

## 4.2 Slides

$$(1) \text{ a. } \left[ \begin{array}{l} \textit{phrase} \end{array} \right] \rightarrow \text{H} \left[ \begin{array}{l} \textit{word} \\ \text{VAL} \quad \textit{itr} \end{array} \right]$$

$$\text{b. } \left[ \begin{array}{l} \textit{phrase} \end{array} \right] \rightarrow \text{H} \left[ \begin{array}{l} \textit{word} \\ \text{VAL} \quad \textit{tr} \end{array} \right] \text{ NP}$$

$$\text{c. } \left[ \begin{array}{l} \textit{phrase} \end{array} \right] \rightarrow \text{H} \left[ \begin{array}{l} \textit{word} \\ \text{VAL} \quad \textit{dtr} \end{array} \right] \text{ NP} \quad \text{NP}$$

$$(2) \left[ \begin{array}{l} \textit{phrase} \\ \text{COMPS} \quad \langle \quad \rangle \end{array} \right] \rightarrow \text{H} \left[ \begin{array}{l} \textit{word} \\ \text{COMPS} \quad \langle \boxed{1}, \dots, \boxed{n} \rangle \end{array} \right] \boxed{1} \dots \boxed{n}$$

## (3) a. Head-Complement Rule

$$\left[ \begin{array}{l} \textit{phrase} \\ \text{COMPS} \quad \langle \quad \rangle \end{array} \right] \rightarrow$$

$$\text{H} \left[ \begin{array}{l} \textit{word} \\ \text{HEAD} \quad \textit{verb} \mid \textit{adj} \mid \textit{noun} \\ \text{COMPS} \quad \langle \boxed{1}, \dots, \boxed{n} \rangle \end{array} \right] \boxed{1} \dots \boxed{n}$$

## b. PP rule

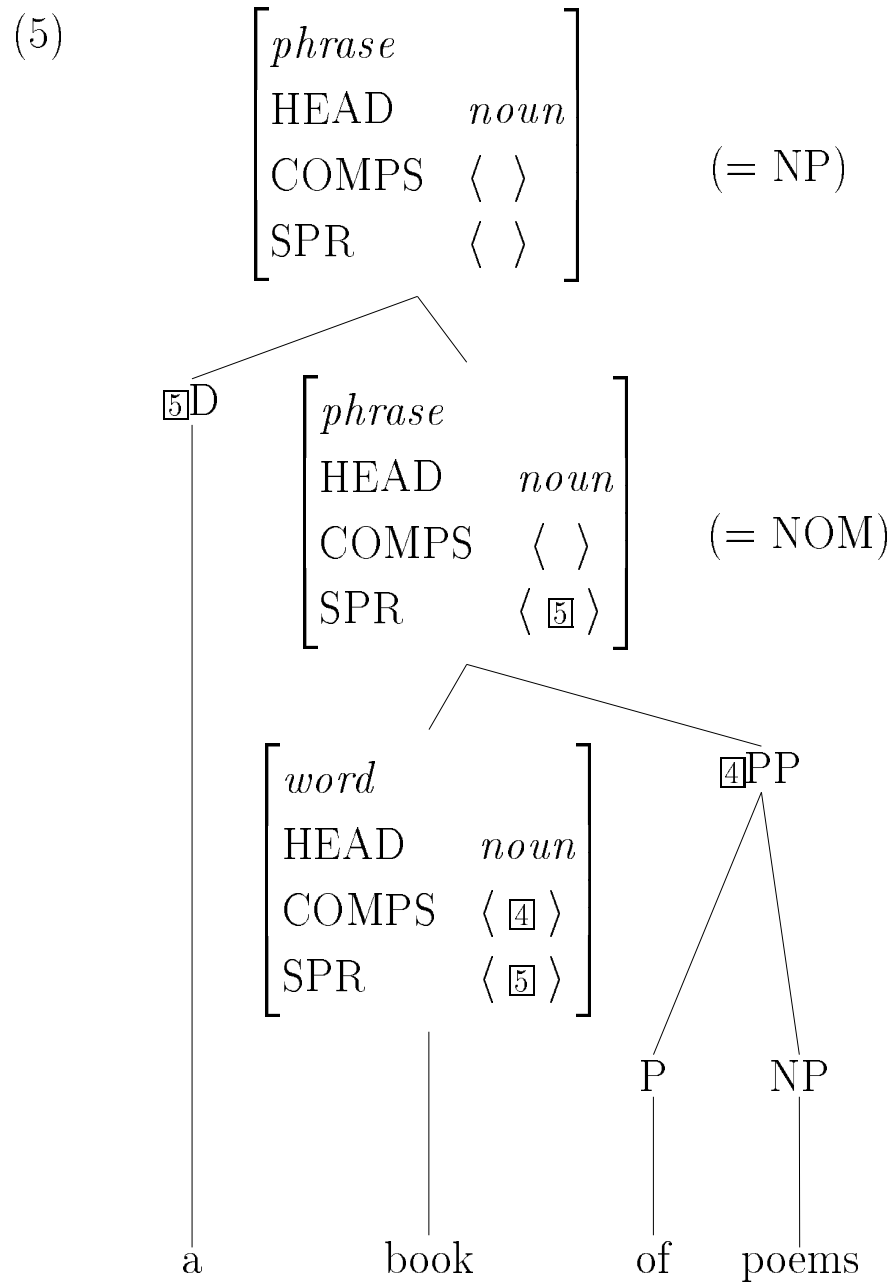
$$\left[ \begin{array}{l} \textit{phrase} \\ \text{COMPS} \quad \langle \quad \rangle \end{array} \right] \rightarrow \boxed{1} \dots \boxed{n} \text{H} \left[ \begin{array}{l} \textit{word} \\ \text{HEAD} \quad \textit{prep} \\ \text{COMPS} \quad \langle \boxed{1}, \dots, \boxed{n} \rangle \end{array} \right]$$

