

parsing

S	Sentence or clause.	-ADV	Constituent is used adverbially
SBAR	Clause introduced by a (possibly empty) subordinating conjunction.	-LOC	Constituent indicates event location
SBARQ	Direct question introduced by a <i>wh</i> -word or <i>wh</i> -phrase.	-PRD	Constituent serves as a sentence's predicate but is not a VP
SINV	Inverted declarative sentence.	-NOM	Constituent is used as a noun, e.g., <i>what I really like is chocolate</i>
SQ	Inverted yes/no question, or main clause of a <i>wh</i> -question.	-TMP	Constituent indicates when, how often, how long
ADJP	Adjective Phrase.	CC	Coordinating conjunction
ADVP	Adverb Phrase.	CD	Cardinal number
CONJP	Conjunction Phrase.	DT	Determiner
FRAG	Fragment.	EX	Existential <i>there</i>
INTJ	Interjection.	FW	Foreign word
LST	List marker. Includes surrounding punctuation.	IN	Preposition or subordinating conjunction
NAC	Not A Constituent; used within an NP.	JJ	Adjective
NP	Noun Phrase.	JJR	Adjective, comparative
NX	Used within certain complex NPs to mark the head.	JJS	Adjective, superlative
PP	Prepositional Phrase.	LS	List item marker
PRN	Parenthetical.	MD	Modal
PRT	Particle.	NN	Noun, singular or mass
QT	Quantity Phrase (i.e., complex measure/amount) within NP.	NNS	Noun, plural
RRC	Reduced Relative Clause.	NNP	Proper noun, singular
UCP	Unlike Coordinated Phrase.	NNPS	Proper noun, plural
VP	Verb Phrase.	PDT	Predeterminer
WHADJP	<i>Wh</i> -adjective Phrase, as in <i>how hot</i> .	POS	Possessive ending
WHADV	<i>Wh</i> -adverb Phrase.	PP	Personal pronoun
WHNP	<i>Wh</i> -noun Phrase, e.g. <i>who, which book, whose daughter, none of which, or how many legends</i> .	PS	Possessive pronoun
WHPP	<i>Wh</i> -prepositional Phrase, e.g., <i>of which</i> or <i>by whose authority</i> .	RB	Adverb
X	Unknown, uncertain, or unbracketable.	RBR	Adverb, comparative
		RBS	Adverb, superlative
		RP	Particle
		SYM	Symbol (mathematical)
		TO	The word <i>to</i>
		UH	Interjection
		VB	Verb, stem
		VBD	Verb, past tense
		VBG	Verb, present participle
		VBN	Verb, past participle
		VBP	Verb, present but not VBZ
		VBZ	Verb, present, 3rd-person sing.
		WDT	<i>wh</i> -determiner
		WP	<i>wh</i> -pronoun
		WPP	Possessive <i>wh</i> -pronoun
		WRB	<i>wh</i> -adverb

cross entropy

$$H(X) = - \sum p(x) \log_2 p(x)$$

perplexity = $2^H(X)$ (cross entropy)



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