WONDo 2022

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Reexamining Sources of Variation in Adjective Ordering

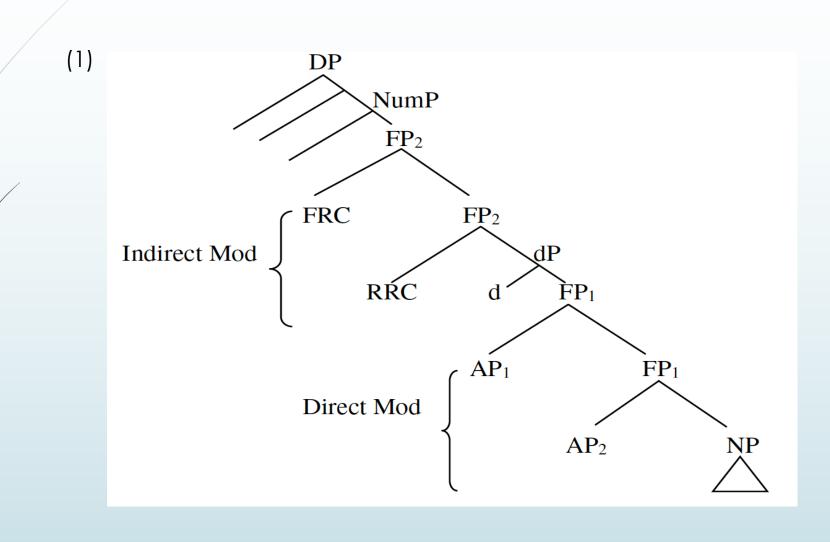
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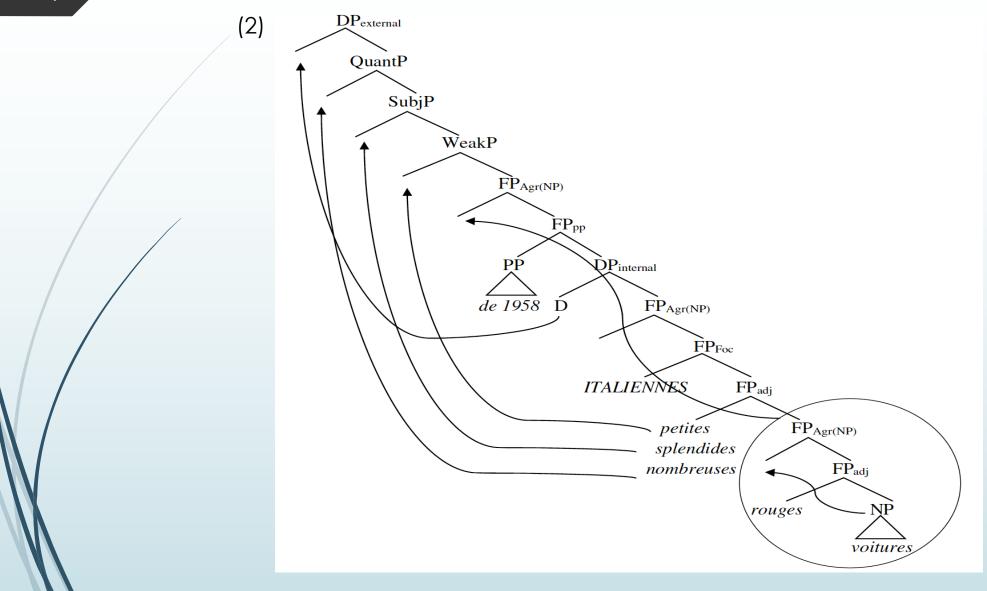
Prevailing approaches to adjective ordering (AO) in generative grammar

- Split-DP combined with roll-up movements: e.g., Cinque 2010, Laenzlinger 2005, Svenonius 2008, Kim 2019.
- Guiding insights:
 - Dem > Num > Adj > N (Greenberg 1963, Cinque 2005)
 - Referent- vs. Reference-modifying Semantics (Bolinger 1967)
 - Relative vs. Absolute Semantics (Sproat & Shih 1988, 1990)
 - Indirect vs. Direct Modification (Sproat & Shih 1988, 1990)
 - NP-outer vs. NP-inner Space (Larson 1998, 2000)
 - Location > Quantity > Quality (Rijkhoff 2002)

