Phrases and phrasal categories
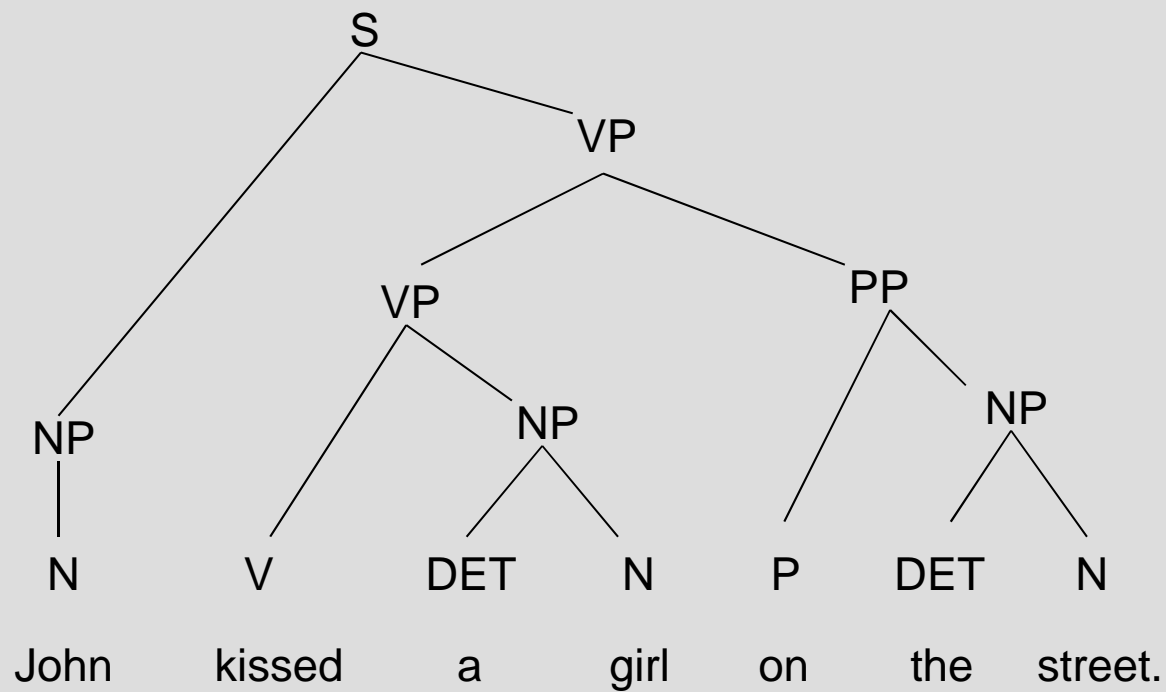
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Phrase structure

Syntactic structure is hierarchical.

```
                        S
                       / \
                        VP
                       /  \
                     VP     PP
                    /  \   /  \
                  NP        NP
                  |
        N       V   DET  N  P  DET  N

      John   kissed  a   girl on  the  street.
```

Phrase structure tests

- Pronominalization

   He kissed her (over) there.

- Movement

   On the street John kissed the girl.

- Coordination

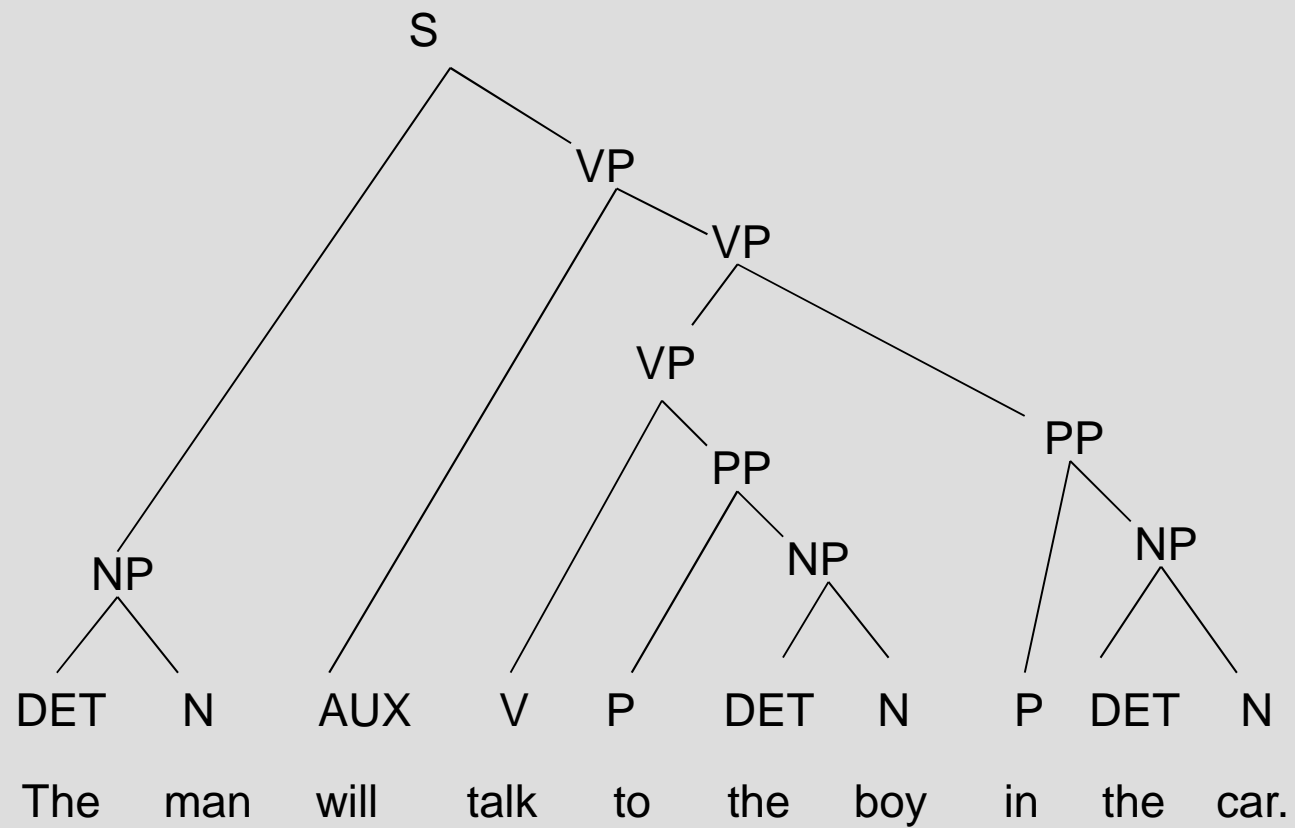   John kissed the girl and her friend on the street.

