

Reg Ex CheatSheet Cheat Sheet by datamansam via cheatography.com/139410/cs/29846/

Regex		
(*) indicates that the preceding character can occur 0 or more times.	meo*w	mew, meoow, and meoooo- ooooooow
? - character can appear either 0 or 1 time	humou? r	humour humor
. and it can match any single character (letter, number, symbol or whitespace) in a piece of text		any 9-char- acter text
[] will match any of the characters included within the brackets	con[sc]e n[sc]us	consensus, concensus, consencus, and concencus
{} contains the exact quantity	roa{3}r	roaaar
{}n. the quantity range of characters to be matched	roa{3,6}r	roaaar, roaaaaar, roaaaaaar, or roaaaaaaar
, allows for the matching of either of two subexpressions.	baboon- s g- orillas	will match the text baboons as well as the text gorillas.

Regex (cont)		
Anchors (hat ^ and dollar sign \$) are used in regular expressions to match text at the start and end of a string, respectively.	^Monkeys: my mortal enemy\$	will completely match the text Monkeys: my mortal enemy but not match Spider Monkeys: my mortal enemy or Monkeys: my mortal enemy in the wild
[letter-letter] or [n-n]	a range of characters that can be matched	[A-Z].: match any uppercase letter [a-z].: match any lowercase letter [0-9].: match any digit [A-Za-z]: match any uppercase or lowercase letter
Shorthand character classes simplify writing regular expressions	\w represents the regex range [A- Za-z0-9_], \d represents [0-9],	\W represents [A-Za-z0-9_] matching any character not included by \w, \D represents [0-9] matching any character not included by \d

Regex (cont)		
Negated character set	[^cdh]are	will match the m in mare.
+ ndicates that the preceding character can occur 1 or more times	meo+w	will match meow, meooow, and meoooo- ooo- oooow, but not match mew

Text Preproces	sing	
Noise removal	<pre>import re result = re.sub(r'[\.\?- \!\:\;\"]', ", text)</pre>	Removes Punctu- ation
Tokenization is the text preprocessing task of breaking up text into smaller components of text	from nltk.t- okenize import word_t- okenize text = "This is a text to tokenize" tokenized = word_tokeniz- e(text)	print(tok- enized) # ["This", "- is", "a", "- text", "to", "tokeni- ze"]
In natural language processing, normalization encompasses many text preprocessing tasks including	stemming, lemmatiza- tion,	upper or lowerc- asing, and stopwords removal.



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Text Preproces	sing (cont)	
Stemming In	from nltk.stem	# ['So',
natural	import Porter-	'mani',
language	Stemmer	'squid',
processing,	tokenized =	'are',
stemming is	["So", "many", "-	'jump']
the text	squids", "are", "-	
preprocessing	jumping"]	
normalization	stemmer =	
task	PorterStemmer()	
concerned	stemmed =	
with bluntly	[stemmer.stem(t-	
removing	oken) for token	
word affixes	in tokenized]	
(prefixes and		
suffixes).		
Lemmat-	from nltk.stem	['So',
ization In	import WordNe-	'many',
natural	tLemmatizer	'squid',
language	tokenized =	'be',
processing,	["So", "many", "-	'jump']
lemmatization	squids", "are", "-	
is the text	jumping"]	
preprocessing	lemmatizer =	
normalization	WordNetLemma-	
task	tizer()	

Text Preproces	ssing (cont)	
stopword	from nltk.c-	# remove
removal is	orpus	stopwords
the process	import	from tokens
of removing	stopwords	in dataset
words from a	# define set	statement-
string that	of English	_no_stop =
don't provide	stopwords	[word for
any inform-	stop_words	word in
ation about	= set(st-	word_tokens
the tone of a	opwords.w-	if word not in
statement.	ords('eng-	stop_words]
	lish'))	
parser.	Uses a set	{ <dt jj>} #</dt jj>
chunk.Reg-	of regular	chunk
expParser	expression	determiners
	patterns to	and
	specify the	adjectives
	behavior of	
	the parser	
Token = Smaller Component of Text		
Stem = Remove prefix and suffix		
Lemmatization = Bring down to root		
Stopword = Re	emove meaning	gless

Lists and String	s	
z = 'Natural Language Processing'	z.repl- ace(' ', '\n')	'Natural\nLa- nguage\nProc- essing'
	list(z)	Split text into character tokens
	set(z)	Unique tokens
x = ['Natural', 'Language', 'Toolkit']	x.inse- rt(0, 'Python')	['Language', 'Natural', 'Python', 'Toolkit']



concerned

with bringing

words down

to their root

forms.

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lemmatized =

token in

tokenized]

[lemmatizer.lem-

matize(token) for

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