

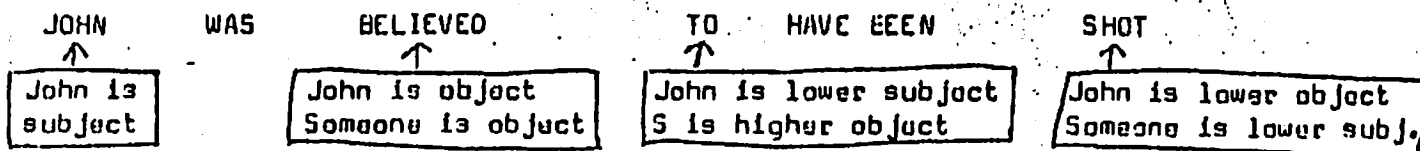
DISCLAIMER: Since the purpose of this paper is to present some sketchy ideas and get them criticized as soon as possible, the contents may be expected to self-destruct within a week or less.

1.  $\eta$ -crossing

$I = C(1,2); \quad II = C(2,1); \quad III = P(1,2)$

- a.  $P_L/I > (P_S/I \ \& \ II > P_S/III)$
- b.  $P_S/I \ \& \ II \ \& \ III > P_L/I$
- c.  $P_S/I \ \& \ II > (P_S/III \leftrightarrow P_L/I)$

2. Woods' 'guessing' idea



- 3. a. Stanley and Marvin came in in that order.
  - Harry is a bastard in both senses of the word.
  - C. Sheriff Clark is a pig in every sense of the ~~the~~ word.
  - d. Mary reported that Susie was surprised when their respective husbands, Harry and Max, got arrested.
  - e. Mimi married a prince, figuratively speaking of course.
  - f. Sam looked up Mary's dress -- I mean, her address.  
 looked up her address  
 \*up her address
  - g. Northern liberals are proud of their racial, or rather racist attitudes.
  - h. They call him 'Fats' even though he's not.
  - i. Harry's wife -- if he has one -- must be a ninny.
- 4. a. John believes to be a spy - the man with the dark glasses and the trenchcoat.
  - b. \*John want to leave - the man with the dark glasses and the trenchcoat.
  - c. ?\*It's Max who Sam says ~~John~~ John expects to shave himself.

5. Derivations:

Semantics	Possibly changed or incremented semantics
Computation space	New computation space
Surface string	Possibly bigger surface string
1	2

etc.

## Production Derivations

Semantic Info Gradually  
Increasing Throughout  
Derivation

Computation Space -  
Incremented by  
Semantic Info

Surface String

## Production Rules

[CS] Relevant  
Semantic Info as  
syntactically processed  
to date

New Conditions  
on G-R's  
to be met

[SS] Relevant surface  
string info so far

Conditions to  
be met by  
future surface  
string

## Recognition Derivations (2)

Semantic Guesses

Computation Space

Surface String

## Recognition Rules

Condition on  
Semantic  
guesses so  
far

New  
Semantic  
guesses

[S]

Condition  
on Computation  
so far, including  
element  
under  
consideration

Conditions  
on future  
computations

[CS]

# List of Functional Elements: TR, AE, D, SS

① CONDITIONS MET BY BOTH 'INPUT' AND 'OUTPUT'

② 'INPUT' CONDITIONS (I)

- a. GR's
- b. surface constraints

[2']

[3']

Predictable  
Correlates  
of the rule

③ 'OUTPUT' CONDITIONS (II)

- a. GR's
- b. surface constraints

PRODUCTION RULE: AE is replaced by \*

①	2 <sub>a</sub>	2' <sub>a</sub>	3 <sub>a</sub>	3' <sub>a</sub>
	2 <sub>b</sub>	2' <sub>b</sub>	3 <sub>b</sub>	3' <sub>b</sub>

Recognition Rule: SS is replaced by \*

①	3 <sub>a</sub>	2 <sub>a</sub>	2' <sub>a</sub>	3' <sub>a</sub>
	3 <sub>b</sub>	3' <sub>b</sub>	2 <sub>b</sub>	2' <sub>b</sub>

DATIVE

ABSTRACT

TR: 2

AE: 1

SS: 3

I<sub>a</sub>: 10(1,2) [DO(3,2)]

II<sub>a</sub>: DO(1,2)

b. 7 IP(P,3) [CH(1,2)]

PRODUCTION

10(*,2)	DO(*,2)
DO(3,2)	
	7 IP(P,3)
	CH(1,2)

RECOGNITION

	DO(*,2)
DO(1,2)	10(1,2)
CH(*,2)	
7 IP(P,*)	

