

## 5.2 Slides

(1) Bo visited Lee yesterday.

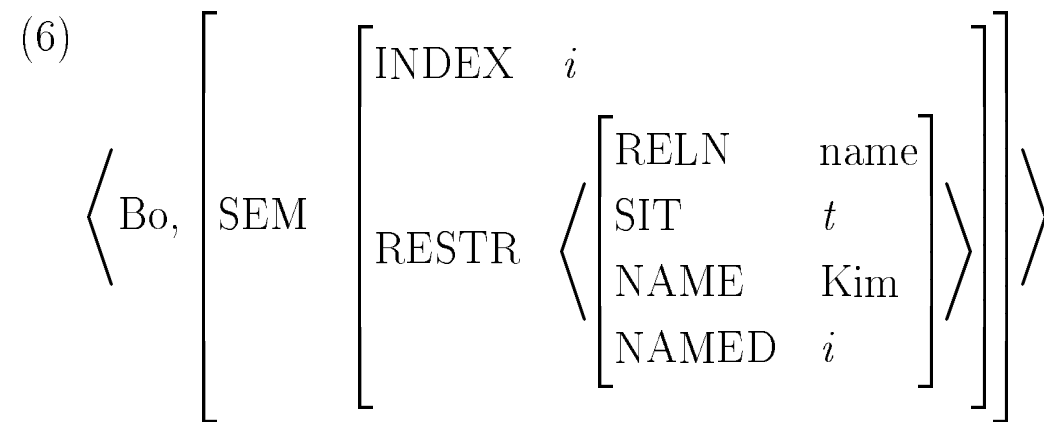
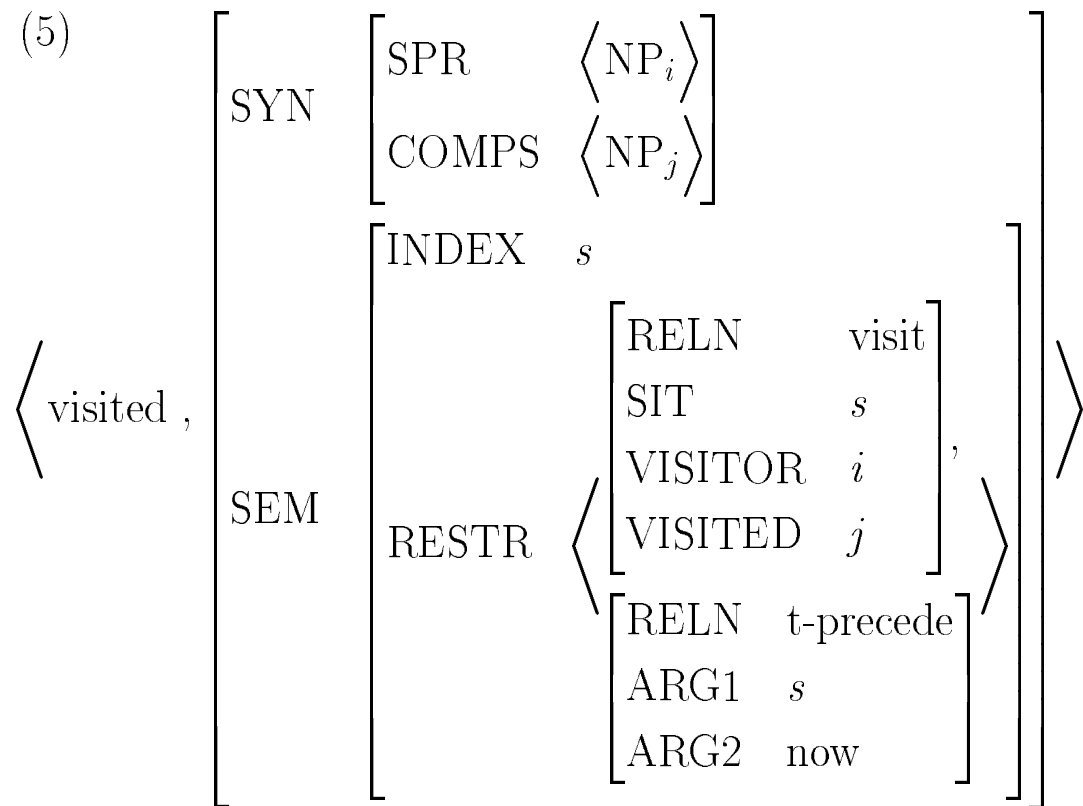
- (2)
- s is a visiting situation
  - the visitor is i
  - i is named Bo
  - the visitor is j
  - j is named Lee
  - s happened yesterday

