Raising and Major Arguments

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Major Foci of the Talk:

- Properties of SOR in Korean (Japanese) Raising or not?
- The Major Subject raises in the Subject-to-Object Raising construction
- Movement vs. Base-generation analysis

1. The Role of the Major Subject in SOR in Korean (and Japanese):

1.1. Does Korean/Japanese Have Subject-to-Object Raising?

- 1a Cheli-nun Yenghi-**lul**/Yenghi-**ka** yengliha-ta-ko sayngkakha-n-ta C-top Y-acc/Y-nom smart-decl-comp think-prs-decl 'Cheli considers Yenghi to be smart.'
- 1b John believes (that) he/*him is innocent vs. John believes *he/him to be innocent

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Question: Is the alternation shown in (1a) analogous to that in (1b)? In other words, is there SOR (or ECM) in Korean (and Japanese)?

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Davies and Dubinsky (2004, chapter 10):

A number of constructions in different languages previously analyzed as involving SOR do not seem to be raising/ECM constructions, but something else. The Japanese SOR construction might not be a raising/ECM construction either.

Properties that suggest that the construction in (1) may be SOR:

- a. The raised nominal is Acc-marked.
- b. The Acc-marked nominal is not an argument of the raising verb.
- c. SOR is governed.
- d. The SOR nominal undergoes A-movement in the upstairs clause.
- e. Non-nominative embedded subjects can undergo raising.

Properties that suggest that the construction in (1) may not be SOR:

- f. Raising takes place from finite complement clauses.
- g. Accusative alternates with Nominative on the raised nominal.
- h. The raised nominal is not restricted to the subject of the embedded clause.
- i. The raised nominal can be coindexed with a resumptive element and the raised nominal can be associated with a gap inside an island.
- j. Idiom chunks lose idiomatic interpretation when raised. Raised and non-raised nominals differ interpretively.
- k. There are apparent cases of multiple raising (in Korean).

The above properties will be exemplified primarily on the basis of Korean. As is clear, they go significantly beyond those that have been identified in the extant literature.

1.2. Properties Suggesting That (1) Involves SOR:

A. The raised nominal is Acc-marked.

Cf. (1) above

B. The Acc-marked nominal is not an argument of the raising verb. That is the construction is distinct from the Object Control construction.

(i) The first argument showing that SOR is distinct from Object Control is based on the classical test of active-passive synonymy in clauses embedded under raising verbs. Actives and passives appear to be synonymous, though they clearly differ in focus/information structure.

Active-Passive pairs under SOR:

2.	Na-nun	i	cakka- lul	kwukpokwup	cakphwum-ul	manhi	mantunta-ko
	I-top			national.treasure	artwork-acc	a.lot	make-comp
	sayngka	khan	ta				
	think						
	=						
					2		
					3		

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?Na-nun kwukpokwup cakphwum-ul i cakka-eyuyhay manhi mantul-eci-nta-ko I-top national.treasure artwork-acc this artist-by a.lot make-pass-decl-comp sayngkakhanta think

Active-Passive pairs under Object Control:

3. Na-nun... I-top Yenghi-eykey/lul Cheli-lul pwutcap-ula-ko myenglyeng-ss-ta Y-dat/acc C-acc catch-imp-comp order-pst-decl =/= Cheli-eykey/lul Yenghi-eykey pwutcap-hi-la-ko myenglyenghay-ss-ta C-dat/acc Y-dat catch-pass-imp-comp order-pst-decl

(ii) The second argument is based on Tanaka (2002), who in turn follows Kuno (1976): while the clausal complement in Object Control can be clefted and preposed, that in SOR cannot.

4 a. *Cheli-ka	i chayk-ul sayr	ngkakha-nun ke	s-un
C-nom	this book-acc thin	k-adnom thi	ng-top
[e acwu	pissata]-nun	kes-i-ta	
very	expensive-adnom	thing-cop-decl	
b. Cheli-ka	Yenghi- eykey/lul	myenglyengha-	n kes-un
C-nom	Y-dat/acc	order-adnom	thing-top
[e cip-e	y ka-la]-nun	kes-i-ess-ta	
home	e-loc go-imp-adnom	thing-cop-pst-	-decl

5 a.*	-	acwu very	pissata]-l expensiv		na-nun I-top		nayk- ul bok-acc	sayngl think	kakhanta		
b.		cip-ey home-l	kala]-l oc go-cor			heli- eyke -dat/acc		myengly ordered	enghayssta	l	
coindex	ed wi	th a rais	ed subject	is a trace	e, PBC	will corre	ectly ru	ile out (4	at the emp a) and (4b are well-f). In contr	
			pose no sy l verbs:	ntactic c	or sema	ntic selec	ctional	restrictio	ns on the r	aised nom	inal,
6 a.	Na-r I-top		ki-pwuthe re-from-ac lul pe	ol-comp - lul na	y ter mah	ang-ila-ko rritory-co nta-ko t-comp		p	mitnunt think	a	
b.	Na-r	iun i	Cheli-eyk€	v/iui Ci	p-cy	ka-tolo	JK 5C.	ltukhays	sta		
	I-top		C-dat/acc tchayk-ey book-dat/	ho k ey/ul ca	ome-loc il ph	c go-con nalli-tolok e.sold-con	x^{-}	rsuaded			
	I-top		C-dat/acc chayk-ey book-dat/	ho k ey/ul ca	ome-loc il ph	c go-con nalli-tolok e.sold-cor	x^{-}	rsuaded			Vaar
Japanese/ (iv) Rai	I-top Korean sed N . This	Linguisti	C-dat/acc chayk-ey book-dat/ cs Workshop ot occur a	ho key/ul ca acc w	e compl	c go-con nalli-tolok e.sold-cor 5	raising	g verbs w	hen the clanission of		
Japanese/ (iv) Rai omitted complet 7 a. *	I-top Korean sed N . This ment:	<i>Linguisti</i> Ps canr contras	C-dat/acc chayk-ey book-dat/ cs Workshop ot occur a	hd key/ul ca acc w s the sole ject Con	complexity	c go-con nalli-tolok e.sold-cor 5	raising ta/mitn	g verbs w			plement is
Japanese/ (iv) Rai omitted complet 7 a. *	I-top Korean sed N . This ment: Na-nu I-top	<i>Linguisti</i> Ps canr contras in yel her	c-dat/acc chayk-ey book-dat/ cs Workshop ot occur a ts with Ob ci-pwuthe-	ho key/ul ca acc w s the sole ject Con lul/LA-lu c/LA-acc	compellor compelled complete trol ver al Δ seltukh	c go-con nalli-tolok e.sold-con 5 lement of rbs which mwuless	raising do allo ta/mitn lieve nyengl	g verbs w ow the or unta	nission of		plement is
Japanese/ (iv) Rai omitted complet 7 a. * b.	I-top Korean sed N . This ment: Na-nu I-top Na-ru I-top	Linguisti Ps canr contras in yel her un Ch	c-dat/acc chayk-ey book-dat/ book-dat/ cs Workshop ot occur a ts with Ob ci-pwuthe- e-from-ac eli-eykey/ lat/acc	ho key/ul ca acc w s the sole ject Con lul/LA-lu c/LA-acc	compellor compelled complete trol ver al Δ seltukh	c go-con halli-tolok e.sold-cor 5 lement of bs which mwuless asked/be hayss-ta/r	raising do allo ta/mitn lieve nyengl	g verbs w ow the or unta	nission of		plement is
Japanese/ (iv) Rai omitted compler 7 a. * b. C. SOR	I-top Korean sed N . This ment: Na-m I-top Na-r I-top R is 'g	Linguisti Ps canr contras in yel her bun Ch C-o	c-dat/acc chayk-ey book-dat/ book-dat/ cs Workshop ot occur a ts with Ob ci-pwuthe- e-from-ac eli-eykey/ lat/acc	hα key/ul ca acc w s the sole ject Con lul/LA-lu c/LA-acc ul Δ	complete complete trol ver al Δ seltukł persua	c go-con halli-tolok e.sold-cor 5 lement of bs which mwuless asked/be hayss-ta/r ded/order	Traising ta/mitn do allo ta/mitn lieve nyengl red	g verbs w ow the or unta	nission of		plement is

These two properties are cashed out in standard GB theory by assuming that only verbs that c-select **infinitival TP complements** (or **Small Clauses**) can participate in SOR/ECM And since Heads c-select Complements, SOR/ECM from adjunct or subject clauses is naturally ruled out. Other assumptions conspire to prevent raising out of/ECM into full CP complements.

SOR in Korean/Japanese is governed, but **the nature of 'governedness'** plays itself out differently than in English:

	guistics Workshop				
<u>#1. SOR is possi</u>	ble out of finite co	mplement CPs	<u>:</u>		
Cf. (1) abov	e and data below				
			1		
Reduced (Small)	Clauses also allow	v SOR in Korea	an, but we will not be c	oncerned with them.	
10.11		1.1.1	1 1 00	D	
<u>72. However, no</u>	t all verbs which c	-select clausal (complements allow SO	<u>K:</u>	
8. Cheli-nun C-top	i chayk- ul pi this book-acc ex		` 1	plement)	
	sayngkakha-n-ta/ think-prs-decl/be				
	? malhay-ss-ta/?tan say-pst-decl/deter				
?	solichi-ess-ta/??c?c shout-pst-decl/ar				
9. Cheli-nun C-top	i chayk- ul this book-acc		(V-nya-ko compleme	ent)	
?	?kaps-i pissa- ny price-nom expen		mwul-ess-ta p ask-pst-decl		
?					
?			p ask-pst-decl		
?			p ask-pst-decl		
	price-nom expen		p ask-pst-decl		Yoon
	price-nom expen	sive-inter-com	p ask-pst-decl		Yoon
	price-nom expen guistics Workshop *?micey-i-nci US-made-cop-i	sive-inter-com	p ask-pst-decl 7 mhayhay-ss-ta/uysimha	ĺ	Yoon
Japanese/Korean Ling 10. Cheli-n	guistics Workshop *?micey-i- nci US-made-cop-i un i chayk- ul this book-acc *kaps-i piss	kwungku kwungku int wonder-p 	p ask-pst-decl 7 mhayhay-ss-ta/uysimha st-decl/suspect-pst-decl	mplement)	Yoon
Japanese/Korean Ling 10. Cheli-n	guistics Workshop *?micey-i-nci US-made-cop-i un i chayk-ul this book-acc *kaps-i piss price-nom exp *kaps-i pi	sive-inter-comj kwungku int wonder-p ia- n ensive-adnom issa- m -ul	p ask-pst-decl 7 mhayhay-ss-ta/uysimha st-decl/suspect-pst-decl (V-nominalized co kes -ul molu-n-ta	mplement)	Yoon
Japanese/Korean Ling 10. Cheli-n	guistics Workshop *?micey-i-nci US-made-cop-i un i chayk-ul this book-acc *kaps-i piss price-nom exp *kaps-i pi	sive-inter-comj kwungku int wonder-p ia- n ensive-adnom issa- m -ul	p ask-pst-decl 7 mhayhay-ss-ta/uysimha st-decl/suspect-pst-decl (V-nominalized con kes -ul molu-n-ta fact-acc not.know-prs a-n-ta acc know-prs-decl pala-n-ta	mplement) s-decl	Yoon
lapanese/Korean Ling 10. Cheli-ni C-top	guistics Workshop *?micey-i-nci US-made-cop-i un i chayk-ul this book-acc *kaps-i piss price-nom exp *kaps-i pi price-nom exp *kaps-i pi price-nom exp *kaps-i pi	kwungku kwungku int wonder-p a- n ensive-adnom issa- m -ul xpensive-nml-a ssa- ki -lul cheap-nml-aco	p ask-pst-decl 7 mhayhay-ss-ta/uysimha st-decl/suspect-pst-decl (V-nominalized con kes -ul molu-n-ta fact-acc not.know-prs a-n-ta acc know-prs-decl pala-n-ta	mplement) s-decl allie-cwu-ess-ta	Yoon