(4) a. Head-Specifier Rule

$$\begin{bmatrix} \textit{phrase} \\ \text{SPR} \quad \langle \ \rangle \end{bmatrix} \rightarrow \boxed{\text{H}} \quad \text{H} \begin{bmatrix} \textit{phrase} \\ \text{SPR} \quad \langle \boxed{\text{H}} \rangle \end{bmatrix}$$

b. Head-Complement Rule

$$\begin{bmatrix} \textit{phrase} \\ \text{COMPS} \quad \langle \ \rangle \end{bmatrix} \rightarrow \text{H} \begin{bmatrix} \textit{word} \\ \text{COMPS} \quad \langle \boxed{\text{H}}, \dots, \boxed{\text{H}} \rangle \end{bmatrix} \boxed{\text{H}} \dots \boxed{\text{H}}$$



## (6) The Valence Principle

Unless the rule says otherwise, the mother's SPR and COMPS values are identical to those of the head daughter.

$$(7) \left[ \text{COMPS} \left\langle \left[ \text{COMPS} \left\langle \left[ \text{COMPS} \dots \right] \right\rangle \right] \right\rangle \right]$$

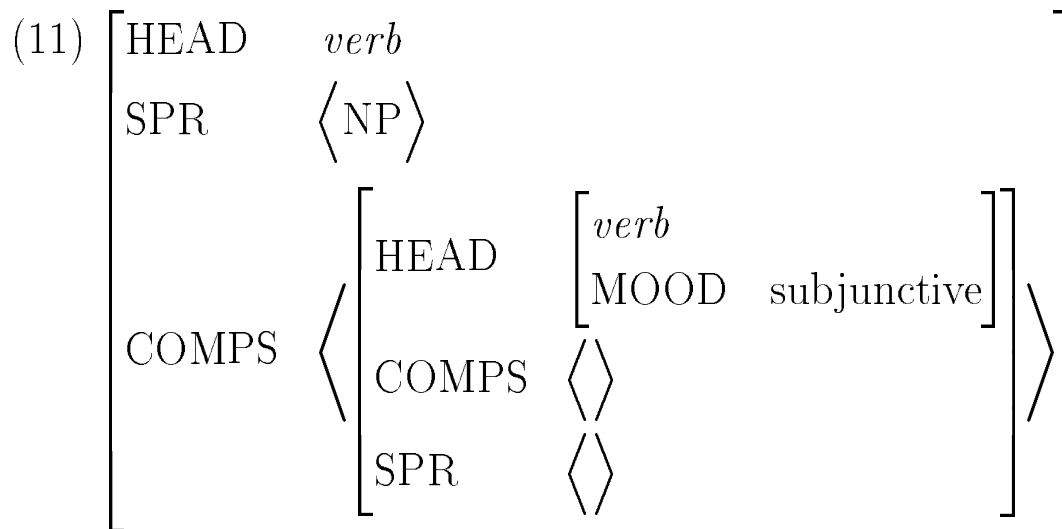
- (8) a. The enemy destroyed the city.  
b. The enemy's destruction of the city

- (9) a. They swim.  
b.\*They swims.  
c. Several cars drove up.  
d.\*A cars drove up.

