Affectedness in the Agent of SUBSTITUTE

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<u>John substituted Bob</u> in the second half.

NPAGENT
the one who decides which entity to be used
NPAGENT
NPOUT
the entity replacing others
NPOUT
the entity being replaced
NPIN
NPOUT



Distinction between 'participant roles' and 'thematic roles' (Van Valin & LaPolla, 1997: 113)

[+Volition] [-Volition]

Thematic Role

'AGENT'

'PATIENT'



Participant [+Volition] [+Volition]

Role

Relational properties of 'Agent' and 'Patient'

(Næss, 2007: 40-42)

▽ Volitionality (VOL)

"The volitional involvement of a participant in an action"

An act where one participant "does something to" another

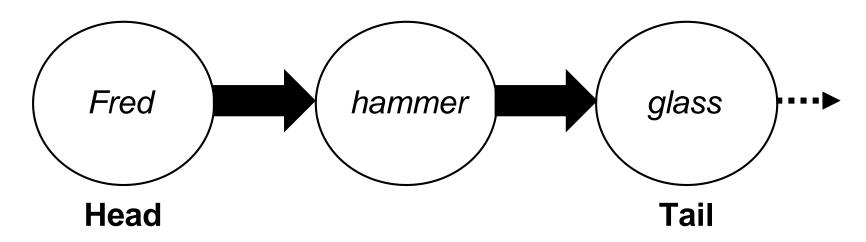
> Affectedness (AFF)

A patient "undergoes a change of state as a result of the event"

- 'AGENT' [+VOL, +INST, -AFF]
- 'PATIENT'[-VOL, -INST, +AFF]

Action Chain Model

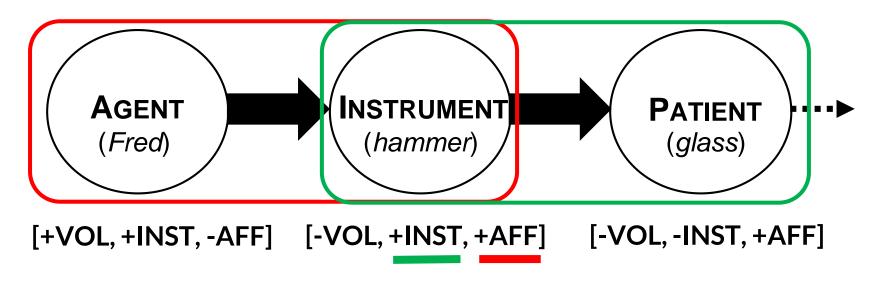
- ► Language is grounded in basic human experience (Langacker, 2008: 355; Croft, 2012).
 - Force-dynamic interaction between entities



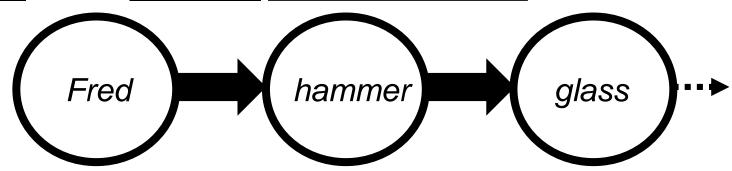
Fred broke the glass with the hammer.

Action Chain Model

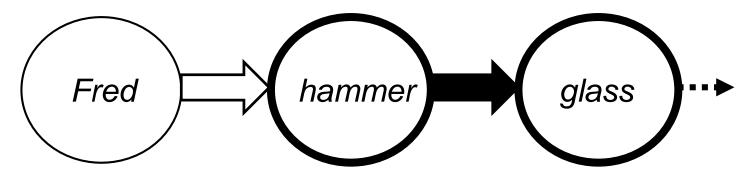
Fred broke the glass with the hammer.



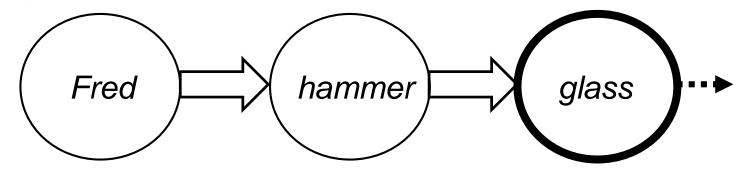
Fred broke the glass with the hammer.



