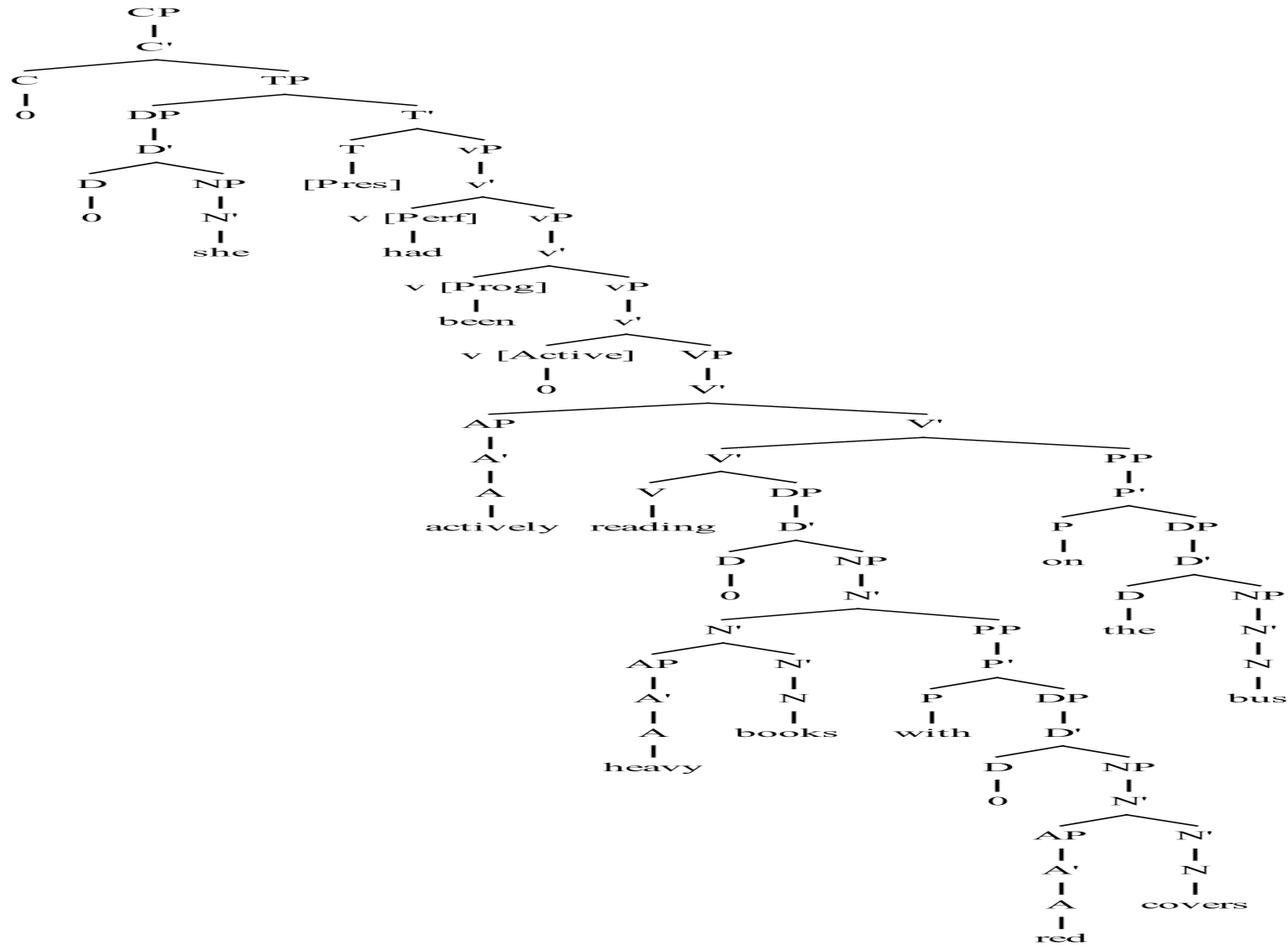