- Sentence fragment

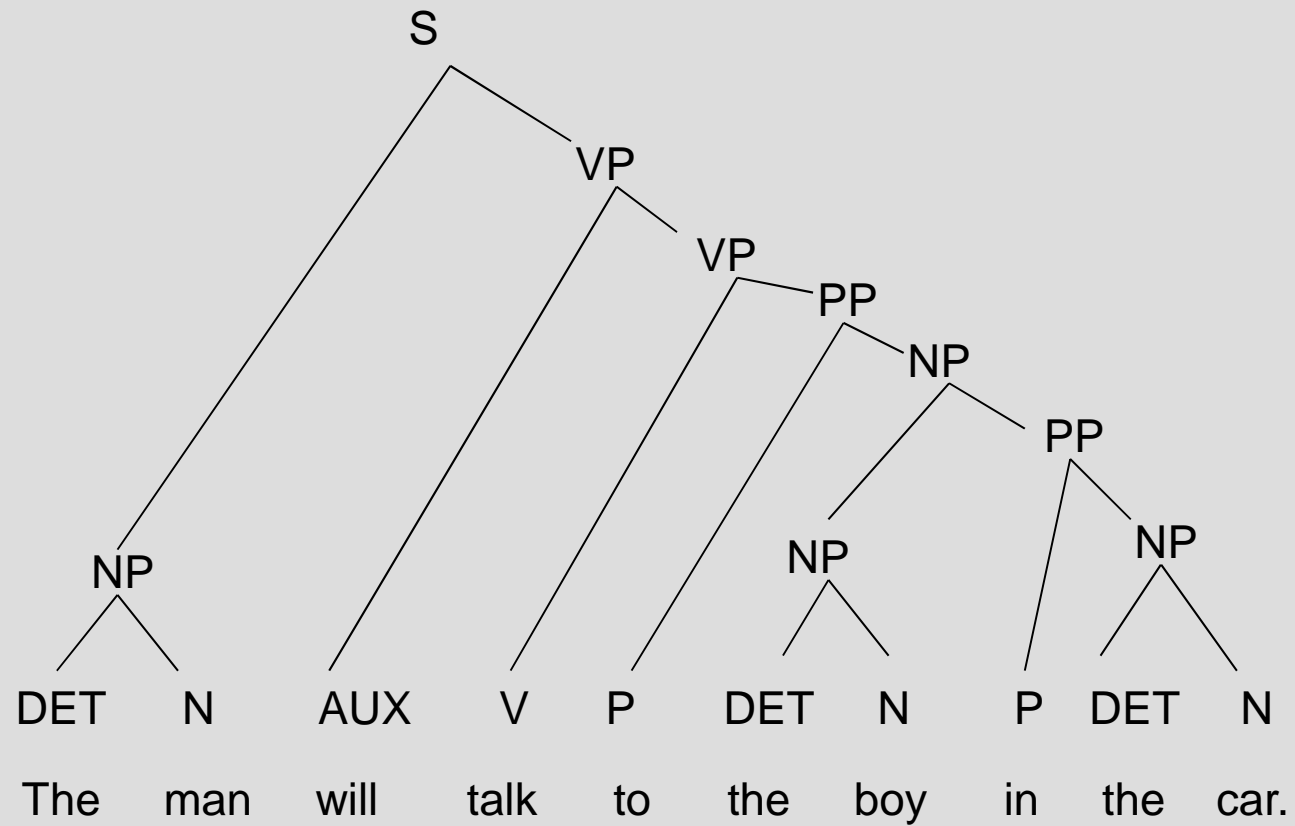   Where did John kiss the girl? On the street.

