

Ling 566
Dec 6, 2007

Sign-Based Construction Grammar

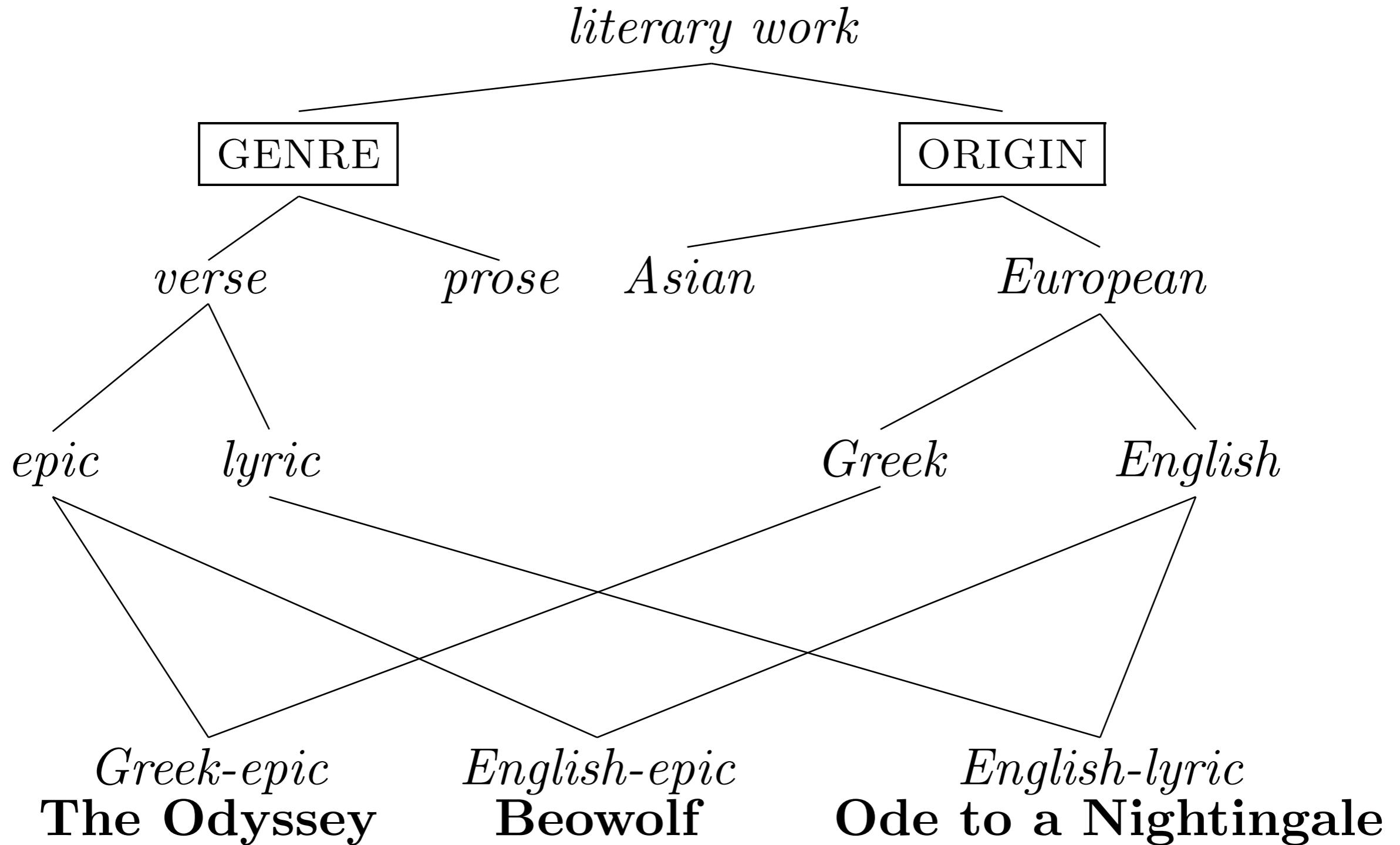
Overview

Final exam posted

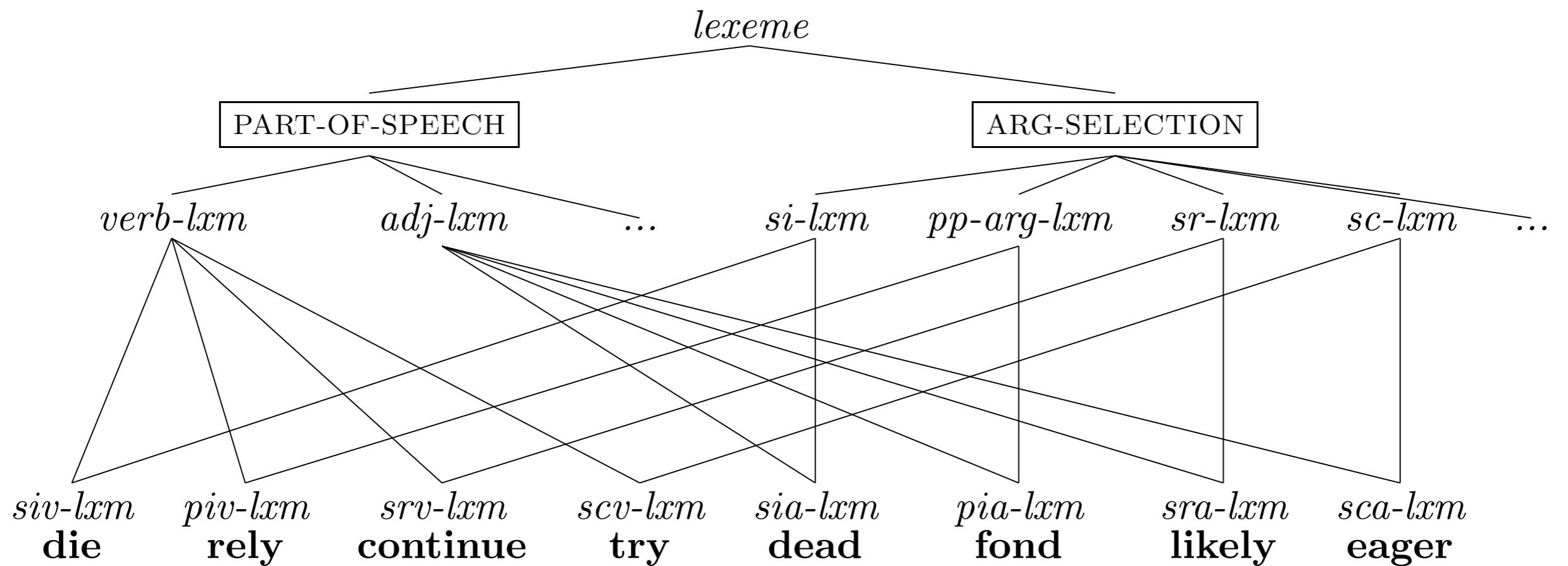
Overview of Differences

- Multiple Inheritance
- Signs
- Grammar rules form a hierarchy.
- Every tree node has its own phonology
- Many principles become constraints on grammar rules.
- The definition of well-formedness is simplified