#3. The embedded predicate is restricted:

SOR is optimal with embedded predicates that are **Individual-level** (vs. **Stage-level**, J-S Lee 1992 claims it is Stativity that is relevant). However, Stage-level intransitives and transitive predicates are

allowed	
	so long as entire embedded clause can be considered 'semantically stative' or
	terizing' with respect to the raised nominal (J-M Yoon 1989; K-S Hong 1997).
Embe	dded Individual-level intransitives:
	heli-nun tolkolay- lul (phoyutongmwul-ila-ko) sayngkakha-n-ta
	-top dolphin-acc mammal-cop-decl-comp think-prs-decl
	yengliha-ta-ko
	smart-prs-decl
	()
Embe	dded Stage-level intransitives:
-	heli-nun *?tolkolay- lul (poin-ta-ko) sayngkakha-n-ta
	visible-decl-comp think-prs-decl
	mwul-eyse ttwie olu-ss-ta-ko
	water-from jump come-pst-decl-comp
	VS.
С	heli-nun tolkolay- lul (cal caphi-n-ta-ko)saynghakha-n-ta
С	-top dolphins-acc easily be.caught-prs-decl-comp (think-prs-decl
	salam-kwa cal chinhayci-n-ta-ko
	people-with well befriend-prs-decl-comp
	dded transitives:
14. C	heli-nun (*?Yenghi- lul pap-ul cikum ha-n-ta-ko) sayngkakha-n-ta
	Y-acc meal-acc now do-prs-decl-comp think-prs-decl
) *?Yenghi-lul achim-ey hwacang-ul hayssta-ko
	Y-acc morning-loc makeup-acc put.on-comp
	VS.
	9
ananoso/k	Korean Linguistics Workshon Yoon
apanese/I	Korean Linguistics Workshop Yoon
	Korean Linguistics Workshop Yoon Yheli-nun (Yenghi-lul pap-ul nul ha-n-ta-ko) sayngkakha-n-ta
С	
С	heli-nun Yenghi- lul pap-ul nul ha-n-ta-ko sayngkakha-n-ta
С	heli-nun Yenghi- lul pap-ul nul ha-n-ta-ko -top Y-acc meal-acc always do-pr-decl-comp think-prs-decl
С	Cheli-nun Yenghi- lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp Yenghi- lul hangsang hwacang-ul cinhakey
С	Cheli-nun Yenghi- lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp Yenghi- lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely
С	Cheli-nun E-top Y-acc meal-acc always do-pr-decl-comp Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko
С	Cheli-nun E-top Y-acc meal-acc always do-pr-decl-comp Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko
C	Cheli-nun E-top Y-acc meal-acc always do-pr-decl-comp Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko
C	Cheli-nun Yenghi- lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp Yenghi- lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp
C C D. The S <u>Passiv</u>	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp sayngkakha-n-ta Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp SOR-ed nominal can undergo A-movement in the matrix clause. 2000
C C	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp SOR-ed nominal can undergo A-movement in the matrix clause. SOR-ed nominal can undergo
C C D. The S <u>Passiv</u>	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp sayngkakha-n-ta Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp SOR-ed nominal can undergo A-movement in the matrix clause. 2000
C C D. The S <u>Passiv</u>	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp sayngkakha-n-ta Y-acc always make.up-acc extremely ha-ko think-prs-decl Na-ko taninta-ko put.on-comp go.around-comp sayngkakhay-ss-ta SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta
C C D. The S <u>Passiv</u> 15a.	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp sayngkakha-n-ta Y-acc always make.up-acc extremely ha-ko think-prs-decl Na-ko taninta-ko put.on-comp go.around-comp sayngkakhay-ss-ta SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta
C C D. The S <u>Passiv</u> 15a.	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp sayngkakha-n-ta Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta /e: Salamtul-un Yengswu-lul han-ttay chencay-la-ko sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl
C C D. The S <u>Passiv</u> 15a.	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp SOR-ed nominal can undergo A-movement in the matrix clause. Ze: Salamtul-un Yengswu-lul han-ttay chencay-la-ko sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl ?Yengswu-kai han-ttay (caki chinkwutul-eykey-nun) ei chencay-la-ko
C C D. The S <u>Passiv</u> 15a.	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta Ze: Salamtul-un Yengswu-lul han-ttay chencay-la-ko sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl ?Yengswu-kai han-ttay (caki chinkwutul-eykey-nun) ei chencay-la-ko Y-nom once self friends-by-top genius-cop-comp
C C D. The S <u>Passiv</u> 15a.	Sorted nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta Sorted nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl Sorted nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl Program once genius-decl-comp think-pst-decl Synthesize sayngkakhay-ss-ta sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl Prom once self friends-by-top genius-cop-comp sayngkak-toy-ess-ess-ta
C C D. The S <u>Passiv</u> 15a.	Sorted nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta Sorted nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl Sorted nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl Program once genius-decl-comp think-pst-decl Synthesize sayngkakhay-ss-ta sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl Prom once self friends-by-top genius-cop-comp sayngkak-toy-ess-ess-ta
C C D. The S <u>Passiv</u> 15a. b.	Sheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko sayngkakha-n-ta Y-acc meal-acc always do-pr-decl-comp sayngkakha-n-ta Y-acc always make.up-acc extremely sayngkakha-n-ta ha-ko taninta-ko put.on-comp go.around-comp sayngkakhay-ss-ta SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp ?Yengswu-ka han-ttay chencay-la-ko sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl ?Yengswu-ka han-ttay (caki chinkwutul-eykey-nun) ei chencay-la-ko Y-nom once self friends-by-top genius-cop-comp sayngkak-toy-ess-ess-ta think-pass-prf-pst-decl (based on J-M Yoon 1991) Cenmwunkatul-un i cakphwum-ul han-ttay mocophwum-ila-ko sayngkakhayss-ess-ta
C C D. The S <u>Passiv</u> 15a. b.	Sheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko sayngkakha-n-ta Y-acc meal-acc always do-pr-decl-comp sayngkakha-n-ta Y-acc always make.up-acc extremely sayngkakha-n-ta ha-ko taninta-ko put.on-comp go.around-comp sayngkakhay-ss-ta SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp ?Yengswu-ka han-ttay chencay-la-ko sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl ?Yengswu-ka han-ttay (caki chinkwutul-eykey-nun) ei chencay-la-ko Y-nom once self friends-by-top genius-cop-comp sayngkak-toy-ess-ess-ta think-pass-prf-pst-decl (based on J-M Yoon 1991) Cenmwunkatul-un i cakphwum-ul han-ttay mocophwum-ila-ko sayngkakhayss-ess-ta
C C D. The S <u>Passiv</u> 15a. b.	Cheli-nun (-topYenghi-lul (Y-acc (Yenghi-lul hangsang hacac (Yenghi-lul hangsang hangsang hwacang-ul (inhakey (Y-acc always make.up-acc extremely ha-ko (put.on-comp go.around-compsayngkakha-n-ta think-prs-declSoR-ed nominal can undergo A-movement in the matrix clause.Sor-ed (Sor-ed nominal can undergo A-movement in the matrix clause.Ze: Salamtul-un People-top Y-acc Nonce Self friends-by-top sayngkak-toy-ess-ess-ta think-pass-prf-pst-decl (based on J-M Yoon 1991)sayngkakhay-ss-ta (caki chinkwutul-eykey-nun) ei chencay-la-ko genius-cop-comp sayngkak-toy ess-ess-ta think-pass-prf-pst-declCenmwunkatul-un i cenmwunkatul-un cenmwunkatul-un i i cenmwunkatul-un i i cenmwunkatul-un i i cenmwunkatul-un i i base-cop-comp i base-cop-comp i this work-acc i once i fake-cop-comp i think-pass-prf-pst-decl
C C C D. The S Passiv 15a. b. 16a.	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Wanghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp sayngkakha-n-ta think-prs-decl SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl ?Yengswu-ka, han-ttay (caki chinkwutul-eykey-nun) e, chencay-la-ko Y-nom once self friends-by-top genius-cop-comp sayngkak-toy-ess-ess-ta think-pass-prf-pst-decl (based on J-M Yoon 1991) Cenmwunkatul-un i cakphwum-ul han-ttay mocophwum-ila-ko sayngkakhayss-ess-ta experts-top this work-acc once fake-cop-comp think-pst-decl
C C C D. The S Passiv 15a. b. 16a.	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp sayngkakha-n-ta think-prs-decl SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta Yee: Salamtul-un Yengswu-lul han-ttay chencay-la-ko sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl ?Yengswu-ka; han-ttay (caki chinkwutul-eykey-nun) e; chencay-la-ko Y-nom once self friends-by-top genius-cop-comp sayngkak-toy-ess-ess-ta think-pass-prf-pst-decl (based on J-M Yoon 1991) Cenmwunkatul-un i cakphwum-ul han-ttay mocophwum-ila-ko sayngkakhayss-ess-ta experts-top this work-acc once fake-cop-comp think-pst-decl ?I cakphwum-un; han-ttay (cenmwunkatul-eykey) e; mocophwum-ila-ko this work-top once (experts-dat)
C C D. The S Passiv 15a. b. 16a.	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp sayngkakha-n-ta think-prs-decl SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta See: Salamtul-un Yengswu-lul han-ttay chencay-la-ko sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl ?Yengswu-ka, han-ttay (caki chinkwutul-eykey-nun) e, chencay-la-ko Y-nom once self friends-by-top genius-cop-comp sayngkak-toy-ess-ess-ta think-pass-prf-pst-decl (based on J-M Yoon 1991) Cenmwunkatul-un i cakphwum-ul han-ttay mocophwum-ila-ko sayngkakhayss-ess-ta experts-top this work-acc once fake-cop-comp think-pst-decl ?I cakphwum-un, han-ttay (cenmwunkatul-eykey) e, mocophwum-ila-ko this work-top once (experts-dat) fake-cop-comp
C C C D. The S Passiv 15a. b. 16a.	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp sayngkakha-n-ta think-prs-decl SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta Yee: Salamtul-un Yengswu-lul han-ttay chencay-la-ko sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl ?Yengswu-ka; han-ttay (caki chinkwutul-eykey-nun) e; chencay-la-ko Y-nom once self friends-by-top genius-cop-comp sayngkak-toy-ess-ess-ta think-pass-prf-pst-decl (based on J-M Yoon 1991) Cenmwunkatul-un i cakphwum-ul han-ttay mocophwum-ila-ko sayngkakhayss-ess-ta experts-top this work-acc once fake-cop-comp think-pst-decl ?I cakphwum-un; han-ttay (cenmwunkatul-eykey) e; mocophwum-ila-ko this work-top once (experts-dat)
C C C D. The S Passiv 15a. b. 16a.	Theli-nun Yenghi-lul pap-ul nul ha-n-ta-koo Y-acc meal-acc always do-pr-decl-comp Y-acc always make.up-acc extremely Y-acc always make.up-acc extremely Y-acc always make.up-acc extremely Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp SoR-ed nominal can undergo A-movement in the matrix clause. matrix ge. Salamtul-un Yengswu-lul han-ttay chencay-la-ko sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl ?Yengswu-kai han-ttay (caki chinkwutul-eykey-nun) ei chencay-la-ko Y-nom once self friends-by-top genius-cop-comp sayngkak-toy-ess-ess-ta think-pass-prf-pst-decl (based on J-M Yoon 1991) cenmwunkatul-un cakphwum-ul han-ttay mocophwum-ila-ko sayngkak-toy-ess-ess-ta experts-top this work-acc once fake-cop-comp sayngkak-toy-ess-ess-ta
C C D. The S Passiv 15a. b. 16a.	Cheli-nun Yenghi-lul pap-ul nul ha-n-ta-ko Y-acc meal-acc always do-pr-decl-comp Yenghi-lul hangsang hwacang-ul cinhakey Y-acc always make.up-acc extremely ha-ko taninta-ko put.on-comp go.around-comp sayngkakha-n-ta think-prs-decl SOR-ed nominal can undergo A-movement in the matrix clause. sayngkakhay-ss-ta See: Salamtul-un Yengswu-lul han-ttay chencay-la-ko sayngkakhay-ss-ta People-top Y-acc once genius-decl-comp think-pst-decl ?Yengswu-ka, han-ttay (caki chinkwutul-eykey-nun) e, chencay-la-ko Y-nom once self friends-by-top genius-cop-comp sayngkak-toy-ess-ess-ta think-pass-prf-pst-decl (based on J-M Yoon 1991) Cenmwunkatul-un i cakphwum-ul han-ttay mocophwum-ila-ko sayngkakhayss-ess-ta experts-top this work-acc once fake-cop-comp think-pst-decl ?I cakphwum-un, han-ttay (cenmwunkatul-eykey) e, mocophwum-ila-ko this work-top once (experts-dat) fake-cop-comp