- Gapping

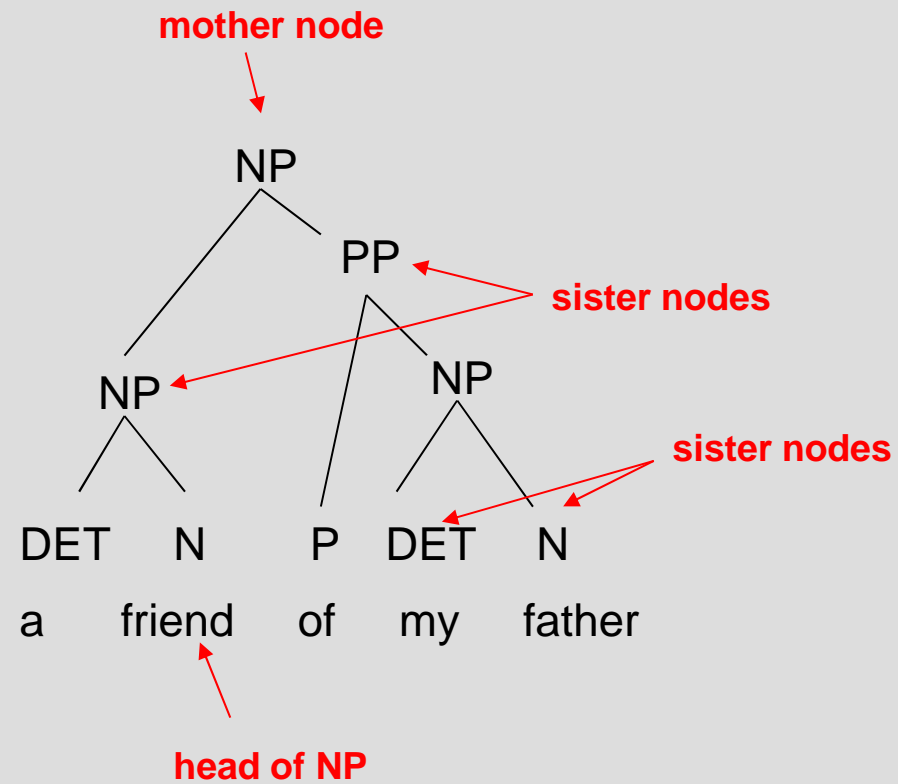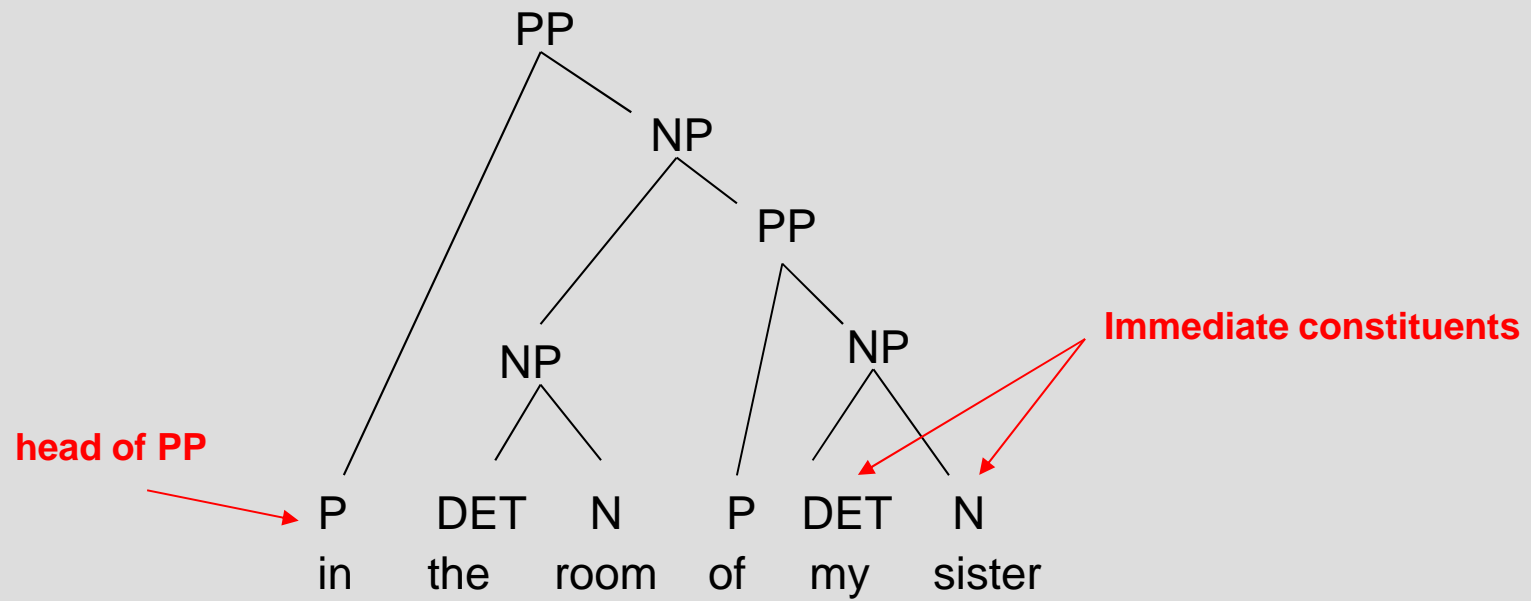   John kissed the girl on the street, did he __ ?
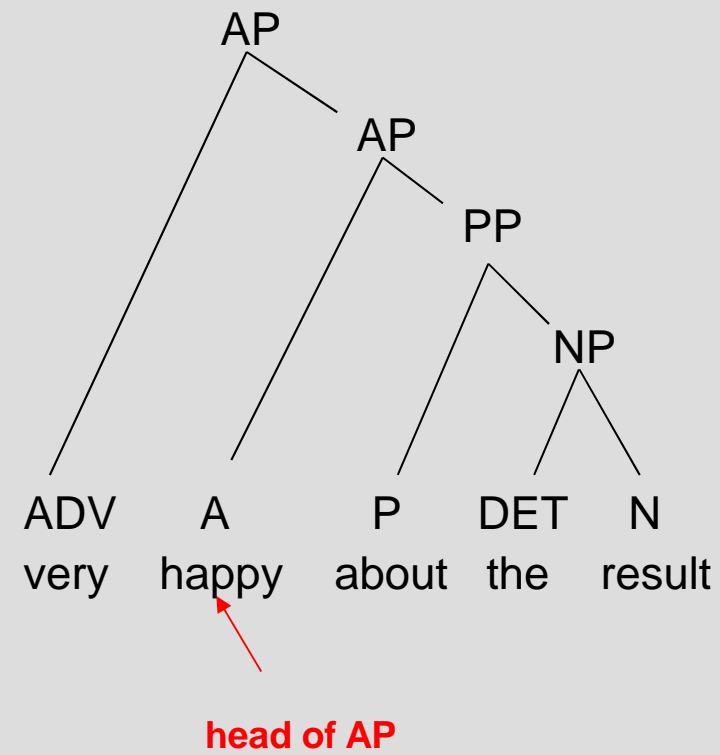
Phrase structure