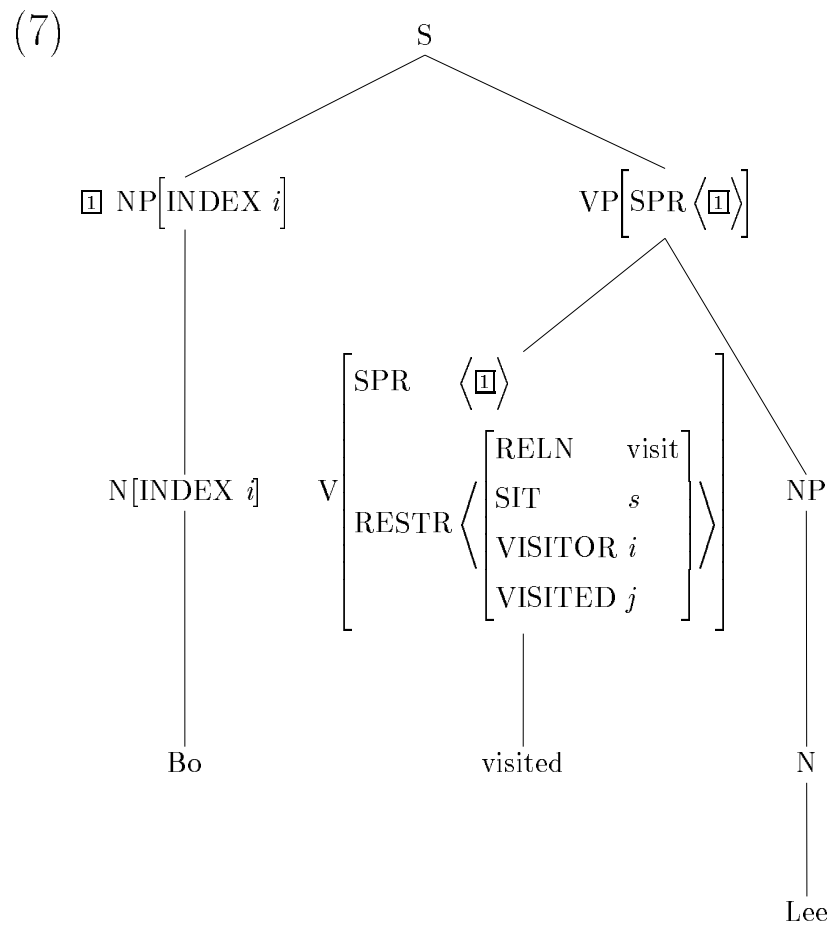
(3)

