Constituent structure

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COGS 532: Theoretical Linguistics
METU, Informatics

① A B C   linear provedence relation
              A < B ✓
              C < B ✗

② A) B C   partitioning   (Eg. A B|C D E|F
             ≡ grouping

③ (A (B C))   LP + O + hierarchy
                              "sec"

((A B) C)

Claim: Linguistic sequences
       are hierarchically structured.

green tea filter

. ((green tea) filter)
. (green (tea filter))

(John (loves Mary] }

John   loves   Mary   "VP-fronting"
                              = VP-fronting"

① [love Mary] is   what John does

[John   loves] Mary.

② John [loves Mary] and Bill does so too .
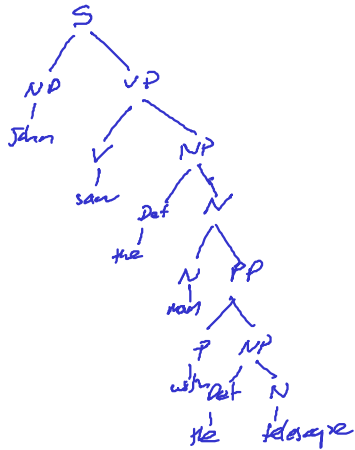
VP-Ellipsis

* [John loves] Mary   and   X   Harry

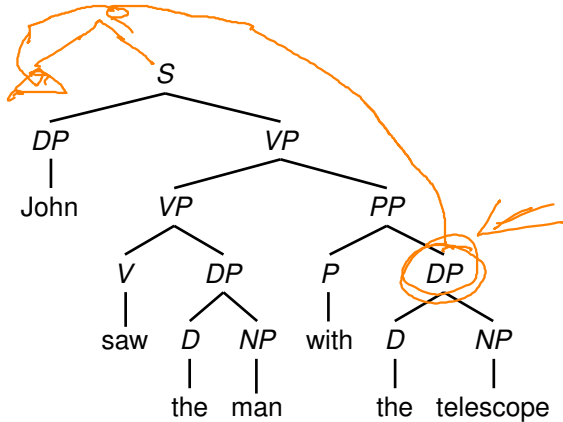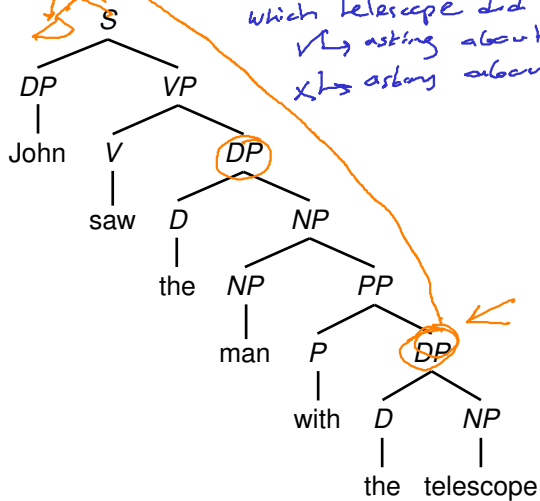(S (V O))   ((S V) O)
                  └─→ move around X

(1) (John)saw the man with the telescope.
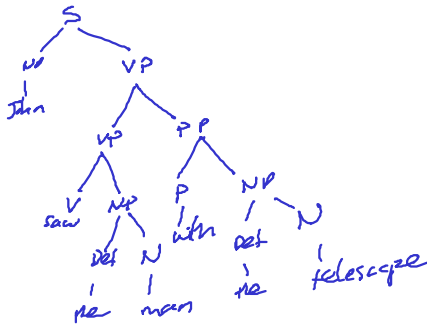
(2)   John saw the man with the telescope.

Which telescope did John see the man with.
✓↳ asking about the telescope John used.
✗↳ asking about the telescope the man holds.

Tree 1:
```
         S
       /   \
     DP     VP
     |     /  \
   John   V    DP
          |   /  \
        saw  D    NP
             |   /  \
           the  NP   PP
                |   /  \
              man  P    DP
                   |   /  \
                 with  D    NP
                       |     |
                      the  telescope
```

Tree 2:
```
              S
            /   \
          DP     VP
          |     /    \
        John   VP     PP
              /  \    /  \
             V    DP  P    DP
             |   / \  |   /  \
           saw  D  NP with D   NP
                |   |     |    |
               the man   the telescope
```

Constraint: X cannot move out of X.