

Quiz3 Qingyuan Zhang

W	john	studying	with	Mary	does	not	like	Susan	is	also
noun	1/3			1/3				1/3		

verb	1/3	1/3	1/3
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aux	1/2	1/2
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prep          1/2          1/2
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$$\text{adv} \qquad \qquad \qquad 1/2 \qquad \qquad \qquad 1/2$$

T e noun verb aux prep adv

noun	1/2	1/6	1/3
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verb	1/3	1/3	1/3
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aux	1
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prep	1/2	1/2
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adv	1/2	1/2
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P

noun 2/5

verb 1/5

aux 2/15

prep 2/15

adv 2/15

Now we compute the likelihood of the new sentence. John did not like playing with Tom.

John: **n: 2/5*1/2*1/3** v: 1/5*e*e aux: 2/15*e*e prep: 2/15*e*e adv: 2/15*e*e

did: n: $2/5 * e * e$ v: $1/5 * 1/3 * e$ **aux: $2/15 * 1/3 * e$** prep $2/15 * e * e$ adv: $2/15 * e * e$

not: $n: 2/5 * e * e$ v: $1/5 * 1/3 * e$ aux $2/15 * e * e$ prep: $2/15 * e * e$ **adv: $2/15 * 1/2 * 1/3$**

like $n:2/15 * e * e$ $v:1/5 * 1/3 * 1/3$ $aux: 2/15 * e * e$ $prep:2/15 * 1/2 * 1/2$ $adv:2/15 * e *$

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