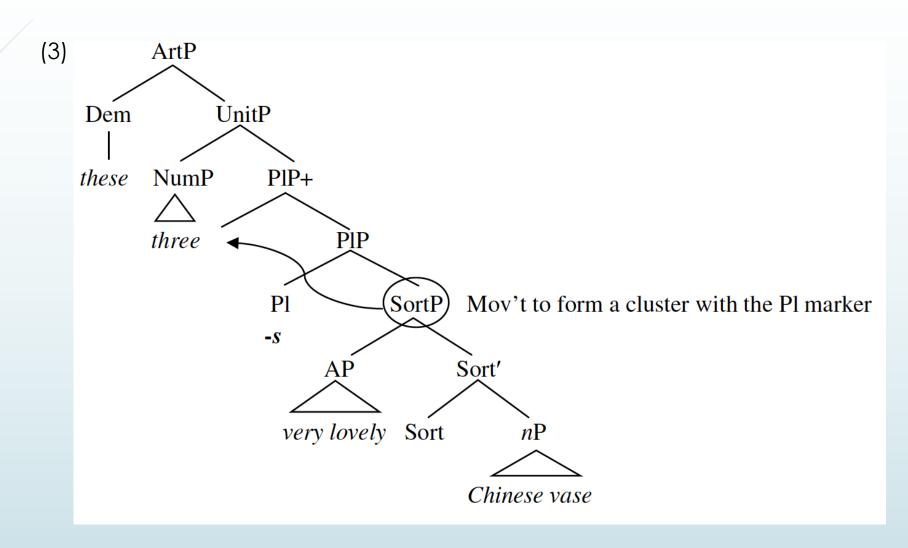
Cinque's (2010) split-DP



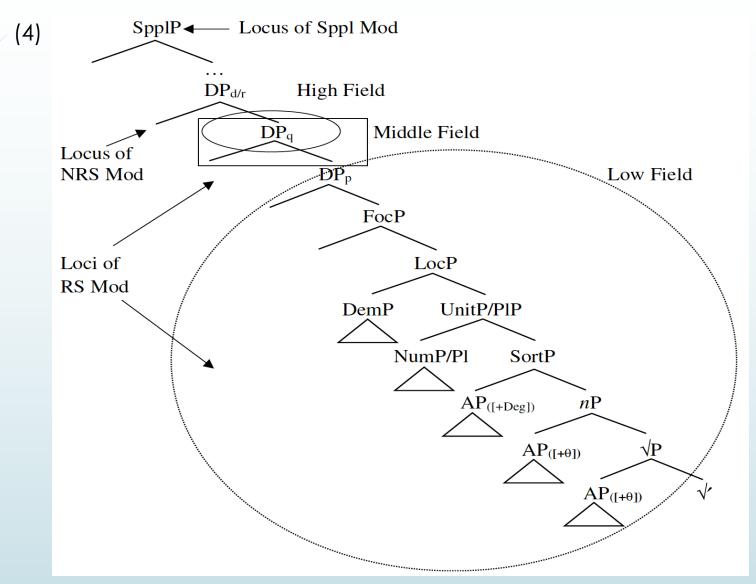
Laenzlinger's (2005) split-DP



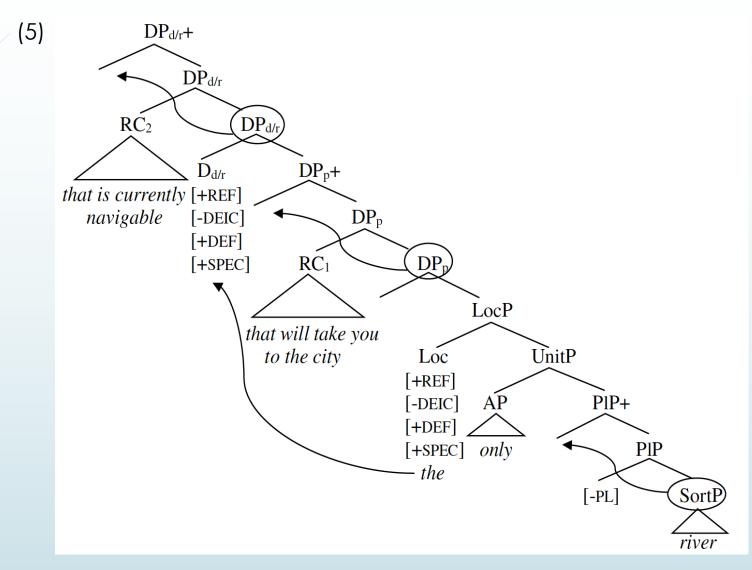
Svenonius' (2008) split-DP



Kim's (2019) split-DP



Kim's (2019) split-DP cont'd



Goal of this talk

- To reexamine sources of variation in AO by taking a close look at Korean.
- Questions to be asked:
 - To what extent is split-DP real?
 - Are roll-up movements indispensable?
 - Does adopting a derivational system alone give rise to all attested AOs?
 - If not, is it truly necessary to resort to an Optimality-Theoretic output filter, as argued in Kim 2019?

Some background about Korean

- Language isolate
- SOV canonical order
- Scrambling but with strict V-finality
- Agglutinative
- Heavy lexical influence from Classical Chinese
- Case-marking
- Discourse-oriented
- Overt topic/focus-marking
- Alleged absence of a prototypical Adjective class

(Sohn 1999, Kim 2019 and references there)

Inventory of N modifiers in Korean

- (6) Major adnominal adjectival classes in Korean:
 - (i) adjectival prefixes
 - (ii) adjectival Ns
 - (iii) attributive determinatives (ATT-DETs)
 - (iv) adjectival expressions ending in -cek (CEK-APs)
 - (v) adjectival expressions ending in -un (UN-APs)
 - (vi) relative clauses (RCs)
- Note: UN-APs and RCs have the same ending and are considered indirect N modifiers (Kang 2006).

