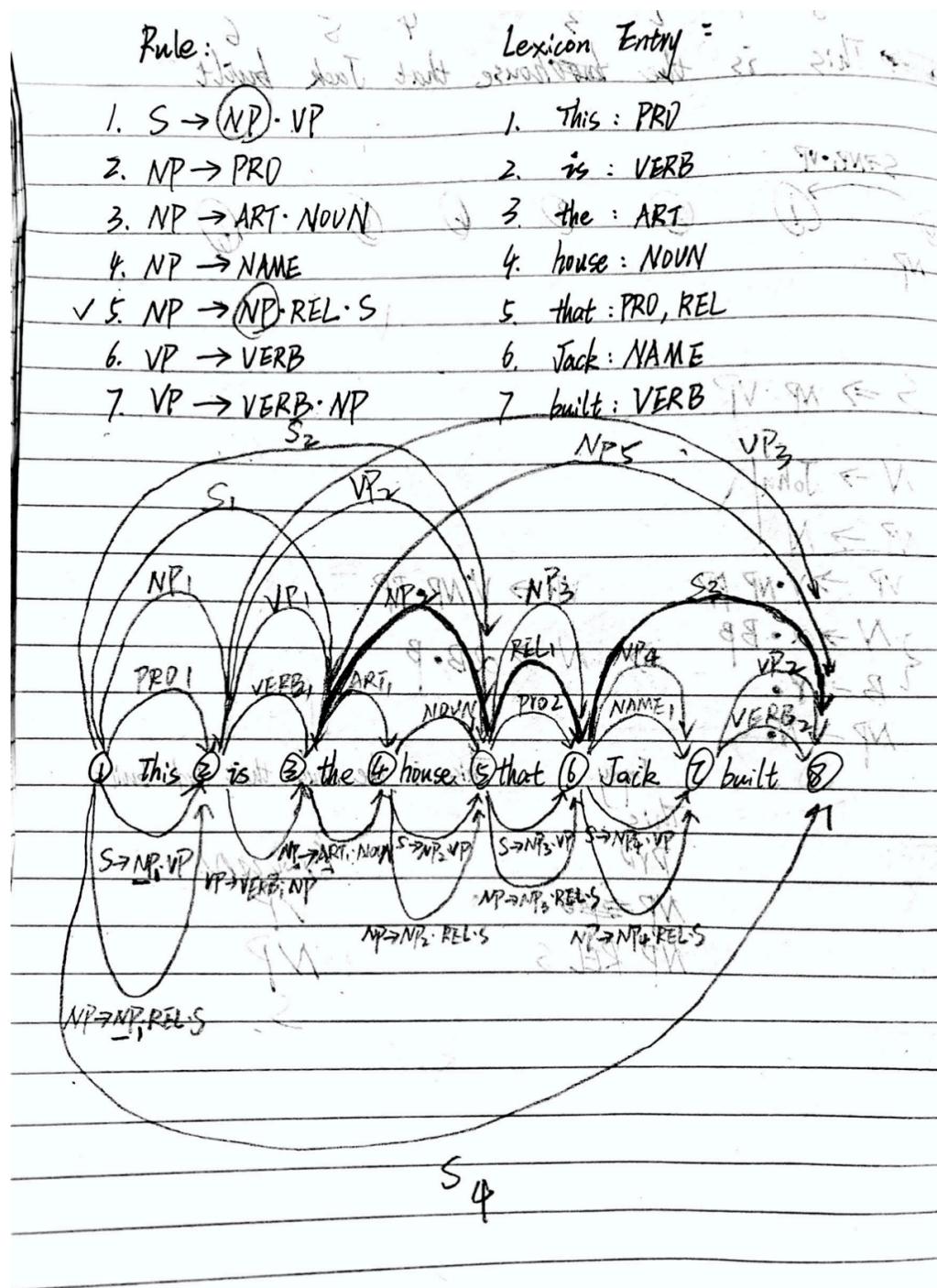


# Tutorial 8

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This:

constituents: PRD1: PRO  $\rightarrow$  this (Lexical Entry 1)

NPI: NP  $\rightarrow$  PRD1 (Rule 2)

active-arcs: ARC1: S  $\rightarrow$  NPI  $\cdot$  VP (Rule 1)

ARC2: NP  $\rightarrow$  NPI  $\cdot$  REL  $\cdot$  S (Rule 5)

This is:

constituents: VERB1: VERB  $\rightarrow$  is (Lex E 2)

VPI: VP  $\rightarrow$  VERB1 (rule 6)

S<sub>1</sub>: S  $\rightarrow$  NPI  $\cdot$  VPI (rule 1)

active-arcs: ARC3: VP  $\rightarrow$  VERB1  $\cdot$  NP (rule 7)

This is the:

constituents: ART1: ART  $\rightarrow$  the (LE 3)

active-arcs: ARC4: NP  $\rightarrow$  ART1  $\cdot$  NOVN (rule 3)

This is the house:

constituents: NOUN1: NOVN  $\rightarrow$  house (LE 4)

active-arcs: NP<sub>2</sub>: NP  $\rightarrow$  ART<sub>1</sub>  $\cdot$  NOUN<sub>1</sub> (Rule 3)

VP<sub>2</sub>: VP  $\rightarrow$  VERB<sub>1</sub>  $\cdot$  NP<sub>2</sub> (Rule 7)

S<sub>2</sub>: S  $\rightarrow$  NP<sub>1</sub>  $\cdot$  VP<sub>2</sub> (Rule 1)

active-arcs: ARC5: S  $\rightarrow$  NP<sub>2</sub>  $\cdot$  VP (Rule 1)

ARC6: NP  $\rightarrow$  NP<sub>2</sub>  $\cdot$  REL  $\cdot$  S (Rule 5)

This is the house that:

Constituents: PRO2 :	$PRO \rightarrow that$	(LE 5)
REL1 :	$REL \rightarrow that$	(LE 5)
NP3 :	$NP \rightarrow PRO2$	(Rule 2)
active-arcs: ARC 7:	$S \rightarrow NP_3 \cdot VP$	(Rule 1)
ARC 8:	$NP \rightarrow NP_3 \cdot REL \cdot S$	(Rule 5)

This is the house that Jack:

Constituents: NAME1:	$NAME \rightarrow Jack$	(LE 6)
NP4 :	$NP \rightarrow NAME1$	(Rules 4)
active-arcs: ARC9:	$S \rightarrow NP_4 \cdot VP$	(Rule 1)
ARC10:	$NP \rightarrow NP_4 \cdot REL \cdot S$	(Rule 5)

This is the house that Jack built:

Constituents: VERB2:	$VERB \rightarrow built$	(LE 7)
VP2 :	$VP \rightarrow VERB$	(Rule 6)
S3 :	$S \rightarrow NP_2 \cdot VP_2$	(rule 1)
<del>NP5</del>	$NP \rightarrow NP_2 \cdot REL1 \cdot \cancel{S_3}$	(Rule 5)
VP3 :	$VP \rightarrow VERB \cdot NP_5$	(Rule 7)
S4 :	$S \rightarrow NP_1 \cdot \cancel{VP_3}$	(Rule 1)

Finally structure:

