

Commonly Used Commands (2)

% wc file	sort -r
% wc -c file	reverse normal order
% wc -w file	sort -n
% wc -l file	numeric order
	sort -nr
	reverse numeric order
	sort -f
	case insensitive

File/Directory Permissions

Letter	Meaning
10	The user who owns the file (this means "you.")
Q	The group the file belongs to.

The other users

.

all of the above (an abbreviation for pas)

Permission to read the file

Permission to write the file.

Permission to execute the file, or, in the case of a directory, search it.

Pre-defined "Variables"

- **\$#** represents the number of command line arguments
- **\$*** represents all the command line arguments
- \$@ represents all the command line arguments
- \$\$ represents the process ID of the shell
- \$? represents the exit status code of the command last executed

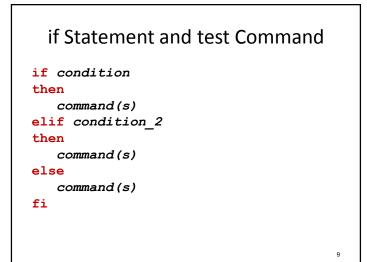
User Variables

name=value

read name

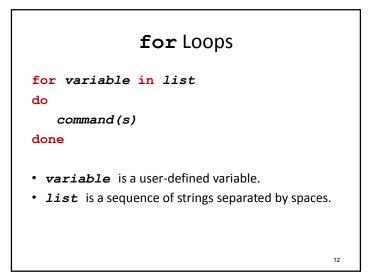
echo \$name

 expr utility sum=`expr \$op1 + \$op2` echo \$sum



Argument	Test is true if	
-d file	file is a directory	
-f file	file is an ordinary file	
-r file	<i>file</i> is readable	
−s file	file size is greater than zero	
-w file	<i>file</i> is writable	
−× file	file is executable	
! -d file	file is not a directory	
! -f file	file is not an ordinary file	
! -r file	file is not readable	
! -s file	file size is not greater than zero	
! -w file	file is not writable	
!x file	file is not executable	
—e file	file or directory exists	1

n1 -eq n2	integer $n1$ equals integer $n2$
n1 -ge n2	integer $n1$ is greater than or equal to integer $n2$
n1 -gt n2	integer $n1$ is greater than integer $n2$
n1 -le n2	integer $n1$ is less than or equal to integer $n2$
n1 -ne n2	integer $n1$ is not equal to integer $n2$
n1 -1t n2	integer $n1$ is less than integer $n2$
s1 = s2	string s1 equals string s2
s1 != s2	string s1 is not equal to string s2



while Loops

while condition

do

command(s)

done

- Command test is often used in *condition*.
- Execute *command(s)* when *condition* is met.

13