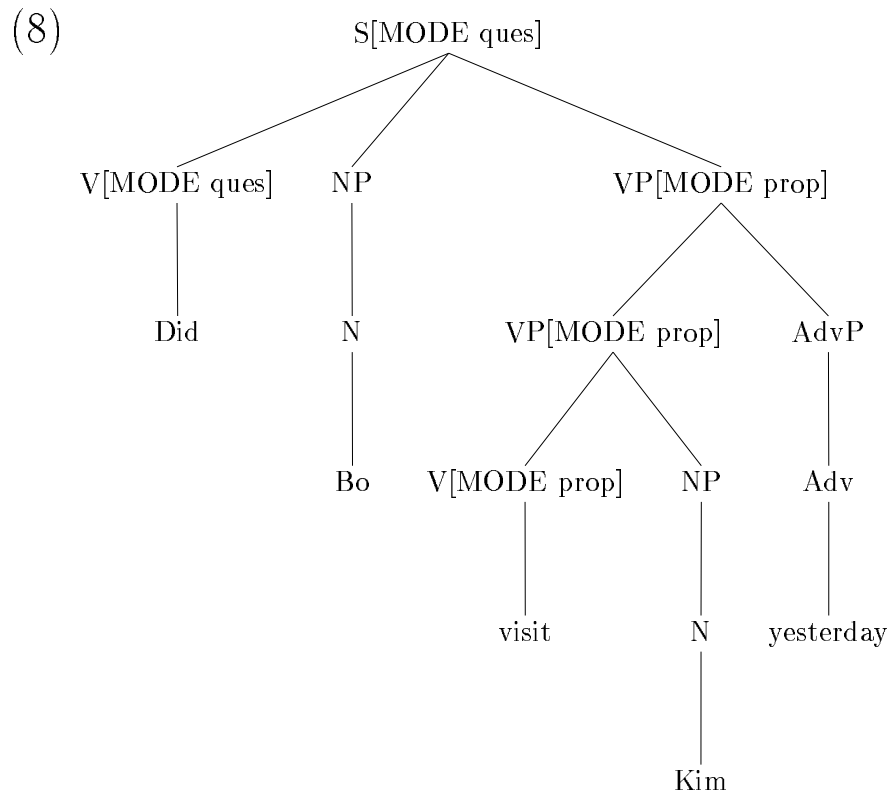
$$\left[ \begin{array}{l} \textit{synsem-struct} \\ \\ \text{SYN} \left[ \begin{array}{ll} \text{HEAD} & \textit{pos} \\ \text{COMPS} & \textit{list(synsem-struct)} \\ \text{SPR} & \textit{list(synsem-struct)} \end{array} \right] \\ \\ \text{SEM} \left[ \begin{array}{ll} \text{MODE} & \left\{ \textit{prop, ques, dir, ref, none} \right\} \\ \text{INDEX} & \textit{index} \\ \text{RESTR} & \textit{list(predication)} \end{array} \right] \end{array} \right]$$

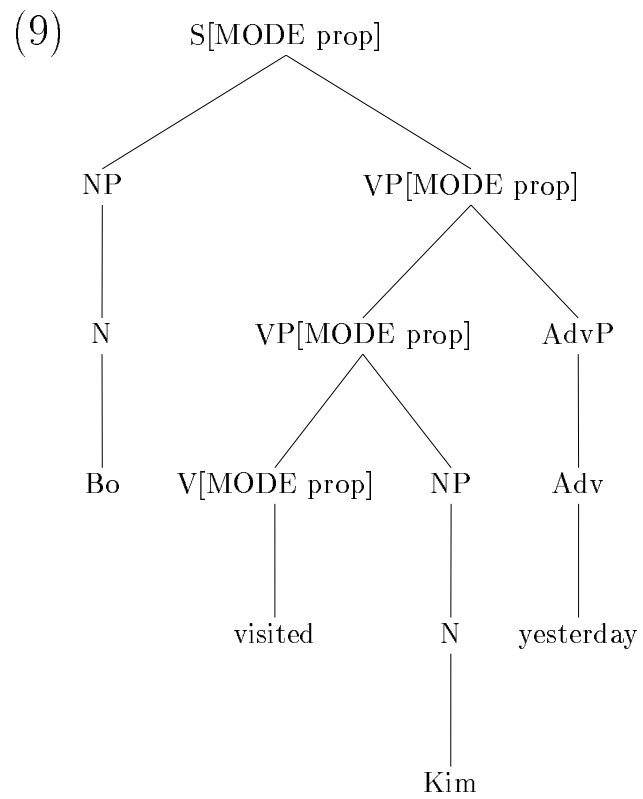
(4) My mother relies on you.

