Chapter 6		
<b>Conditional Statements</b>		
Overview		
The exit status of commands		
<ul><li>The test command</li><li>The if construct</li></ul>		
■ Case statement		
Lesson: The exit status of commands		
<ul> <li>Every sub-process will return exit code to calling process</li> </ul>		
process  This code indicates the exit status of ended process		
■ It is assumed that:		
• Exit code 0 means success		
Everything else means error     Specific puit codes have appoint machine of the codes have appointed to the code have appointed to the codes have appointed to the co		
<ul> <li>Specific exit codes have specific meaning (depending on process).</li> </ul>		

### 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
```

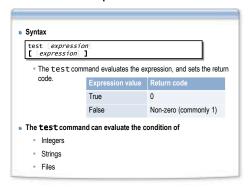
### The exit Command

- Syntax
  exit [n]
- The script ceases as soon as the exit command is given.
- The exit command exits the script using the current value of \$?
- If n is specified, the exit status will be set to n.

### Lesson: The test command

- test evaluate expression
- test operators
- Multiple test Conditions

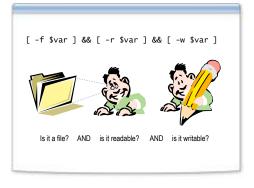
## test - evaluate expression



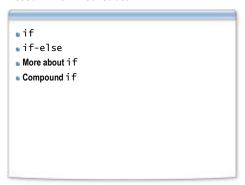
### test - operators

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				
-1t	Less than	-x	Has execute permission				
-le	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						

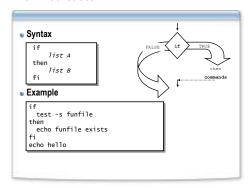
## Multiple test Conditions



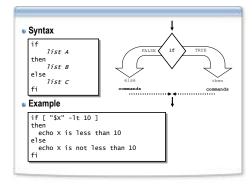
### Lesson: The if construct



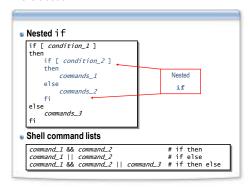
### The if construct



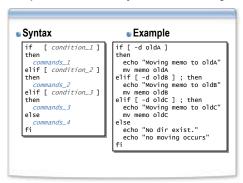
## The if-else construct



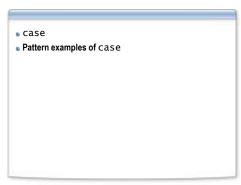
### More about if



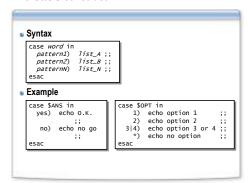
# Compound if — Multiway Decision Branching



### Lesson: The case construct



### The case construct



### The case construct — pattern examples

#### **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	