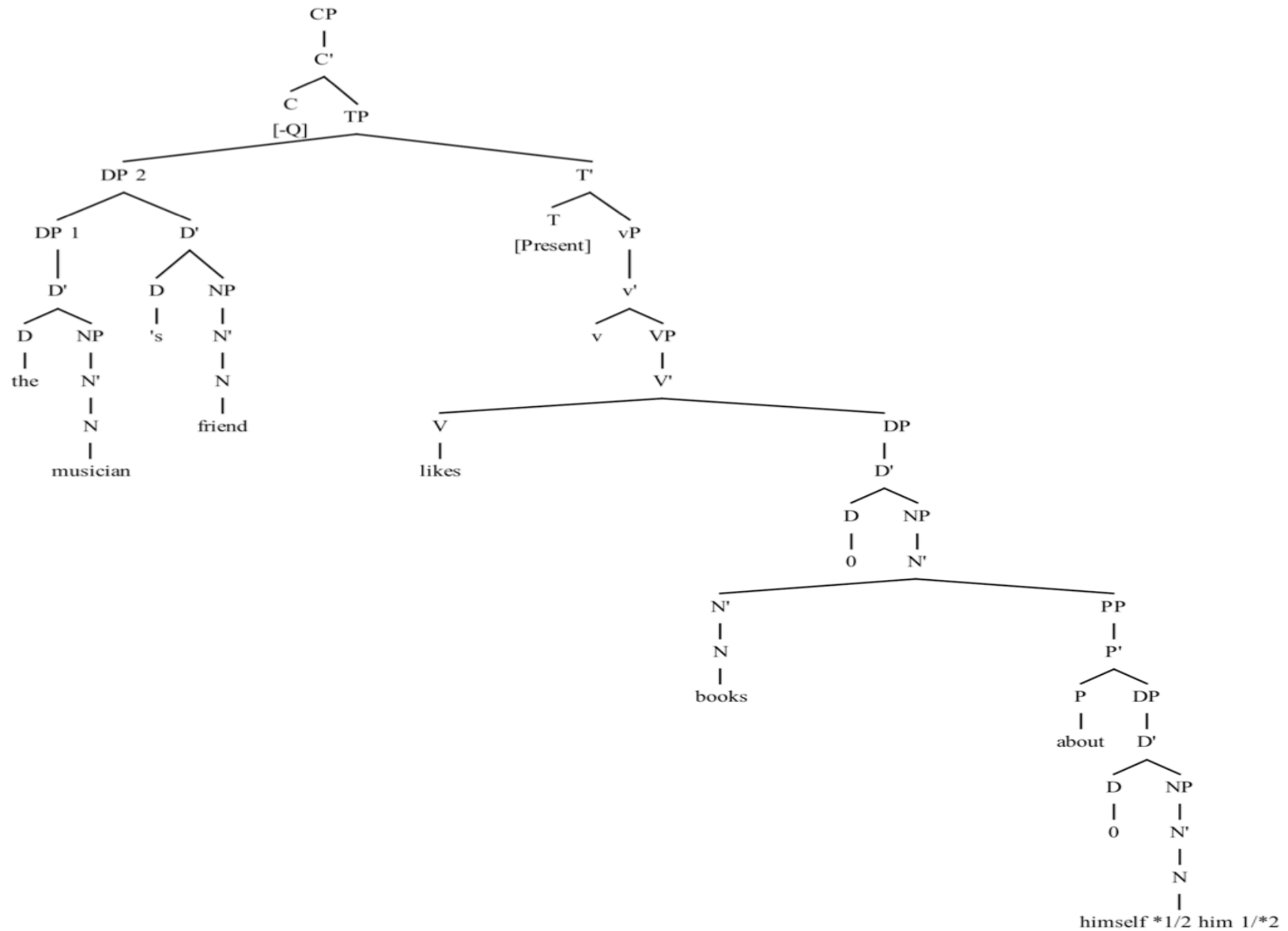# Exercises in X-bar and binding

