

Lists and List Options

ls	List all values in present working directory
ls -R	List all files in sub-directories as well
ls -a	List hidden files as well

Moving and Renaming Files

mv file "new file path"	Moves the files to the new location
mv filename new_file_name	Renames the file to a new filename

Insert mode

i	insert at cursor
a	Write after cursor
A	Write at end of line
ESC	Terminate insert mode
u	Undo last change
U	undo change to entire last line

For loop

```
# For loop in Bash; Basic
for x in 1 2 3
do
    echo $x
done
1
2
3

# For loop in Bash; Range
{START..S TOP..I NCR EMENT}
for x in {1..5..2}
do
    echo $x
done
Output:
1
```

For loop (cont)

```
> 2
5
# For loop; Three expression
for ((x=2;x<=4;x+=2))
do
    echo $x
done
Output:
2
4
```

Home Directory

cd	Navigate to home directory
cd ..	Move one level up
cd /	Move to root directory

Process Management

ps	Display currently running processes
ps -ef	Display currently running processes on system

Search Files

grep pattern files	grep 'word' filename
grep -i	Case insensitive search
grep -R 'httpd'	Look for all files in the current directory and in all of its subdirectories
grep -c 'nxcraft' frontpage.md	Search and display the total number of times that the string 'nxcraft' appears in a file

Directory with a for loop

```
# Search for books in the book
directory that contain air
for book in $(ls books/ | grep -i 'air')
do
    echo $book
done
Airpor tBo ok.txt
FairMa rke tBo ok.tx
```

Case Statements

```
case 'STRING' in
    PATTERN1)
        COMMAND1;;
    PATTERN2)
        COMMAND2;;
    *)
        DEFAULT COMMAND;;
esac
case $(cat $1) in
    sydney)
        mv $1 sydney/ ;;
    melbourne|brisbane)
        rm $1 ;;
    canberra)
        mv $1 "IMP ORT ANT _$1 " ;;
    *)
        echo "No cities found" ;;
esac
```

Creating and viewing a file

Creates a new file	cat > filename
Displays the file content	cat filename



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BASH variables

Set with an equal sign	greeting="Hello"
Access with a \$	echo \$greeting

Control Flow

Direct Output of Second command to first	1st_command \$ 2nd Command
Runs the 2nd command only if the 1st command runs successfully.	1stcommand && 2nd Command
Runs the 2nd command only if the 2nd command does not run successfully.	A B # Run B if and only if A failed

While Statement

```
Set a condition which is tested
at each iteration:
x=1
while [ $x -le 3 ];
do
    echo $x
    ((x +=1))
done
```

if, then, else statement

```
if then else:
x="Queen"
if [ CONDITION ];
if [ $x == "King" ];
then # SOME CODE
then echo "$x is a King!"
else # SOME OTHER CODE
else echo "$x is not a King!"
fi
fi
```

Navigating With Cursor

Alt + b	move backward one word
Alt + f	move forward one word
Alt + u	make entire word after cursor uppercase
Alt + c	make first letter after cursor uppercase
Alt + d	delete word after cursor
^a	beginning of line
^e	end of line



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