

nlp-19 Cheat Sheet

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

cross entropy

 $H(X) = - p(x)log \frac{2}{2}p(x)$ perplexity = 2 (cross entropy)



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