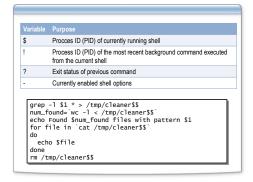
Chapter 8

Special Variables

# Overview

- Special parameters
- Command-line arguments
- Getting options

## Lesson: Special parameters



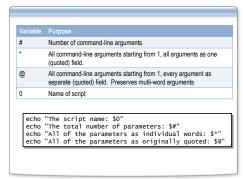
## Lesson: Command-line arguments

- Command line input
- Special parameters for positional parameters
- The shift command
- The set command

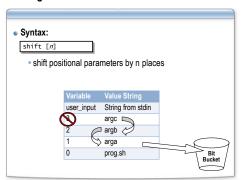
## **Command line input**

# • Command line \$ sh\_program arg1 arg2 ... argX \$0 \$1 \$2 ... \${X}\$ • Example \$ cat color3 echo You are now running program: \$0 echo The value of command line argument \#1 is: \$1 echo The value of command line argument \#2 is: \$2 \$ ./color3 red green You are now running program: ./color3 The value of command line argument #1 is: red The value of command line argument #2 is: green

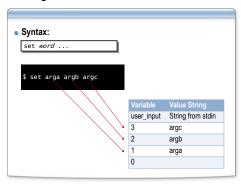
#### Special parameters for command-line arguments



# **Shifting Parameters**



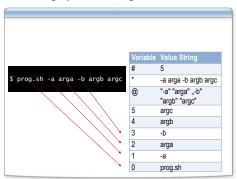
# **Creating Positional Parameters**



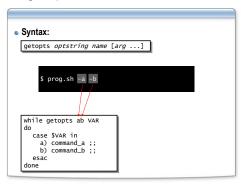
## Lesson: Getting options

Processing Options and Arguments
The getopts Command
The OPTARG Variable
The OPTIND Variable

## **Processing Options and Arguments**



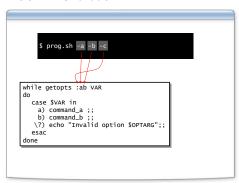
## The getopts Command



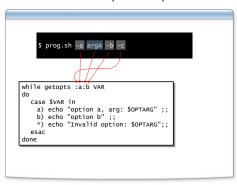
## The getopts Command (Continued)



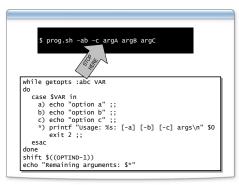
## The OPTARG Variable



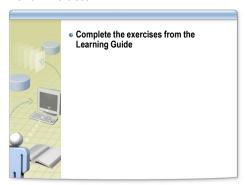
## The OPTARG Variable (Continued)



## The OPTIND Variable



## **Review Exercises**



## **Topics for Review**