The hammer broke the glass.



The glass broke.

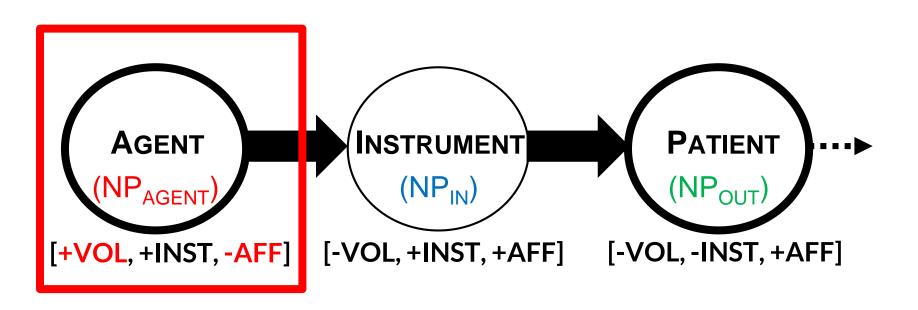


Research Questions

- What are the factors that divide the interpretation of the subject of SUBSTITUTE into the NP_{AGENT} and the NP_{IN}?

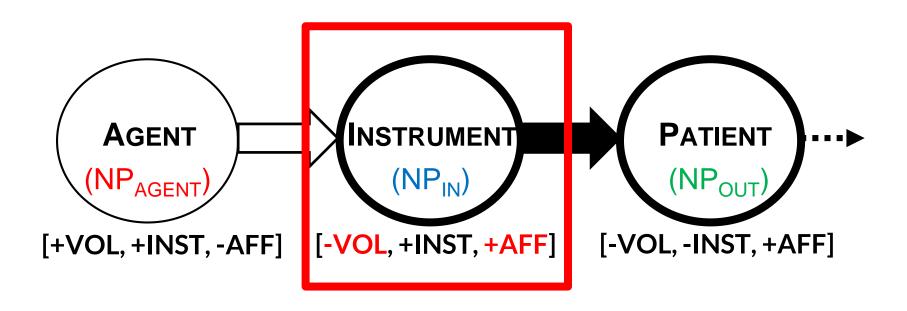
PROTOTYPICAL AGENT [+VOL, +INST, -AFF]

[AGENT SOUTHAMPTON manager Ian Branfoot] substituted [OUT hardman Terry Hurlock] to save him from the red card. (CEP-10994)

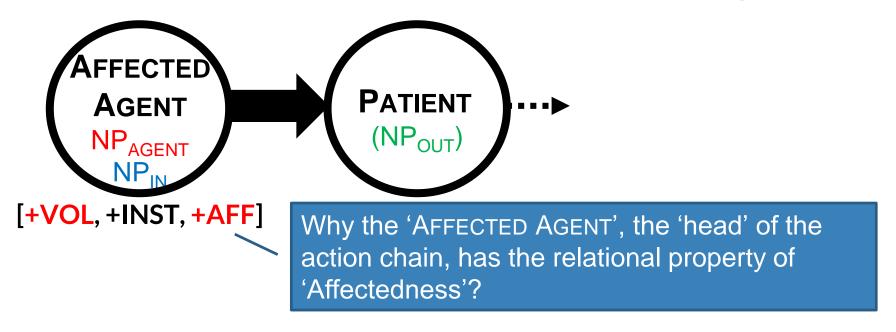


INSTRUMENT [-VOL, +INST, +AFF]

Not very, despite the fact that $[_{IN}gas]$ can **substitute** $[_{OUT}50-80\%$ of diesel oil]. (ACR-3228)



Okay, so we accept that $[_{IN}$ Councillor Tiffany] is now **substituting** $[_{OUT}$ Councillor Kurtz] and may now take her full part in the meeting. (KS1-173)