MODE    prop INDEX    s	$\left[ \begin{array}{l} \left[ \begin{array}{ll} \text{RELN} & \text{rely-on} \\ \text{SIT} & s \\ \text{RELIER} & i \\ \text{RELIED-ON} & j \end{array} \right], \\ \text{RESTR} \left\langle \left[ \begin{array}{ll} \text{RELN} & \text{speaker} \\ \text{SIT} & t \\ \text{INST} & k \end{array} \right], \left[ \begin{array}{ll} \text{RELN} & \text{mom-of} \\ \text{SIT} & u \\ \text{MOTHER} & i \\ \text{CHILD} & k \end{array} \right] \right\rangle, \\ \left[ \begin{array}{ll} \text{RELN} & \text{addressee} \\ \text{SIT} & v \\ \text{INST} & j \end{array} \right], \left[ \begin{array}{ll} \text{RELN} & \text{t-overlap} \\ \text{SIT} & w \\ \text{ARG1} & s \\ \text{ARG2} & \text{now} \end{array} \right] \end{array} \right]$
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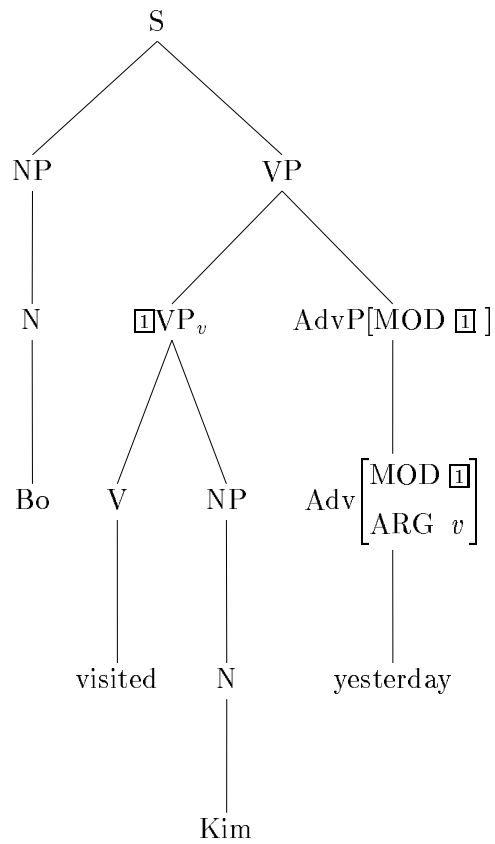




(10)

$$\left\langle \text{yesterday} , \right. \left[ \begin{array}{l} \text{SYN} \left[ \begin{array}{l} \text{HEAD} \left[ \begin{array}{l} \text{adv} \\ \text{MOD} \quad \text{VP}[\text{INDEX } t] \end{array} \right] \\ \text{SPR} \quad \langle \rangle \\ \text{COMPS} \quad \langle \rangle \end{array} \right] \\ \text{SEM} \left[ \begin{array}{l} \text{INDEX} \quad v \\ \text{MODE} \quad \text{none} \\ \text{RESTR} \left\langle \left[ \begin{array}{l} \text{RELN} \quad \text{yesterday} \\ \text{SIT} \quad v \\ \text{ARG} \quad t \end{array} \right] \right\rangle \end{array} \right] \end{array} \right] \right\rangle$$

(11)



