Exercise 8 (Due by July 11)

1. Consider the following sentence involving object control:

\[(1) \text{Mary persuades John to leave.}\]

(a) Provide the lexical entries (of type word) of “Mary”, “John”, “persuades”, and “to leave”.

(b) Give the derivation of (1) in tree notation. Focus on CATEGORY, as on the slides. You may use abbreviations here!

Solution:

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"persuades":
    word [head Verb[fin]
        cat [subcat \(\text{NP}_{3sg}\text{[nom]}, \text{NP}_{2}\text{[acc]}, \text{VP}_{inf}\text{, subcat} \text{NP}_{2}\text{]}\)]
        cont persuade]$ref$, $ref$, $ref$

       [HEAD Verb[fin]]

       \(\text{NP}_{3sg}\text{[nom]}\)

       \(\text{Mary}\)

       \(\text{H}\)

       \(\text{persuades}\)

       \(\text{C}\)

       \(\text{NP}_{3sg}\text{[acc]}\)

       \(\text{John}\)

       \(\text{VP}_{inf}\text{, subcat}<\text{NP}_{2}>\)

       \(\text{to leave}\)
```

2. Consider the following sentence involving long-distance dependency:

\[(2) \text{Whom did Kim say Peter loves } \_\_.\]

Give the derivation of (2) in tree notation. Assume that “did” and “say” have the following lexical entries (only the relevant part):

“did”:

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"did":
    word [head Verb[fin]
        synsem | loc | cat [head [verb vform fin]
            subcat [VP[inf]]]
```

“say”:

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"say":
    word [head Verb[fin]
        synsem | loc | cat [head [verb vform inf]
            subcat [NP[nom], VP[fin]]]
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Kim says Peter loves whom.