Phrase structure

NP

PP

AP

VP

VP

   VP

      PP

         NP

            NP

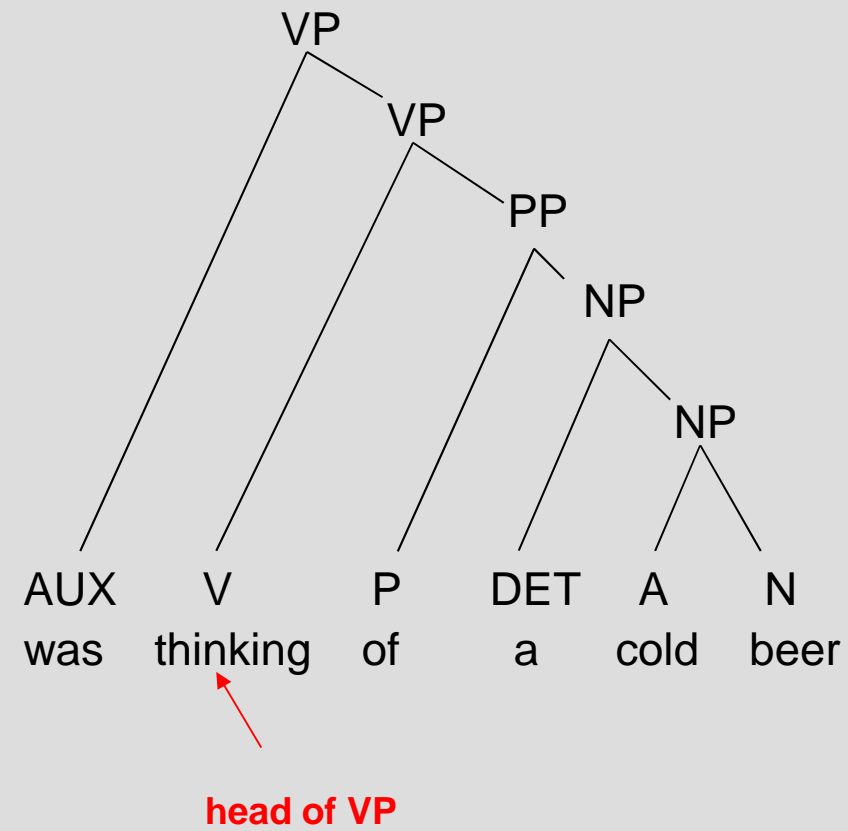| AUX	V	P	DET	A	N
was	thinking	of	a	cold	beer