Multiple Inheritance Hierarchies



Lexeme Hierarchy

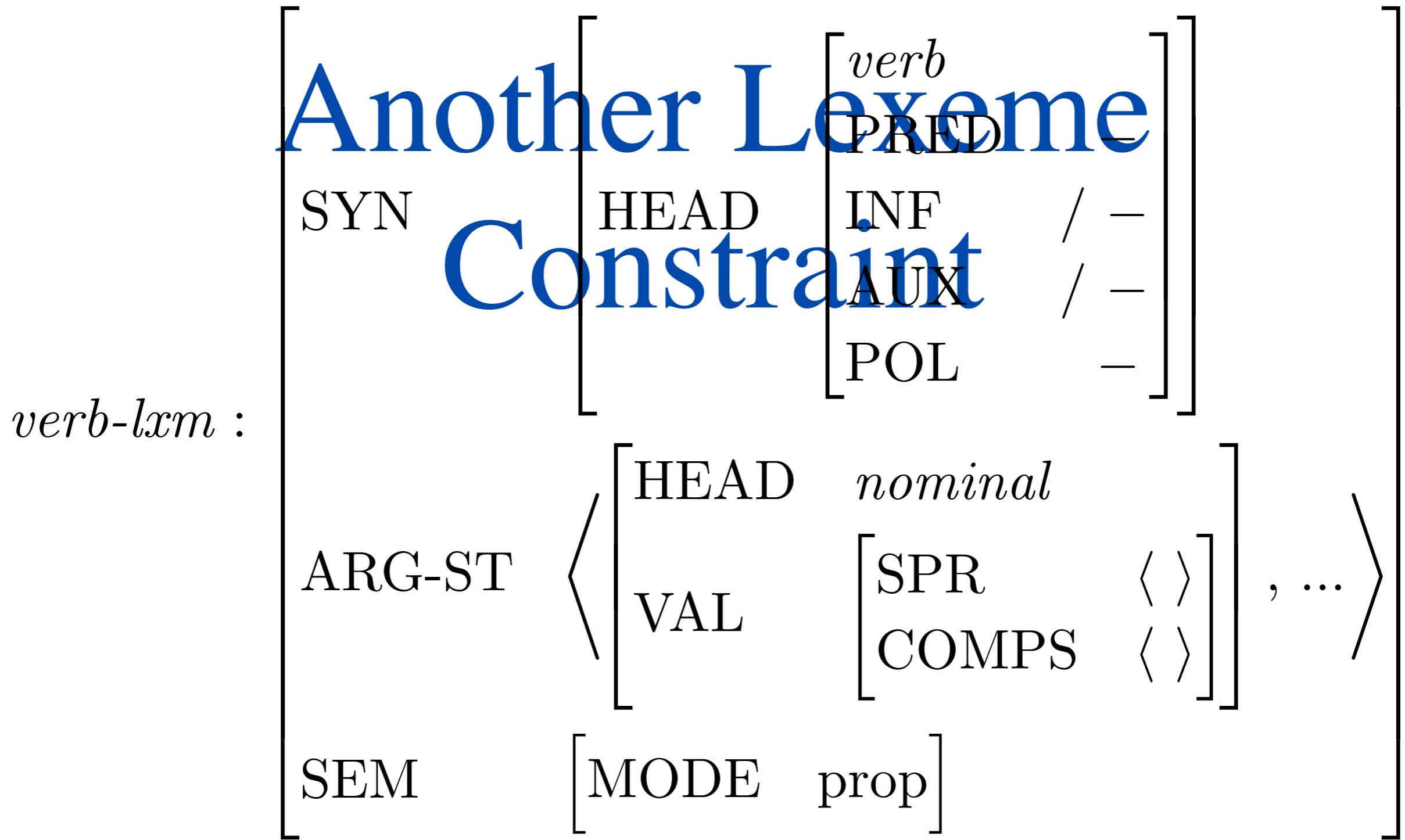


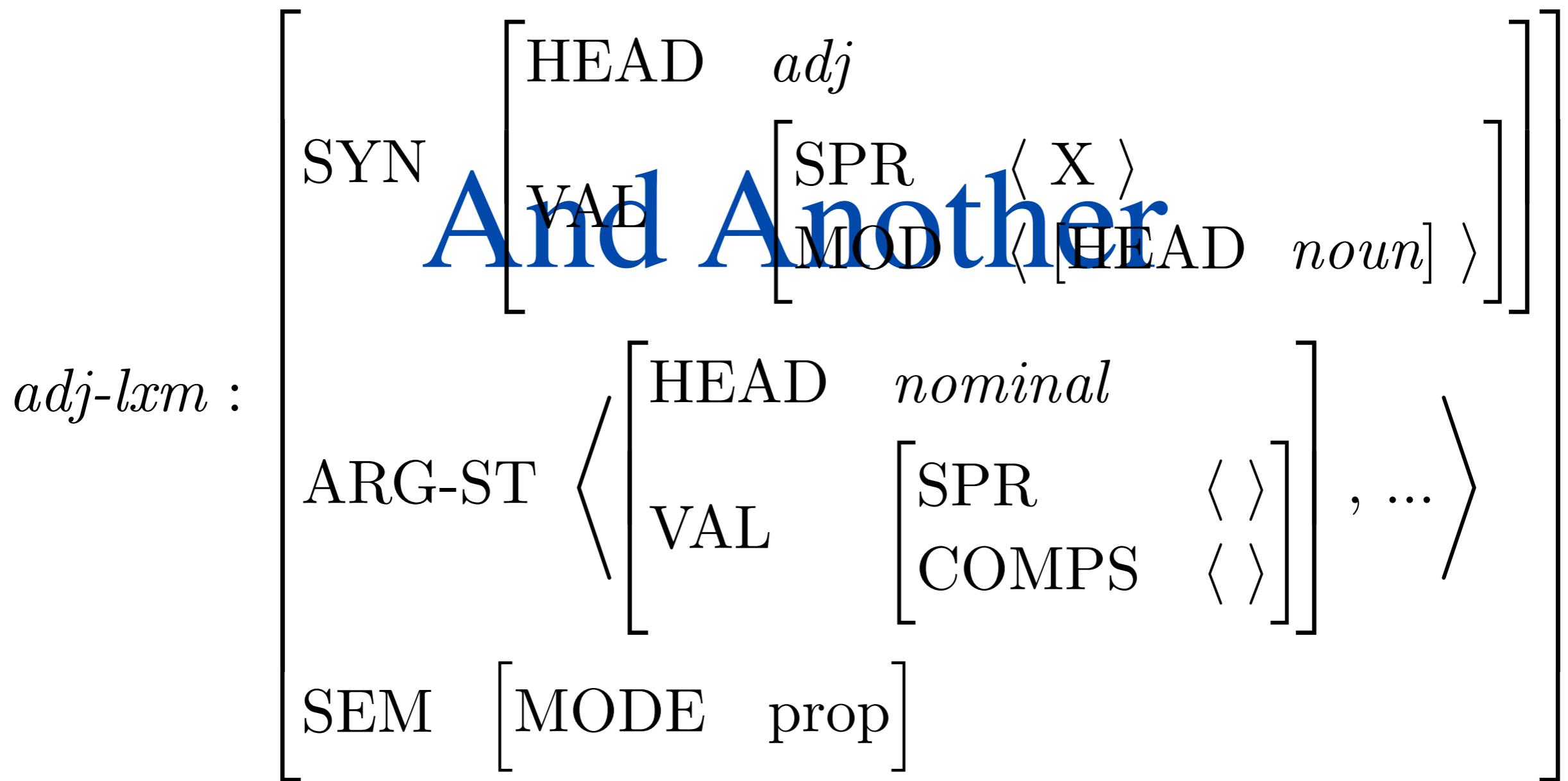
Lexeme Abbreviations

- *si-lxm* : *strict-intransitive-lexeme*
- *pp-arg-lxm* : *PP-argument-lexeme*
- *sr-lxm* : *subject-raising-lexeme*
- *sc-lxm* : *subject-control-lexeme*
- *siv-lxm* : *strict-intransitive-verb-lexeme*
- *piv-lxm* : *PP-intransitive-verb-lexeme*
- *srv-lxm* : *subject-raising-verb-lexeme*
- *scv-lxm* : *subject-control-verb-lexeme*
- *sia-lxm* : *strict-intransitive-adjective-lexeme*
- *pia-lxm* : *PP-intransitive-adjective-lexeme*
- *sra-lxm* : *subject-raising-adjective-lexeme*
- *sca-lxm* : *subject-control-adjective-lexeme*

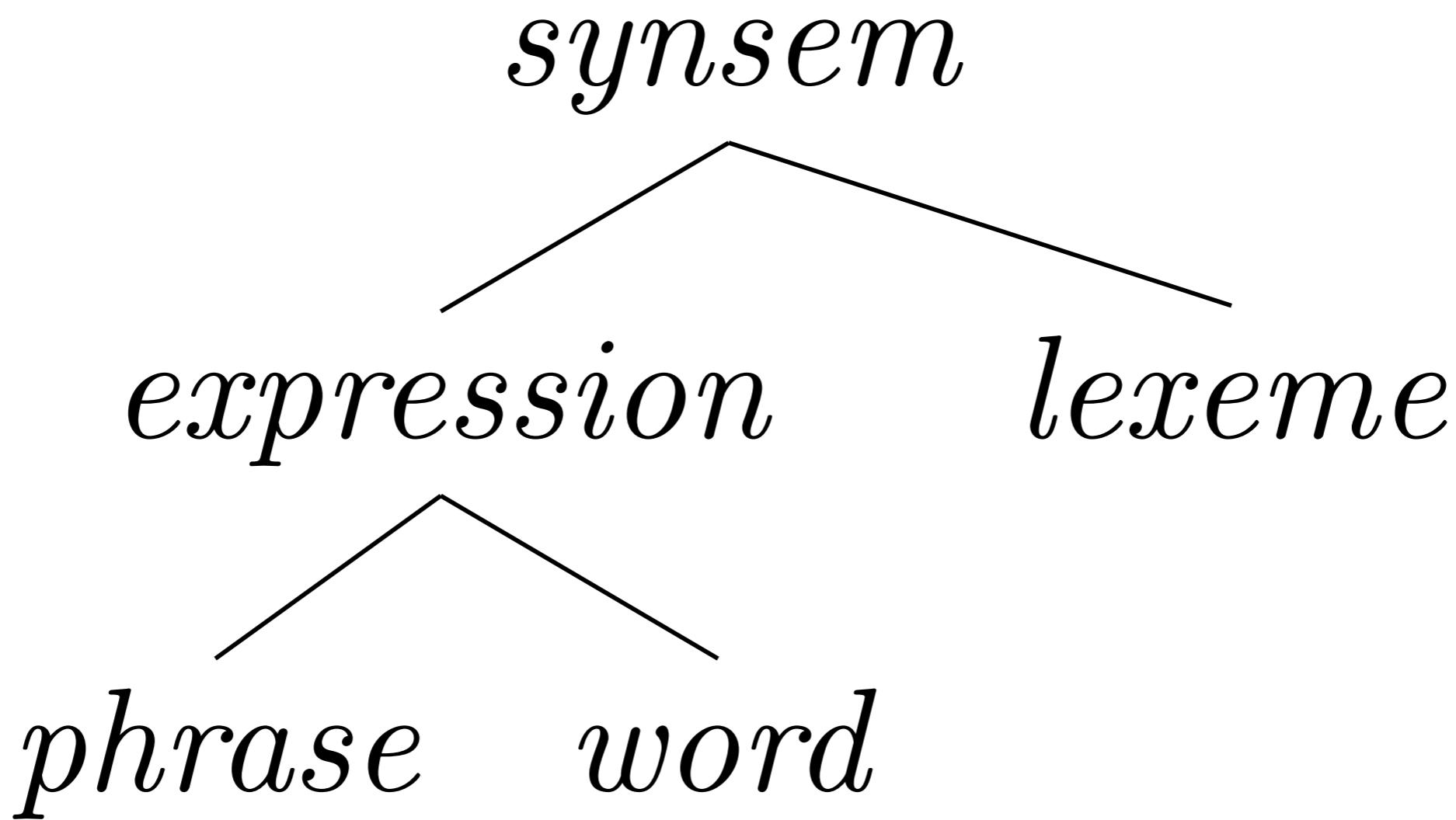
Lexeme Constraints

- $si-lxm : \left[\text{ARG-ST} \quad \langle X \rangle \right]$
- $pp-arg-lxm : \left[\text{ARG-ST} \quad \langle X, \text{PP} \rangle \right]$
- $sr-lxm : \left[\text{ARG-ST} \quad \left\langle \boxed{1}, \left[\text{SPR} \quad \langle \boxed{1} \rangle \right] \right\rangle \right]$
- $sc-lxm : \left[\text{ARG-ST} \quad \left\langle \text{NP}_i, \left[\text{SPR} \quad \langle \text{NP}_i \rangle \right] \right\rangle \right]$

