

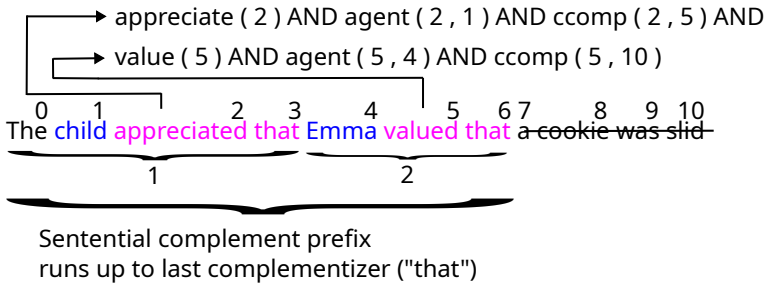
RASP-for-ReCOGS

Decoder loop

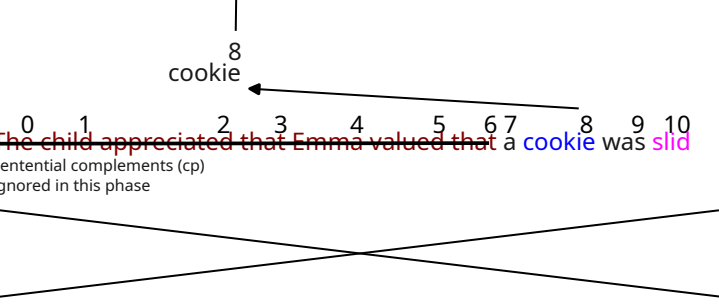
unrolling cp depth 2

0 1 2 3 4 5 6 7 8 9 10
The child appreciated that Emma valued that a cookie was slid | * child (1) ; Emma (4) ;

1 4 8 2 5 10 0 3 6 7 9
child Emma appreciate value slide The that that a was
(words sorted: nouns, verbs, then other) (stemmed verbs)
(sentential complements ("appreciated that", "valued that") in this sentence so CP verbs get additional relations and are output in next phase instead)



v_unacc_pp_p1 (index 10) template (matched by Encoder):
theme (10 , 8)



noun and verb introduction phase
number of nouns,verbs in output matches input?

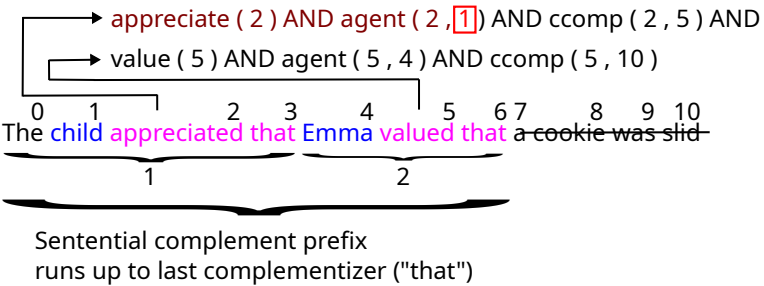
sentential complement (cp) prefix handling
number of cp prefixes in output matches number of cp prefixes in input?
(number of complementizers, e.g. "that")

verb relationship phase
number of relationships in output matches template size for matched verb-centered grammar pattern?

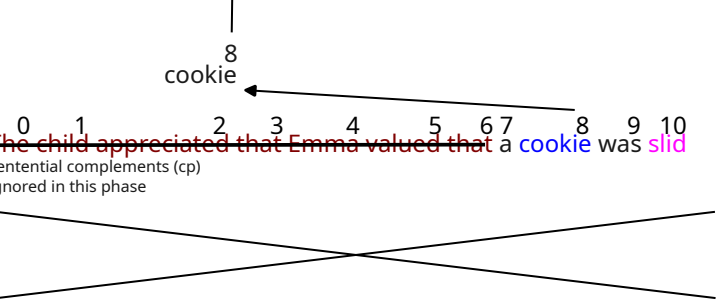
nmod handling phase (not applicable here)
number of nmods in output matches number of prepositions in input?

