Appendix	
Regular Expressions	
Overview	
What are regular expressions	
■ Regular Expression Metacharacters■ Utilizing regular expressions	
Lance What on Donale Formation	
Lesson: What are Regular Expressions	1
Regular expressions are used to search for text patterns. Expressions can contain:	
Literal text abcde	
Metacharacters	
• Combinations of the two	

more vi grep sed awk expr

Lesson: Re	egular Expi	ression Met	acharacters
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- Regular expressions use some of the same metacharacters as the shell's pattern matching.
- . * + ? \$ ^ [] () {} |
- To avoid incorrect interpretation, always enclose the regular expression in single quotes:
 - command 'pattern' [filename]
- Single quotes prevent the shell from interpreting the regular expressions.

Lesson: Utilizing regular expressions

match line beginning \$ grep '^stu' /etc/passwd stu01:x:301:300:Student 1:/home/stu01:/bin/sh ... stu09:x:309:300:Student 9:/home/stu09:/bin/sh \$ match line end \$ grep '/bin/bash\$' /etc/passwd root:x:0:0::/root:/bin/bash daemon:x:10:::/bin/bash bin:x:3:0::/bin:/bin/bash ...

Utilizing regular expressions (continued)

Defines a class of characters

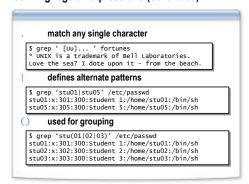
- defines an inclusive range

^ negates the defined class

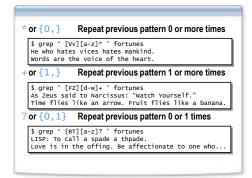
\$ grep '[Dd]isk' fortunes
Disc crisis, please clean up!
I must have slipped a disk; my pack hurts.
...

\$ grep 'Astu0[A2-6]' /etc/passwd
stu01:x:301:300:Student 1:/home/stu01:/bin/sh
stu07:x301:300:Student 7:/home/stu07:/bin/sh
stu08:x:308:300:Student 8:/home/stu08:/bin/sh
stu09:x:309:300:Student 9:/home/stu09:/bin/sh

Utilizing regular expressions (continued)



Regular expressions - closures



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
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