Note:

(15b) cannot be accounted for by assuming that *Yenghi-ka* has scrambled out of the (passivized) embedded clause. The first consideration against this analysis is that subjects don't scramble.

Three other facts support our assumption that the raised nominal has undergone Passive. One, *Yenghi-ka* binds an anaphor in the Agent phrase, indicating that it is in an A (hence, Subject) position. Two, if the entire clause underwent passive, the clause should be nominalized, since sentential subjects are uniformly nominal in Korean. Unless we assume that passive is impersonal (that is, without movement), we cannot explain why the clause is not nominalized. Three, the embedded subject position can be filled by a resumptive element. This should not be possible if *Yenghi-ka* has scrambled out of the clause, since scrambling does not allow resumptive pronouns (Saito 1985).

An adversity passive analysis, such as that proposed for Japanese (Kuno 1976. See Davies and Dubinsky 2004:260ff for discussion), is not viable either, since Korean does not possess adversity passives.

A-scrambling (Tanaka 2002; Bruening 2000, 2001)

17a.	*?caki	sensayngnim-i	ku	haksayng-ul	papo-la-ko	sayngkakhanta
	self	teacher-nom	that	student-acc	fool-cop-comp	thinks

b. ku haksayng-ul caki sensayngnim-i papo-la-ko sayngkakhanta that student-acc self teacher-nom fool-cop-comp thinks

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E. Non-nominative embedded Subjects can undergo SOR (yielding Case Stacking).

18a.		Cheli-hanthey-man- ul C-dat-only-acc	ton-i money-nom		sayngkakhanta (SOR) think
	vs.				
b.	Na-nun	Cheli-hanthey-man-(i)	ton-i	manhta-ko	sayngkakhanta (no SOR)
	I-top	C-dat-only-(nom)	money-nom	a.lot-comp	think

While the evidence seen thus far is suggestive of the existence of SOR, additional properties of SOR in Korean (and Japanese) seem to suggest otherwise.

1.3. Properties Suggesting That (1) May Not Be SOR:

F. Raising takes place from unreduced, finite, clauses.

Numerous examples

G. Accusative alternates with Nominative on the raised nominal. That is, SOR seems to be optional.

(1) and numerous examples

H. Embedded non-subjects can raise (Yoon 1987; K-S Hong 1991, 1997; J-M Yoon 1991, *inter alia*).

Most commonly raised non-subjects are the initial, Nom-marked NP in different types of **Multiple Nominative Constructions** (MNCs), including 'scene-setting' adverbial NPs.

19. First Nom-NP in Inalienable Possession-type MNC: Na-nun Cheli-lul meli-ka coh-ta-ko mit-nun-ta N-top C-acc head-nom good-decl-comp believe-prs-decl cf. Cheli-ka meli-ka coh-ta C-nom head-nom good-decl 20. First Nom-NP in Focus-type MNC: Na-nun I-top Cheli-lul kos tani-nun hoysa-ka mangha-lkes-ila-ko (ku-ka) C-acc soon (he-nom) work-adnom company-nom go.under-fut-decl-comp mit-nun-ta believe-prs-decl cf. Cheli-ka kos (ku-ka) tani-nun hoysa-ka mangha-lkes-ita C-nom soon he-nom work-adnom company-nom go.under-fut-decl

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21. Scene-setting adverbial NPs in MNC: Na-nun LA-lul (mikwuk-eyse) hankwuksalam-i kacang manhi sa-n-ta-ko I-top LA-acc US-loc Koreans-nom live-prs-decl-comp most many mit-nun-ta believe-prs-decl cf. LA-ka mikwuk-eyse hankwuksalam-i kacang manhi sa-n-ta LA-nom US-loc Koreans-nom most many live-prs-decl 22. Initial temporal adverbial NP in MNC: Na-nun ecey-lul ol-kyewul tulese kacang nalssi-ka chwuw-ess-ta-ko I-top yesterday-acc this-winter among most weather-nom cold-pst-decl-comp sayngkakha-n-ta think-prs-decl cf. Ecev-ka ol-kyewul tulese nalssi-ka kacang chwuw-ess-ta Yesterday-nom this-winter among weather-nom most cold-pst-decl

J-M Yoon (1991) and K-S Hong (1997) claim that even **embedded objects** can be raised. Since Accmarked objects can be scrambled out of the embedded clause, we need to find embedded dyadic predicates that do not assign Acc-case. If Acc-case is licensed on a fronted object in such clauses, we assume that it was due to SOR.

23. Raised objectsNa-nunkochungkenmwul-ulI-topskyscraper-accNY-locmostnumerous-compthink

cf. Na-nun New York-ey **kochungkenmwul-i/*ul** ceyil manhta-ko sayngkakhanta I-top NY-loc skyscraper-nom/*acc most numerous-comp think

In evaluating these examples, we need to make sure that the **stativity/characteristic property restriction** is maintained. The sentence is acceptable since 'NY having the largest number of (them)' could be a characteristic property felicitously predicated of the raised object 'skyscrapers'.

Additional examples of Object/Complement raising are given below:

1 10 01010							
24a.	Na-nun i sey-kwen-uy chayk-ul Kim-sensayngnim-kkey-man I-top this 3-cl-gen book-acc K-professor-hon.dat-only philyoha-(si)-ta-ko sayngkakhanta necessary-(sbj.hon)-decl-comp think						
a'.	Na-nun K-sensayngnim-kkey-man i sey-kwen-uy chayk-i/*ul I-top K-teacher-hon.dat-only this 3-cl-gen book-nom/*acc philyoha-(si)-ta-ko sayngkakhanta necessary-(hon)-decl-comp think						
b.	Na-nun ilen conglyu-uy chayk-ul kyoswutul-eykey-man I-top this kind-gen book-acc professors-dat-only philyohata-ko sayngkakhanta necessary-comp think						
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b'.	Na-nun kyoswutul-eykey-man ilen conglyu-uy chayk-i/*ul I-top professor-dat-only this kind-gen book-nom/*acc philoha-(si)-ta-ko sayngkakhanta necessary-(hon)-decl-comp think						
c.	Na-nun Swuni-lul ilen os-i cal ewullinta-ko sayngkakhanta I-top S-acc this.kind dress-nom well go.with-comp think						
c'.	Ilenos-iSwuni-eykey/*lulcalewullintathis.kinddress-nomS-dat/*accwellgo.with'This kind of dress goes well with Swuni.'						
d.	Na-nun Pwukhansan-ul mwul-i manhi nanta-ko sayngkakhanta I-top Mt. Pwukhan-acc water-nom a.lot flow-comp think						
ď.	Mwul-iPwukhansan-eyse/*ulmanhinantaWater-nomMt. Pwukhan-loc/*acca.lotflows						
Takano	Takano (2003) gives the following example from Japanese showing the raising of an embedded object:						
25a.	John-waMary-oBill-gahoreteiru-toomotteiruJ-topM-accB-nomis.in.love.with-compthinks						
b.	John-waBill-gaMary-ni/*ohoreteiru-toomotteiruJ-topB-nomM-dat/*accis.in.love.with-compthinks						

Japanese/Korean Linguistics Workshop Yoon I. Raising can relate the raised nominal to a constituent within an island. Raised nominals can bind resumptive pronouns. Na-nun Yenghi-lul_i [[e_i/kunye-ka e 26a. ha-nun] il]-i I-top Y-acc she-nom do-adnom work-nom mopemcek-ila-ko sayngkakhanta think exemplary-cop-comp b. Na-nun Cheli-lul hangsang kunyesek-i taytanhan malssengkkwuleki-la-ko C-acc always the.guy-nom extreme troublemaker-cop-comp I-top sayngkakhayssta thought J. Idiom chunks lose idiomatic interpretation under SOR. More generally, raised and non-raised nominals differ in their interpretive properties. Raised subject idiom chunks strongly tend to lose the idiomatic reading (J-S Lee 1992): 26. Hankwuksalamtul-un Koreans-top kochwu-ka mayp-ta-ko sayngkakha-n-ta \rightarrow idiomatic, literal cakun pepper-nom hot-decl-comp think-prs-decl small

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vs.

