Cheatography

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Regex			Regex (cont)			Regex (cont)		
(*) indicates that the preceding character can occur 0 or more times.	meo*w	mew, meoow, and meoooo- ooooooow	Anchors (hat ^ and dollar sign \$) are used in regular expressions	^Monkeys: my mortal enemy\$	will completely match the text Monkeys: my mortal	Negated character set + ndicates that the preceding character can	[^cdh]are meo+w	will match the m in mare. will match meow, meooow,
 ? - character can appear either 0 or 1 time . and it can match any single character (letter, number, symbol or whitespace) in a piece of text 	humou? r	humour humor any 9-char- acter text	to match text at the start and end of a string, respectively.		enemy but not match Spider Monkeys: my mortal enemy or Monkeys: my mortal enemy in the	occur 1 or more times		and meooooo- oooo- ooooow, but not match mew
] will match any of the characters included within the brackets	con[sc]e n[sc]us	consensus, concensus, consencus, and concencus	[letter-letter] or [n-n]	a range of characters that can be matched	wild [A-Z]. : match any uppercase letter [a-z]. :	Noise removal	<pre>import re result = re.sub(r'[\.\?- \!\:\;\"]', ", text)</pre>	Removes Punctu- ation
{} contains the exact quantity	roa{3}r	roaaar			match any lowercase letter [0-9]. :	Tokenization is the text	from nltk.t- okenize	print(tok- enized) #
<pre>{}n. the quantity range of characters to be matched], allows for the</pre>	roa{3,6}r baboon-	roaaar, roaaaaar, roaaaaaar, or roaaaaaaar will match			match any digit [A-Za-z] : match any uppercase or lowercase letter	prepro- cessing task of breaking up text into smaller components	import word_t- okenize text = "This is a text to tokenize" tokenized =	["This", "- is", "a", "- text", "to", "tokeni- ze"]
matching of either of two subexpres- sions.	s g- orillas	the text baboons as well as the text gorillas.	Shorthand character classes simplify writing regular expressions	\w represents the regex range [A- Za-z0-9_], \d represents [0-9],	<pre>\W represents [A-Za-z0-9_] matching any character not included by \w, \D represents [0-9] matching any character not included by \d</pre>	of text In natural language processing, normalization encompasses many text prepro- cessing tasks including	word_tokeniz- e(text) stemming, lemmatiza- tion,	upper or lowerc- asing, and stopwords removal.

By datamansam

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Text Preproces	sing (cont)		Text Preprocessing (cont)			
Stemming In natural language processing, stemming is the text preprocessing normalization task concerned with bluntly removing	from nltk.stem import Porter- Stemmer tokenized = ["So", "many", "- squids", "are", "- jumping"] stemmer = PorterStemmer() stemmed = [stemmer.stem(t- oken) for token	# ['So', 'mani', 'squid', 'are', 'jump']	stopword removal is the process of removing words from a string that don't provide any inform- ation about the tone of a statement.	from nltk.c- orpus import stopwords # define se of English stopwords stop_words = set(st- opwords.w- ords('eng- lish'))	stopwords from tokens in dataset statement- no_stop = [word for word in word_tokens	
word affixes (prefixes and suffixes).	in tokenized]		parser. chunk.Reg- expParser	Uses a set of regular expression patterns to specify the behavior of the parser	{ <dt jj>} # chunk determiners and adjectives</dt jj>	
Lemmat- ization In natural language processing, lemmatization is the text preprocessing normalization	from nltk.stem import WordNe- tLemmatizer tokenized = ["So", "many", "- squids", "are", "- jumping"] lemmatizer = WordNetLemma- tizer()	['So', 'many', 'squid', 'be', 'jump']				
			Token = Smaller Component of Text Stem = Remove prefix and suffix Lemmatization = Bring down to root Stopword = Remove meaningless			
task			Lists and Strings			
concerned with bringing words down to their root	lemmatized = [lemmatizer.lem- matize(token) for token in		z = 'Natural Language Processing'	z.repl- ace(' ', '\n')	'Natural\nLa- nguage\nProc- essing'	
forms.	tokenized]			list(z)	Split text into character tokens	
				set(z)	Unique tokens	
			x = ['Natural', 'Language', 'Toolkit']	x.inse- rt(0, 'Python')	['Language', 'Natural', 'Python', 'Toolkit']	
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