Chapter 6		
Conditional Statements		
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Overview		
The exit status of commands		
The test commandThe if construct		
• case statement		
Lesson: The exit status of commands		
 Every sub-process will return exit code to calling process 		
This code indicates the exit status of ended process		
It is assumed that:Exit code 0 means success		
 Everything else means error 		
 Specific exit codes have specific meaning (depending on process). 		
,		

The Return Status Variable

- Sub-process exit code is available through special environment variable \$?
- Every command will change \$? Value
- Script exit code is taken from last command

```
$ cp mamo memo2
cp: cannot find file "mamo"
$ echo $? # result of cp failure
2
$ echo $? # result of previous echo command
0
$ cp memo memo2
$ echo $? # result of successful copy
0
```

The exit Command

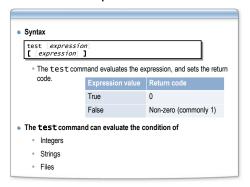
•	Syntax
	exit [n]

- The script ceases as soon as the exit command is given.
- \bullet The \mbox{exit} command exits the script using the current value of $\mbox{\tt\$?}$
- If n is specified, the exit status will be set to n.

Lesson: The test command

- test evaluate expression
- test operators
- Multiple test Conditions

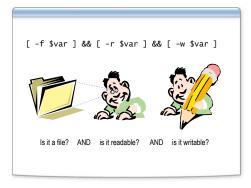
test - evaluate expression



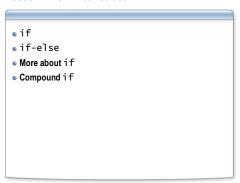
test - operators

Binary operators		Unary operators				
String tests						
=	Equal	-z	length = 0			
=	Not equal	-n	lenght > 0			
Numeric tests		File tests				
eq	Equal	-r	Has read permission			
ne	Not equal	-w	Has write permission			
lt	Less than	-x	Has execute permission			
·1e	Less or equal	-f	Is file			
gt	Greater than	-d	Is directory			
ge	Greater or equal	-s	Size > 0			
Logical operators						
a	And	!	Not			
0	Or					

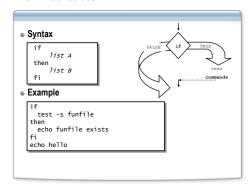
Multiple test Conditions



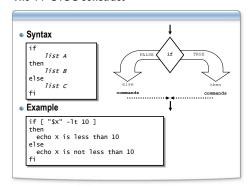
Lesson: The if construct



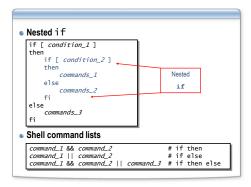
The if construct



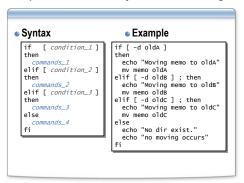
The if-else construct



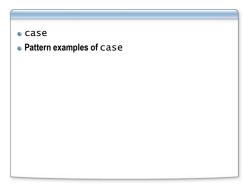
More about if



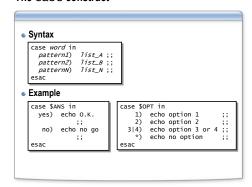
Compound if — Multiway Decision Branching



Lesson: The case construct



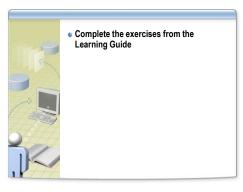
The case construct



The case construct — pattern examples

 The case construct patterns use the same special characters that are used to generate file names.

Review Exercises



Topics for Review

1 Read the review topics 2 Think about what you learned in this Session in the context of your own work environment 3 Discuss your answers as a class	