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cakun kochwu-**lul** mayp-ta-ko sayngkakha-n-ta \rightarrow *?idiomatic, literal small pepper-acc hot-decl-comp think-prs-decl

Idiomatic reading: 'short/little men, despite their height, are strong/tough'

27. Na-nun ... I-top pin swuley-**ka** ceyil yolanha-ta-ko sayngkakha-n-ta → literal, idiomatic empty cart-nom most noisy-decl-comp think-prs-decl vs.

pin swuley-lul ceyil yolanha-ta-ko $\dots \rightarrow$ literal, *?idiomatic empty cart-acc most noisy-decl-comp

Bruening (2000, 2001) reports that his Japanese informants allow idiomatic readings under raising, but my consultants (T. Nakamura, Y. Horikawa, K. Fujioka) gave conflicting judgments on the availability of the idiomatic reading in (28) below:

28. Taroo-wa ... T-top sono seezika-no kao-ga hiroi-to omotta \rightarrow literal, idiomatic policitian-gen face-nom wide-comp thought that vs. (orokanimo) hiroi-to omotta \rightarrow literal. ?idiomatic sono seezika-no kao-o policitian-gen face-acc (foolishly) wide-comp thought that

Idiomatic sense of X-no kao-ga hiroi = X is well-known

T. Nakamura and K. Fujioka (p.c.) also report that the idiomatic reading is hard to obtain in the following examples:

29. Hanako-wa ... H-top Taroo-no atama-o kata-sugiru-to omotta \rightarrow literal, *?idiomatic hard-exceed-comp thought T-gen head-acc vs. Taroo-no atama-ga kata-sugiru-to omotta \rightarrow literal, idiomatic head-nom hard-exceed-comp T-gen thought Idiomatic sense of X-no atama-ga kata-sugiru = X is stubborn 30. Hanako-wa ... H-top omotta \rightarrow literal. *?idiomatic Taroo-no kuti-o katai-to T-gen lips-acc hard-comp thought vs. Taroo-no kuti-ga katai-to omotta \rightarrow literal, idiomatic lips-nom hard-comp T-gen thought Idiomatic sense of X-no kuti-ga katai = X can be trusted with words A possible explanation of the differences in judgments among speakers between (25, 26) and (28-30) may be that the latter are not completely frozen sentential idioms. 19 Japanese/Korean Linguistics Workshop In addition to the lack/difficulty of idiomatic readings, raised and non-raised nominals differ interpretively in many other ways. #1. A raised indefinite strongly prefers a specific interpretation, unlike a non-raised one (J-M Yoon 1989): 31a. John-un icwung etten salam-ul ttokttokhata-ko sayngkakhanta J-top among.these clever-decl-comp thinks some person-acc

#Kulena silcey nwukwuninci moluko ku salam-i iss-ta But in.fact that person-nom who.cop.int not.know be-decl

etten salam-i sayngkakhanta b. John-un icwung ttokttokhata-ko thinks J-top among.these some person-nom clever-comp

Kulena silcey nwukwuinci moluko ku salam-i iss-ta But in.fact that person-nom who.cop.inter not.know be-decl

#2. The raised nominal can be used in contexts that demand a de re reading (O'Grady 1991; J-G Song 1994). A non-raised nominal is not felicitous in the same context.

In (32), the raised nominal can take scope over the matrix predicate yielding a *de re* reading (so that the existence of his wife is true only in the mind of the speaker), while in (33), it takes scope under the matrix predicate (and thus, the existence of his wife is true in the mind of John, yielding a *de se* reading).

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- 32. John-un caki anay-**lul** totwuk-i-la-ko sayngkakhay-ss-ta J-top self wife-acc thief-cop-decl-comp think-pst-decl <u>Context</u>: John hearing a sound outside his room, not knowing it is his wife
- John-un caki anay-ka totwuk-ila-ko sayngkakhay-ss-ta J-top self wife-nom thief-cop-comp think-pst-decl → Not felicitous in the same context

#3. Kuno (1976) argues that a raised QP may (marginally) take scope over a matrix QP subject, but an unraised QP cannot:

- 34a. Dareka-ga minna-o bakada-to omotteiru someone-nom everone-acc fool-comp thinks **?everyone > someone, someone > everyone**
 - b. Dareka-ga minna-ga bakada-to omotteiru someone-nom everyone-nom fool-comp thinks *everyone > someone, someone > everyone

#4. Raised QPs do not take scope below QPs in the embedded clause (Oka 1988, via Takano 2003):

35a. Mary-wa sannin-no gakusei-**ga** subete-no sensei-ni syookais-are-ru M-top three-gen student-nom all-gen teacher-to introduce-pass bekida-to omotteiru should-comp thinks **three > every, every > three**

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 Mary-wa sannin-no gakusei-o subete-no sensei-ni syookais-are-ru M-top three-gen student-acc all-gen teacher-dat introduce-pass bekida-to omotteiru should-comp thinks three > every, *every > three

#5. Reconstruction for variable binding is unavailable for raised subjects.

36a. Na-nun caki sensayng-uy chwuchense-**ka** citohaksayngtul-eykey I-top self teacher-gen letter-nom advisees-dat kakkak kongkay-toy-eyahanta-ko sayngkakhanta each release-pass-must-comp thinks

b. *Na-nun caki sensayng-uy chwuchense-**lul** citohaksayngtul-eykey I-top self teacher-gen letter-acc advisees-dat kakkak kongkay-toy-eyahanta-ko sayngkakhanta each release-pass-must-comp thinks

What **#1 - #5** demonstrate is that the raised nominal fails to take scope below embedded clause constituents and can take scope over matrix constituents, unlike non-raised subjects. However, as the availability of *de dicto* reading (contra Takano) in (32a) and (33b) shows, it is not the case that the raised nominal must take the widest possible scope in the matrix clause (that is, scope over the matrix clause predicate).

K. More than one embedded constituent can be marked Acc (in Korean).

When there is multiple raising, all of the Acc-marked constituents are outside the embedded clause. There are conflicting claims about multiple SOR, with some rejecting it (J-M Yoon 1989). However, I think there are acceptable examples:

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37a. ?Na-nun Cheli-lul apeci-lul pwuca-la-ko mit-nun-ta C-acc father-acc rich-decl-comp believe-prs-decl I-top b. ?Na-nun haksayngtul-**ul** seys-ul ttokttokha-ta-ko sayngkakha-n-ta students-acc think-prs-decl I-top three-acc smart-pst-decl c. ?Na-nun ku kwaswuwon-**ul** kwail-**ul** phwumcil-i wuswuhata-ko that orchard-acc fruit-acc quality-nom excellent-comp I-top sayngkakha-n-ta (K-S Hong 1997:426) think-prs-decl Other examples don't sound too good, however: 38a.*?Na-nun LA-lul mikwuk-eyse hankwuksalam-ul ceyil manh-ta-ko LA-acc US-loc I-top Koreans-acc most a.lot-decl-comp sayngkakha-n-ta think-prs-decl b.*?Na-nun New York-ul kochungkenmwul-ul manh-ta-ko sayngkakha-n-ta NY-acc a.lot-decl-comp think-prs-decl I-top skyscraper-acc 23 Japanese/Korean Linguistics Workshop Yoon c. *?Na-nun Cheli-hanthey-lul ton-ul sayngkakha-n-ta manh-ta-ko think-prs-decl I-top C-dat-acc a.lot-decl-comp money-acc

Taking Stock:

The properties of Korean (and Japanese) SOR discussed in this section (section 1.3) appear problematic for the assumption that SOR is involved in (1). Indeed, Davies and Dubinsky (2004, chapter 10) argue against the existence of SOR in Austronesian and Philippine languages because the putative SOR constructions in these languages exhibit a number of properties discussed in this section.

Before launching the argument that the proper analysis of (1) is still Raising, I will shut down one possible alternative path – that of treating **Subject raising** vs. **Non-subject raising as two distinct constructions**, with only the former being SOR and the latter being something else. This path leads nowhere because with regard to applicable properties, sentences with raised non-subjects behave no differently from those with raised subjects, making this alternative difficult to maintain.

Thus, either both are Raising constructions or neither of them is. Properties of raised non-subjects are illustrated below.

Properties of the raised non-subject:

#1. The raised non-subject may be associated with a gap within an island, or bind a resumptive pronoun.

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39. Na-nun **Yenghi-lul**_i salamtul-i [[**e**_i/**kunye-ka** e ha-nun] il]-ul silhehanta-ko I-top Y-acc people-nom she-nom do-adnom work-nom hate-comp sayngkakhanta think

#2. Idiomatic readings are lost with raised non-subjects:

40. (Na-nun yeca-ka phwum-umyen) han-ul woman-nom vengeance-acc harbor-if I-top onvuwel-ul/ev-l seli-ka navli-n-ta-ko sayngkakha-n-ta May.June-acc/loc-acc frost-nom come-prs-decl-comp think-prs-decl cf. sayngkakha-n-ta onyuwel-ey/-?i seli-ka nayli-n-ta-ko May.June-loc frost-nom come-prs-decl-comp think

<u>#3. A-movement into the matrix clause is possible for raised non-subjects:</u> (J-M Yoon 1991)

49.	?I	chayk-i _i	olaytongan	(salamtul-eykey) t _i	[Hemingway-ka e _i	ssu-ess-ta-ko]
	This	book-nom	long.time	people-dat	H-nom	write-pst-decl-comp
	sayng	kak-toy-ess	s-ess-ta			
	think-	pass-pst-pe	erf-decl			

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#4. Non-nominative non-subjects can raise:

- 50a. ?Na-nun LA-**ey-(lu)l** hankwuksalam-i manh-ta-ko sayngkakhanta I-top LA-loc-acc Koreans-nom a.lot-decl-comp think
 - b.?Na-nun New York-**ey-(lu)l** kochungkenmwul-i manh-ta-ko sayngkakhanta I-top NY-loc-acc skyscrapers-nom a.lot-decl-comp think
 - c. ?Na-nun Kim-taythonglyeng-**eykey-man-ul** atultul-i mwuncey-ka manhta-ko I-top K-present-dat-only-acc sons-nom problem-nom a.lot-comp sayngkakhay-ss-ess-ta think-perf-pst-decl

#5. Scope and other interpretive properties of raised non-subjects are similar to raised subjects:

51a.	Na-nun sey-kwen-uy	chayk- ul enu	haksayngtul-eykey-na				
	I-top 3-cl-gen	book-acc which	students-dat-ever				
	philyoha-ta-ko	sayngkakhanta					
	necessary-decl-comp	think					
	three > every, *?every > three						

Na-nun enu haksayngtul-eykey-na sey-kwen-uy chayk-i
 I-top which students-dat-ever 3-cl-gen book-nom philyoha-ta-ko sayngkakhanta necessary-decl-comp think
 ?three > every, every > three

Because of their inherent theoretical interest, numerous researchers have investigated the SOR construction in Korean/Japanese within the generative tradition.

<u>Representative proposals for Korean</u>: J-M Yoon (1989, 1991); K-S Hong (1990, 1997); J-S Lee (1992); K-H Lee (1997)

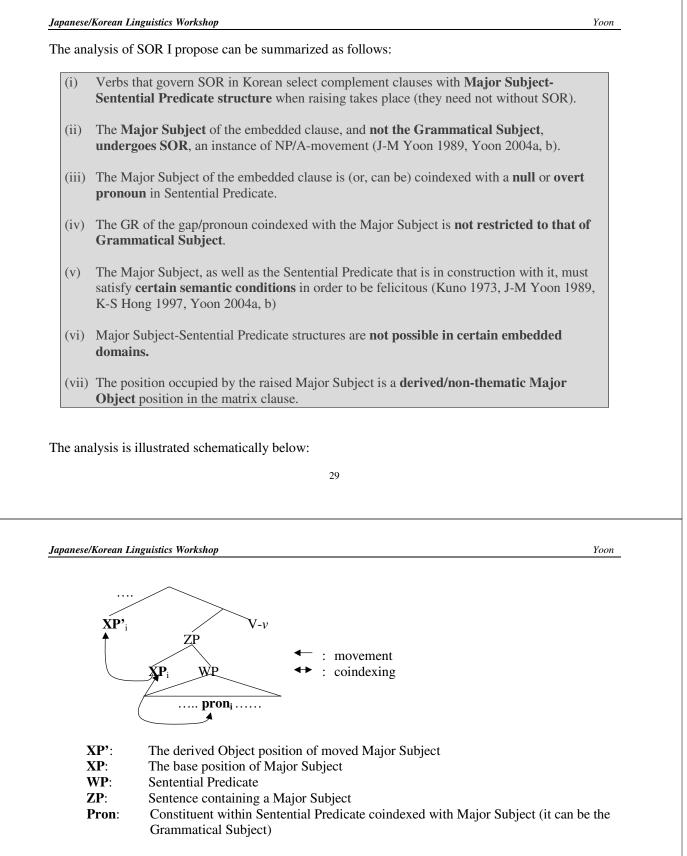
<u>Representative recent works on Japanese</u>: Bruening (2001a,b), Hiraiwa (2002) and Tanaka (2002), and Takano (2003)

However, despite offering valuable insights, many of these proposals fall short of providing a satisfactory account of the properties of SOR we observed in section 1. Often, problematic generalizations are ignored in order to streamline the analysis.