Adam Szczegielniak

She had been actively reading heavy books with red covers on the bus
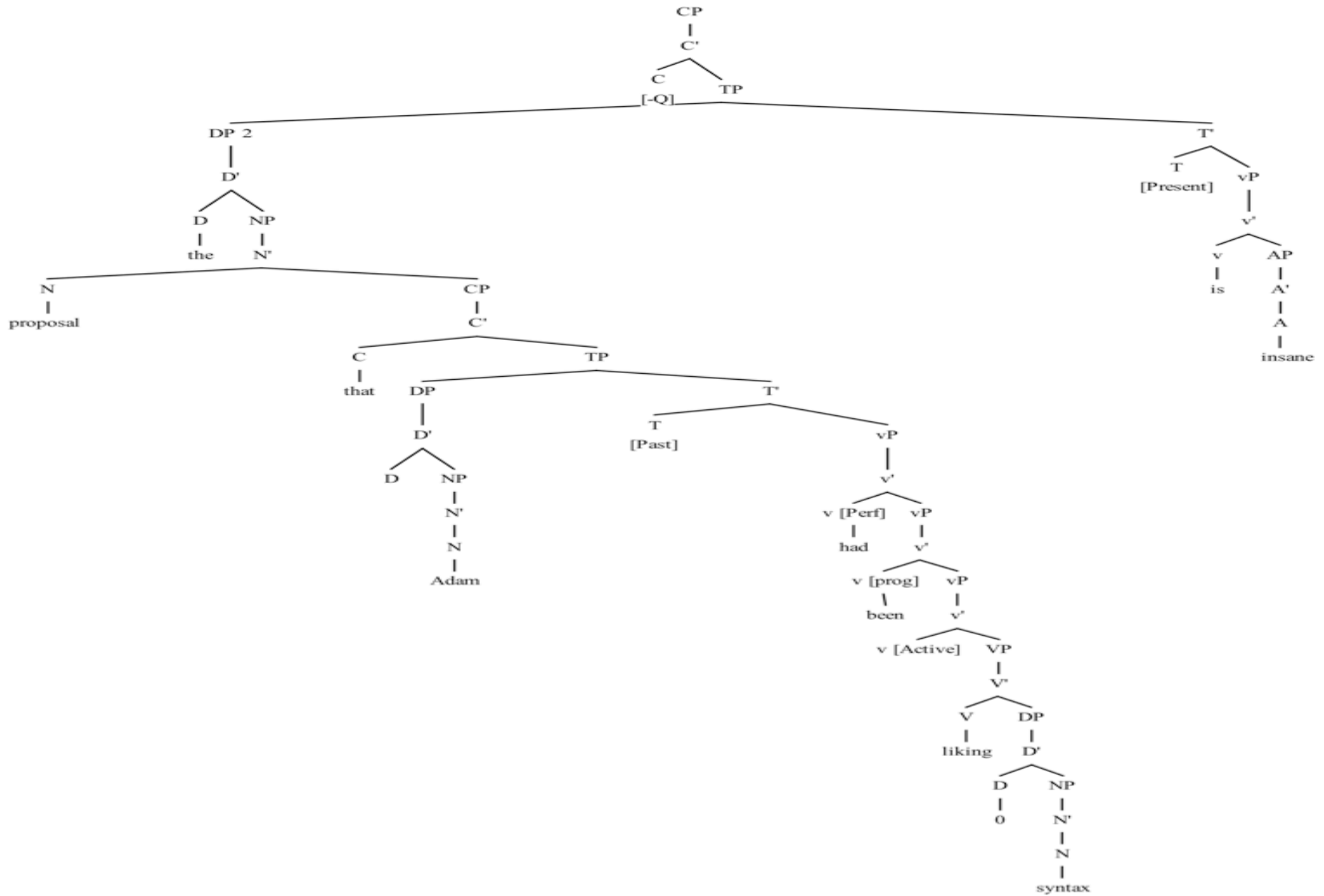
CP
C'
C
o
TP
DP
T'
D'
T
[Pres]
vP
D
o
NP
N'
she
v'
v [Perf]
had
vP
v'
v [Prog]
been
vP
v'
v [Active]
o
VP
V'
AP
A'
A
actively
V'
V
reading
DP
D'
D
o
NP
N'
N'
AP
A'
A
heavy
N'
N
books
PP
P'
P
with
DP
D'
D
o
NP
N'
AP
A'
A
red
N'
N
covers
PP
P'
P
on
DP
D'
D
the
NP
N'
N
bus