head of VP

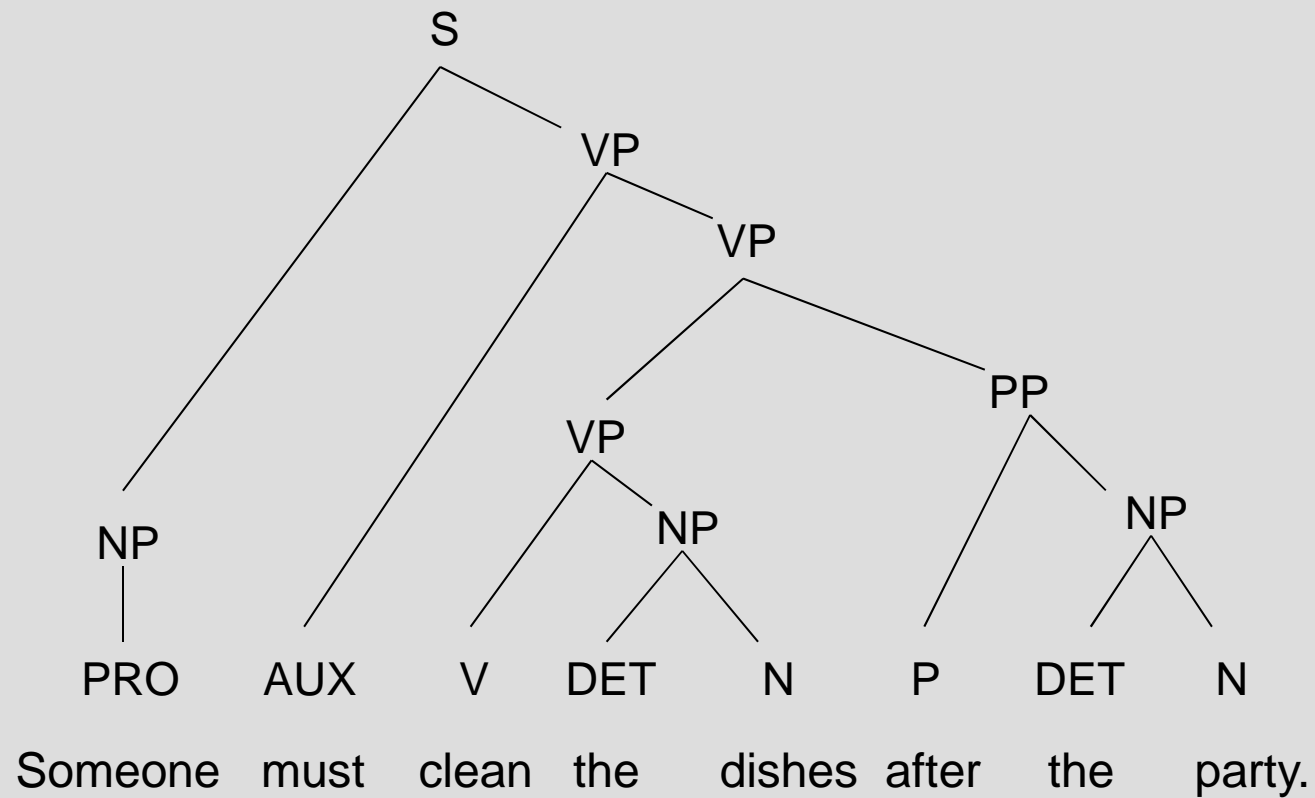# Phrase structure rules

S   →   NP VP

NP   →   (DET) (A) N (PP)