Of the many interesting proposals about Korean SOR to date, I think that the insights offered by J-M Yoon (1989) and K-S Hong (1990, 1997) constitute a significant advance over other proposals. The central observation that they make is the following:

There is a non-accidental correlation between the ability of a nominal to appear as the initial, 'Major Subject' of a Multiple Nominative Construction (MNC) and its ability to show up as the raised nominal in SOR.

A benefit of pursuing this line of analysis is that many of the properties that seem to suggest that Korean/Japanese SOR may not be a Raising construction (properties discussed in **1.3**) can be naturally accounted for.



(Details about the structure of ZP, the position of two subjects, and the derived object position will be discussed subsequently.)

2.1. Properties of SOR Deriving From Major Subject Raising:

Many of the observed properties of SOR in Korean (and Japanese) are attributable to the fact that the raised nominal is the Major Subject of the embedded clause. These include the following:

(i) Raising takes from finite complement clauses.

This is because a **Major Subject** (**MS**) requires a full clause (containing a **Grammatical Subject**, **GS**) as its **Sentential Predicate** (Yoon 2004a, b).

	John-i(MS) [_{SP} J-nom	apeci-ka(GS) father-nom	-	-	GS = Grammatical Subject SP = Sentential Predicate
53	Yelum-i(MS) [summer-nom	_{SP} maykcwu-ka beer-nom	u(GS)	mas-iss-ta tasty-decl]

Thus, the peculiarity of raising from finite embedded clauses owes in part to the fact that the raised embedded Major Subject is in construction with a full clause that functions as a predicate.

This is not unique to Korean/Japanese. There are additional examples of such 'Sentential Predicates' that serve as complement clauses in SOR constructions in other languages.

(ii) Raising appears to be a governed process.

There are several factors involved in 'governedness', as we saw earlier.

Now, if SOR verbs select Major Subject-Sentential Predicate structures when raising takes place and if this is a lexically determined property, we can understand why SOR is not possible from certain types of embedded clauses – the matrix verbs **do not select the right type of complement clause**.

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For example, we saw that verbs that select nominalized or interrogative complements do not allow SOR easily. The relevant examples are repeated below:

9.	i chayk- ul this book-acc	(V-nya-ko complement)
	??kaps-i pissa- nya-ko price-nom expensive-inter-	mwul-ess-ta comp ask-pst-decl
		mhayhay-ss-ta/uysimhay-ss-ta st-decl/suspect-pst-decl
10.	i chayk- ul this book-acc	(V-nominalized complement)
	*kaps-i pissa- n price-nom expensive-adnom	kes -ul molu-n-ta fact-acc not.know-prs-decl
	*kaps-i pissa- m -ul price-nom expensive-nml-a	a-n-ta acc know-prs-decl
	*?kaps-i ssa- ki -lul price-nom cheap-nml-acc	1

This aspect of 'governedness' can be attributed to the fact that **Major Subjects are marginal** in nominalized or interrogative complement clauses. Cf.

I-top cf.	Y-nom father-nom rich-comp fact]-acc not.know aux	
	[Yenghi-uy apeci-ka pwuca-in kes]-ul moluko issessta	
I-top	Y-gen father-nom rich-comp fact-acc not.know aux	
	[Yenghi-ka(MS) apeci-ka kasin kes]-ul palkyenhayssta	
I-top cf.	Y-nom father-nom gone fact-acc discovered	
b'. Na-nun I-top	[Yenghi-uy apeci-ka kasin kes]-ul palkyenhayssta Y-nom father-nom gone fact-acc discovered	
I-top	Y-nom father-nom rich-cop-inter-comp ask-pst-decl	
cf. b. Na-nun I-top	[Yenghi-uy apeci-ka pwuca-i-nka-ko] mwul-ess-ta Y-gen father-nom rich-cop-inter-comp ask-pst-decl	
-		
	difficulty of SOR correlates with the difficulty of having embedded Major Subjects, h can be accounted for if SOR targets embedded Major Subjects.	, a
n clause type ma	the entire story, however. The 'governed' nature of SOR extends beyond distinction arking (<i>nominalized</i> vs. <i>non-nominalized</i> ; <i>declarative</i> vs. <i>interrogative</i> , etc.) to the ambedded alouses, as the following (repeated from earlier) illustrates:	
predicate of the	embedded clauses, as the following (repeated from earlier) illustrates:	
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Embedded Ind 12. Cheli-nun	guistics Workshop Ya lividual-level intransitives:	'oon
Embedded Ind	<i>guistics Workshop Y</i> <u>lividual-level intransitives</u> : (tolkolay- lul phoyutongmwul-ila-ko dolphin-acc mammal-cop-decl-comp think-prs-decl yengliha-ta-ko	'oon
Embedded Ind 12. Cheli-nun	guistics Workshop Y. <u>lividual-level intransitives</u> : tolkolay- lul phoyutongmwul-ila-ko sayngkakha-n-ta dolphin-acc mammal-cop-decl-comp think-prs-decl	'oon
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Embedded Ind 12. Cheli-nun C-top Embedded Sta 13. Cheli-nun vs. Cheli-nun	guistics Workshop Ya lividual-level intransitives: intolkolay-lul phoyutongmwul-ila-ko sayngkakha-n-ta intolkolay-lul phoyutongmwul-ila-ko sayngkakha-n-ta think-prs-decl intolkolay-lul poin-ta-ko sayngkakha-n-ta think-prs-decl intervention poin-ta-ko sayngkakha-n-ta think-prs-decl intervention poin-ta-ko sayngkakha-n-ta think-prs-decl intervention poin-ta-ko sayngkakha-n-ta think-prs-decl intervention cal caphi-n-ta-ko saynghakha-n-ta	<u>'oon</u>
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Embedded Ind 12. Cheli-nun C-top Embedded Stag 13. Cheli-nun vs. Cheli-nun C-top Embedded tran	guistics Workshop Ya lividual-level intransitives: sayngkakha-n-ta a tolkolay-lul phoyutongmwul-ila-ko sayngkakha-n-ta dolphin-acc mammal-cop-decl-comp think-prs-decl yengliha-ta-ko smart-prs-decl sayngkakha-n-ta ge-level intransitives: poin-ta-ko sayngkakha-n-ta *?tolkolay-lul poin-ta-ko sayngkakha-n-ta mwul-eyse ttwie ollu-ess-ta-ko think-prs-decl * tolkolay-lul cal caphi-n-ta-ko saynghakha-n-ta dolphins-acc cal caphi-n-ta-ko saynghakha-n-ta a tolkolay-lul cal caphi-n-ta-ko saynghakha-n-ta geople-with well befriend-prs-decl-comp saynghakha-n-ta salam-kwa cal chinhayci-n-ta-ko people-with well people-with well befriend-prs-decl-comp saynghakha-n-ta nsitives:	' <u>oon</u>
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Embedded Ind 12. Cheli-nun C-top Embedded Stag 13. Cheli-nun vs. Cheli-nun C-top Embedded tran	guistics Workshop Y lividual-level intransitives: phoyutongmwul-ila-ko mammal-cop-decl-comp yengliha-ta-ko smart-prs-decl sayngkakha-n-ta think-prs-decl uge-level intransitives: poin-ta-ko visible-decl-comp mwul-eyse ttwie ollu-ess-ta-ko water-from jump come-pst-decl-comp sayngkakha-n-ta think-prs-decl u tolkolay-lul dolphins-acc cal caphi-n-ta-ko easily be.caught-prs-decl-comp salam-kwa cal saynghakha-n-ta think-prs-decl nsitives: f?Yenghi-lul pap-ul cikum sayngkakha-n-ta	<u>'oon</u>

Cheli-nun C-top	Yenghi- lul Y-acc Yenghi- lul Y-acc ha-ko	meal-acc hangsang	always hwacang make.up	g-ul	-decl-comp	sayngkakha-n-ta think-prs-decl ≻
	put.on-comp				J	

We argue that the sensitivity of SOR to embedded lexical predicates seen above is also attributable to the fact that embedded Major Subjects undergo SOR. The reasons are as follows:

The lexical property of embedded clause predicates is not at issue. Rather, SOR is optimal if the entire embedded clause can be construed as 'characterizing' with respect to the raised nominal.

This property can be easily understood if what undergoes raising is an embedded Major Subject that is in construction with a Sentential Predicate, for the 'characterizing' property is nothing other than a property that Sentential Predicates in non-SOR contexts must satisfy.

Major Subject as Categorical Subject:

The Major Subject is a subject of sentences expressing a **categorical judgment** (Kuroda 1992, Ladusaw 1994, Heycock and Doron 2003, Yoon 2004a, b). That the subject positions of sentences expressing categorical judgment are different (and higher than) those of sentences expressing thetic judgment is by now well-established (Diesing 1992, Kratzer 1995, Basilico 2003, *inter alia*).

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It is also well known that while lexically Individual-level predicates are associated with categorical judgments, sentences containing lexically Stage-level predicates can express categorical judgments under certain circumstances (Ladusaw 1994, Lambrecht 1994, Heycock and Doron 2003, Yoon 2004b).

The lexical predicate of the embedded clause (56a, b) is a Stage-level predicate. However, while the embedded clause of (56a) expresses a thetic judgment (with the plural subject interpreted existentially), that in (56b) expresses a categorical judgment (the subject interpreted generically).

We propose, following earlier researchers, that the difference is reflected in **the different syntactic positions of the subjects**, as schematically shown below:

56a. John-un	[tolkolay- ka (GS)	yeki-se	cikum	pointa	a-ko]	sayng	kakhanta
J-top	dolphins-nom	here-loc	now	visible	e-comp	think	
b. John-un	[tolkolay- ka i(MS)	[e _i yeki-se	cal	pointa	a-ko]]	sayng	kakhanta
J-top	dolphins-nom	here-loc	often	visible	e-comp	think	
c ??John-u J-top	un tolkolay- lul _i [t _i (dolphins-acc	GS) yeki-s outsic		ikum ow	pointa-k visible-c	-	sayngkakhanta think
d. John-un J-top	tolkolay- lul _i [t _i (MS dolphins-acc		i-se side-loc	cal often	pointa-k visible-c		sayngkakhanta think

(56c) shows that the embedded Grammatical Subject of a thetic sentence does not undergo SOR, while (56d) shows that the embedded Major Subject of a categorical sentence does.

In sum, 'governedness' of SOR – as manifested (i) in the selection of complement clause types and, (ii) in the restriction on embedded predicates/clauses – is attributable to the fact that what undergoes SOR is the embedded Major Subject (of a categorical judgment sentence).

We have chosen to express the difference between subjects of thetic and categorical sentences as a **difference in position**. While this interpretation of the thetic-categorical (stage-individual) distinction is by no means the only possible one, there is ample evidence that in Korean (and Japanese), the differences do correlate with position.