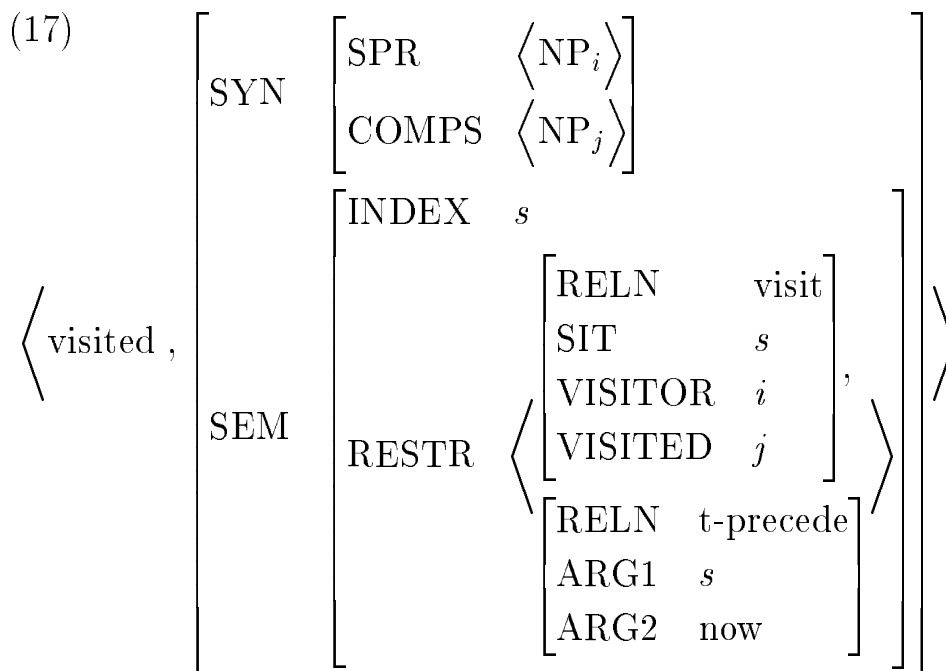
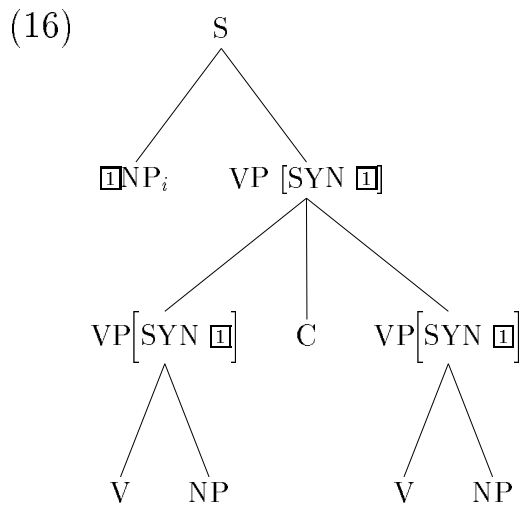
$$(12) \left[ \begin{array}{l} \text{SYN} \\ \text{SEM} \end{array} \left[ \begin{array}{l} \text{SPR} \quad \langle \text{NP}_i \rangle \\ \text{COMPS} \quad \langle \text{NP}_j \rangle \\ \text{INDEX} \quad s \\ \text{RESTR} \quad \left\langle \begin{array}{l} \left[ \begin{array}{l} \text{RELN} \quad \text{visit} \\ \text{SIT} \quad s \\ \text{VISITOR} \quad i \\ \text{VISITED} \quad j \end{array} \right] , \\ \left[ \begin{array}{l} \text{RELN} \quad \text{t-precede} \\ \text{ARG1} \quad s \\ \text{ARG2} \quad \text{now} \end{array} \right] \end{array} \right\rangle \end{array} \right] \right]$$

$$(13) \left[ \begin{array}{l} \text{SYN} \\ \text{SEM} \end{array} \left[ \begin{array}{l} \text{HEAD} \quad \left[ \begin{array}{l} \text{adv} \\ \text{MOD} \quad \text{VP}[\text{INDEX } t] \end{array} \right] \\ \text{SPR} \quad \langle \rangle \\ \text{COMPS} \quad \langle \rangle \\ \text{INDEX} \quad v \\ \text{MODE} \quad \text{none} \\ \text{RESTR} \quad \left\langle \begin{array}{l} \left[ \begin{array}{l} \text{RELN} \quad \text{tomorrow} \\ \text{SIT} \quad v \\ \text{ARG} \quad t \end{array} \right] \end{array} \right\rangle \end{array} \right] \right]$$