0 1 2 3 4 5 6 7 8 9 10
The child appreciated that Emma valued that a cookie was slid | * child (1) ; Emma (4) ; cookie (8) ; appreciate (2) AND agent (2 ,

1 4 8 2 5 10 0 3 6 7 9
child Emma cookie appreciate value slide The that that a was
(words sorted: nouns, verbs, then other) (stemmed verbs)
(sentential complements ("appreciated that", "valued that") in this sentence so CP verbs get additional relations and are output in next phase instead)



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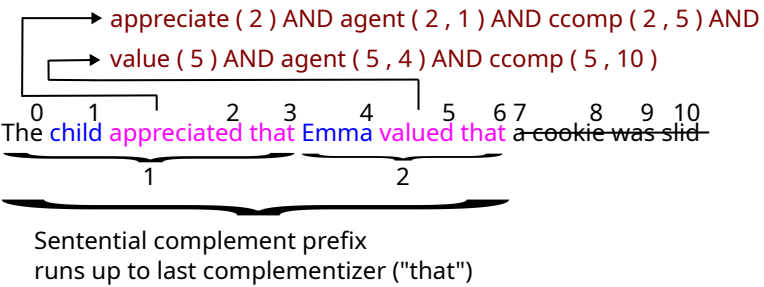
sentential complement (cp) prefix handling
number of cp prefixes in output matches number of cp prefixes in input?
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verb relationship phase
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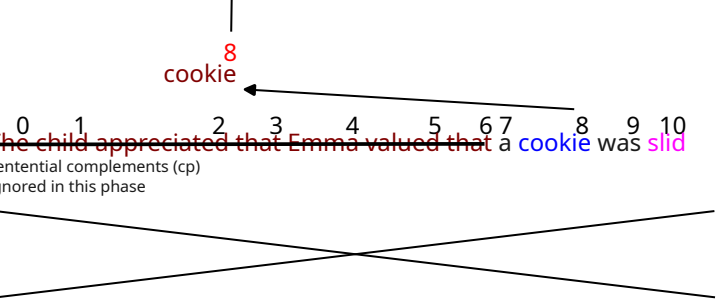
nmod handling phase (not applicable here)
number of nmods in output matches number of prepositions in input?

0 1 2 3 4 5 6 7 8 9 10
The child appreciated that Emma valued that a cookie was slid | * child (1) ; Emma (4) ; cookie (8) ; appreciate (2) AND agent (2 , 1) AND ccomp (2 , 5) AND value (5) AND agent (5 , 4) AND ccomp (5 , 10) AND slide (10) AND theme (10 ,

1 4 8 2 5 10 0 3 6 7 9
child Emma cookie appreciate value slide The that that a was
(words sorted: nouns, verbs, then other) (stemmed verbs)
(sentential complements ("appreciated that", "valued that") in this sentence so CP verbs get additional relations and are output in next phase instead)



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theme (10 , 8)



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number of nouns,verbs in output matches input?

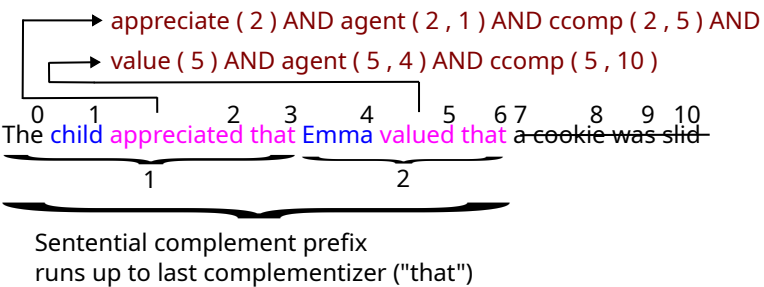
sentential complement (cp) prefix handling
number of cp prefixes in output matches number of cp prefixes in input?
(number of complementizers, e.g. "that")

verb relationship phase
number of relationships in output matches template size for matched verb-centered grammar pattern?

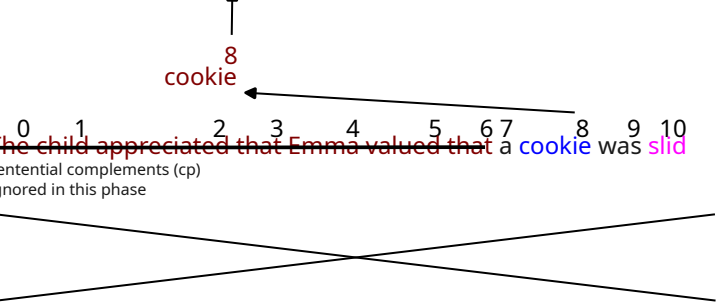
nmod handling phase (not applicable here)
number of nmods in output matches number of prepositions in input?

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The child appreciated that Emma valued that a cookie was slid | * child (1) ; Emma (4) ; cookie (8) ; appreciate (2) AND agent (2 , 1) AND ccomp (2 , 5) AND value (5) AND agent (5 , 4) AND ccomp (5 , 10) AND slide (10) AND theme (10 , 8)

1 4 8 2 5 10 0 3 6 7 9
child Emma cookie appreciate value slide The that that a was
(words sorted: nouns, verbs, then other) (stemmed verbs)
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theme (10 , 8)



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