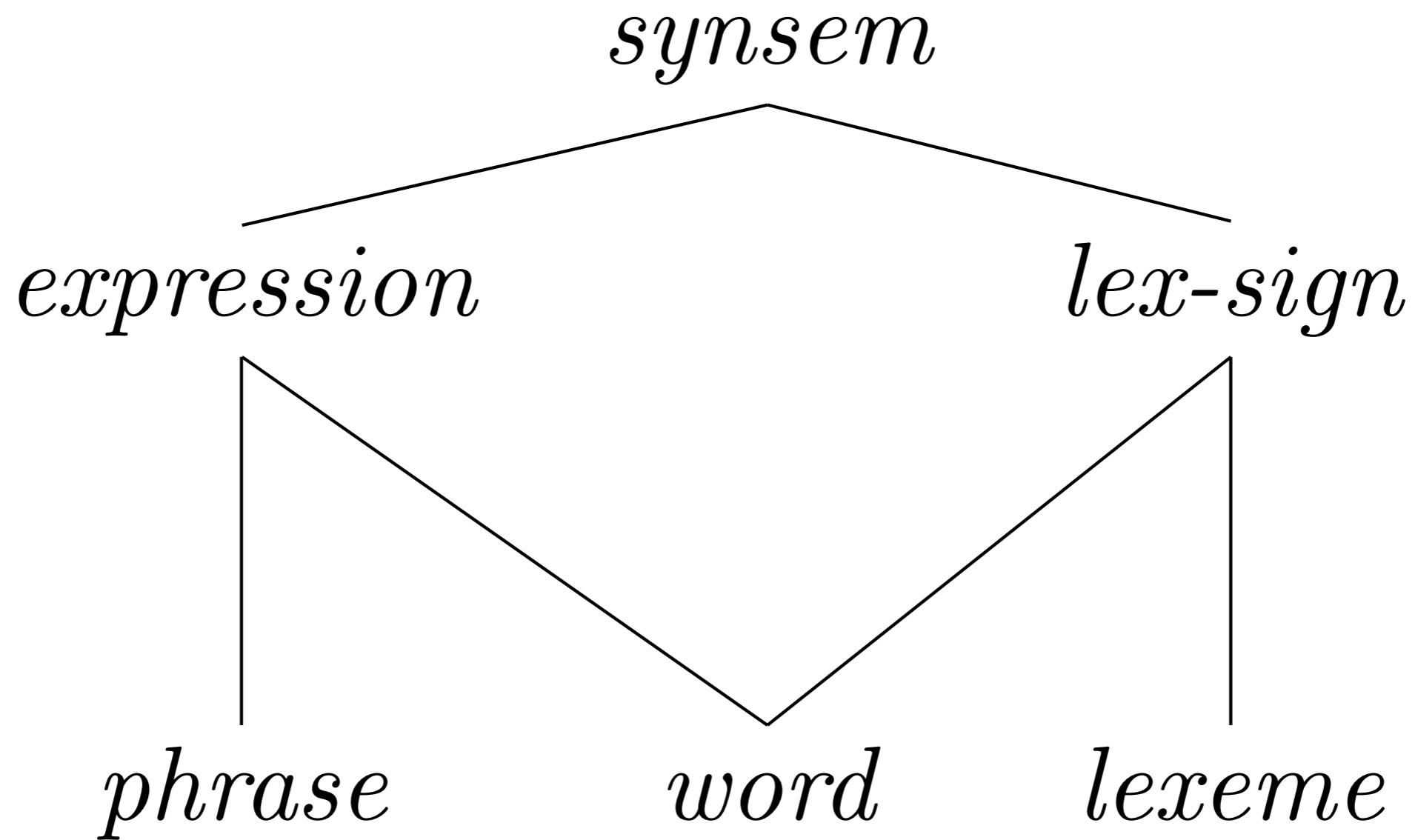




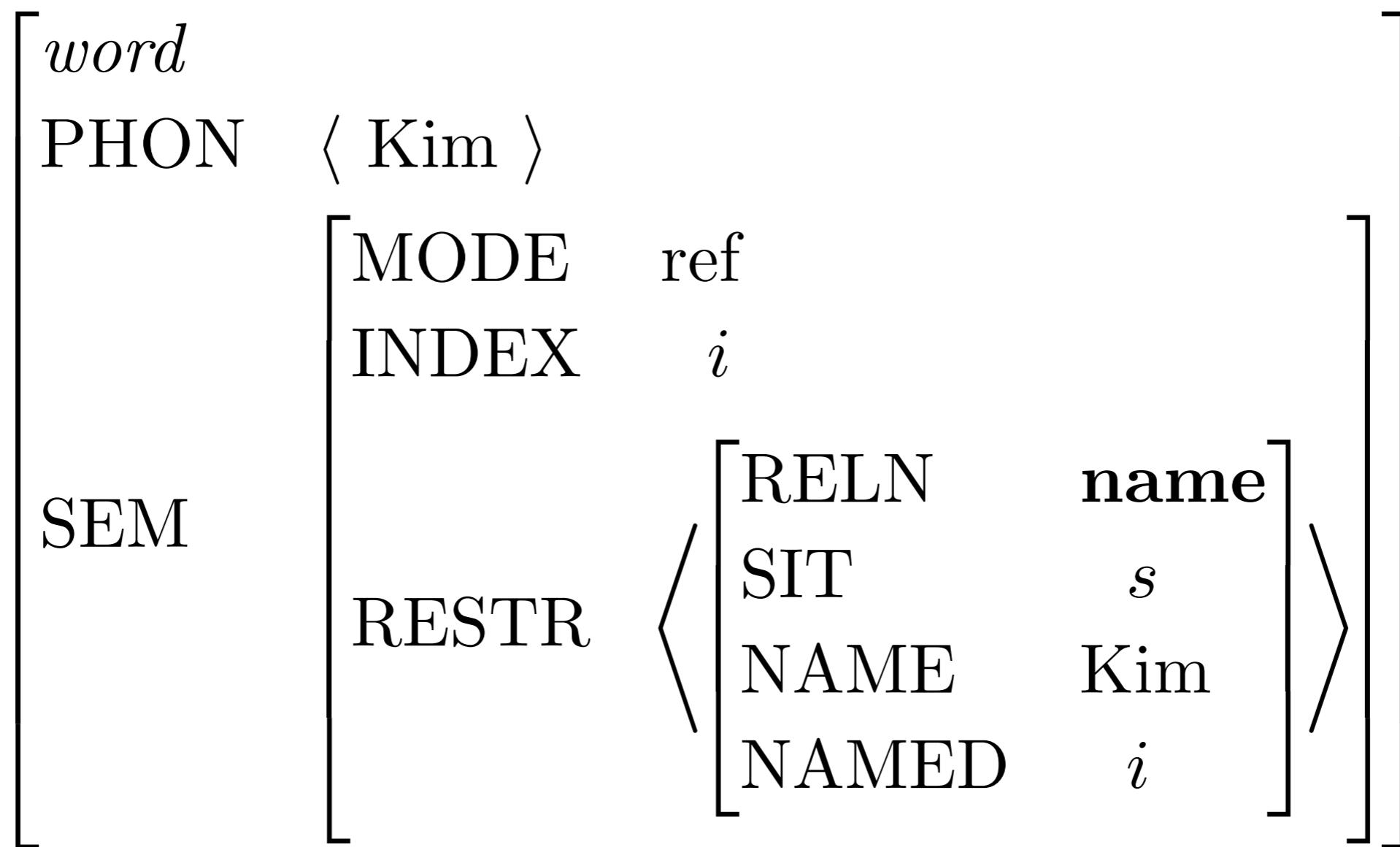
Synsem Types



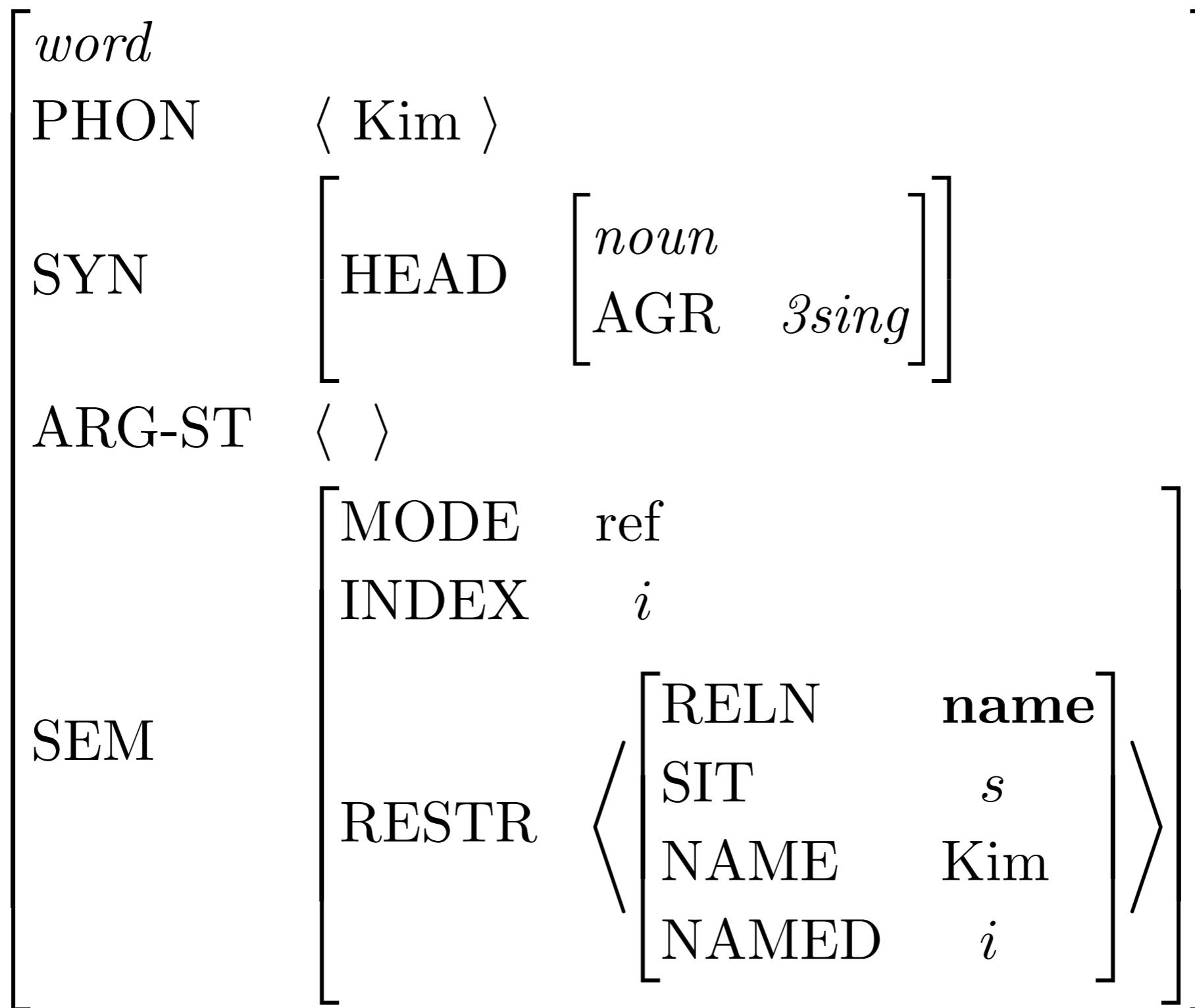
Give ARG-ST a Unique Home



Words and Phrases as Saussurean Signs



Augmented Signs



Phrases as Signs

<i>phrase</i>	
PHON	$\langle \text{Kim} , \text{walks} \rangle$
SYN	$\begin{bmatrix} \text{HEAD} & \begin{bmatrix} \textit{verb} \\ \text{FORM} & \text{fin} \end{bmatrix} \\ \text{SPR} & \langle \rangle \\ \text{COMPS} & \langle \rangle \end{bmatrix}$
SEM	$\begin{bmatrix} \text{MODE} & \text{prop} \\ \text{INDEX} & s \\ \text{RESTR} & \left\langle \begin{bmatrix} \text{RELN} & \text{name} \\ \text{NAME} & \text{Kim} \\ \text{NAMED} & i \end{bmatrix} , \begin{bmatrix} \text{RELN} & \text{walk} \\ \text{SIT} & s \\ \text{WALKER} & i \end{bmatrix} , \dots \right\rangle \end{bmatrix}$

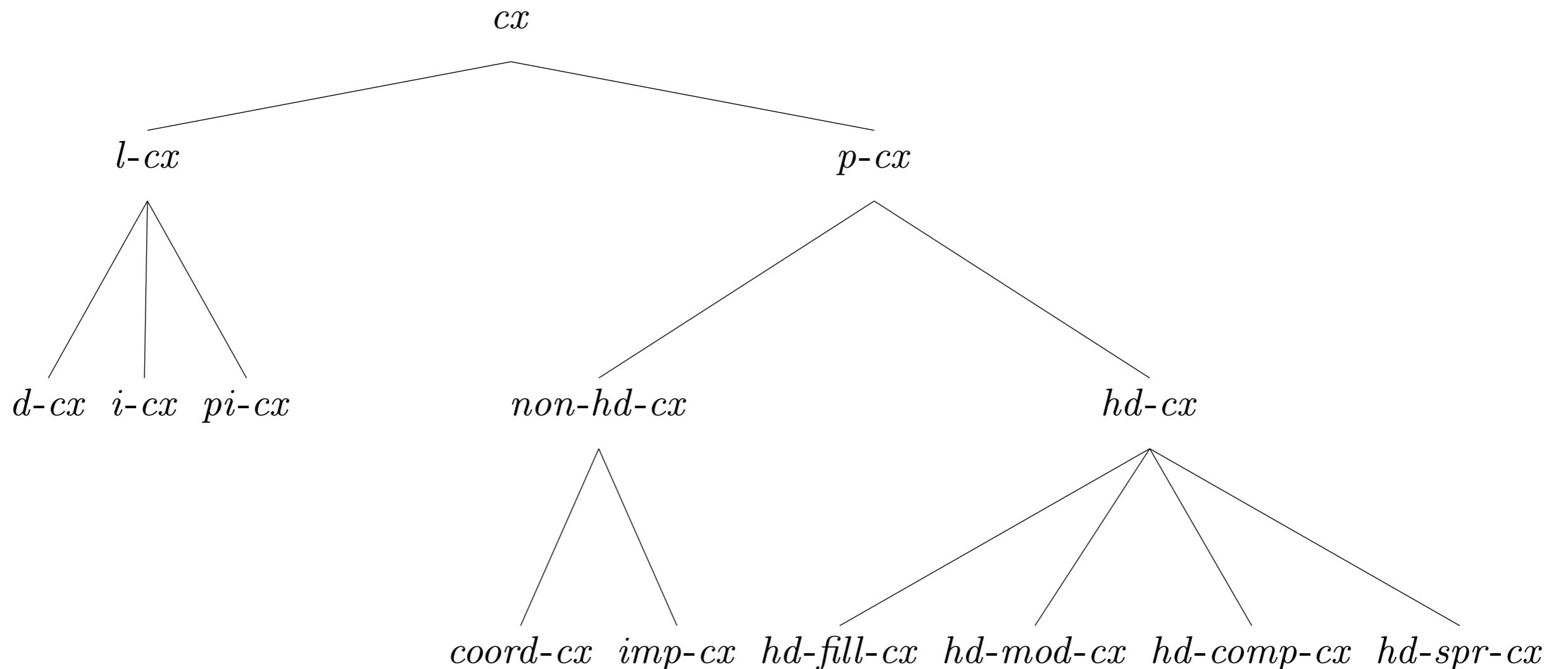
Types and Constraints

TYPE	FEATURES/VALUE TYPES	IST
<i>sign</i>	$\begin{bmatrix} \text{PHON} & \textit{list(form)} \\ \text{SYN} & \textit{syn-cat} \\ \text{SEM} & \textit{sem-cat} \end{bmatrix}$	<i>feat-struc</i>
<i>expression</i>		<i>sign</i>
<i>lex-sign</i>	[ARG-ST <i>list(expression)</i>]	<i>sign</i>
<i>phrase</i>		<i>expression</i>
<i>word</i>		<i>expression & lex-sign</i>
<i>lexeme</i>		<i>lex-sign</i>

Constructions: Some Abbreviations

<i>cx</i>	<i>construction</i>
<i>l-cx</i>	<i>lexical-construction</i>
<i>d-cx</i>	<i>derivational-construction</i>
<i>i-cx</i>	<i>inflectional-construction</i>
<i>pi-cx</i>	<i>postinflectional-construction</i>
<i>p-cx</i>	<i>phrasal-construction</i>
<i>non-hd-cx</i>	<i>non-headed-construction</i>
<i>hd-cx</i>	<i>headed-construction</i>
<i>coord-cx</i>	<i>coordinate-construction</i>
<i>imp-cx</i>	<i>imperative-construction</i>
<i>hd-fill-cx</i>	<i>head-filler-construction</i>
<i>hd-comp-cx</i>	<i>head-complement-construction</i>
<i>hd-spr-cx</i>	<i>head-specifier-construction</i>
<i>hd-mod-cx</i>	<i>head-modifier-construction</i>

The World of Constructors



Properties of Constructions

TYPE	FEATURES/VALUE TYPES	IST
cx	$\begin{bmatrix} \text{MOTHER} & sign \\ \text{DTRS} & list(sign) \end{bmatrix}$	$feat\text{-}struc$
$l\text{-}cx$	$\begin{bmatrix} \text{MOTHER} & lex\text{-}sign \\ \text{DTRS} & \langle lex\text{-}sign \rangle \end{bmatrix}$	cx
$p\text{-}cx$	$\begin{bmatrix} \text{MOTHER} & phrase \\ \text{DTRS} & list(expression) \end{bmatrix}$	cx