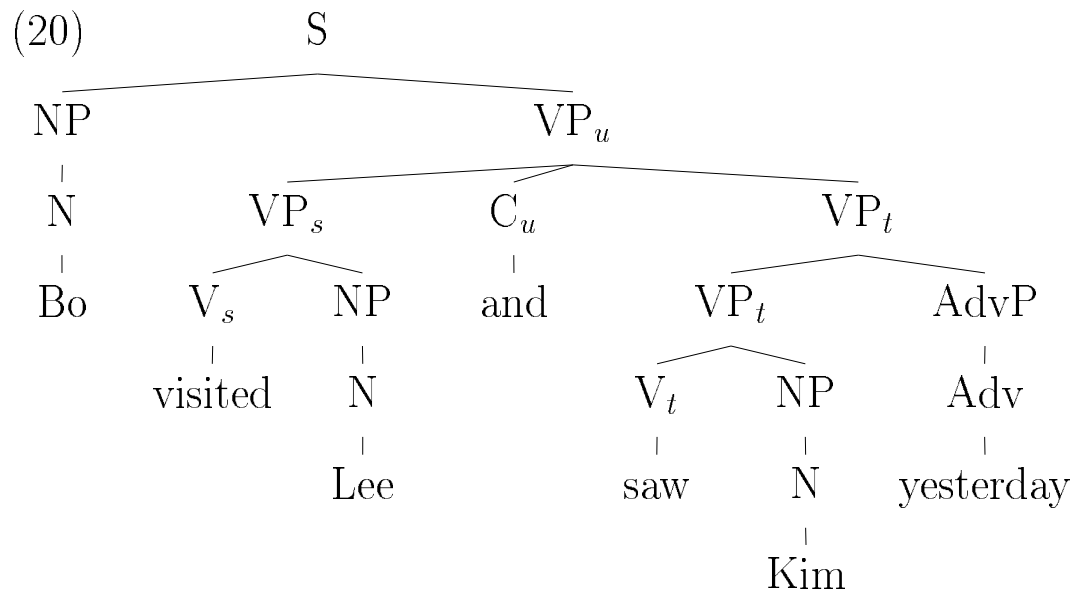
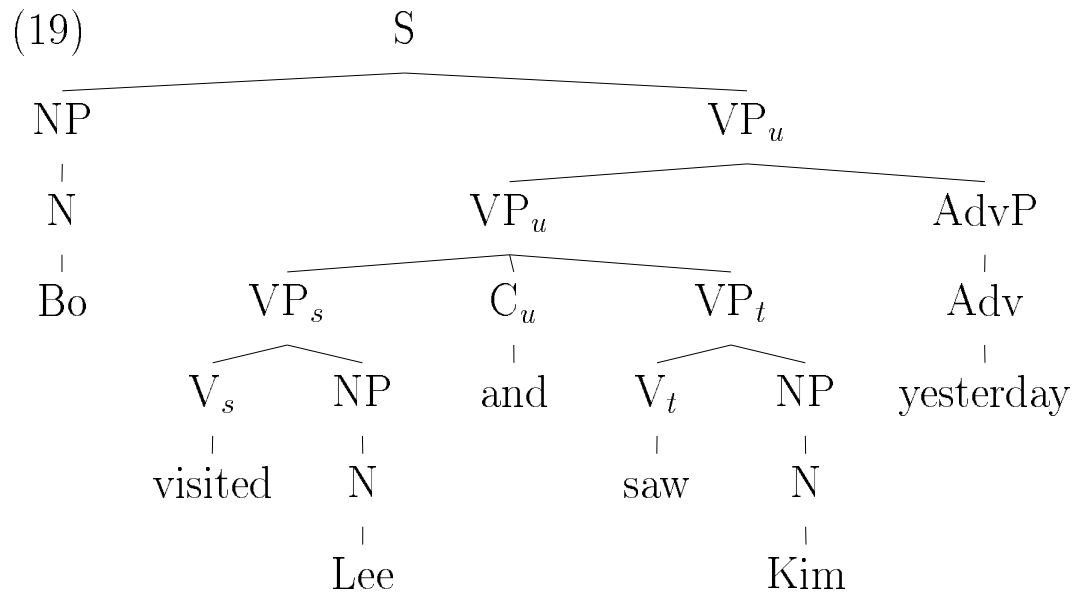
$$(14) \left[ \begin{array}{l} \text{RESTR} \left\langle \begin{array}{l} \dots \left[ \begin{array}{l} \text{RELN} \quad \text{tomorrow} \\ \text{SIT} \quad v \\ \text{ARG} \quad t \end{array} \right], \\ \left[ \begin{array}{l} \text{RELN} \quad \text{t-precede} \\ \text{ARG1} \quad t \\ \text{ARG2} \quad \text{now} \end{array} \right] \dots \end{array} \right. \end{array} \right]$$