Canonical AO in Korean

(7) Canonical AO in Korean:

 $RC > UN-AP > CEK-AP_{ATT}/ATT-DET > CEK-AP_{\theta} > Adjectival prefix/N > Root N$

Clausal verbal nominal nominal nominal

(Kim 2014a, b, 2019)

Illustration

(8) A plural DP containing an RC, an UN-AP, and a CEK-AP_{ATT}: a. $RC > UN-AP > CEK-AP_{ATT} > N + PL$: $[DP [RC e_i]$ kyengcey-rul sal-li-]-l, [_ economy-acc live-caus-]-rel.fut, [UN-AP] sayrop-un] [CEK-AP] hapli-cek] $[Cengchayk-tul_i]$ new-un] [rational-CEK] [policy-PL]] 'new rational policies which will boost the economy' b. $RC > CEK-AP_{ATT} > UN-AP > N + PL$: $??[DP [RC e_i]$ kyengcey-rul sal-li-]-l, [CEK-AP] hapli-cek] [UN-AP] sayrop-un] [cengchayk-tul;]] c. $RC > Focal-stressed CEK-AP_{ATT} > UN-AP > N + PL$: $[_{DP} [_{RC} e_i]$ kyengcey-rul sal-li-]-l, [CEK-AP HAPLI-CEK] [UN-AP sayrop-un] [cengchayk-tul;]]

Need to posit an adjunction structure

(9) Ordering between an ATT-DET and a thematic AP:

a. say, tokil-cey [mohyeng catongcha]

new German-made [miniature car]

'a <u>new German-made</u> miniature car'

b. tokil-cey, say [mohyeng catongcha]

'a <u>German-made</u> <u>new</u> miniature car'

(10) Ordering between an ATT-DET and a CEK-APATT:

a. say, hapli-cek [kyengcey cengchayk]

new rational-CEK [economy policy]

'a <u>new rational</u> economic policy'

b. hapli-cek, say [kyencey cengchayk]

'a <u>rational</u> <u>new</u> economic policy'

