

SCS4ALL Halloween

- × Costume Contest
- × Friday, November 1st, 6:00-7:30 PM
- × NSH Atrium





Regex vs Globs

- × Regex: Expanded by the program
 - × Patterns that match against certain strings

Million establish

- × Normal Characters
- × Quantifiers
- × Character Classes
- × Globs: Expanded by your shell (any shell really)
 - × A little more limited
 - × Context dependent

Quantifier	Matches
a?	Zero or one
a*	Zero or more
a+	One or more
a{3}	Exactly 3
a{3,}	3 or more
a{3,6}	Between 3 and 6



Class	Matches
[abc]	a or b or c
[^abc]	not any of a, b, c
[a-z]	A lowercase letter
[^A-Za-z]	Not a letter
\s	Whitespace
\d	Digit
•	Any single character



Regex	Glob/Range equivalent
•	?
file[1-7]\.txt	<pre>file{17}.txt</pre>
•*	*
(ab)*	Not possible

Witzerstein

Grep: Good Practices

- × Command Line Utility for matching text in files.
 - × Globbing and Regex
- × Globbing -- useful for filename expansion, second argument.

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- × Regex -- useful for pattern definition, first argument.
- × USE QUOTES TO ENSURE PATTERN IS INTERPRETED PROPERLY.

Stronger Together

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Grep Specifics

- × Matching Multiple Specific Patterns
 - \times "pattern1\|pattern2\|pattern3"
 - × -E flag if you don't want to use '\'
- × Bracket notation to match file names
 - x grep pattern dir/*{"substr1", "substr2", "substr3", "substr4"}



Example

- williamster

cat text file.txt

cat text\ file.txt

cat "\x74\x65\x78\x74 \x20\x66\x69\x6c\x65 \x2e\x74\x78\x74"

cat "text file.txt"

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Useful Flags

- × To print filenames: -I
 - × grep -l pattern file
- × To avoid escape characters: -E
 - × grep -E pattern file
- × To match non matching lines: -v --invert-match
- × Many more!



Man Pages

- <u>http://linuxcommand.org/lc3_man_pages/grep1.html</u>
- × Check these out if you have the time!

Nillie Station

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Lab Hints: Hauntlab

- × Attempting to make without the bonus file will not be possible
 - > Just **touch** the bonus filename and leave it empty
 - × Make should work properly
- × Autolab is being really slow right now for everyone

