# 11 Which type of regex does \$LINUX\_UTIL use?

(( Coming soon ))

## 12 More learning resources

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#### 13 Conclusion

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# Regular Expressions in Python and Perl

## 1 Introduction

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# 2 Basic Symbols

Wat do?	How Perl do?	How Python do?
Custom character class	[]	[]
Negated custom	[^]	[^]
character class		
Ranges	[a-z] (with '-' escaped if	[a-z] (with '-' escaped if
	it comes last)	it comes last)
Alternation ("or")		

### 3 Zero-width assertions

Wat do?	How Perl do?	How Python do?
Word boundary	\ b	$\setminus b$
Anywhere but word	\B	\B
boundary		
Beginning of	^ / \A	^ / \A
line/string		
End of line/string	\$ / \Z	\$ / \Z

# 4 Captures and Groups

Wat do?	How Perl do?	How Python do?
Capturing group	() or (? <name>)</name>	() or (?P <name>)</name>
Non-capturing group	(?:)	(?:)
Backreference to a	\1, \g1	$\setminus 1$
specific group		
Named backreference	$ackslash \mathrm{k}{<}\mathrm{name}{>}$	(?P=name)

#### 5 Character Classes

Wat do?	How Perl do?	How Python do?
Any character (except		
newline)		
Match a non-"word"	\W	\W
character		
Match a "word"	\w or [[:word:]]	\w
character		
Case	[[:upper:]] or [[:lower:]]	N/A
Whitespace (not	N/A	N/A
including newlines)		
Whitespace (including	$\setminus s \text{ or } [[:space:]]$	\s
newline)		
Match a	\S	\S
non-whitespace		
character		
Match a digit character	\d or [[:digit:]]	\d
Match a non-digit	\D	$\backslash D$
character		
Any hexadecimal digit	[[:xdigit:]]	N/A
Any octal digit	N/A	N/A
Any graphical	[[:punct:]]	N/A
character excluding		
"word" characters		
Any alphabetical	[[:alpha:]]	N/A
character		
Any alphanumerical	[[:alnum:]]	N/A
character		
ASCII character	[[:ascii:]]	N/A

#### 6 Lookarounds

Wat do?	How Perl do?	How Python do?
Positive lookahead	(?=)	(?=)
Negative lookahead	(?!)	(?!)
Positive lookbehind	(?<=)	(?<=)
Negative lookbehind	(? )</td <td>(?<!--)</td--></td>	(? )</td

Lookaheads assert that the character or series of characters immediately following the current position can be represented by the given expression (here represented by '...'), while lookbehinds assert that the expression is representative of the character immediately preceding the current position.

Positive lookarounds suggest the presence of a match, while negative lookarounds assert the absense of an expression match.

### 7 Multiplicity

Wat do?	How Perl do?	How Python do?
0 or 1	?	?
0 or 1, non-greedy	??	??
0 or 1, don't give back on backtrack	?+	N/A
0 or more	*	*
0 or more, non-greedy	*?	*?
0 or more, don't give	*+	N/A
back on backtrack		
1 or more	+	+
1 or more, non-greedy	*?	*?
1 or more, don't give back on backtrack	++	N/A
Specific number	$\{n\} \text{ or } \{n,m\} \text{ or } \{n,\}$	$\{n\} \text{ or } \{n,m\} \text{ or } \{n,\}$
Specific number, non-greedy	$\{n,m\}$ ? or $\{n,\}$ ?	$\{n,m\}$ ? or $\{n,\}$ ?
Specific number, don't give back on backtrack	${n,m}+ or{n,}+$	N/A

## 8 Other basic regex characters

Wat do?	How Perl do?	How Python do?
Independent	(?>)	N/A
non-backtracking		
pattern		
Anywhere but word	(?i) or (?-i)	(?i) or (?-i)
boundary		

### 9 Examples

(( Coming soon ))

### 10 What type of regex does my text editor use?

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