What (9) and (10) show

lacktriangle APs that merge above \sqrt{P} may occur **adjoined** to each other.

```
(11) a. [DPd/r [DPp [SortP [nP say [nP tokil-cey/hapli-cek [<math>\sqrt{P} Adjectival N]]]]]]
```

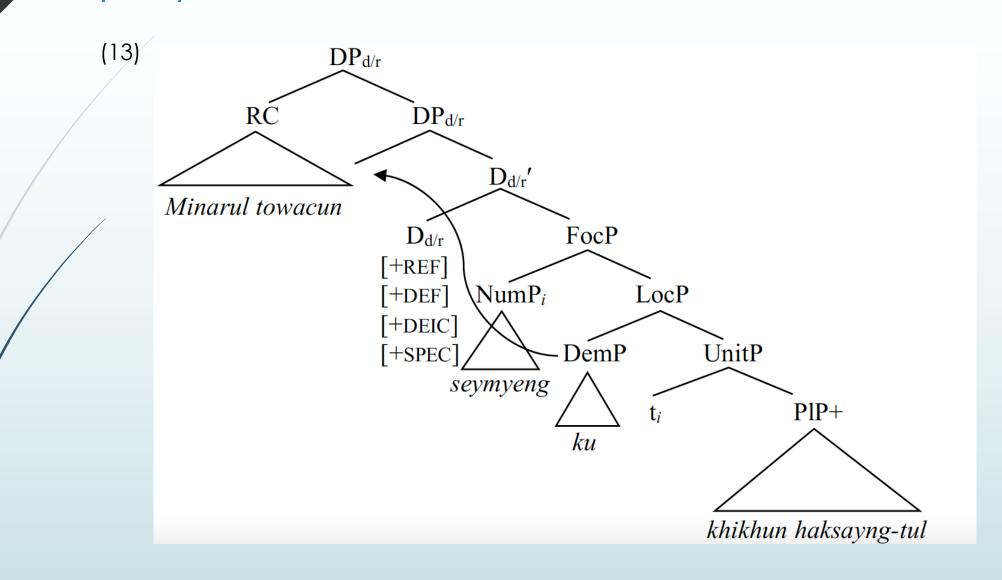
b. [DPd/r [DPp [FocP [SortP [nP tokil-cey/hapli-cek [nP say [√P Adjectival N]]]]]]]

Need to posit a roll-up movement

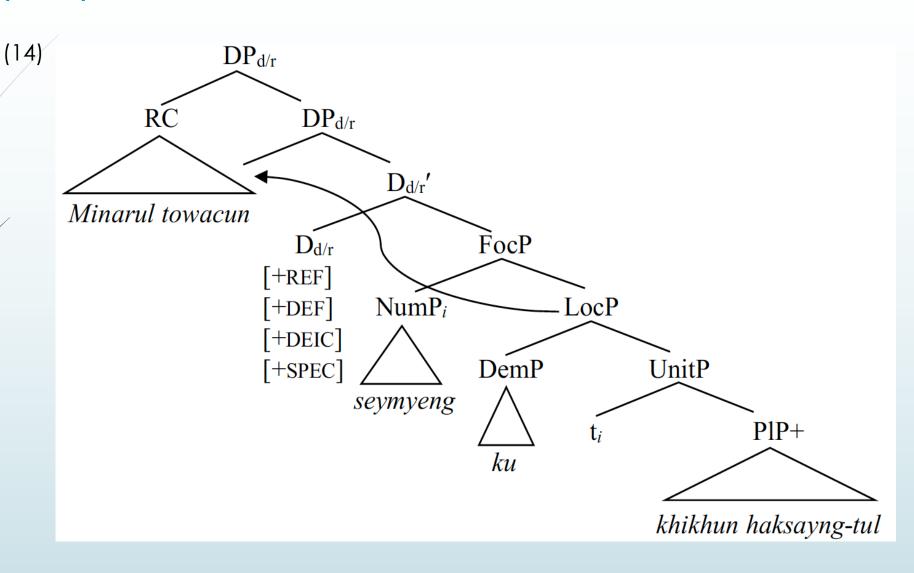
(12) Constituent order variation for a definite, plural DP with a NUM and a CL:

```
a. RC > Dem > NumP > UN-AP > N + PL:
    [DP \ [RC \ e_i \ Mina-rul \ towacwu-\varnothing]-n, \ [DP \ ku]
     [ __ M.-acc help-prf]-rel
                                                  that
    [NumP sey-myeng-uy], [AP khikhu-un] haksayng-tul];
           three-CL-GEN] [ tall-UN] student-PL]]
    'those three tall students who helped Mina'
b. RC > Dem > UN-AP > N + PL > NumP:
    [DP [RC e_i Mina-rul towacwu-\varnothing]-n,
                                              DP kU,
    [AP khikhun] haksayng-tul; [NumP sey-myeng]]
    'those three tall students who helped Mina'
```

