

Factored Rules w/ Semantic Routines (BNF)

Left-Factored Rules

1 <story> ::= <s> { <s> } // stay in the loop as long as a possible start
// of <s> is the next_token (note it can be CONNECTOR or WORD1 or PRONOUN)

<s> ::= [CONNECTOR] <noun> SUBJECT <after subject>

<after subject> ::= <verb> <tense> PERIOD | <noun> <after noun>

<after noun> ::= <be> PERIOD | DESTINATION <verb> <tense> PERIOD | OBJECT <after object>

<after object> ::= <verb> <tense> PERIOD | <noun> DESTINATION <verb> <tense> PERIOD

7 <noun> ::= WORD1 | PRONOUN

8 <verb> ::= WORD2

9 <be> ::= IS | WAS

10 <tense> ::= VERBPAST | VERBPASTNEG | VERB | VERBNEG

Updated Rules (inserting semantic routines)

<s> ::= [CONNECTOR #getEword# #gen("CONNECTOR")#]
<noun> #getEword# SUBJECT #gen("ACTOR")# <after subject>

<after subject> ::= <verb> #getEword# #gen("ACTION")#
<tense> #gen("TENSE")# PERIOD

<after subject> ::= <noun> #getEword# <after noun>

<after noun> ::= <be> #gen("DESCRIPTION")# #gen("TENSE")# PERIOD

<after noun> ::= DESTINATION #gen("TO")#
<verb> #getEword# #gen("ACTION")#
<tense> #gen("TENSE")# PERIOD

<after noun> ::= OBJECT #gen("OBJECT")# <after object>

<after object> ::= <verb> #getEword# #gen("ACTION")#
<tense> #gen("TENSE")# PERIOD

<after object> ::= <noun> #getEword# DESTINATION #gen("TO")#
<verb> #getEword# #gen("ACTION")#
<tense> #gen("TENSE")# PERIOD