Regular Expression

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Outline

- What's regular expression
- common regular expression syntax

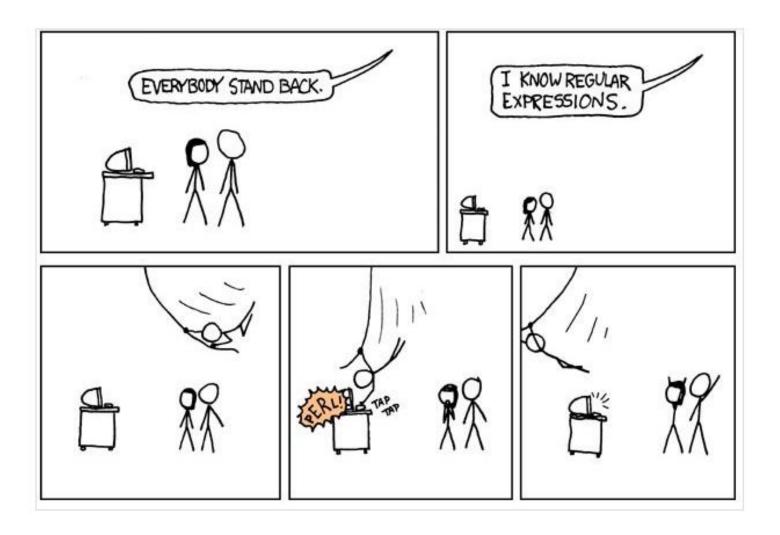
What's regular expression



What's regular expression

- Regular express is
 - really smart "find" or "search"
- Regular expressions are a powerful string manipulation tool
- All modern languages have similar library packages for regular expressions

What's regular expression





common regular expression syntax



common regular expression syntax

Letters inside square brackets []

Pattern	Matches
[li]saac	lsaac, isaac
[0123456789]	any digits
[A-Z]	An upper case letter
[a-z]	A lower case letter
[0-9]	A single digit



common regular expression syntax

symbol	meaning
*	0 or more
+	I or more
?	0 or I
{3}	Exactily 3
(3,5)	3 or 4 or 5
[abc]	Range(a or b or c)
a b	a or b
•	Any character except new line(\n)
Ī	Escape character



Example

- More regression expression
 - http://i26.tinypic.com/24mxgt4.png

ab{2,4}c	an a followed by two, three or four b's followed by a c
ab{2,}c	an a followed by at least two b's followed by a c
ab*c	an a followed by any number (zero or more) of b's followed by a c
ab+c	an a followed by one or more b's followed by a c
ab?c	an a followed by an optional b followed by a c; that is, either abc or ac
a.c	an a followed by any single character (not newline) followed by a c
a\.c	a.c exactly
[abc]	any one of a, b and c
[Aa]bc	either of Abc and abc
[abc]+	any (nonempty) string of a's, b's and c's (such as a, abba, acbabcacaa)



Online regular expression validator

Online regular expression validator

https://pythex.org/

https://medium.com/analytics-vidhya/regular-expressionsan-excellent-tool-for-text-analysis-or-nlp-d1fa7d666cb9