









		Horizontal Markov Order					VP		
Vertical Order $v = 1$ No annotation		h = 0 $h =71.27 72(854) (311)$	h = 1 72.5	$\frac{h \le 2}{73.46} \frac{h =}{72.9}$	h = 2 72.96	$\frac{h = \infty}{72.62}$	 Can do some other specialized tag splits: e.g., sentential TO VP TO VP 	TO VP	
$v \le 2$	Sel. Parents	74.75 (2285)	(3119) 77.42 (6564)	(7619)	(0207) 77.50 (11398)	76.91 (14247)	from other prepositions	to VB SBAR see IN SNT S if NP V NN V	
<i>v</i> = 2	All Parents	74.68 (2984)	77.42 (7312)	77.81 (8367)	77.50 (12132)	76.81 (14666)	79 F1 => 86.3 F1 using more tricks		
$v \leq 3$	Sel. GParents	76.50 (4943)	78.59 (12374)	(13627)	78.97 (19545)	78.54 (20123)			
v = 3	All GParents	76.74 (7797)	79.18 (15740)	79.74 (16994)	79.07 (22886)	78.72 (22002)		advertising w	
F	Figure 2: Marke	ovizatio	ns: F ₁ a	and gran	nmar siz	ze.			
Klein and Manning (2003)								Klein and Mannin	