Straightforward evidence comes from sentences with two subject positions, which we turn to now. Further evidence comes from movement restrictions (to be discussed later).

(iii) Non-subject raising is possible (but more restricted than Subject raising).

We propose that there is **no raising of non-subjects in SOR**, despite appearance, and that the raising of apparent non-subjects is in fact the raising of the **Major Subject**. Since the Major Subject occupies the highest A-Specifier position of the embedded clause (J-M Yoon 1989; K-S Hong 1997), it can raise to the upstairs clause.

There is ample evidence that this is the right way to view non-subject raising.

(i) As shown earlier, many raised **non-subjects must be felicitous as the first constituent in a MNC** – namely, as a Major Subject.

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(ii) We propose that this is true even in sentences where Objects/Complements seem to have raised. That is, only those Object/Complements that are coindexed with Major Subjects appear to undergo raising. Those that are not cannot.

This proposal explains the following fact about non-subject raising.

Speakers in general are more reluctant to accept sentences involving Object/Complement raising than Subject raising. This fact can be attributed to the fact that **Major Subjects that bind an Object/non-Subject gap** (or a gap within a non-subject constituent, more generally) **are rare and licensed under more stringent conditions** than Major Subjects that bind (or bind into) the Grammatical Subject. This is shown below:

57a ?	?(Yenghi-k	a aniko)	Mary-ka _i (M	S) [s	_{SP} namhak	sayngtul-i	GS)	ei	yocum
	Y-nom	not	M-nom		male.stu	udents-nom	l		these.days
	salang-ey	ppaci	e-iss-ta]						
love-loc fall-prog-decl									
	'It is Mary	y, and not	t Yenghi that	the ma	ale studen	ts are deepl	y in l	ove	with these days.'
b.	??Pata-ka _i (sea-nom	(MS) [_S]	nointul-i(G elderly-nom	/ 1			nta](В-К	Kim 1996)
	'It is the s	ea that th	e elderly peo	ple alv	vays miss.				
с.	Ilen	chayk-i	(MS) [_{SP} sal	amtul-	i(GS) e	culkye	ilkn	unta	ι]
	this.kind	book-no	1	ople-no		enjoying	read	1	
	'This kind	l of book	, people enjoy	v readi	ng.'				

- d. Mikwuk-yenghwa-ka₁(**MS**) [$_{SP}$ salamtul-i(**GS**)) enu kukcang-eyse-na American-movie-nom people-nom which theater-loc-ever yocum swipkey e₁ po-l swu iss-ta/po-n-ta] these.days easily see-comp can be-decl/see-prs-decl 'American movies can be seen by people in any movie theater.'
- e. * Mikwuk-yenghwa-ka_1(MS) [$_{SP}$ John-i(GS) cikum ce kukcang-eyse American-movie-nom John-nom now that theater-loc
 - e₁ po-ko iss-ta]
 - see-comp be-decl

'It is an American movie that John is watching in that movie theater now.'

Yoon (2004b) details a number of factors that contribute to making such structures felicitous. Among such factors are:

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(a) Preference for **generic/habitual** versus episodic interpretation of Sentential Predicate

(b) Preference for the **lexical predicate** within the Sentential Predicate **to be Individual-level** predicate

(c) Preference for the Major Subject to be **more salient** than Grammatical Subject

These factors are shown most clearly by the contrast between (57d), containing an Individual-level Sentential Predicate interpreted generically and where the Grammatical Subject is low in salience, and (57e), containing an episodically interpreted Sentential Predicate whose lexical predicate is Stage-level where the Grammatical Subject is higher in salience than the Major Subject.

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Acceptable examples of non-subject raising satisfy these conditions stated above (examples repeated from earlier). In particular, the non-subject can always be expressed as a Major Subject (<u>note</u>: 24b,b' cannot be used to demonstrate this because the Object is Nom-marked without raising):

24b.	Na-nun ilen conglyu-uy chayk-ul kyoswutul-eykey-man I-top this kind-gen book-acc professors-dat-only philyohata-ko sayngkakhanta necessary-comp think
c.	Na-nunSwuni-lulilenos-icalewullinta-kosayngkakhantaI-topS-accthis.kinddress-nom wellgo.with-compthink
c'.	Ilenos-iSwuni-eykey/*lulcalewullintathis.kinddress-nomS-dat/*accwellgo.with
\rightarrow	Swuni-ka(MS)ilenos-icalewullintaS-nomthis.kindclothes-nomwellgo.with
d.	Na-nun Pwukhansan-ul mwul-i manhi nanta-ko sayngkakhanta I-top Mt. Pwukhan-acc water-nom a.lot flow-comp think
d'.	Mwul-iPwukhansan-eyse/*ulmanhinantaWater-nomMt. Pwukhan-loc/*acca.lotflows
\rightarrow	Pwukhansan-i(MS)mwul-imanhinantaMt. Pwukhan-nomwater-noma.lotflows

(iv) The raised nominal can be related to a gap or a resumptive pronoun/epithet, even **within an** island.

This is a consequence of the fact that the relationship between a Major Subject and a clause-internal gap/pronoun is not one of movement, but coindexation (Heycock & Doron 1999, Yoon 1987, 2004a,b, among many others)

Yoon

(v) Unlike English SOR, idioms fail to raise.

This can also be attributed to the fact that what raises is a Major Subject.

A Major Subject is the notional subject of a Sentential Predicate. As such, it doesn't make sense to say something about (attribute some property to) a Major Subject that fails to denote or otherwise sets conditions on reference.

For this reason, Yoon (2004a, b) suggest that Major Subjects must denote **'news-worthy'** entities. An idiomatic Major Subject stands in flagrant violation of this interpretive condition. Grammatical Subjects, by contrast, need not be 'news-worthy', as is well-known.

Therefore, while sentential idioms can be used as Sentential Predicates in MNCs, there are **no attested examples of MNCs where the Major Subject position is idiomatic**. This is shown below.

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58a.	Seoul-ey nwun-i mahni naylinta S-loc snow-nom a.lot falls						
b.	Seoul-i(MS) nwun-i mahni naylinta S-nom snow-nom a.lot falls						
59a.	(yeca-ka han-ul phwum-umyen) woman-nom vengeance-acc harbor-if						
	onyuwel-ey seli-ka naylinta May.June-loc frost-nom falls						
	?onyuwel-i(MS) seli-ka naylinta → *idiomatic, literal May.June-nom frost-nom falls						
60	Yengswu-ka(MS) [elkwul-i twukkepta]→ idiomatic, literal Y-nom face-nom thick						
61a.	Cakun kochwu-ka maypta small pepper-nom hot \rightarrow idiomatic, literal						
b.	Cakun kochwu-ka(MS)kkut-pwupwun-imayp-tasmallpepper-nomend-part-nomhot-decl \rightarrow *idiomatic, literal						

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It is not Topic Raising:

Now, while recognizing the similarity of Major Subjects and raised nominals, K-S Hong (1990, 1997) suggested that what raises in SOR is the **Topic** of the embedded clause, not the Major Subject. However, it can be shown that the Topic raising analysis is not tenable. This is because constituents that don't make good Major Subjects can be Topics:

62a.		MS)/ecey- nun (TC r-nom/yesterday-te			cohassta was.good	
b.	Na-nun I-top	ecey- lul yesterday-acc	nalssi-ka weather-nom			sayngkakhanta think
c. ?	•	MS)/ecey- nun (TC z-nom/yesterday-to		hakky schoo	vo-ey kass vl-loc wen	
d.	??Cheli-nu C-top	n ecey- lul yesterday-acc	•	kkyo-ey 1001-loc		
And ele	ements that	cannot be marked	l as Topics car	n nevert	heless raise:	
63a.		nwukwu- lul /* nun who-acc/-top	papola-ko fool-comp		kaka-ni? inter	
b. Nwukwu- ka/*nun papo-ni? Who-nom/top fool-int						
				43		
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(vii) The **interpretive differences** between raised and unraised nominals are due to the fact that what raises is the Major Subject.

In addition to the lack of idiomatic readings, other interpretive properties of the raised nominal may be blamed on its Major Subject status.

- (i) An indefinite prefers to be **interpreted specifically** in SOR contexts (31).
- (ii) Bare plurals tend to be interpreted generically under SOR (56).
- (iii) Raised nominals can be/are interpreted de re (32, 33)
- (iv) Raised nominals do not reconstruct into the Sentential Predicate for scope (35).
- (v) Raised nominals **do not reconstruct** into the Sentential Predicate for variable binding (36).

Now, these properties can also be attributed to the fact that the raised nominal is a Major Subject.

First, Major Subjects always take wider scope than constituents internal to the Sentential Predicate. This is so because the Major Subject is directly merged into its position rather than derived by movement from within the Sentential Predicate (and reconstruction is contingent on Chains).

The wide scope of the Major Subject over constituents within the Sentential Predicate is illustrated below:

64. sey-myeng-uy haksayng-i(MS) pwumo-ka(GS) enu kyoswutul-eykey-na three-cl-gen student-nom parents-nom which professor-dat-ever sokay-toy-ess-ta introduce-pass-pst-decl → three > every, *every > three

65a.	Motun haksayngtul-i(MS) khemphyute-ka kocangna-ss-ta Every student-nom computer-nom break-pst-decl → every > one, *one > every
b.	Motun haksayngtul-uy khemphyute-ka kocangna-ss-ta Every students-gen computer-nom break-pst-decl → every > one, one > every
	, indefinite and bare plural Major Subjects tend respectively to be interpreted as specific and , as shown below:
66a.	Etten haksayng-i(MS) apeci-ka acwu pwuca-ta certain student-nom father-nom very rich-decl
b.	Etten haksayng-uy apeci-ka acwu pwuca-ta certain student-nom father-nom veryrich-decl
67a. '	??Tolkolay-ka(MS) kkoli-ka ceki pointa!! Dolphins-nom tail-nom there visible
b.	Tolkolay-uy kkoli-ka(GS) ceki pointa Dolphins-gen tail-nom there visible
c.	Tolkolay-ka(MS) meli-ka yenglihata Dolphins-nom head-nom smart
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2.2. Remaining Properties:

We have seen that a number of properties of Korean/Japanese SOR that suggest that it may not involve SOR can be blamed on the fact that verbs which govern SOR select embedded clauses that have a Major Subject-Sentential Predicate structure where SOR targets the Major Subject.

Differences between K/J and English SOR not due to Major Subjects:

K/J SOR differ from English SOR in other ways. However, these differences may not be directly related to the fact that SOR targets embedded Major Subjects. They are:

- (i) Optionality of SOR
- (ii) TSC Violation
- (iii) Multiple Case-marking of raised nominal
- (iv) Non-string-vacuous raising
- (v) Multiple SOR

Optionality of SOR seems tied to the fact that the raised nominal in the embedded clause has Case. That is, movement is not triggered by lack of Case.

Optionality of movement ties in with **multiple case-marking**. As is well-known (Yoon 1996), A-Chains with Cases on more than one position exist robustly in languages like Korean. I will not have a lot to say about multiple case-marking here, but assume that it is possible in certain languages. Bejar and Massam (1999) develop a Minimalistic-sounding theory of multiple case assignment.

Non-string vacuousness of raising is simply due to the fact that SOR in Korean, like that in many other languages, does not work simply by (Long-Distance) Agree, but involves overt raising into the matrix clause.