Well-Formed Tree Structure

Φ is a Well-Formed Structure according to a grammar G if and only if

1. there is some construction C in G, such that
2. there is a feature structure I that is an instantiation of C, such that Φ is the value of the MOTHER feature of I.

A Well-Formed Feature Structure

The grammar licenses a feature structure of type *phrase* whose PHON value is $\langle \text{ate} , a , \text{pizza} \rangle$ because there is a feature structure instantiating the head-complement construction that has that feature structure as its MOTHER value. This phrasal construct satisfies the following description:

<i>phrase</i>															
PHON	$\langle \text{ate} , a , \text{pizza} \rangle$														
SYN	<table border="1"><tr><td>HEAD</td><td><i>verb</i></td></tr><tr><td></td><td>FORM fin</td></tr><tr><td>VAL</td><td><table border="1"><tr><td>SPR</td><td>$\langle \text{NP} \rangle$</td></tr><tr><td>COMPS</td><td>$\langle \rangle$</td></tr><tr><td>MOD</td><td>$\langle \rangle$</td></tr></table></td></tr><tr><td>GAP</td><td>$\langle \rangle$</td></tr></table>	HEAD	<i>verb</i>		FORM fin	VAL	<table border="1"><tr><td>SPR</td><td>$\langle \text{NP} \rangle$</td></tr><tr><td>COMPS</td><td>$\langle \rangle$</td></tr><tr><td>MOD</td><td>$\langle \rangle$</td></tr></table>	SPR	$\langle \text{NP} \rangle$	COMPS	$\langle \rangle$	MOD	$\langle \rangle$	GAP	$\langle \rangle$
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SEM	<table border="1"><tr><td>MODE</td><td>prop</td></tr><tr><td>INDEX</td><td><i>s</i></td></tr><tr><td>RESTR</td><td>$\left\langle \begin{bmatrix} \text{RELN} & \text{eat} \\ \text{SIT} & s \\ \text{EATER} & i \\ \text{EATEN} & j \end{bmatrix}, \begin{bmatrix} \text{RELN} & \text{a} \\ \text{BV} & j \end{bmatrix}, \begin{bmatrix} \text{RELN} & \text{pizza} \\ \text{INST} & j \end{bmatrix}, \right\rangle$</td></tr></table>	MODE	prop	INDEX	<i>s</i>	RESTR	$\left\langle \begin{bmatrix} \text{RELN} & \text{eat} \\ \text{SIT} & s \\ \text{EATER} & i \\ \text{EATEN} & j \end{bmatrix}, \begin{bmatrix} \text{RELN} & \text{a} \\ \text{BV} & j \end{bmatrix}, \begin{bmatrix} \text{RELN} & \text{pizza} \\ \text{INST} & j \end{bmatrix}, \right\rangle$								
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Another Well-Formed Feature Structure