(12a): 'RC > Dem > Num > UN-AP > N + PL'



(12b): 'RC > Dem > UN-AP > N + PL > Num '



Interim summary

- We need to have enough hierarchical structure and space inside a nominal to capture various surface orders.
- We also need to assume some movements that occur inside a nominal, some of which are roll-up movements.
- Taken together, these facts provide **support** for a Split-DP analysis such as Kim 2019.

Some challenges

- Challenge 1: Relative ordering between an UN-AP and an ATT-DET.
- 'UN-AP > ATT-DET' obtains if the UN-AP is bi-syllabic.

(15) Ordering between a bi-syllabic UN-AP and an ATT-DET:

```
a. yeppu-n say kapang (UN-AP > ATT-DET)

pretty-un new bag

'a <u>pretty new</u> bag'
```

b. *say yeppu-n kapang (ATT-DET > UN-AP)
Intended: 'a new pretty bag'

Challenge 1 cont'd

'UN-AP > ATT-DET' may not obtain if the UN-AP is phonologically as light as the ATT-DET.

(16) Ordering between a mono-syllabic UN-AP and an ATT-DET:

```
a. ?khu-n say kapang (UN-AP > ATT-DET)
```

big-un new bag

Intended: 'a <u>big</u> <u>new</u> bag'

b. ??say khu-n kapang (ATT-DET > UN-AP)

Intended: 'a new big bag'

c. **khuu-n** say kapang (vowel lengthened UN-AP > ATT-DET)

d. KHU-N say kapang (focal-stressed UN-AP > ATT-DET)

Challenge 1 cont'd

However, in some cases, 'ATT-DET > UN-AP' may obtain even if the ATT-DET is phonologically lighter than the UN-AP.

Illustration:

```
(17) a. pwuphayha-n, hyen cengkwon (UN-AP > ATT-DET)
corrupt-un present government
```

'the <u>corrupt</u> <u>present</u> government'

b. hyen, pwuphayha-n cengkwon (ATT-DET > UN-AP)

'the <u>present</u> <u>corrupt</u> government'

Challenge 2

- UN-APs instantiate parallel modification in the sense of Sproat and Shih (1988, 1990) (S&S).
- Even so, they abide by 'Quality > Size > Shape > Color', contra S&S's prediction.
- Illustration:

(18) Relative ordering between two UN-APs:

```
a. khu-n, ppalkah-n sakwa (size > color)
big-un, red-un apple
'a big, red apple'
b.??ppalkah-n, khu-n sakwa (color > size)
Intended: 'a red, big apple'
```

Challenge 2 cont'd

'a very red, big apple'

When two UN-APs co-occur, 'Quality > Size > Shape > Color' may not obtain if only one of them is modified by a degree adverb (DegAdv).

■ Illustration:

(19) Ordering between two UN-APs, one with a DegAdv, and one without:

```
a.??khu-n, [acwu ppalkah-n] sakwa (size > color)
big-un, [very red-un] apple
Intended: 'a big, very red apple'
b. [acwu ppalkah-n], khu-n sakwa (color > size)
```

Challenge 2 cont'd

When two APs co-occur, 'Quality > Size > Shape > Color' may not obtain if one of them is an UN-AP and the other is an adjectival N.