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PASSIVE

ABSTRACT

TR: 1

AE: 2

SS: 1

I<sub>a</sub>: DO(2,1) [S(3,1)]

II<sub>a</sub>: S(2,1)

b. P<sub>2</sub>P(1) [CH(3,1)]  
IP(BE,1)

PRODUCTION

DO(*,1)	S(*,1)
S(2,1)	
	CH(2,1)
	P <sub>2</sub> P(1)
	IP(BE,1)

RECOGNITION

	S(3,*)
S(2,*)	DO(2,*)
P <sub>2</sub> P(*)	CH(3,*)
IP(BE,*)	<del>          </del>

# RAISING INTO OBJECT

## ABSTRACT

TR: 4

AE: 1

SS: 2

COND: COMP(2,4)

$I_a$ : SUBJ(1,2) [OBJ(2,4)]

$II_a$ : OBJ(1,4) [ $\neg(\exists x)SUBJ(x,2)$ ]

b.  $\neg FINITE(2)$  [CH(2,4)]

## PRODUCTION

COMP(2,4)	OBJ(*,4)
SUBJ(*,2)	<del>+</del> $\neg(\exists x)SUBJ(x,2)$
OBJ(2,4)	<del>+</del>
	CH(2,4)
	$\neg FINITE(2)$

## RECOGNITION

COMP(*,4)	SUBJ(1,*)
$\neg(\exists x)SUBJ(x,*)$	OBJ(*,4)
OBJ(1,4)	
$\neg FINITE(*)$	
CH(*,4)	

EQUI FROM <sup>(5)</sup>SUBJ

## ABSTRACT

TR: 4

AE: 1

SS: 2

COND: COMP(2,4)

SUBJ(3,4)

$I_a$ : SUBJ(1,2)

COREF(1,3)

$II_a$ :  $\neg(\exists x)SUBJ(x,2)$

b.  $\neg FINITE(2)$

## PRODUCTION

SUBJ(3,4)	
SUBJ(*,2)	$\neg(\exists x)SUBJ(x,2)$
COMP(2,4)	
COREF(*,3)	
	$\neg FINITE(2)$

## RECOGNITION

COMP(*,4)	COREF(1,3)
SUBJ(3,4)	SUBJ(1,*)
$\neg(\exists x)SUBJ(x,*)$	
$\neg FINITE(*)$	

TRANSFORMING INTO OBJECT

ABSTRACT

TR: 4

AE: 1

SS: 2

COND: COMP(2,4)

I<sub>a</sub>: SUBJ(1,2) [OBJ(2,4)]

II<sub>a</sub>: OBJ(1,4) [ $\neg(\exists x)SUBJ(x,2)$ ]

b.  $\neg FINITE(2)$  [CH(2,4)]

PRODUCTION

COMP(2,4)	OBJ(*,4)
SUBJ(*,2)	<del><math>\neg(\exists x)SUBJ(x,2)</math></del>
OBJ(2,4)	<del>⊆</del>
	CH(2,4)
	$\neg FINITE(2)$

RECOGNITION

COMP(*,4)	SUBJ(1,*)
$\neg(\exists x)SUBJ(x,*)$	OBJ(*,4)
OBJ(1,4)	
$\neg FINITE(*)$	
CH(*,4)	

EQUI FROM SUBJ

ABSTRACT

TR: 4

AE: 1

SS: 2

COND: COMP(2,4)  
SUBJ(3,4)

I<sub>a</sub>: SUBJ(1,2)  
COREF(1,3)

II<sub>a</sub>:  $\neg(\exists x)SUBJ(x,2)$   
b.  $\neg FINITE(2)$

PRODUCTION

SUBJ(3,4)	$\neg(\exists x)SUBJ(x,2)$
SUBJ(*,2)	
COMP(2,4)	
COREF(*,3)	
	$\neg FINITE(2)$

RECOGNITION

COMP(*,4)	COREF(1,3)
SUBJ(3,4)	SUBJ(1,*)
$\neg(\exists x)SUBJ(x,*)$	
$\neg FINITE(*)$	

# RELATIVE CLAUSE FORMATION

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## ABSTRACT

TR: 3

D: 2

AE: 1

SS: 1

$I_a: Y(1, z)$

MOD(2, 3)

COREF(1, 3)

$II_b: WH(1)$

IP(3, 1)

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## PRODUCTION

$Y(*, z)$

MOD(2, 3)

COREF(\*, 3)

$WH(*)$

$IP(3, *)$

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## RECOGNITION

$Y(*, z)$

MOD(2, 3)

COREF(\*, 3)

$WH(*)$

$IP(3, *)$