(15) RESTR value for *Bo visited Lee and saw Kim*

$$\begin{array}{c}
 \left[ \begin{array}{ll} \text{RELN} & \text{name} \\ \text{SIT} & s \\ \text{NAME} & \text{Bo} \\ \text{NAMED} & b \end{array} \right], \left[ \begin{array}{ll} \text{RELN} & \text{name} \\ \text{SIT} & t \\ \text{NAME} & \text{Lee} \\ \text{NAMED} & l \end{array} \right], \left[ \begin{array}{ll} \text{RELN} & \text{name} \\ \text{SIT} & u \\ \text{NAME} & \text{Kim} \\ \text{NAMED} & k \end{array} \right], \\
 \left\langle \left[ \begin{array}{ll} \text{RELN} & \text{visit} \\ \text{SIT} & v \\ \text{VISITOR} & b \\ \text{VISITED} & l \end{array} \right], \left[ \begin{array}{ll} \text{RELN} & \text{saw} \\ \text{SIT} & w \\ \text{SEER} & b \\ \text{SEEN} & k \end{array} \right], \left[ \begin{array}{ll} \text{RELN} & \text{and} \\ \text{SIT} & x \\ \text{ARGS} & \langle v, w \rangle \end{array} \right], \right\rangle \\
 \left[ \begin{array}{ll} \text{RELN} & \text{t-precede} \\ \text{ARG1} & v \\ \text{ARG2} & \text{now} \end{array} \right], \left[ \begin{array}{ll} \text{RELN} & \text{t-precede} \\ \text{ARG1} & w \\ \text{ARG2} & \text{now} \end{array} \right]
 \end{array}$$



(18) Bo visited Lee and saw Kim yesterday



$$(21) \left\langle \dots \begin{bmatrix} \text{RELN} & \text{yesterday} \\ \text{SIT} & w \\ \text{ARG} & u \end{bmatrix}, \begin{bmatrix} \text{RELN} & \text{and} \\ \text{SIT} & u \\ \text{ARG} & \langle s, t \rangle \end{bmatrix} \dots \right\rangle$$

$$(22) \left\langle \dots \begin{bmatrix} \text{RELN} & \text{yesterday} \\ \text{SIT} & w \\ \text{ARG} & t \end{bmatrix}, \begin{bmatrix} \text{RELN} & \text{see} \\ \text{SIT} & t \\ \text{SEER} & b \\ \text{SEEN} & k \end{bmatrix} \dots \right\rangle$$