<i>lexeme</i>	
PHON	$\langle \text{driver} \rangle$
SYN	$\begin{bmatrix} \text{HEAD} & \begin{bmatrix} \textit{noun} \\ \text{AGR} [\text{PER } 3\text{rd}] \end{bmatrix} \\ \text{VAL} & \begin{bmatrix} \text{SPR} & \langle \text{DP} \rangle \\ \text{COMPS} & \langle \rangle \\ \text{MOD} & \langle \rangle \end{bmatrix} \\ \text{GAP} & \langle \rangle \end{bmatrix}$
SEM	$\begin{bmatrix} \text{MODE} & \text{ref} \\ \text{INDEX} & i \\ \text{RESTR} & \left\langle \begin{bmatrix} \text{RELN} & \text{drive} \\ \text{SIT} & s \\ \text{DRIVER} & i \end{bmatrix} \right\rangle \end{bmatrix}$

Two Constraints

Root Constraint:

SYN	HEAD	$\begin{bmatrix} \textit{verb} \\ \text{FORM} & \text{fin} \end{bmatrix}$
	VAL	$\begin{bmatrix} \text{COMPS} & \langle \rangle \\ \text{SPR} & \langle \rangle \end{bmatrix}$
	GAP	$\langle \rangle$

Principle of Order:

$cx :$	MOTHER	$[\text{PHON } \boxed{A_1} \oplus \dots \oplus \boxed{A_n}]$
	DTRS	$\langle [\text{PHON } \boxed{A_1}], \dots, [\text{PHON } \boxed{A_n}] \rangle$

Semantic Compositionality Principle

$cx :$ $\begin{bmatrix} \text{MOTHER} & [\text{SEM } [\text{RESTR } \boxed{A_1} \oplus \dots \oplus \boxed{A_n}]] \\ \text{DTRS} & \langle [\text{SEM } [\text{RESTR } \boxed{A_1}]] , \dots , [\text{SEM } [\text{RESTR } \boxed{A_n}]] \rangle \end{bmatrix}$

Alternative Version:

$cx :$ $\begin{bmatrix} \text{MOTHER} & [\text{SEM } [\text{RESTR } \boxed{A_0} \oplus \boxed{A_1} \oplus \dots \oplus \boxed{A_n}]] \\ \text{DTRS} & \langle [\text{SEM } [\text{RESTR } \boxed{A_1}]] , \dots , [\text{SEM } [\text{RESTR } \boxed{A_n}]] \rangle \\ \text{CX-SEM} & \boxed{A_0} \end{bmatrix}$

Head Constructions

Phrasal Constructions of Our Grammar:

TYPE	FEATURES/VALUE TYPES	IST
$hd\text{-}cx$	[HD-DTR $sign$]	cx

Head Feature Principle:

$$hd\text{-}cx : \begin{bmatrix} \text{MOTHER} & [\text{SYN } [\text{HEAD } \boxed{1}]] \\ \text{HD-DTR} & [\text{SYN } [\text{HEAD } \boxed{1}]] \end{bmatrix}$$

Two More Principles

Semantic Inheritance Principle:

$$hd-cx : \begin{bmatrix} \text{MOTHER} & \left[\begin{array}{c} \text{SEM} \\ \text{HD-DTR} \end{array} \right] \begin{bmatrix} \text{MODE} & \boxed{1} \\ \text{INDEX} & \boxed{2} \end{bmatrix} \\ \text{SEM} & \begin{bmatrix} \text{MODE} & \boxed{1} \\ \text{INDEX} & \boxed{2} \end{bmatrix} \end{bmatrix}$$

Valence Principle:

$$hd-cx : \begin{bmatrix} \text{MOTHER} & [\text{SYN } [\text{VAL } / \boxed{1}]] \\ \text{HD-DTR} & [\text{SYN } [\text{VAL } / \boxed{1}]] \end{bmatrix}$$

The GAP Principle

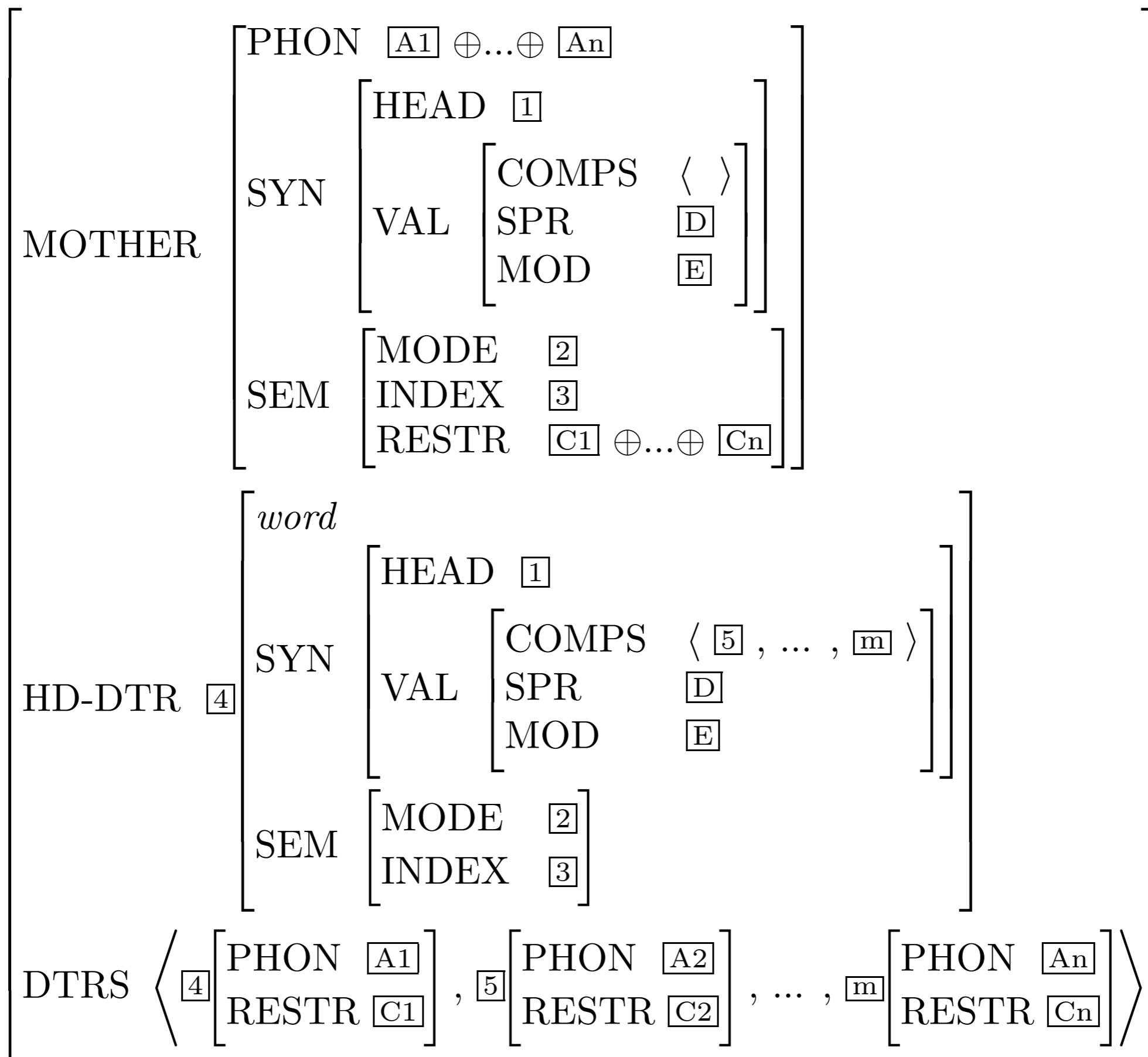
hd-cx:

MOTHER	[SYN [GAP ($\boxed{A_1} \oplus \dots \oplus \boxed{A_n}$) \ominus $\boxed{A_0}$]]
HD-DTR	[SYN [STOP-GAP $\boxed{A_0}$]]
DTRS	\langle [SYN [GAP $\boxed{A_1}$]] , ... , [SYN [GAP $\boxed{A_n}$]] \rangle