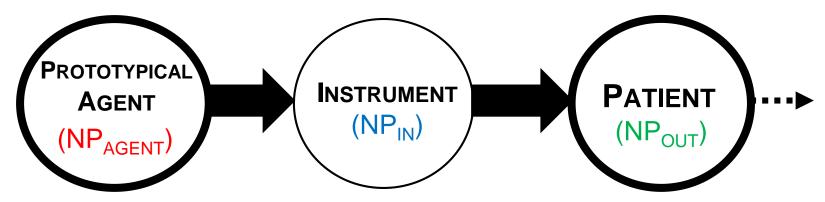


[IN Councillor Tiffany] is now **substituting** [OUT Councillor Kurtz].

↓ [AGENT Councillor Tiffany] is now substituting [IN herself] [OUT for Councillor Kurtz].

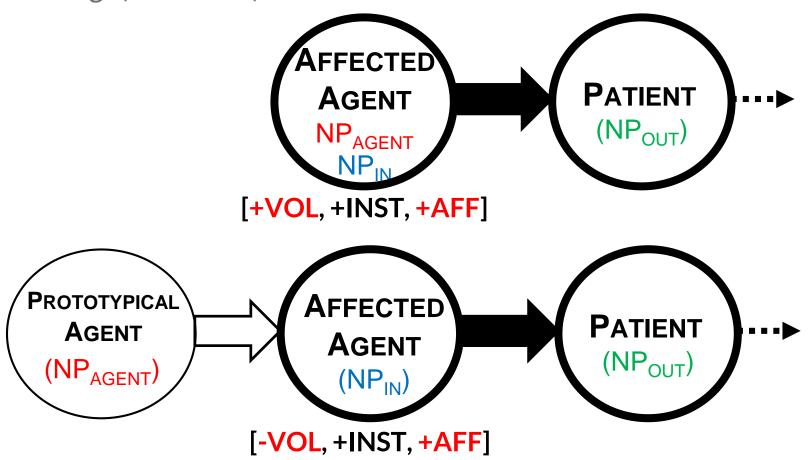
PROTOTYPICAL AGENT may not be compatible with the reflexive use

[AGENT SOUTHAMPTON manager lan Branfoot] substituted [OUT hardman Terry Hurlock] to save him from the red card.



- A substitute player (NP_{IN}) took the place of the NP_{OUT}
- ?[AGENT SOUTHAMPTON manager Ian Branfoot] substituted [IN] himself] [OUT for hardman Terry Hurlock] to save him from the red card.
 - The manager is the NP_{IN} which took the place of the NP_{OUT}

Okay, so we accept that $[_{IN}$ Councillor Tiffany] is now substituting $[_{OUT}$ Councillor Kurtz] and may now take her full part in the meeting. (KS1-173)



A continuum of volition

+ Volition



[AGENT SOUTHAMPTON manager lan Branfoot] substituted [OUT hardman Terry Hurlock] to save him from the red card.

AFFECTED AGENT [±VOL, +INST, +AFF]

[IN Councillor Tiffany] is now **substituting** [OUT Councillor Kurtz] and may now take her full part in the meeting.

INSTRUMENT [-VOL, +INST, +AFF]

[IN Gas] can substitute [OUT 50-80% of diesel oil].

- Volition

Observations

- Whether the 'AFFECTED AGENT' exercises its own volition is uncertain
- > Two factors affecting 'Volitionality'
 - the nature of the NP (e.g., manager and gas)
 - the 'Affectedness' of the AGENT
- ▶ In contrast to the unaffected 'PROTOTYPICAL AGENT', the 'AFFECTED AGENT' may be less agentive

Cross-linguistic data of Mandarin Chinese

- Corpus of Contemporary Taiwanese Mandarin (COCT)
 - Written data: around 280 million words
 - Source: books and newspapers
- - The possible counterpart of substitute: 替換(ti4huan4)