The musician's friend likes books about himself/him

```
                                    CP
                                    |
                                    C'
                                   / \
                                  C   TP
                                [-Q]  
                   _____|_____
                  DP 2                                    T'
                 /    \                                   / \
              DP 1     D'                                T   vP
               |      /  \                           [Present] |
               D'    D    NP                                   v'
              / \    |    |                                   / \
             D   NP  's   N'                                 v   VP
             |   |        |                                      |
            the  N'       N                                      V'
                 |        |                        _____|_____
                 N      friend                    V                           DP
                 |                                 |                           |
              musician                           likes                         D'
                                                                              / \
                                                                             D   NP
                                                                             |    |
                                                                             0    N'
                                                         _____|_____
                                                        N'                                        PP
                                                        |                                         |
                                                        N                                         P'
                                                        |                                        / \
                                                      books                                     P   DP
                                                                                                |    |
                                                                                              about   D'
                                                                                                     / \
                                                                                                    D   NP
                                                                                                    |    |
                                                                                                    0    N'
                                                                                                         |
                                                                                                         N
                                                                                                         |
                                                                                           himself *1/2 him 1/*2
```
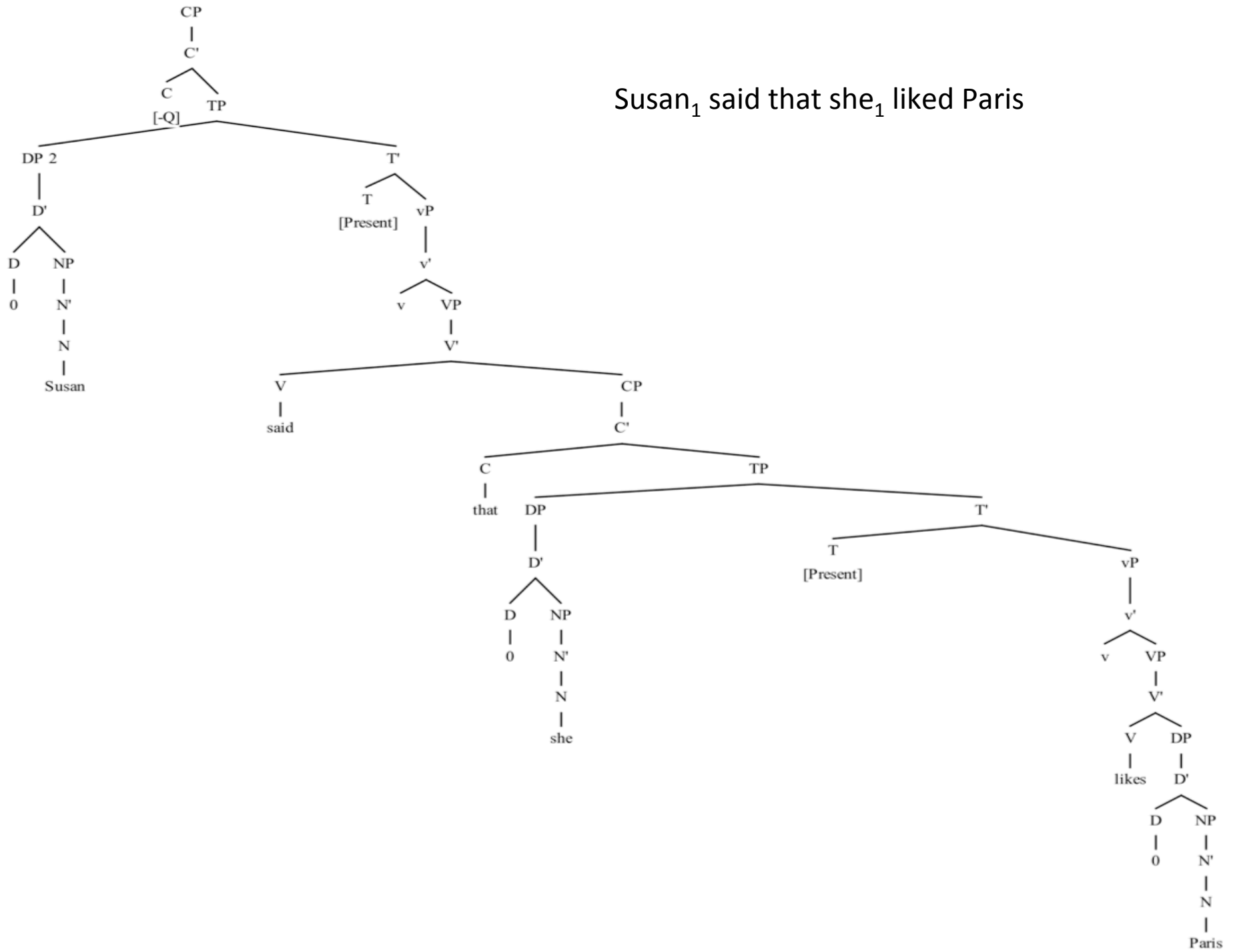
Binding conditions in action

- Condition A
  - Himself can be co-indexed with DP2 since
    - DP2 c-commands himself (DP2 sister of T')
    - DP2 and DP containing Himself are in the same CP
  - Himself cannot be co-indexed with DP 1 since
    - DP1 does not c-command himself (DP1 sister of D')
- Condition B
  - Him cannot be co-indexed with DP2 since
    - DP2 c-commands Him (DP2 sister of T')
    - DP2 is in the same minimal CP domain as him
  - Him can be co-indexed with DP1 since
    - DP1 does not c-command Him (DP1 sister of D')
    - DP1 and him are in the same minimal CP but that does not matter

The proposal that Adam had been liking syntax is insane

Susan$_1$ said that she$_1$ liked Paris

CP
C'
C [-Q]
TP
DP 2
D'
D | 0
NP
N'
N | Susan
T'
T [Present]
vP
v'
v
VP
V'
V | said
CP
C'
C | that
TP
DP
D'
D | 0
NP
N'
N | she
T'
T [Present]
vP
v'
v
VP
V'
V | likes
DP
D'
D | 0
NP
N'
N | Paris

Binding conditions in action

– Condition B

– She can be co-indexed with DP2 Susan since

- DP2 c-commands she (DP2 sister of T')
- DP2 is **not** in the same minimal CP domain as she