PP   →   P NP

VP   →   V (NP) (PP)
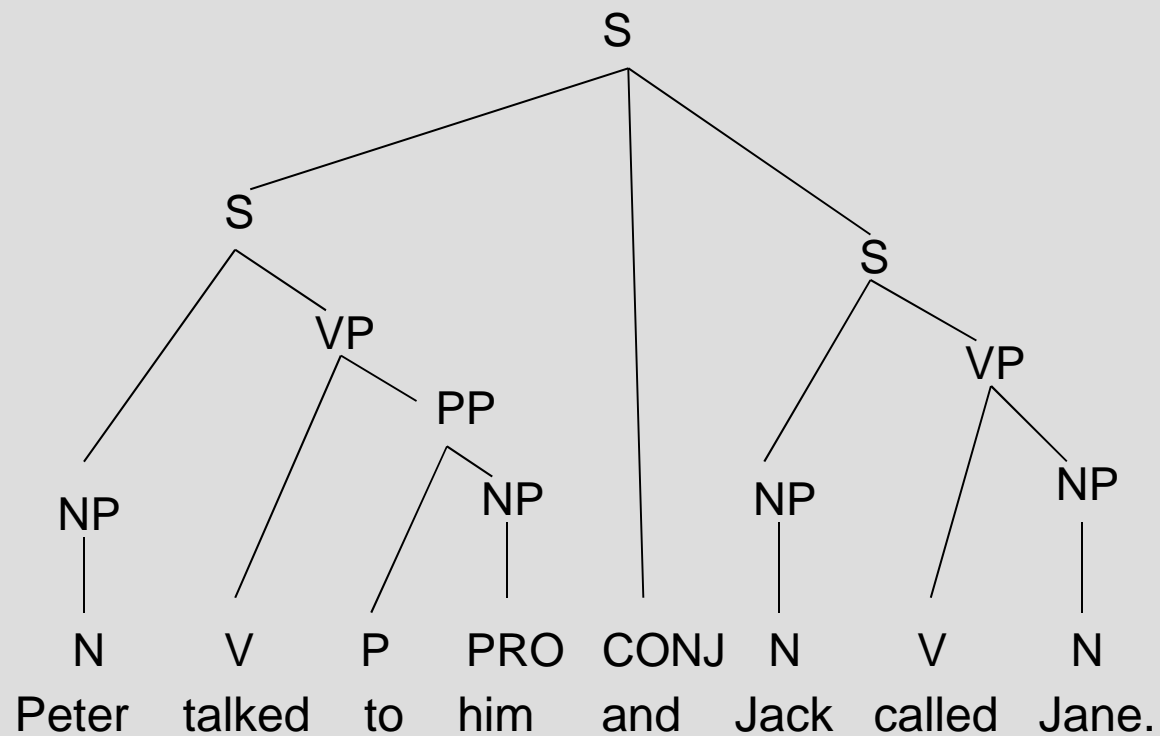
AP   →   (ADV) A

Phrase structure

Draw tree diagrams

    1. Someone must clean the dishes after the party.

    2. Peter talked to him and Jack called Jane.

    3. They helped each other a long time ago.

    4. The boy saw the man with the telescope.

    5. A friend of mine wants to help us.

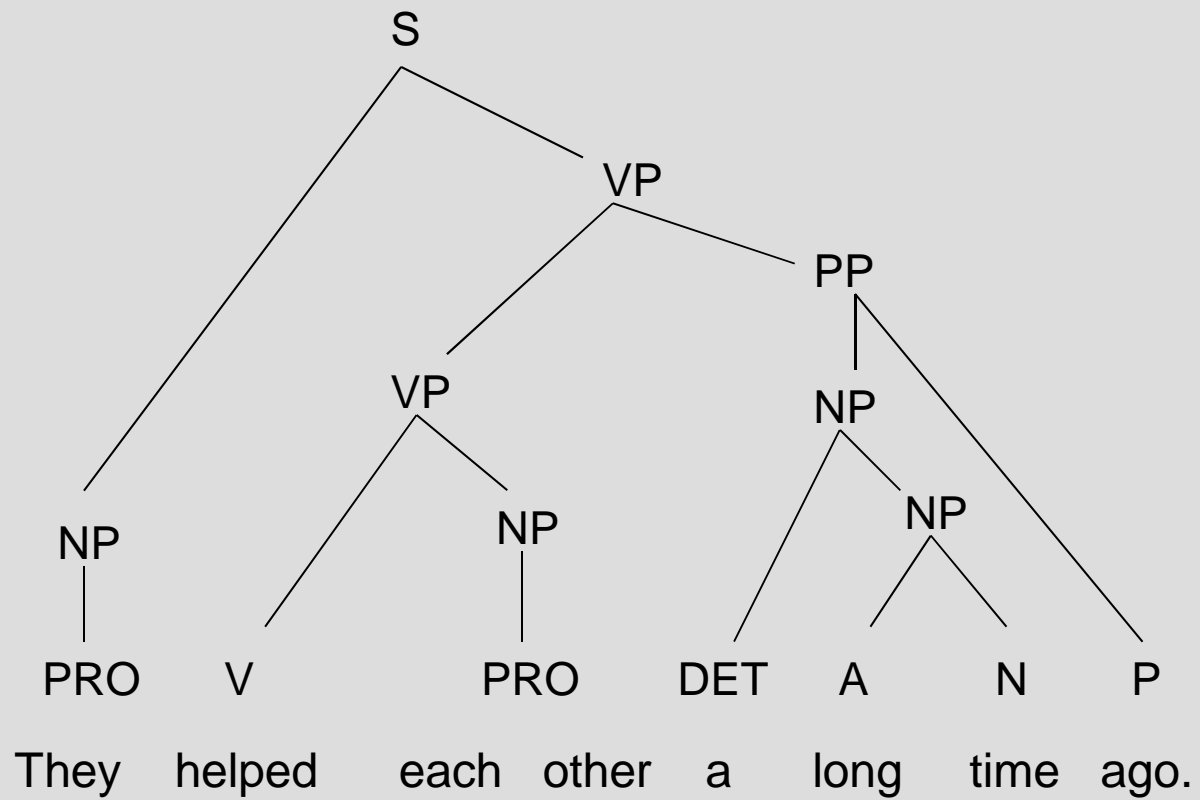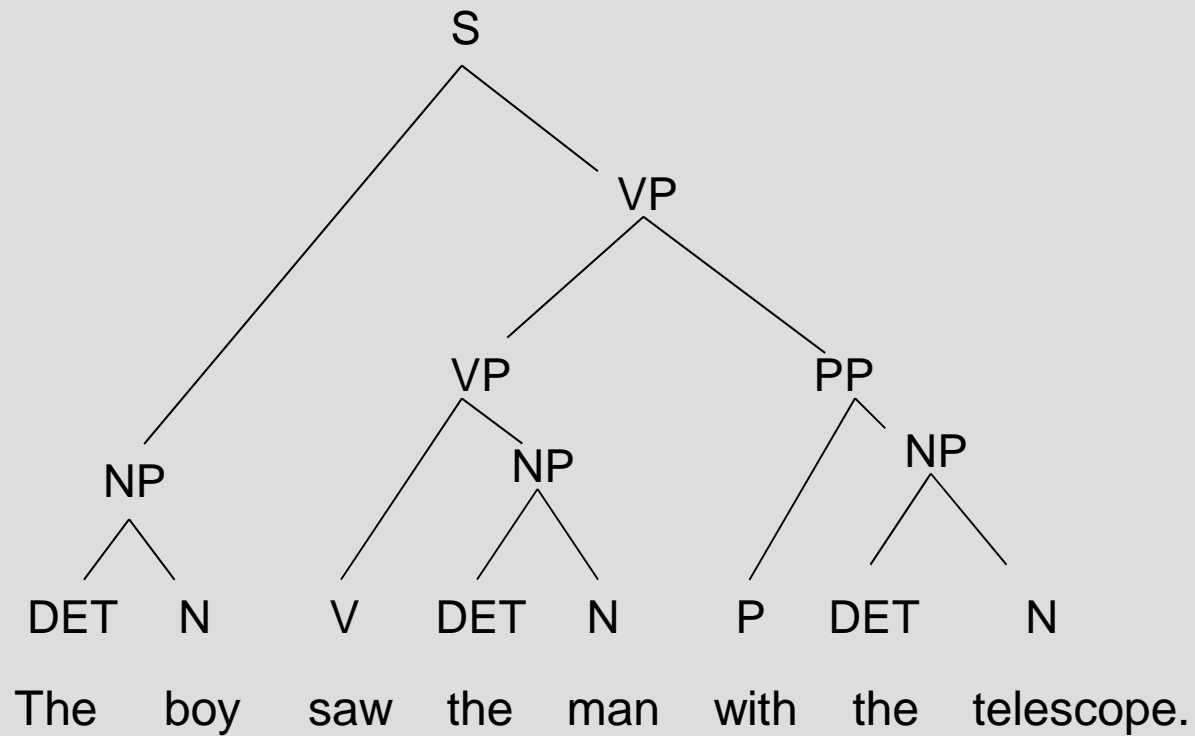   6. I believe that John gave me the ball.
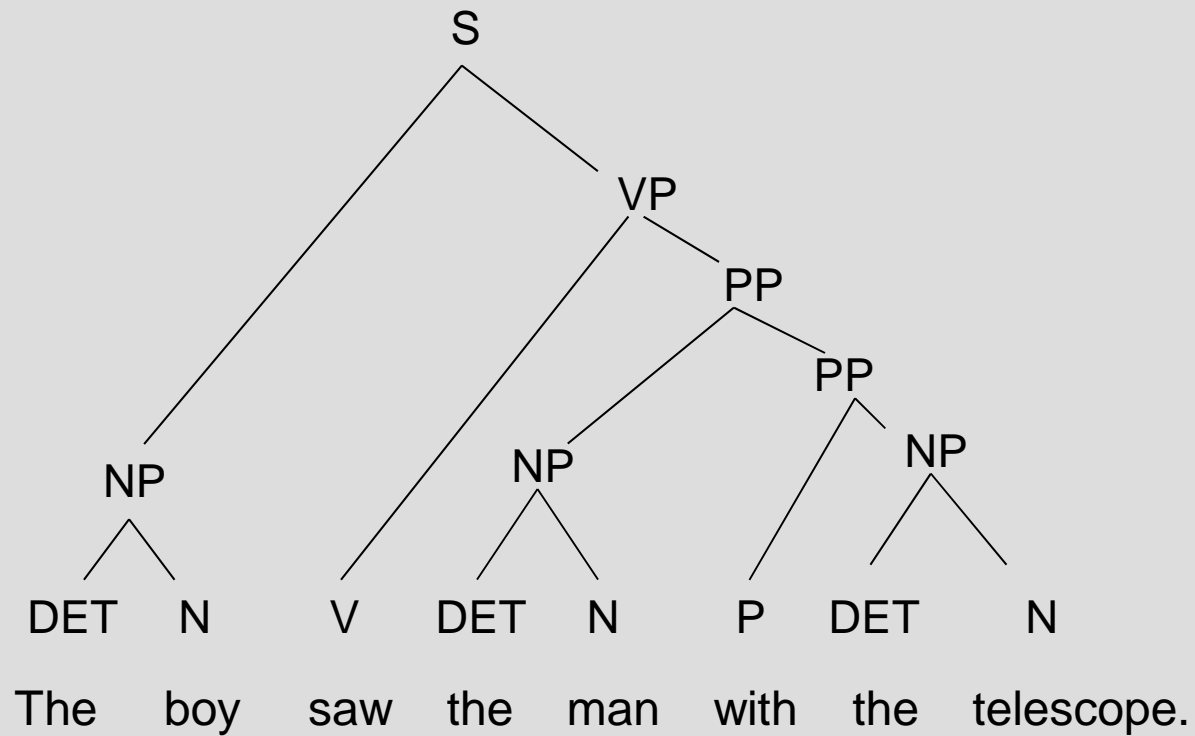
Phrase structure
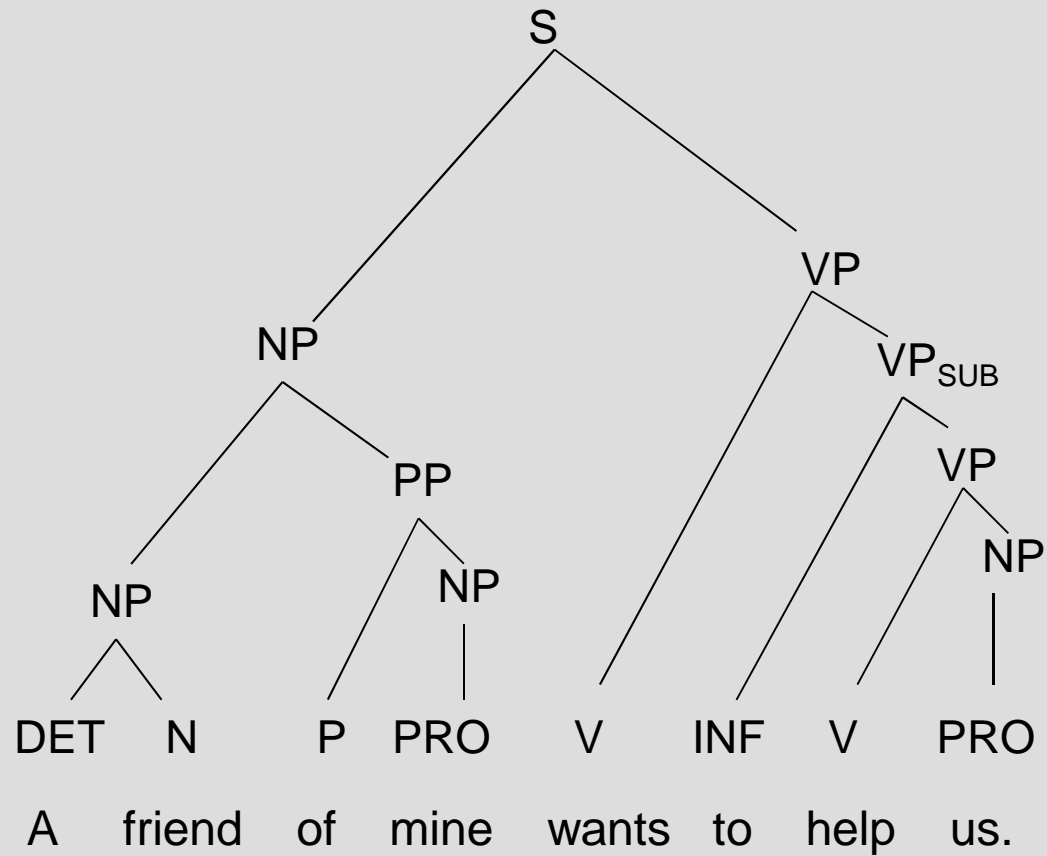
Phrase structure

Phrase structure
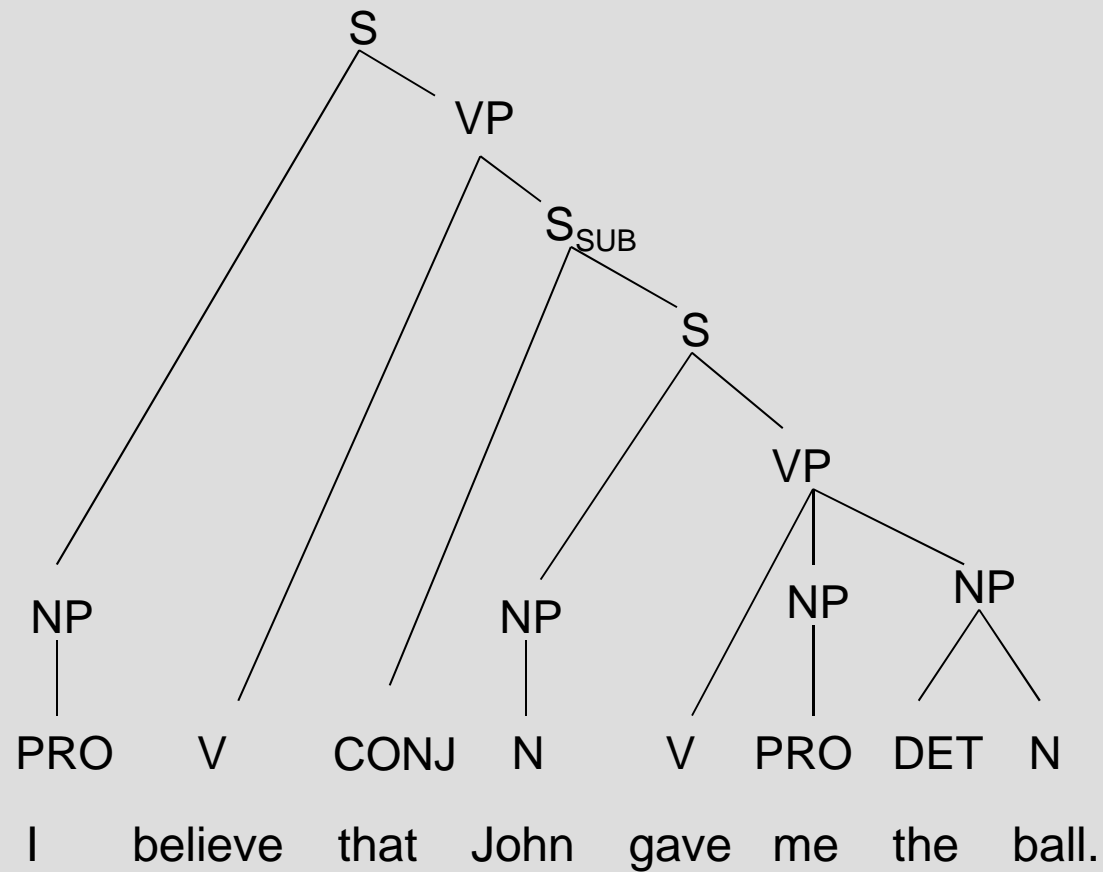
Phrase structure

Phrase structure

Phrase structure

Phrase structure

Phrase structure rules

$$S \rightarrow NP\ VP$$

$$NP \rightarrow (DET)\ (A)\ N\ (PP)$$

$$PP \rightarrow P\ NP$$

$$VP \rightarrow V\ (NP)\ (PP)$$

$$AP \rightarrow (ADV)\ A$$

$$VP \rightarrow X_{SUB}$$

$$VP_{SUB} \rightarrow INF\ VP$$