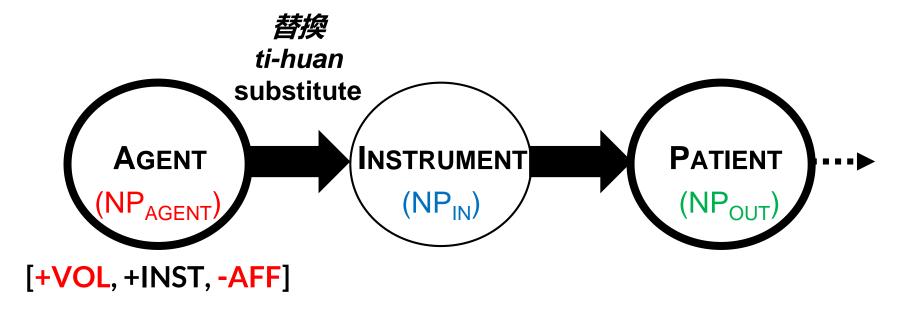
PROTOTYPICAL AGENT [+VOL, +INST, -AFF]

3sg	must	have	supplementary	soldier-source
ta	bi-xu	you	bu-chong	bing-yuan
[_{AGENT} 他]	必須	有	補充	兵源

替換	[_{OUT} 前線	疲憊不堪	约	士兵]。
ti-huan	qian-xian	pi-bei-bu-kan	de	shi-bing
substitu	te frontline	weary	DE	soldiers

• Intended: He must have the supplementary army to substitute the weary soldiers of the frontlines.

PROTOTYPICAL AGENT [+VOL, +INST, -AFF]



他 ta 3sg 前線 疲憊不堪 的 qian-xian pi-bei-bu-kan de frontline weary DE

士兵 shi-bing soldiers

Intended:

He must have the supplementary army to substitute the weary soldiers of the frontlines.

Reflexive pronoun test

PROTOTYPICAL AGENT

[AGENT 他] 替換[OUT前線疲憊不堪的士兵]
[AGENT He] substituted [OUT the weary soldiers of the frontlines]

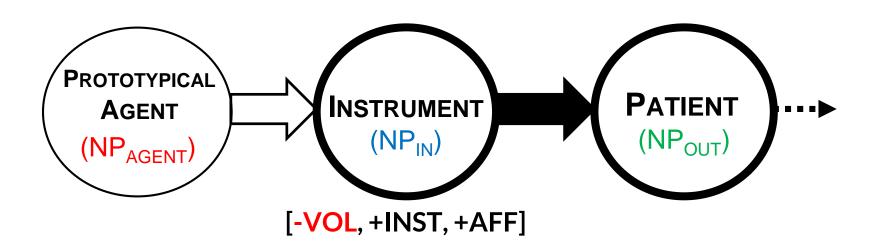


 PROTOTYPICAL AGENT is not compatible with the addition of the reflexive pronoun

INSTRUMENT [-VOL, +INST, +AFF]

Ø	Ħ	[_{IN} <i>塑膠杯</i>]	替換	[OUT玻璃杯]。
Ø	yong	su-jiao-bei	ti-huan	bo-li-bei
Ø	use	plastic cup	substitute	glass

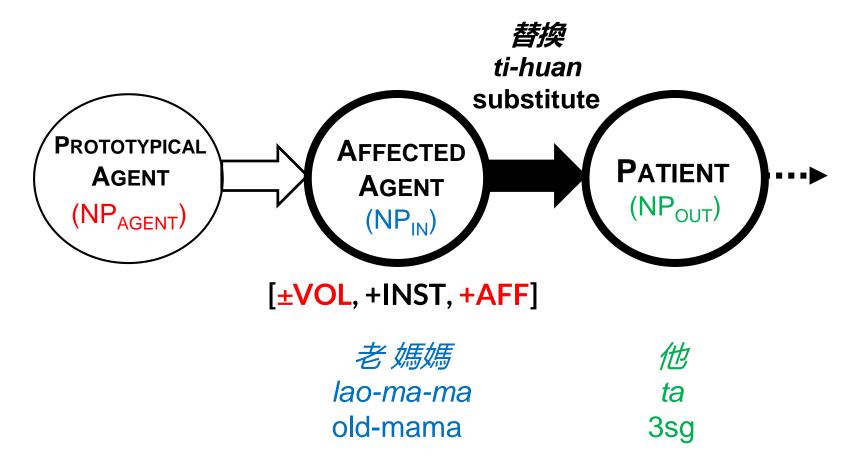
Intended: Use a plastic cup to substitute the glass.



