School of Computing and Information Systems The University of Melbourne COMP90042

NATURAL LANGUAGE PROCESSING (Semester 1, 2020)

	Workshop exercises: W	eek 9 h	to se multiple
Discussion	1 200	of there of	Tweels'
1. What differentia important? How	Workshop exercises: We have the probabilistic CYK parsing does this affect the algorithms	from CYK parsing?	ng? Why is this
2. What is a probal	oilistic context-free grammar a	and what problem	does it attempt
to solve?	adiline	_	1
3. A hidden Marko	v model assigns each word in	a sentence with a f	tag, e.g.,
Donald/NNP has/VBZ small/JJ hands/NNS			
adjacent tags. Shous probabilities productions. Wh	of the sequence is based on the now how this process can be fra (e.g., observation, transition, a nat are the similarities and diffend the HMM's Viterbi algorithm	nmed as a CFG, an nd initial state) ca rences between CY	nd how the vari- n be assigned to YK parsing with
work against the corenlp.run/	ependency types, construct (be ntence: Yesterday, I shot an elepter output of the online GUI for 0). 0 0 0 0 0 0 0 0 0 0	ohant in my pyjam r the Stanford Par wy allows	rser (https://
(probabilistic) C	EYK parsing ? In what ways is i	t different?	
nal' crk books	for every path viate normal form us production rule.	le to	have relation
vo Consmict	normal form	ing the	with non w
and existing	production Me.		neighbour.
hoover park use	s probability to sel n path to conspur- enteres	ert the	
op (iaina	~ path to conspu	the Ctor	[nee
of given &	enteners ,		1 26
d. oxx	de willte to	ach mode	uton MCtG.
Provide	a languet mo f likely sentenn rad knowledge)	del that	recommends
the bes	of likely sentenn	es hased	on grammar
(Sy wtact	real knowledge)		•

Poneld has small liands NNP VBZ JJ NNS. First step: probability assigned by HMM to the tagsed Sentences. Dependency Passer: no pos-tag? Citi only local belations l'an do non-local relations.

add sub-trees in we new tally VB - Root

Preposition

Pesteroley, I shot an elephant in my/pijanas

position Truede poot. 1) Determe Sentence Structure disambigniate Densing Trees 2) Use pro basilisere grammer to disambignento...