Multiple SOR will be dealt with in the appendix (time permitting).

Shared properties of K/J and English SOR:

(vi) Raised nominal undergoes A-movement in the upstairs clause (vii)Verbs that govern SOR are distinct from Object Control verbs

Since SOR in Korean is A-movement, it is expected to 'feed' other instances of A-movement (Passive and A-Scrambling). And, while verbs governing SOR in Korean have a different selection than corresponding verbs in English, they are still not the same as Object Control verbs.

We now turn to a comparison of our analysis with some alternatives.

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3. The Raised Object Is Not Moved:

Or if it is, it is not derived by A-movement. If the construction in (1) is not SOR/ECM, what else could it be? The following possibilities have been suggested:

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<u>Object Co</u> John-un J-top		<i>ayngkakha-</i>): <x, b="" y,="" z<=""> [pro_i papo-la-ko] fool-cop-comp</x,>	sayngkakha-n-	ta			
John-un (Copy Raising (Prolepsis):A-STR(sayngkakha-): <x, z="">??John-un Cheli-eytayhay/luli[kunyesek-ii papo-la-ko] sayngkakha-n-taJ-topC-regarding/accthat.guy-nom fool-decl-comp think-prs-decl</x,>						
<u>A-bar mo</u> John-un J-top		bling): A-STR (<i>sayngi</i> papo-la-ko] sayn fool-cop-comp thin	ngkakha-n-ta				

We have already shown that SOR verbs are distinct from Object Control verbs (section 1.2. B).

The **A-bar movement** (Scrambling, since Topicalization was ruled out) analysis cannot account for the fact that SOR feeds A-movement in the upstairs clause. Neither can it account for interpretive differences between raised and unraised nominals. The restriction on embedded clause types and predicates cannot be accounted for either.

What remains is/are (variations on) the second alternative – Copy Raising.

3.1. The Copy Raising/Major Object Analysis:

Many of the properties of K/J SOR are compatible with an alternative analysis where **the raised nominal is base-generated** in the upstairs VP/clause **as a Major Object and directly binds** the gap/pronoun in the embedded clause -- **without the mediation of the Major Subject** position.

- (i) The lack of Subjacency (because the relation is not movement)
- (ii) The possibility of resumptive pronouns (same reason)
- (iii) Wide scope of the raised object (it is base-generated in the upstairs clause)
- (iv) Non-subject raising (control/coindexation is not restricted subjects)
- (v) Failure of idiom interpretation and interpretive differences between raised and unraised

subjects(base-generated SOR nominal is an argument of the raising verb).

Nevertheless, such an approach is not without problems. There is **one** salient difficulty with this type of **Copy Raising/Major Object/Prolepsis** analysis (Takano 2003). The problem is this – **how does the base-generated Object get its theta-role?**

Perhaps it doesn't, because it is an Adjunct. However, the raised nominal does not behave as an Adjunct, because it undergoes A-movement in the upstairs clause.

Therefore, it must be **argument-like** in some way. But how? Given standard assumptions (at least in P&P traditions) about semantic role assignment, it is not straightforward. The options are:

- (i) Theta-role transmission in a base-generated Chain (cf. Moore 1998; Rezac 2004)
- (ii) Theta-role from the Sentential Predicate
- (iii) Theta-role from the Sentential Predicate and matrix predicate

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Problems with (i):

Supposing that theta-role transmission in base-generated Chain exists, the conditions for such transmission are local (cf. Moore 1998; Rezac 2004). The gap/pronoun in the embedded clause is not local to the SOR nominal, however.

Problems with (ii) and (iii):

The SOR nominal is base-generated with matrix VP. So it should receive a role from the V as well as the Sentential Predicate. But the lack of selection between V and the SOR nominal shows this is not the case.

Another shortcoming of this kind of analysis (e.g., Hoji 1991, Takano 2003, K-S Hong 1990, though not K-S Hong 1997) is the following:

The conditions on Major Subject-Sentential Predicate structures must be **redundantly stated** as conditions on the base-generated Major Object in SOR constructions.

A third shortcoming of this approach is this:

It becomes **difficult to distinguish Object Control verbs and SOR verbs** (Hiraiwa 2002, Tanaka 2002, etc), though we have seen that they differ in terms of whether they assign a semantic role to the Object.

The problems so far are in part **theory-dependent**. We now turn to evidence that could be construed as empirical support for the hypothesis that the raised object is related to the embedded Major Subject by A-movement, rather than being base-generated and coindexed directly with an embedded clause constituent.

3.2 Evidence for Movement from Major Subject to Raised Object:

Proper Binding Condition Again:

The **first** argument is based on Tanaka (2002). Tanaka argues that preposing the complement clause in an SOR construction yields marginality because the empty category within it is a trace (of the raised subject) violating the **Proper Binding Condition (PBC)**. In contrast, in control complements, the EC is a PRO/pro, which does not violate the PBC. This accounts for the contrast between (68a) and (68b) shown below.

68a.??[t	ikicek-ila]-ko selfish-cop-coi		sayngkakhanta think
b. [pro	 y kala]-ko -loc go-comp	5 5	l seltukhayssta persuaded

Now, since Tanaka was assuming that the raised Object moves directly from within the embedded clause, if the gap position is filled by a pronoun, his analysis predicts that the PBC violation should disappear and the result of preposing the embedded clause should be grammatical. His analysis makes a similar prediction about the preposing of complement clauses that do not seem to contain a gap.

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However, these predictions are not borne out. Preposing the complement clause still results in ungrammaticality even when the complement clause contains a resumptive pronoun or appears to lack a gap altogether.

69a	??[t _i	[ku-ka he-nom		 na-nun I-top	lul_i sayng think	kakhanta
b		kakyek-i price-nom	1		• -	sayngkakhanta think
c ·		ankwuksa Koreans-nc	U		LA-lul _i LA-acc	50

Since we are assuming that a raised Object is always derived by movement, though the movement is from the embedded Major Subject position (indicated as 't' in the above examples), PBC will still rule out (69). This is then evidence that movement relates the SOR nominal to the Major Subject position.

Case Connectivity:

A second argument for supposing that the raised Object is related to the Major Subject by movement is that the raised Major Subject retains the case assigned in the embedded clause, as we saw earlier. Such **case connectivity** can be seen in case-stacked Major Subjects that undergo SOR in Korean (see Yoon 2004a for arguments that Nom-stacked constituents are Major Subjects):

Japanese/.	Korean Lin	guistics Workshop You	on
70a.	na-nun I-top	Cheli-hanthey-man-ul[t(MS)[emwuncey-kaissta-ko]]mitnuntaC-dat-only-accproblem-nomexist-compthink	
a'.	na-nun I-top	[Cheli- hanthey-man-i (MS) [e mwuncey-ka issta-ko]] mitnunta C-dat-only-nom problem-nom exist-comp think	
b.	na-nun I-top	yeki- pwuthe-lul [t(MS) [e nay ttang-ila-ko]] sayngkakhanta here-from-acc my land-cop-comp think	
b'.	na-nun I-top	[yeki- pwuthe-ka (MS) [e nay ttang-ila-ko]] sayngkakhanta here-from-nom my land-cop-comp think	
Locality	<u>/</u> :		
in Korea	an (and J	nt for the raising analysis comes from considerations of Locality. At first glance, SOI apanese) appears to flout all known constraints on A-movement – the Specified n (Relativized Minimality) as well as the Tensed-S Condition.	R
Howeve	er, under	the Major Subject raising analysis, neither of these conditions is violated:	
		ed – because only the highest Subject, the Major Subject, moves ed – because the Major Subject does not move out of a finite clause	
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mediati	on of the	e Major Object analysis might be unconvinced, since they do not assume the Major Subject and so locality is violated by the direct coindexation between the Maj mbedded clause constituent.	jor
		ent for raising can be formulated on the basis of the fact that embedded thetic subjectors, as we have seen:	ts
12. C		egorical/individual-level subjects: tolkolay- lul phoyutongmwul-ila-ko dolphin-acc yengliha-ta-ko smart-prs-decl smart-prs-decl	

Embedded thetic/stage-level subjects:	
13. Cheli-nun *?tolkolay-lul (poin-ta-ko)	sayngkakha-n-ta
visible-decl-comp	think-prs-decl
d mwul-eyse ttwie olu-ss-ta-ko	>
water-from jump come-pst-decl-comp	
vs.	
Cheli-nun tolkolay- lul cal caphi-n-ta-ko	saynghakha-n-ta
C-top dolphins-acc easily be.caught-prs-decl-comp salam-kwa cal chinhayci-n-ta-ko	think-prs-decl
salam-kwa cal chinhayci-n-ta-ko	
people-with well befriend-prs-decl-comp	J
-	

At first sight, this generalization actually appears to undermine the raising analysis of SOR, for the following reasons:

Since SOR verbs can also select embedded thetic clauses, and the subject (=Grammatical Subject) is the highest A-specifier in the embedded domain, why can't thetic subjects undergo SOR?

The selection of embedded thetic clauses by SOR verbs is shown below. The clause is interpreted episodically, and the bare plural subject can be interpreted existentially, all suggesting that the clause expresses a thetic judgment:

71. Cheli-nun [aitul-i pahk-eyse cikum nonta-ko] sayngkakhanta C-top children-nom outside-loc now play-comp thinks

Since non-thematic object positions exist, the lack of one cannot be the answer. Neither can we invoke case, since multiple case assignment is attested in the language. Short of a construction-specific stipulation, it is hard to prevent the embedded subject in (71) from undergoing SOR.

The problem here is similar to the problem of movement out of Small Clauses in English (Basilico 2003). As is well known, there are two types of SC's in English – **verbal** and **adjectival SC's**.

One difference between the two types if that only the subject of adjectival SCs can undergo A-movement.

72a. John was considered [sc t intelligent]

a'. We considered [sc John intelligent]

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b. *John was seen [_{SC} t leave the room]

b'. We saw [SC John leave the room]

Another difference between the two is that adjectival SCs express a categorical judgment, while verbal SCs express a thetic judgment.

What seems to be going on is that an embedded subject of categorical sentences can be A-moved while a subject of a thetic sentence cannot. The parallels between raising out of SCs and SOR in Korean should be obvious. The reason that the embedded subject cannot raise in (71) in Korean must be because it is a thetic subject.

The restriction is quite general. That is, even when a matrix predicate selects both types of SCs (as our SOR predicates allow both types of sentences), A-movement is possible only for the embedded subject of categorical SC:

- 73a. We made [John unhappy]
 - b. We made [John sweep the floor]
 - c. John was made [t unhappy] (by his friends)
 - d. *John was made [t sweep the floor] (by his mother)

Basilico's (2003) analysis recruits the different positions of two subjects and the assumption that even thetic sentences have a higher subject (a Stage Topic). For him, the reason for the failure of movement

This account fails to generalize to ECM into TPs, for which he incorporates additional assumptions. Rather than dwelling on the details, we turn to Korean/Japanese SOR. The inability of thetic subjects to undergo SOR is a straightforward consequence of movement locality – in particular, the locality of **Phases** and the **Phase Impenetrability Condition** (**PIC**, Chomsky 2001).

Let us consider the following structure:

73. VP V VP V V V V V V V V V V V V V	 	
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We are making the following assumptions:

(i) The Major Subject (categorical subject) is in the A-specifier of the highest f-projection. We call it MoodP for convenience. J-M Yoon (1991) suggests it is the A-specifier of CP; Tanaka (2002) makes a similar proposal. The highest f-head is a Strong Phase head (natural if it is CP).