都城	大王	來	讀	[_{IN} 老媽媽]
dou-cheng	da-wang	lai	qing	lao-ma-ma
capital-city	king	come	ask	old-mama

替換	[_{OUT} 他]	去	1封文	王。
ti-huan	ta	qu	zuo	wang
substitute	3sg	go	do	king

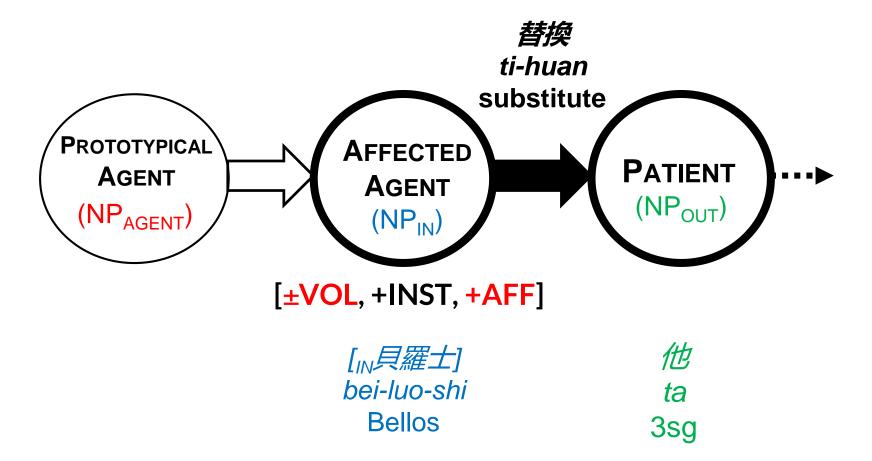
• Intended: The king of the capital asked the old-mama to substitute him as the king.



•Intended: The king of the capital asked the old-mama to substitute him as the king.

他	分配		夜間	守衛		的	工作,	
ta	fen-pei		ye-jian	shou-v	vei	de	gong-zu	10
3sg	assign		night	guardi	ian	DE	work	
安德斯	•	第一	班,	他	自己	午夜		班,
an-de-s	i	di-yi	ban	ta	zi-ji	wu-ye		ban
Anders		first_0	RD CL	3sg	self	midnig	ht	CL
	_							
然後		Ħ	[_{IN} 貝羅]	<u> </u>	來	替換		[OUT他]。
ran-hou	ı	you	bei-luo-	shi	lai	ti-huan		ta
then		from	Bellos		come	substit	ute	3sg

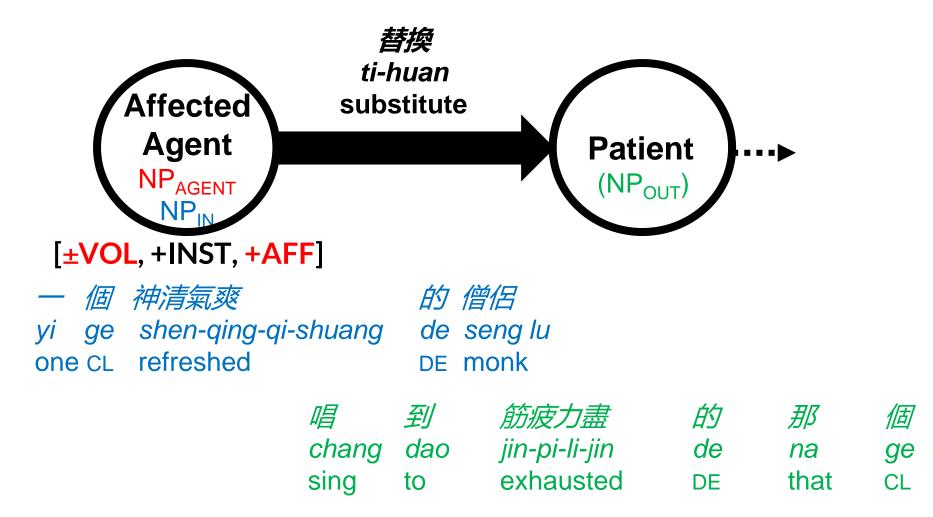
• **Intended**: He arranged the work of the watchmen. Anders was on the first shift, he was on the night shift, and then Bellos would substitute him.



