

THE SEMANTICOSYNTACTIC BRIDGE II*

By

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1. Introduction

As semantic categories I now posit: human (h), institution (i), animal (z), plant (f), biotic part (b), biotic matter (v), concrete continuum (m), concrete individuum (r), abstract continuum (a), abstract individuum (e), temporal continuum (d), temporal individuum (t), spatial continuum (w), spatial individuum (l), situations (s), proposition (p), quantitative continuum (g) and quantitative individuum (n).

The semantic roles are defined and/or listed as follows:

A = [+ Aeffector** + Volitional] C = [+ Aeffector - Volitional]

V = [+ Aeffector + Volitional + Dynamic] B= [+Aeffector - Volitional + Dynamic]

W = [+ Aeffector + Volitional - Dynamic]

Q = [+ Aeffector - Volitional - Dynamic]

F = Followed D = Direction R = Reference

S = Source G = Goal M = Mediate

H = Possessum J = Comitative P = Holonym

E = Beneficiary T = Perceived O = Recipient

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** “Aeffector” stands for “Affector” or “Effector” while “Aeffected” is to stand for “Affected” or “Effected”.

- (11) He was working. Vh
h
- (12) She is standing. Wh
h
- (13) The curtains disappeared. Br
r
- (14) The wind is blowing. Ba
a
- (15) It is raining. Ba
a
- (16) He threw the ball. Ah Br
h r
- (17) Lightning struck the house. Ca Bl
a l
- (18) He is holding a knife. Ah Qr
h r
- (19) The stone broke the window. Cr₁ Br₂
r₁ r₂
- (20) She has a car. Wh Hr
h r
- (21) We paid the bus driver.
h₁ h₂
- i.e. We paid (money) to the bus driver. Ah₁ Bn Oh₂
h₁ n h₂
- (22) The will benefits us all. Qe Eh
e h
- (23) They climbed the mountain. Vh Ml
h l
- (24) The bus seats thirty. Qr Rn
r n

- (25) They fought a clean fight. Ah Be
r e
- (26) I wrote a letter. Ah Br
h r
- (27) They had an argument. Ah Be
h e
- (28) He nodded his head. Ah Bb
h b
- (29) He declared her the winner. Ah₁ Vh₂
- (30) The sun turned it yellow. Cr Bf
r f
- (31) The revolver made him afraid. Cr Bh
r h
- (32) I found it strange. Bh T[Qe]
h r
- (33) He placed it on the shelf. Ah Br Gl
h r l
- (34) The storm drove the ship ashore. Ce Br Gl
e r l
- (35) A car knocked it. Cr₁ Br₂
r₁ r₂
- (36) I prefer them on toast. Wh T[Qr₁ Rr₂]
h r₁ r₂
- (37) I bought her a gift. Ah₁ Br Eh₂
h₁ h₂ r
- (38) She gave the door a kick. Ah Ce Br
h r e

- (39) She knitted me a sweater. Ah₁ Br Eh₂
h₁ h₂ r
- (40) She was singing. Vh
h
- (41) The string broke. Br
r
- (42) John sharpened the knife. Ah Br
h r
- (43) The dog is digging a hole. Az Bl
z l
- (44) Harold ran a mile. Vh Ml.
h l
- (45) Susan went to Denmark. Vh Gl
h l
- (46) Yasuko is arriving from Kyoto. Vh Sl
h l
- (47) Helen traveled via Samarkand. Vh Ml
h l
- (48) She gave the book to Bill. Ah₁ Br Oh₂
h₁ r h₂
- (49) I got the cassette from David. Ah₁ Br Oh₂
h₂ r h₁
- (50) I contacted Jane via her sister. Ah₁ Bh₃ Mh₂
h₁ h₃ h₂
- (51) The painting cost £5,000. Qr Mn
r n
- (52) Miranda knew all the answers. Qh He
h e

- (53) Harriet owns a cat. Wh Hz
 h z
- (54) Celia is cold/sad. Qh
 h
- (55) The child is sleeping. Qh
 h
- (56) The town is dirty, Ql
 l
- (57) Fiona is the convener. $h_1 = h_2$
 h_1 h_2
- (58) Joyce ran. Vh
 h
- (59) Mary found the puppy. Vh Tz
 h z
- (60) It rains is Spain. Ba Rl
 a l
- (61) He put the cat on the porch. Ah Bz Gl
 h z l
- (62) He flew from Iowa to Idaho. Vh Sl₁ Gl₂
 H l₁ l₂
- (63) Jo cuts hair with a razor. Ah Cr Bh
 h b r
- (64) Helen heard Robert playing the piano. W h₁ T[Ah₂ Br]
 h₁ h₂ r
- (65) The wind damaged the roof. Ca Br
 a r
- (66) The tail of the dog wagged furiously.
 i.e. The tail of the dog wagged in a furious way. Bb Mg
 b g

3. Semantic -Role Patterns

Letting	Φ	=	F, D, R, E, T, O, H, J, P, S, M, G	
	Ω	=	V, B, W, Q	
	K	=	A, C	} where $K \neq K'$ because of the
	K'	=	A, C	

θ - Criterion, semantic-role patterns are derivable using $[\Omega \pi]$, where π is the predicate, as a point of departure. Thus,

<1>	(1)	$[\Omega \pi]$
<1>	(2)	$[\Omega \pi \Phi]$
<1>	(3)	$[K \pi \Omega]$
<2>	(4)	$[K \pi \Omega \Phi]$
<3>	(5)	$[K' \pi \Omega \Phi]$

4. Syntactic-Role Patterns

Letting	T_s	=	subject role tagma
	T_p	=	predicate tagma
	T_f	=	free object role tagma
	T_c	=	constrained object role tagma

the derivation of syntactic-role patterns is neatly analogous to that of semantic-role patterns in the foregoing section.

<1>	(1)	$[T_s T_p]$
<1>	(2)	$[T_s T_p T_f]$
<1>	(3)	$[T_s T_p T_c]$
<2>	(4)	$[T_s T_p T_c T_f]$
<3>	(5)	$[T_s T_p T_c T_c]$

5. Semanticsyntactic Isomorphism

If the derivations in Sec 3-4 are compared, then it emerges that semantics is isomorphic to syntax as exhibited below.

$$\begin{array}{llll} <1> & (1) & [\Omega \pi] & \equiv & [T_s T_p] \\ <1> & (2) & [\Omega \pi \Phi] & \equiv & [T_s T_p T_f] \\ <1> & (3) & [K \pi \Omega] & \equiv & [T_s T_p T_c] \\ <2> & (4) & [K \pi \Omega \Phi] & \equiv & [T_s T_p T_c T_f] \\ <3> & (5) & [K' \pi \Omega \Phi] & \equiv & [T_s T_p T_c T_c] \end{array}$$

6. Conclusions

In conclusion, it is clear that the derived Principle of Semanticsyntactic Isomorphism is precisely the Semanticsyntactic Bridge I set out to build.