REGULAR EXPRESSIONS CHEATSHEET

Basic RegEx

Expression		Meaning
word	1.	Matches to 'word'
	2.	This is the most form of regex for pattern matching
[wW]	1.	[_,_] represents OR operator
	2.	This matches to 'w' or 'W'
	3.	[0123456789] matches to any single digit
	4.	[A-Z a-z], [0-9] are shorthands
[^a]	1.	if '^' is first symbol after '[' then this is for negation
	2.	This matches anything except 'a'
	3.	[^A-Z]: not uppercase character
	4.	[^\.]: not a period
	5.	[^Ss]: not s or S
countr(y ies)	1.	The ' ' operator is for disjunction
	2.	The '()' operator is for grouping
	3.	This matches either "country" or "countries"

Counting and Wildcards

Expression	Meaning
?	 '?' matches to 0 or 1 instances of _ colou?r: matches to 'color' or 'colour
*	 '*' matches to 0 or more instances of _ 'a*': matches to ", 'a', 'aaa'
+	 '+' matches to 1 or more instances of _ 'a+': matches to 'a', 'aaa'
	 The '.' is a wildcard that matches with anything '.*': Matches to any string including empty string
{n}	 Represents n occurances ([a-z]+){2}: Represents words with 2 repetitions
{n,m}	Represents n to m occurances
{n, }	2. Represents n or more occurances

Anchors and other operators

Expression	Meaning
^_	 Represents start of line
	2. ^[0-9]+: matches to strings that start with integer
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_\$	Represents end of line
	2. [a-z A-Z]+\$: matches to strings that end with a word
\b .* \b	1. Represents boundary
-	
\d	1. Represents digit
	2. \D represents non digit
\w	1. Represents alphanumeric or underscore
	2. \W represents non alphanumeric
\s	1. Represents whitespace or newline
	2. \W represents non whitespace
Representing	1. If we want to represent characters used in symbols we use \
characters like .,	2. \? represents ?; \. represents . and so on
? etc	