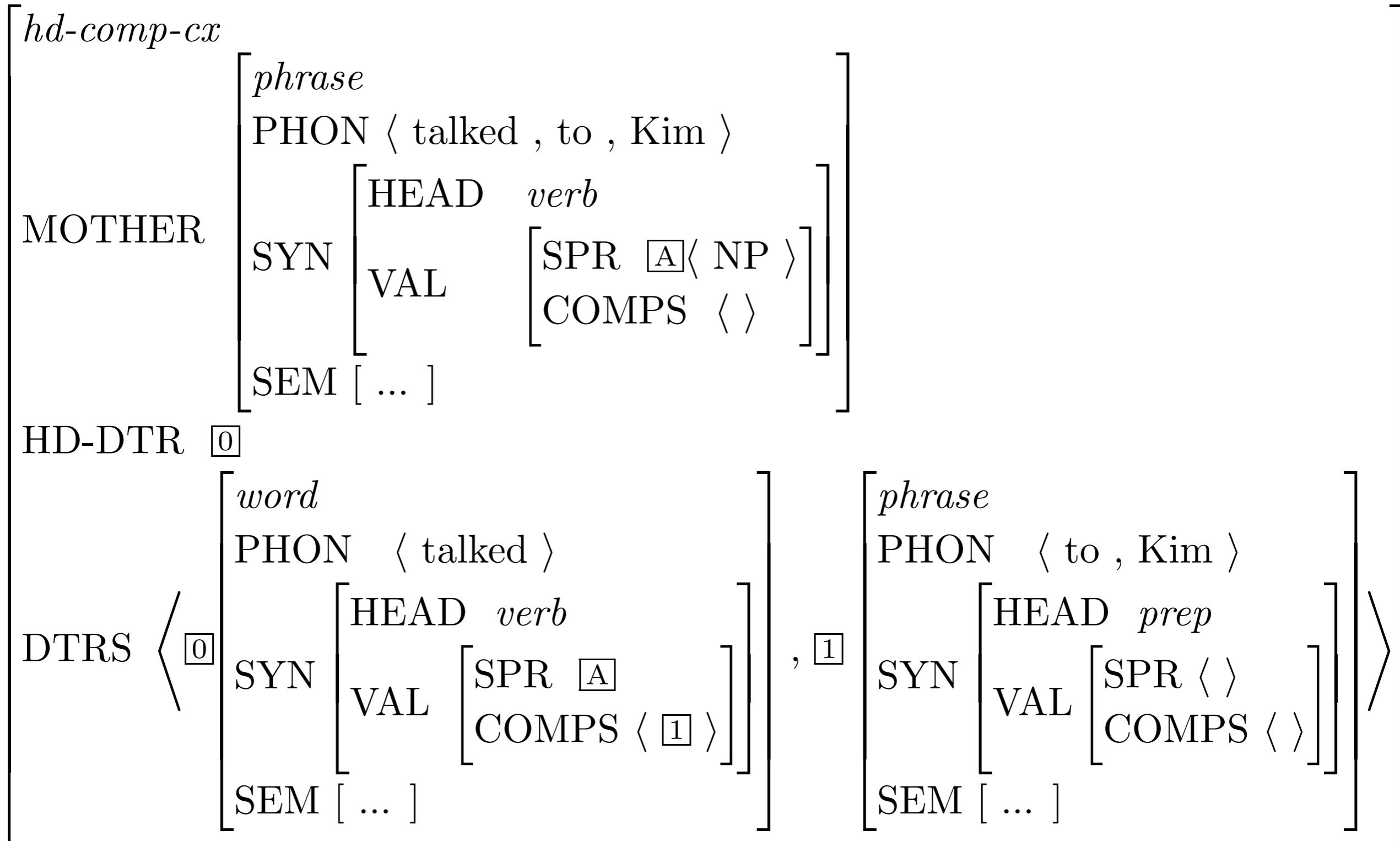
The Head-Complement Construction

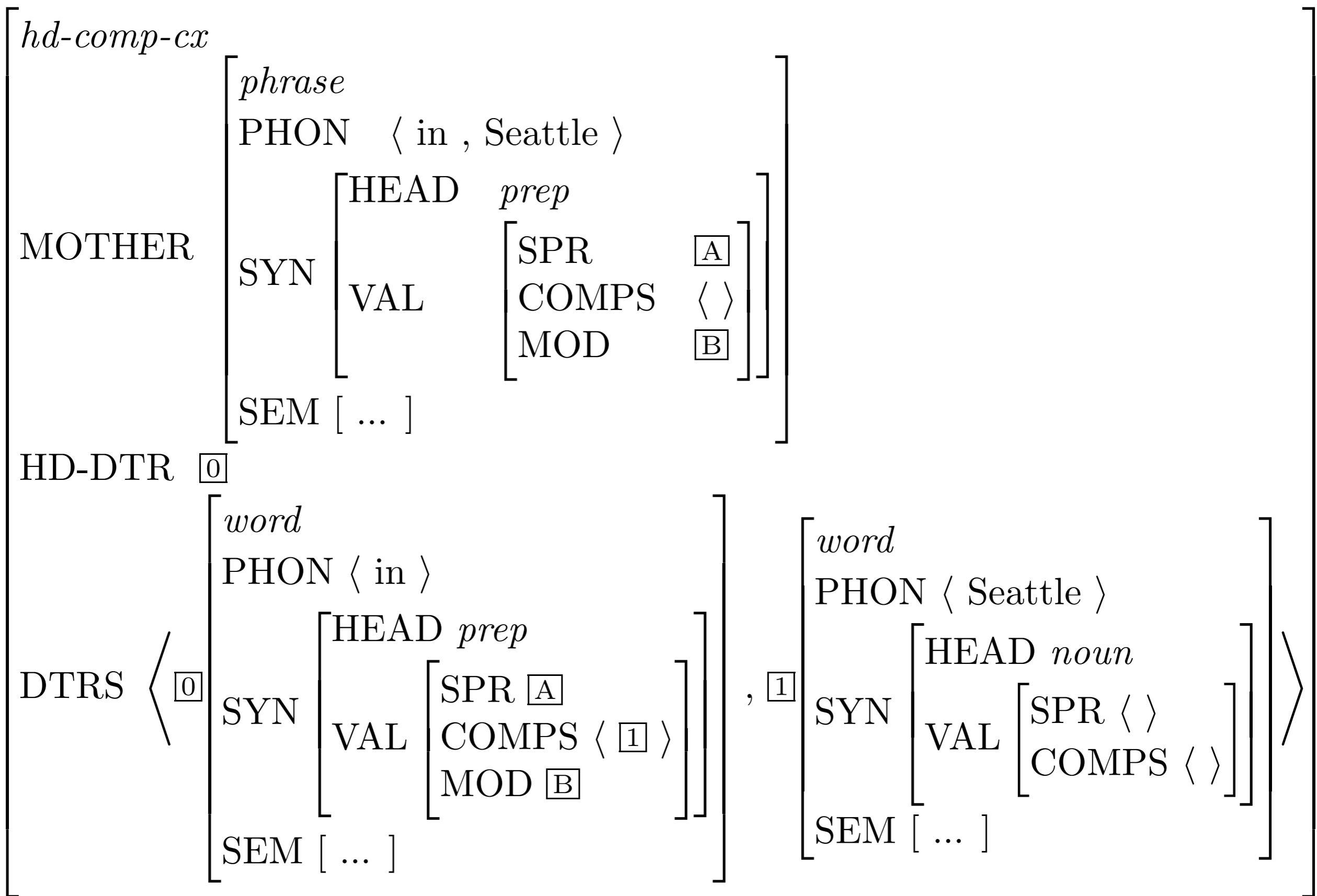
hd-comp-cx :
$$\begin{bmatrix} \text{MOTHER} & [\text{SYN} [\text{VAL} [\text{COMPS} \langle \rangle]]] \\ \text{HD-DTR} & [0 \begin{bmatrix} \textit{word} \\ \text{SYN} [\text{VAL} [\text{COMPS} [\text{A}]]] \end{bmatrix}] \\ \text{DTRS} & \langle 0 \rangle \oplus [\text{A} \textit{nelist}] \end{bmatrix}$$

And with inherited constraints....



An Instance of the HCC





Two More Constructions

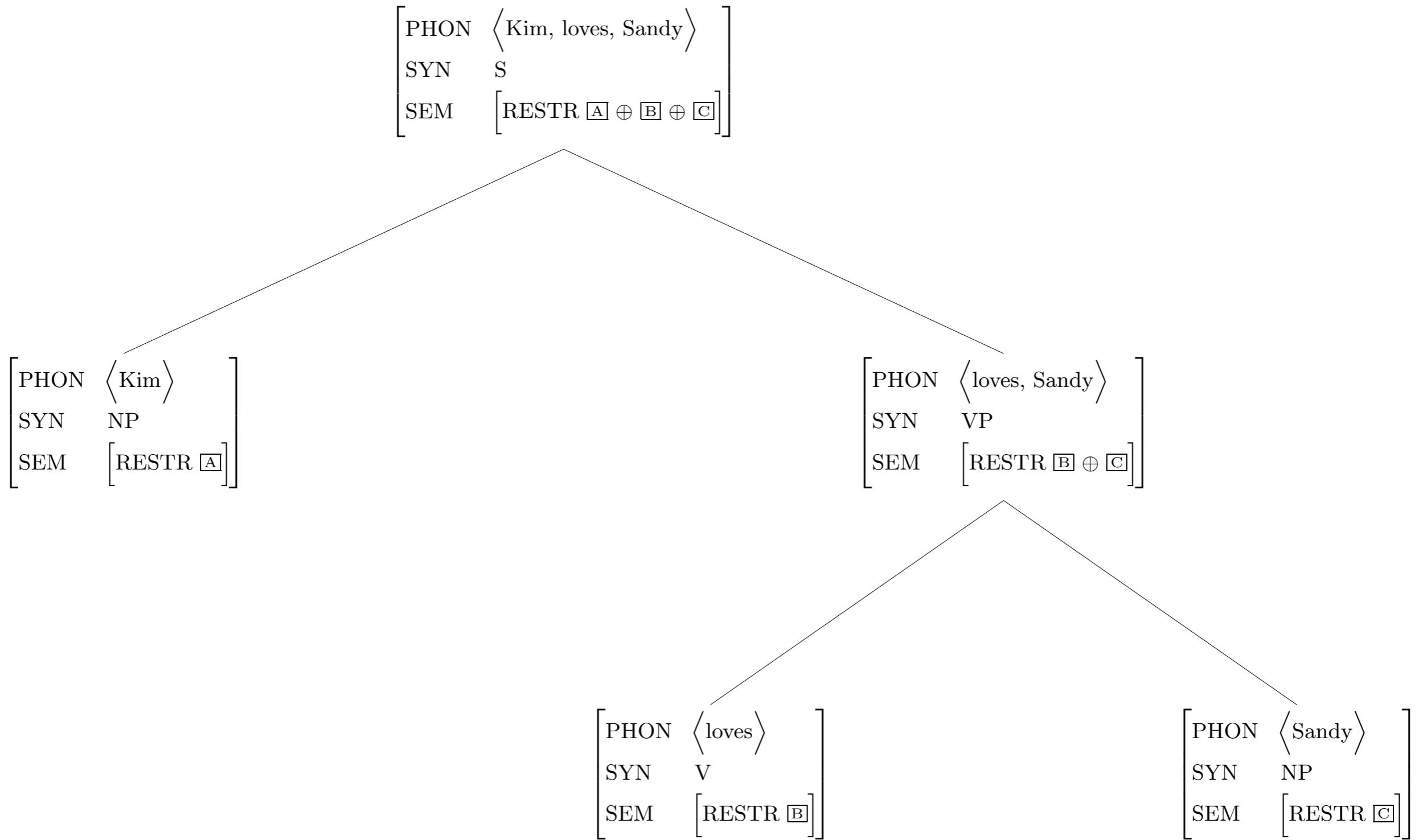
hd-spr-cx :

$$\left[\begin{array}{ll} \text{MOTHER} & \left[\text{SYN} \left[\text{SPR} \langle \rangle \right] \right] \\ \text{HD-DTR} & \boxed{0} \left[\text{SYN} \left[\begin{array}{ll} \text{SPR} & \langle \boxed{1} \rangle \\ \text{COMPS} & \langle \rangle \\ \text{STOP-GAP} & \langle \rangle \end{array} \right] \right] \\ \text{DTRS} & \langle \boxed{1}, \boxed{0} \rangle \end{array} \right]$$