- (10) a. Kim insists (that) Pat leave.  
 b.\*Kim insists (that) Pat leaves.  
 c.\*Kim knows (that) Pat leave.  
 d. Kim knows that Pat leaves.

Other verbs like *insist*: *suggest, propose, require*

Other verbs like *know*: *believe, say, expect*



(12) a. Pat relied on Chris.  $\nRightarrow$

b. Pat did something to Chris.

(13) a. Pat put the ice cream in the freezer.  $\nRightarrow$

b. Pat did something in the freezer.

(14) a. Pat studied until midnight.  $\Rightarrow$

b. Pat did something until midnight.

(15) a. Pat ate lunch at Pollo Rey.  $\Rightarrow$

b. Pat did something at Pollo Rey.

(16) a. Pat handed a note to Chris.  $\Rightarrow$

b. Pat did something to Chris.

(17) a.\*These fish eats plankton.

b.\*This fish eat plankton.

(18) 
$$\left\langle \text{fish,} \left[ \begin{array}{l} \textit{word} \\ \text{HEAD} \left[ \begin{array}{l} \textit{noun} \\ \text{AGR} \left[ \text{PER} \ 3 \right] \end{array} \right] \\ \text{COMPS} \ \langle \ \rangle \\ \text{SPR} \ \left\langle \left[ \text{HEAD} \left[ \textit{det} \right] \right] \right\rangle \end{array} \right] \right\rangle$$

(19) 
$$\left\langle \text{fish,} \left[ \begin{array}{l} \textit{word} \\ \text{HEAD} \left[ \begin{array}{l} \textit{noun} \\ \text{AGR} \left[ \begin{array}{l} \text{PER} \ 3 \\ \text{NUM} \ \textit{sg} \end{array} \right] \end{array} \right] \\ \text{COMPS} \ \langle \ \rangle \\ \text{SPR} \ \left\langle \left[ \text{HEAD} \left[ \begin{array}{l} \textit{det} \\ \text{AGR} \left[ \text{NUM} \ \textit{pl} \right] \end{array} \right] \right] \right\rangle \end{array} \right] \right\rangle$$

- (20) a. \*These dog barked.  
b. \*Many chair was/were broken.  
c. \*These furniture are broken.

- (21) a. These data are murky.  
b. This data is murky.  
c. These data is murky.

(22) a. vah a:dmi: mo:Ta: hai  
           that man fat is  
           ‘That man is fat.’

b.\*vah a:dmi: mo:Ti: hai/haĩ

c.\*vah a:dmi: mo:Te: hai/haĩ

d.\*vah a:dmi: mo:Ta: haĩ

(23) a. vah aurat mo:Ti: hai  
           that woman fat is  
           ‘That woman is fat.’

b.\*vah a:dmi: mo:Ta: hai/haĩ

c.\*vah a:dmi: mo:Te: hai/haĩ

d.\*vah a:dmi: mo:Ti: haĩ

(24) a. ve a:dmi: mo:Te: haĩ  
           those men fat are  
           ‘Those men are fat.’

b.\*ve a:dmi: mo:Ta: hai/haĩ

c.\*ve a:dmi: mo:Ti: hai/haĩ

d.\*ve a:dmi: mo:Te: hai

- (25) a. ve aurtẽ mo:Ti: haĩ  
those women fat are  
'Those women are fat.'
- b.\*ve a:dmi: mo:Ta: hai/haĩ
- c.\*ve a:dmi: mo:Ti: hai/haĩ
- d.\*ve a:dmi: mo:Te: hai

$$(26) \left[ \begin{array}{l} \textit{phrase} \\ \text{COMPS} \langle \rangle \end{array} \right] \rightarrow \boxed{1} \dots \boxed{n} \text{H} \left[ \begin{array}{l} \textit{word} \\ \text{COMPS} \langle \boxed{1}, \dots, \boxed{n} \rangle \end{array} \right]$$