 Intended: He arranged the work of the watchman. Anders was on the first shift, he was on the night shift, and then Bellos would substitute him.

每隔	幾	小時		就	有	[_{IN} —	個
mei-ge	ji	xiao-s	hi jiu	jiu	you	yi	ge
Every	few	hour		soon	have	one	CL
神清氣爽 shen-qing-qi-s refreshed	huang	的 de DE	僧侶 seng lu monk		來 lai come	<i>替換</i> ti huan substit	ute
[OUT 唱 到 dao sing to	<i>節疲力</i> jin-pi-l exhau	i-jin	的 de DE	那 na that	個。 ge CL		

• **Intended**: Every few hours, there will be a refreshed monk to substitute the one who has sung exhaustedly.



A continuum of volition

+ Volition



[AGENT 他] 必須有補充兵源替換[OUT前線疲憊不堪的士兵]。 He substitute the weary soldiers of the frontlines

AFFECTED AGENT [±VOL, +INST, +AFF]

由 [_{IN}貝羅士] 來 **替換** [_{OUT}他]。 Bellos would substitute him

INSTRUMENT [-VOL, +INST, +AFF]

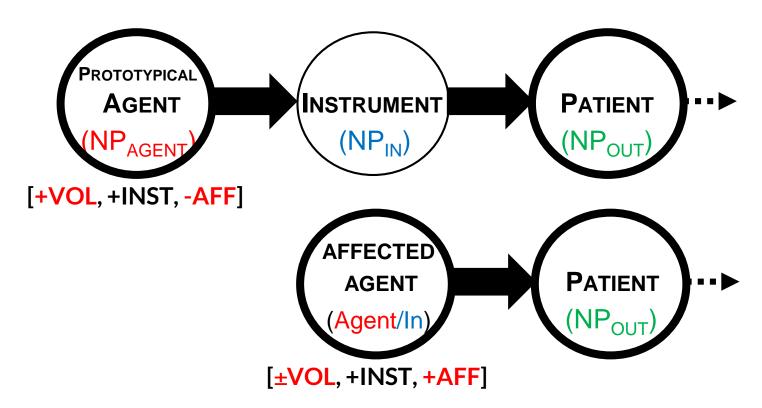
Ø用[_{IN}塑膠杯] **替換**[_{OUT}玻璃杯]。
Use a plastic cup to substitute the glass

- Volition

Two kinds of AGENT of SUBSTITUTE

What are the factors that divide the interpretation of *John* into the NP_{AGENT} and the NP_{IN}?

John substituted Bob in the second half.



'Affectedness' of AGENT

- - The 'AGENT' being affected could be less agentive because
 - another participant closer to the 'head' of the action chain may be implied
 - the 'AFFECTED AGENT' may not fully exercise its volition (e.g., following orders)

[IN Councillor Tiffany] is now **substituting** [OUT Councillor Kurtz] and may now take her full part in the meeting.

曲	[[貝羅士]	來	替換	[OUT他]。
you	bei-luo-shi	lai	ti-huan	ta
from	Bellos	come	substitute	3sg

Conclusion

- > 'Affectedness', to some extent, may relate to the degree of agentivity due to the possible reduce of volition
- ▶ In substitute and 替換(ti4haun4), 'affectedness' seems to be the factor relating to the agentivity of the 'AGENT'
- The 'AFFECTED AGENT' may be less agentive than the 'PROTOTYPICAL AGENT'
- Context and constructions also impact our interpretation of the NP at issue

Acknowledgement

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