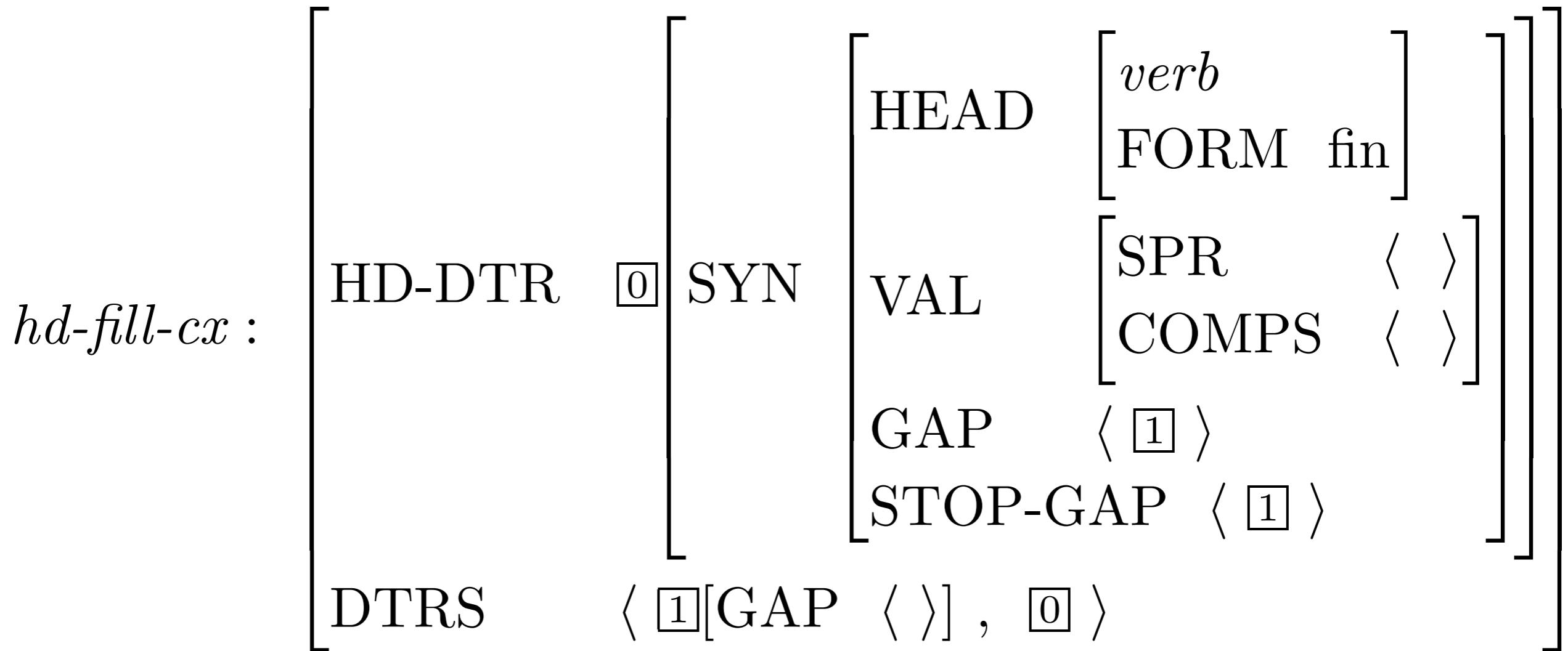
hd-mod-cx :

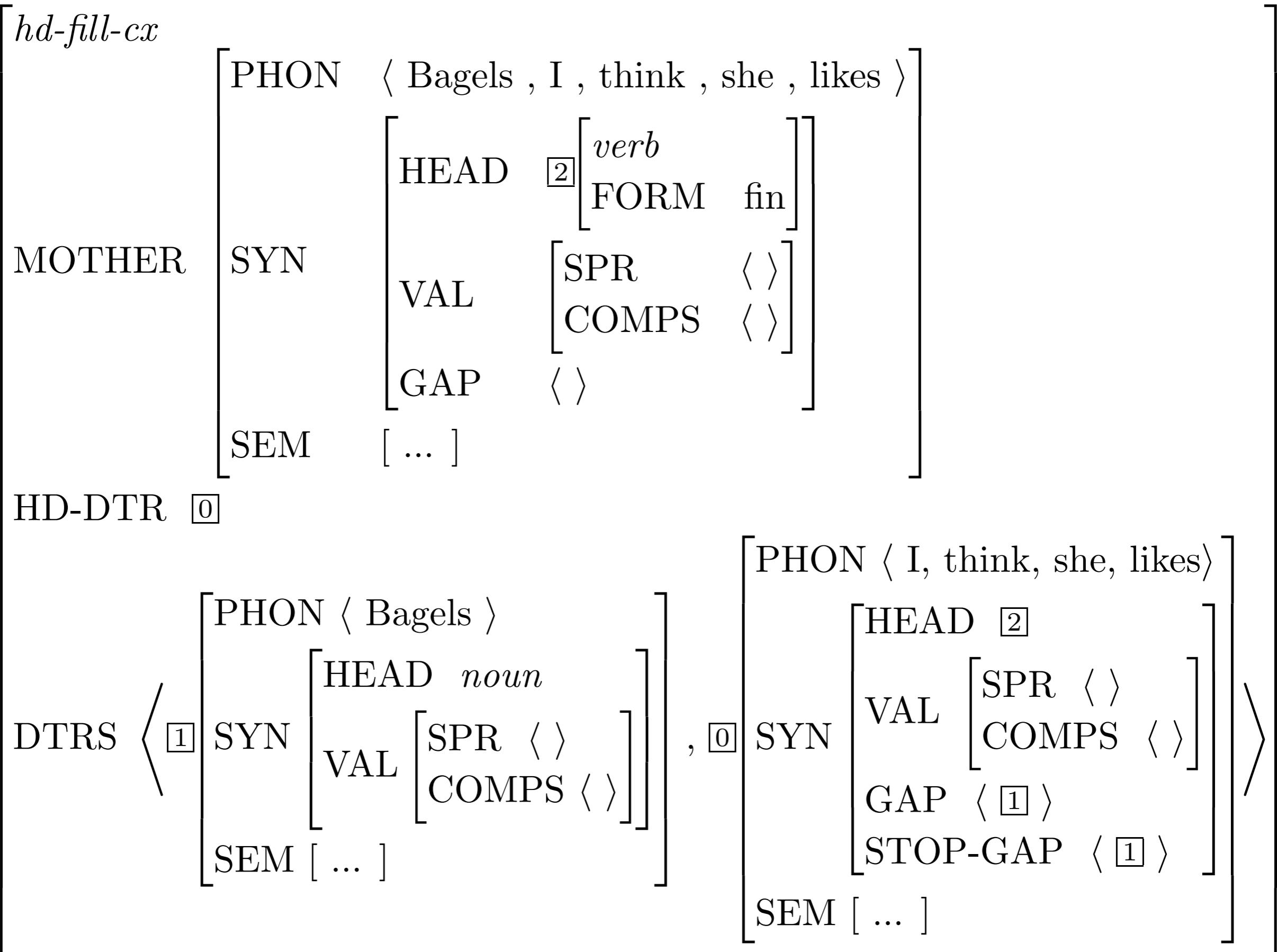
$$\left[\begin{array}{ll} \text{HD-DTR} & \boxed{1} \left[\text{SYN} \left[\begin{array}{l} \text{VAL} \left[\text{COMPS} \langle \rangle \right] \\ \text{STOP-GAP} \langle \rangle \end{array} \right] \right] \\ \text{DTRS} & \left\langle \boxed{1}, \left[\text{SYN} \left[\begin{array}{l} \text{VAL} \left[\text{COMPS} \langle \rangle \right] \\ \text{MOD} \langle \boxed{1} \rangle \end{array} \right] \right] \right\rangle \end{array} \right]$$