(ii) The Grammatical Subject (thetic subject) is in a lower position, perhaps SpTP (if there is raising), or even lower (SpvP).

(iii) Raised nominals occupy SpVP (Johnson 1991) or some derived Object position

(iv) PIC – Phase heads can access the Edge of a lower Phase but not the c-domain of a lower phase head.

As you can tell, these assumptions suffice to rule out raising of the lower subject. The only way a lower, thetic, subject can undergo SOR is if it is in a higher subject position. Since by assumption the higher subject position is a categorical subject position, the Sentential Predicate (=TP) must have compatible properties.

The Major Object analysis does not have a natural way of accounting for these facts, other than to stipulate that the embedded clause must be construable as making a categorical predication on the base-generated Major Object.

In contrast, the Major Subject raising analysis reduces the difference to an independent locality constraint on Move/Agree.

Undaun	ted, the N	lajor Object	proponent	might respond	1:			
				t (Raising). (C argument for a			so subject	t to
Subject	t position ed Major	must be im	plicated. T	t Major Obje hat is, coinde lause and the o	xing (Contro	ol) must hol	d betwee	n the base-
74a.	Na-nun I-top sayngka think	skyscrapers		[pro _i (MS)	NY-loc	o i kacang most	manhta- numero	ko] us-comp
74b.	Na-nun I-top	kochungke skyscraper-		[NY-ey pi NY-loc	ro _i kacang most	manhta-ko numerous		ayngkakhanta nink
analysis	. It does,		knowledge					bubject raising et, which is one
De dicte	o vs. de re	e ambiguity:						
A well-l	known di	fference bet	ween Raisir	ng and Contro	l is the follo	wing ·		
A well-l	known di	fference bet	ween Raisir	ng and Contro	l is the follo	wing :		
A well-l	known di	fference bet	ween Raisir	ng and Contro	l is the follo	wing :		
A well-l	known di	fference bet	ween Raisir	-	l is the follo	wing :		
		fference bet		-	l is the follo	wing :		Yoon
	Korean Ling	uistics Worksho	op	-		wing :		Yoon
Japanese/1	Korean Ling A griffi → de re A griffi	uistics Worksho	op e lurking o	59		wing :		Yoon
Japanese/J 75a. b. Since M Now, if generate	Korean Ling A griffit → de re A griffit → de re Iay (1985 the raised ed) Objec	n seems to b , <i>de dicto</i> n tried to ge , * <i>de dicto</i>), this has be d Object is b t to scope be	pp te lurking of t to the top een tied to t ase-generate elow the int	59 n the top floor floor	between mo ix clause, w While the d	evement and ve do not exp le re reading	pect the r	vement (in part). aised (base-
Tapanese/ 75a. b. Since M Now, if generate readings Fhis is p	Korean Ling A griffin $\rightarrow de re$ A griffin $\rightarrow de re$ Iay (1985 the raised are not not possibly a	n seems to b , <i>de dicto</i> n tried to ge , <i>*de dicto</i>), this has be d Object is b t to scope be uled out wit	by the lurking of t to the top een tied to t ase-generate elow the int h SOR stru sation that n	59 n the top floor floor he difference red in the matr entional verb. ctures, as we s	between mo ix clause, w While the d saw earlier (tes the raise	evement and re do not ex le re readin cf. 32, 33).	pect the r g is possi	vement (in part). aised (base-
Tapanese/ 75a. b. Since M Now, if generate readings Fhis is I han the	Korean Ling A griffin $\rightarrow de re$ A griffin $\rightarrow de re$ lay (1985 the raised the raised boossibly a verb – the	n seems to b , <i>de dicto</i> n tried to ge , * <i>de dicto</i>), this has be d Object is b t to scope be ruled out wit mother indic	e lurking of t to the top een tied to t ase-generate elow the int th SOR stru station that n abedded Ma	59 n the top floor floor he difference ted in the matr entional verb. ctures, as we so	between mo ix clause, w While the d saw earlier (tes the raise osition.	evement and ve do not ex le re readin cf. 32, 33). d Object po	pect the r g is possi sition to	vement (in part). aised (base- ble, de dicto a position lower
<i>Japanese/</i> 75a. b. Since M Now, if generate readings This is I than the	Korean Ling A griffin $\rightarrow de re$ A griffin $\rightarrow de re$ Iay (1985 the raised ed) Objects are not not possibly a \rightarrow verb – the ar concluse	n seems to b , <i>de dicto</i> n tried to ge , * <i>de dicto</i>), this has be d Object is b t to scope be ruled out wit mother indic	p e lurking o t to the top een tied to t asse-generate elow the int h SOR stru vation that n bedded Ma drawn from n- ul to	59 n the top floor floor he difference ted in the mati entional verb. ctures, as we s novement rela ujor Subject po	between mo ix clause, w While the d saw earlier (tes the raise osition.	evement and re do not exp le re readin, cf. 32, 33). d Object po finites, discu	pect the r g is possi sition to	vement (in part). aised (base- ble, de dicto a position lower
<i>Japanese/</i> 75a. b. Since M Now, if generate readings This is p than the A simila	Korean Ling A griffin $\rightarrow de re$ A griffin $\rightarrow de re$ Iay (1985 the raised ed) Object s are not not possibly a everb – the ar concluse Na-nun I-top	n seems to b , <i>de dicto</i> n tried to ge , <i>*de dicto</i>), this has be d Object is b t to scope be uled out wit mother indic at is, the em- sion can be c etten salar some perso	e lurking or t to the top een tied to t ase-generate elow the int th SOR stru ation that n abedded Ma drawn from n- ul top on-acc this	59 n the top floor floor he difference ted in the matr entional verb. ctures, as we s novement rela ijor Subject po the interpreta twuk-ila-ko	between mo ix clause, w While the d saw earlier (tes the raise osition. tion of indef sayngkakl	ovement and re do not ex le re readin cf. 32, 33). d Object po finites, discu nanta	pect the r g is possi sition to	vement (in part). aised (base- ble, de dicto a position lower

77a. kyengchal-i myes-myeng-uy namca-**lul** peminila-ko tancenghayssni? (cf. Takano 2003) police-nom how.many-cl-gen man-acc culprit-comp conclude.int

b.	kyengchal-i	myes-myeng-uy	namca- ka	peminila-ko	tancenghayssni?
	police-nom	how.many-cl-gen	man-nom	culprit-comp	conclude.int?

While the **specific**, or **presuppositional**, reading of the indefinite is preferred in (76a), it is not the only reading. Likewise, the **presuppositional** reading of 'how many' is preferred in (77a) but the **cardinal** reading is not altogether out. These suggest reconstruction of the raised Object to a position lower than the matrix verb, which is a possibility that the Major Object analysis denies.

Summary:

Overall, the **PBC facts**, **Scope Reconstruction**, and **Case Connectivity** tip the balance in favor of the raising analysis, in my opinion – because these two are standard, theory-neutral, diagnostics of Raising vs. Control.

It is also unclear to me how a theory of Control could prevent the embedded Grammatical Subject (thetic subject) from being controlled by the base-generated Major Object.

These considerations, together with the difficulties of finding an appropriate way to assign a semantic/thematic role to the base-generated Major Object, argue in favor the Major Subject raising.

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4. Conclusion

In this presentation, we have argued for the following:

- SOR exists in Korean (and Japanese).
- What raises in SOR is the embedded Major (categorical) Subject.
- SOR is distinct from Object Control, Scrambling, Topicalization, or Major Object/Copy Raising.

The unusual properties of Korean/Japanese SOR are not that unusual once we adopt this analysis. In other work, I showed that K/J aren't the only languages where a constituent in construction with an embedded Sentential Predicate participates in SOR.

Some corollaries of the analysis are the following:

- A-movement is constrained by SSC/RM (and TSC), despite appearances to the contrary.
- Locality of Agree/Move is constrained by the PIC.
- The positions of subjects of categorical and thetic sentences are different.
- The Major Subject-Sentential Predicate structure (categorical sentences) plays a pervasive role in the syntax of Korean/Japanese.

Appendix: Multiple SOR

As we have seen, Korean allows multiple SOR. Japanese does not, given the famous 'Double-O Constraint' that prohibits more than one Accusative-marked nominal in a single clause. The Korean data are repeated below.

I-to	op C-acc father-acc that-person-nom rich-hon-decl-comp believe	
I-to	ngkakhanta	
I-to say	n-nun ku kwaswuwon- ul kwail- ul phwumcil-i wuswuhata-ko op that orchard-acc fruit-acc quality-nom excellent-comp ngkakha-n-ta (K-S Hong 1997:426) nk-prs-decl	
	ertion shows that all the Acc-marked constituents in the matrix clause. It also shows that the arked DPs do not form a constituent:	
(ii)Ch	eli- lul (papokathi) apeci-lul (papokathi) pwuca-si-la-ko	
C-	acc foolishly father-acc foolishly	
_		
_	acc foolishly father-acc foolishly	
_	acc foolishly father-acc foolishly ples of multiple SOR don't sound too good, however:	
Other exam	acc foolishly father-acc foolishly ples of multiple SOR don't sound too good, however: 63	
Other exam	acc foolishly father-acc foolishly ples of multiple SOR don't sound too good, however:	
Dther examp <i>apanese/Korea</i> (iii) a. *?Na-n I-top sayng	acc foolishly father-acc foolishly ples of multiple SOR don't sound too good, however: 63 <i>m Linguistics Workshop Yoon</i> un LA-lul (mikwuk-eyse) hankwuksalam-ul ceyil manh-ta-ko	
Dther examp <i>apanese/Korea</i> (iii) a. *?Na-ni I-top sayng think	acc foolishly father-acc foolishly ples of multiple SOR don't sound too good, however: 63 <i>In Linguistics Workshop Yoon</i> Un LA-lul (mikwuk-eyse) hankwuksalam-ul ceyil manh-ta-ko LA-acc US-loc Koreans-acc most a.lot-decl-comp gkakha-n-ta	

This seems to imply that in the sequence of multiply raised DPs, the final DP must be able to function as the Major Subject of the embedded clause (Sentential Predicate) in order for multiple SOR to take place.

argument of the embedded unaccusative predicate, such as a Nominative Object).

I assume that the preceding generalization indicates that only the last of the multiply Acc-marked DPs is raised from the embedded Major Subject position. Making this assumption will explain why, when the last DP cannot be construed as a Major Subject, multiple SOR is degraded.

With regard to the non-final Acc-marked DPs, I propose that they are base-generated as **Major Objects** in the matrix VP. Schematically:

(iv) $[_{VP} DP1[acc] [_{V'} DP2[acc]_i [_{V'} [_{MP} t_i [_{TP} \dots e_i \dots]] V]]]$...

Non-thematic Major Objects independently exist without raising in Korean, as the following examples show (see various references arguing that the multiple Accusative DPs are not derived by movement but base-generated):

- (v)a. John-un cemsim-ul spaghetti-lul twu-kulus-ul mek-ess-ta J-top lunch-acc spaghetti-acc two-bowls-acc eat-pst-decl 'For lunch, John had two bowls of spaghetti.'
 - b. John-un Yenghi-**lul** phal-**ul** pwuthcap-ass-ta J-top Y-acc arm-acc catch-pst-decl 'John grabbed Yenghi by the arm.'

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