Decompresses files.	uncompress door	Decompresses the file door.
anl	Displays calendar for current month or	r	
cal	year.	cal year	
man	Displays online manual.	man cal	Displays the manual for calendar.
login	Lets you log on to your computer.	login hostname user	
passwd	Allows you to change your password.	passwd doctor	
su	Changes user level to superuser	su	
users	Displays all users logged into computer.	users	
uptime	Shows how long the computer has been running.	uptime	
who	Shows current user and session id.	who	
date	Displays date and time stamp.	date	
	Sends a text message to all users on	wall "Hi, maintenance will begin in 3	Displays message "Hi, maintenance will begin in 3 minutes.
wall	the local machine.	minutes. Please log off."	Please log off." to all connected users logged in.
touch	Creates a file from the command line.	touch "george.txt" "howard.txt"	Creates a new file of "george" and names it "howard".

Manipulating Files <u>and</u> Folders	Function	Example	Definition
<u>. e.u.e.e</u>	<u></u>	<u></u>	<u></u>
mv	Move or rename a file or folder.	mv door door.old	Renames the file or folder "door" to "door.old"
rm	Remove (delete) a file.	rm door.old	Deletes the file "door.old" The directory "door" and its contents are removed, even
		rm -R door	if door is not empty. BE VERY CAREFUL WITH THIS COMMAND
rmdir	Remove (delete) a directory (folder).		Removes the "doordir" directory. Directory must be empty to use this cmmand. The directory "door" and its contents are removed unless
Viewing a File		rmdir door	door is not empty.
cat	Con <u>cat</u> enates a file to standard output (displays the file on the screen).	cat /etc/motd	Displays a long file, etc/motd, on the screen.
more	Displays a file using the pager, more, to show one screen at a time.		Press space bar for <u>more</u> of the file. To quit more, type q or Control-c.
head	Displays the top part, first 10 lines, or a file.	f	To show more lines, type: head -20 <i>filename</i> . Replaces 20 with the number of lines you want to see. Replace <i>filename</i> with the name of the file you wish to view.
tail	Displays last 10 lines of a file.	tail -f <i>filename</i>	Displays last lines, but keeps updating the display as the file is being added to. Type Control-c to quit.
find	Searches for files on the computer.	find ~ -name door	Will show each item found with its full path. (/Users/ac_rep/doordir/door)

File System Check	<u>Function</u>	<u>Example</u>	Definition
fsck -y	Typed in single-user mode, will run the file system check like Disk Utility.	fsck-fy	Use DisK Utility, booted from a CD, before using this command. Forces fsck to run even though it thinks it doesn't need to.
Super User			
sudo	Executes the next command as the super user.	sudo -s	Opens a shell as the super user. Type <i>exit</i> to return to previous user.
<u>Pipe</u>			
I	Called a pipe, the character is used to "connect" two commands.	Is door more	Displays the contents of the directory called door one page at a time.
<u>Redirect</u>			
>	Character used to redirect the output of a command.	AppleSystemProfiler > ~/ASP_Report.txt	Redirects the file to the current user's home directory.
<u>Grep</u>			Takes the output of the system.log and redirects it to the
grep	A filter that is used to search a block of text for a word or phrase.	cat system.log grep CG	grep command. Grep filters the text to display only the lines with CG in them.
Restart and Shutdown			
reboot	Restarts the computer, flushing the disk cache to disk first.	sudo reboot	If not in root, then the sudo command must be used.
halt	Shuts down the system, flushing the disk cache to disk.	sudo halt	If not in root, then the sudo command must be used.

Viewing Network			
<u>Settings</u>	<u>Function</u>	<u>Example</u>	<u>Definition</u>
ifconfig	This Command is shor for "show		
	network" <u>i</u> nter <u>f</u> ace <u>config</u> uration.	ifconfig -a	Shows all configured interfaces.
Network Utilities			
			Looks up the user name (doctor), address and machine
finger	Fingers an Internet location.	finger doctor@med.net	name.
		<u> </u>	
ftp	Transfers files via FTP protocol.	ftp://george:doctor@med.net	Goes to George to transfer files via FTP.
	·		
n la a			
ping	Pings a network host.	ping ipaddress	Sends a packet out to ipaddress to verify it is out there.
<u>NetInfo</u>			
	Provides an interactive way of looking		Prompt of /> will a appear where you can type in Is to
nicl	at and changing the contents of the		view the contents of a directory at the root level. (Last
	NetInfo database.	sudo nicl .	dot is significant.)
nigrep	Searches the NetInfo resources for a		Searches the string "user" in the local domain. (Last dot
	certain term.	[localhost:~] ac_rep% nigrep user .	is significant and denotes the local domain.)
	NetInfo dump; Outputs the contents		
nidump	of certain specific directories so you		Will dump the last user's information to the screen. (Last
	can inspect, reord or edit them.	nidump passwd .	dot is significant and denotes the local domain.)
niload	NetInfo load; Loads information	and all and discount of the	Londo the information discount by with man
	previously dumped.	sudo niload -d passwd . < users.txt	Loads the information dumped by nidump.

Changing File Permissions, <u>Owner</u>			
and Group	<u>Function</u>	<u>Example</u>	<u>Definition</u>
chmod	<u>Changes the mode</u> (permissions) of a file or folder	chmod 777 aFile	Set permissions on to rwx to aFile.
	The di relaci	chmod a-rwx aFile	Same as above.
		CHINOG G TWA GITIC	Sume as above.
chown 	<u>Changes the owner of a file or folder.</u>	chown root door.txt	Changes the owner of the file door.txt to root.
chgrp	<u>Ch</u> anges the <u>group</u> of a file or folder.	chgrp root door.txt	Changes the group of the file door.txt to the group root.
D M			
Process <u>Management</u>			
open	Opens a file.	open /Applications/Calculator.app/	Opens the Calculator application in the GUI. (Also works with documents.
ps			Shows the processes running by the current user in the
μ3	Shows a list of processes.	ps	current terminal.
			Shows all processes running on any terminal, by any user
		ps -auxc	on the computer.
			Shows the full name of all processes running on any
		ps auxw	terminal, by any user on the computer.
	Show a constant updating list of		
top	processes with the most recently		
	launched processes at the top of the		Shows all of the processes sorted by CPU usage. To get
	list.	top -u	of to top, type Control-c or -q.
			Kills the process where <i>pid_of_process</i> is the process
kill			identity (pid) number shown by top or ps. Same as force
	Forces a process to quit	kill pid_of_process	quitting.

Troubleshooting <u>Commands</u>	<u>Function</u>	<u>Example</u>	<u>Definition</u>
sample	Monitors which routines a process is spending time in. Gathers information about a process that responds slowly or not at all. Sample creates a file of the analysis it has performed and displays the full path of the file on the command line.	sudo sample 355 5	Shows the routines of process number 355 and the time duration (in seconds) of the sampling rate. (Sudo is only needed if the process you want to sample is running as a user other than the one you're logged in as.)
CRASHREPORTER	Background process that watches for applications that have unexpectedly quit.	CRASHREPORTER=-YES-	Starts Crashreport and shows a report with all forced quit in the crash.log.
AppleSystemProfiler	Shows the ASP on the command line.		
defaults write com.apple	Changes the default settings of an application. Useful when you can't log in due to a Finder problem.	defaults write com.apple.loginwindow (space) Finder/Applications/Utilities/ Terminal.app	

^{**}Helpful options found by typing in h or ?