A Tree

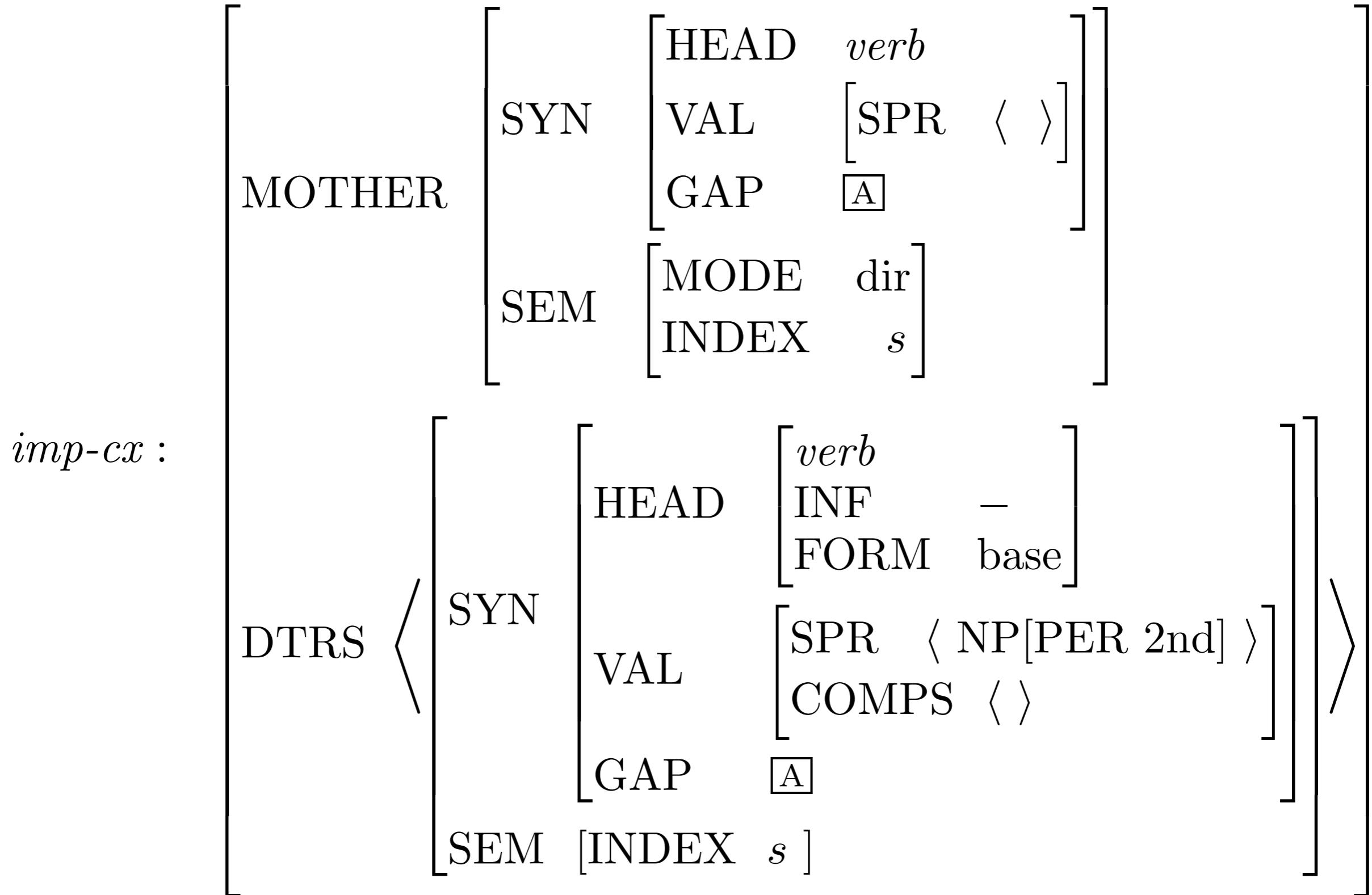


The Head-Filler Construction





The Imperative Construction



Coordination Construction

MOTHER $\left[\begin{array}{ll} \text{SYN} & \left[\begin{array}{ll} \text{HEAD} & [\text{FORM } \boxed{1}] \\ \text{VAL} & \boxed{2} \\ \text{GAP} & \boxed{A} \end{array} \right] \\ \text{SEM} & [\text{IND } s_0] \end{array} \right]$

DTRS $\langle \left[\begin{array}{ll} \text{SYN} & \left[\begin{array}{ll} \text{HEAD} & [\text{FORM } \boxed{1}] \\ \text{VAL} & \boxed{2} \\ \text{GAP} & \boxed{A} \end{array} \right] \\ \text{SEM} & [\text{IND } s_1] \end{array} \right], \dots, \left[\begin{array}{ll} \text{SYN} & \left[\begin{array}{ll} \text{HEAD} & [\text{FORM } \boxed{1}] \\ \text{VAL} & \boxed{2} \\ \text{GAP} & \boxed{A} \end{array} \right] \\ \text{SEM} & [\text{IND } s_{n-1}] \end{array} \right],$

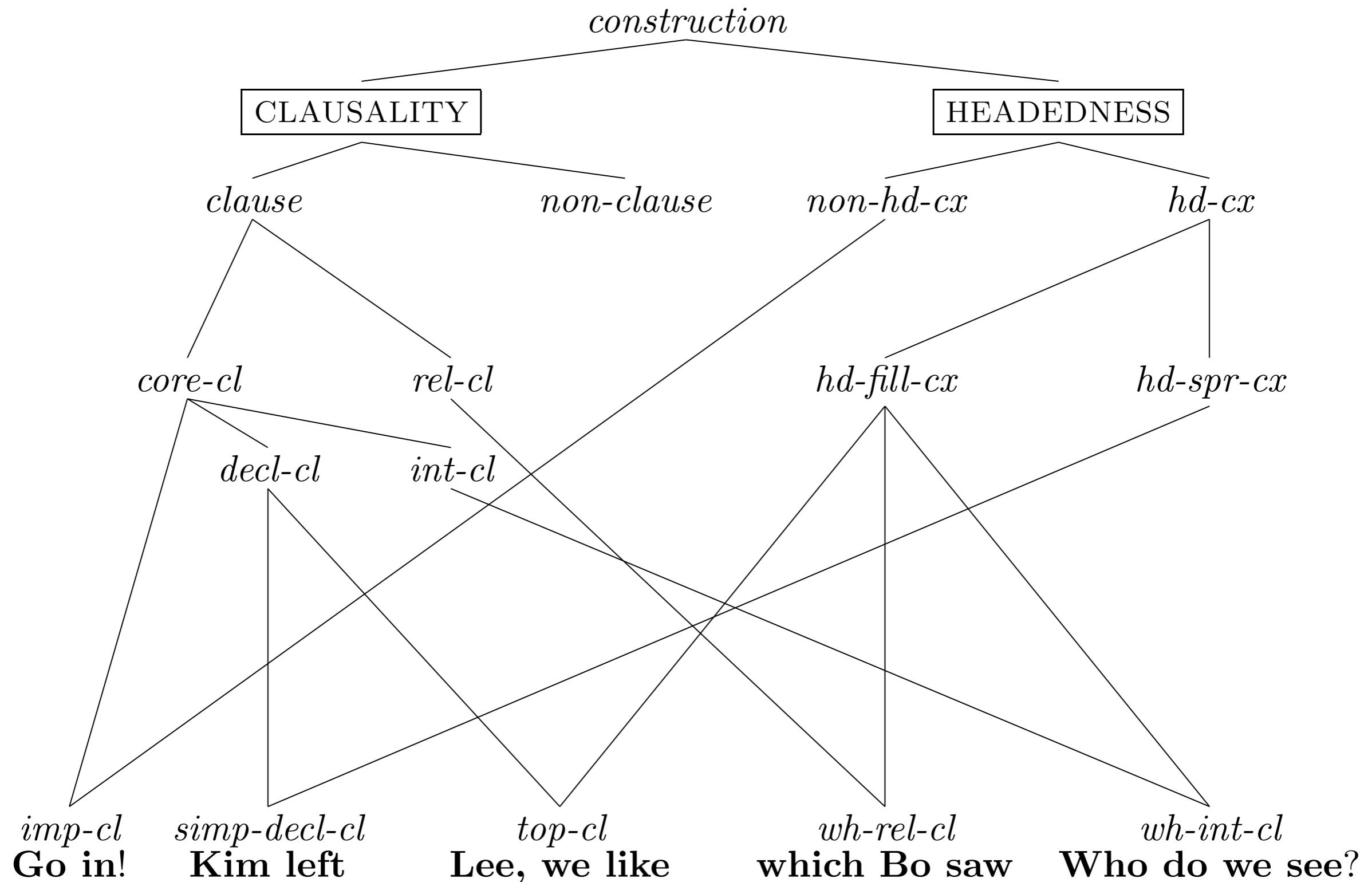
$\left[\begin{array}{l} \text{HEAD } \textit{conj} \\ \text{IND } s_0 \\ \text{RESTR} \langle [\text{ARGs } \langle s_1 \dots s_n \rangle] \rangle \end{array} \right], \left[\begin{array}{ll} \text{SYN} & \left[\begin{array}{ll} \text{HEAD} & [\text{FORM } \boxed{1}] \\ \text{VAL} & \boxed{2} \\ \text{GAP} & \boxed{A} \end{array} \right] \\ \text{SEM} & [\text{IND } s_n] \end{array} \right] \rangle$

	<table border="1"> <tr> <td>PHON</td><td>\langle Kim , sleeps , and , Pat , works \rangle</td></tr> </table>	PHON	\langle Kim , sleeps , and , Pat , works \rangle												
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Some More Abbreviations

<i>imp-cl</i>	<i>imperative-clause</i>
<i>decl-cl</i>	<i>declarative-clause</i>
<i>simp-decl-cl</i>	<i>simple-declarative-clause</i>
<i>top-cl</i>	<i>topicalized-clause</i>
<i>wh-rel-cl</i>	<i>wh-relative-clause</i>
<i>wh-int-cl</i>	<i>wh-interrogative-clause</i>
<i>core-cl</i>	<i>core-clause</i>

A Construction Hierarchy



Locality

- Like CFG rules, constructions involve only mothers and daughters.
- A lexical head can place constraints on its sisters or on an appropriate maternal dependent.
- Unbounded dependencies are localized.
Sandy is hard ((for us) to continue) to please _____
Getting it done is hard for us to imagine them considering _____
- Our principles provide a theory of what information (reflected in terms of HEAD, VAL, GAP, etc.) is passed up within the domain projected by a lexical head (including subjects and modifiers) and hence a theory of what information is locally accessible at any given point in a tree.

Course overview

- Survey of some phenomena central to syntactic theory
- Introduction to the HPSG framework
- Process over product: How to build a grammar fragment
- Value of precise formulation (and of getting a computer to do the tedious part for you!)

Reflection

- What was the most surprising thing in this class?
- What do you think is most likely wrong?
- What do you think is the coolest result?
- What do you think you're most likely to remember?

Overview

Final exam posted