Illustration:

(20) Relative ordering between an UN-AP and an adjectival N:

a. khu-n ko-kup cha (size > quality)

big-un high-quality car

'a large, high-quality vehicle'

b.*ko-kup khu-n cha (quality > size)

Intended: 'a high-quality, large vehicle'

Challenge 2 cont'd

- If the co-occurring APs are adjectival Ns, then 'Quality > Size > Shape > Color' is respected.
- Illustration:

(21) Relative ordering between two adjectival Ns:

Intended: 'a <u>large</u>, <u>luxury</u> vehicle'

```
a. ko-kup tay-hyeng cha (quality > size)
high-class big-form car
'a large, luxury vehicle'
b. ??tay-hyeng ko-kup cha (size > quality)
```

What to make of these challenges

In Korean, typically, 'Non-nominal ADJ (NNA) > Nominal ADJ (NA)' obtains.

■ But relative phonological weight may impact AO.

Typically, 'Relative ADJ > Absolute ADJ' obtains but only if both ADJs are of the same categories and it is not the case that only of them is modified by a DegAdv.

How to deal with these challenges

► Kim's (2019) approach: Resort to an Optimality-Theoretic output filter by building on works like Grimshaw 2001.

(22) A partial list of constraints regulating AO in human language:

a. *NA > NNA: An ADJ sequence where a nominal AP occurs before a

non-nominal one inside a DP_p is banned.

b. DEGLFT: Every DegAdv is at the left edge of a DPp.

c. Reller: Every AP with relative semantics is at the left edge of a DP_p .

d. HVYLFT: For any pair of APs occurring inside a DPp, the heavier one

is at the left edge of the DP_p.

(Kim 2019: 180, (47))

■ Important: These constraints target APs **inside DP**_p **post Spell-out**.

Grimshaw 2001

Key idea:

- Constituent order variation across languages can be captured by postulating a set of alignment constraints such as:
 - ► HEADLFT ('Every X-zero is at the left edge of an X-max')
 - SPECLFT ('Every specifier is at the left edge of an X-max')
 - **■** COMPLET ('Every complement is at the left edge of an X-max')
- and then ranking them differently for different languages in accordance with their constituent orders.

Grimshaw 2001: How SVO vs. SOV orders are derived

(23) Ranking: SPECLFT >> HEADLFT >> COMPLFT

input: Subj V Obj	SPECLFT	HEADLFT	COMPLFT
a. F [XP Spec [X' Head Complement]]		*	**
b. [XP Spec [X' Complement Head]]		**!	*

(24) Ranking: SPECLFT >> COMPLFT >> HEADLFT

input: Subj V Obj	SPECLFT	COMPLFT	HEADLFT
a. [xP Spec [x' Head Complement]]		**!	*
b. F [XP Spec [X' Complement Head]]		*	**

Ranking of the AO constraints in Korean

► Kim's (2019) proposal:

(25) Ranking among the four AO constraints for Korean:

*NA > NNA >> {DEGLFT, RELLFT} >> HVYLFT

(Kim 2019: 183, (52))

Explaining (15) vs. (16)

(26) Reason for the contrast between (15a, b):

input: [DPp yeppun 'pretty' say 'new' N]	*NA > NNA	RELLFT	HVYLFT
a. F [DPp [FocP [SortP yeppun [nP say [VP N]]]]]			
b. [DPp [FocP SAY [SortP yeppun [nP [\sqrt{P} N]]]]]	*!		

(27) Reason for the contrast between (16a, b, c):

input: [DPp khun 'big' say 'new' N]	*NA > NNA	RELLFT	HVYLFT
a. [DPp [FocP [SortP khun [nP say [\langle P N]]]]]]			*!
b. [DPp [FocP SAY [SortP khun [nP [\sqrt{P} N]]]]]	*!		
c. FocP [SortP khu.un [nP say [√P N]]]]]			

Explaining (18) vs. (19)

(28) Reason for the contrast between (18a, b): 'size > color'

input: [DPp khun 'big' ppalkahn 'red' N]	DEGLFT	RELLFT	HVYLFT
a. \mathcal{P} [DPp [SortP khun, [SortP ppal.kan [nP [\sqrt{P} N]]]]]			*
b. $[DPp [SortP ppal.kan, [SortP khun [nP [\sqrt{P} N]]]]]$		*!	

(29) Reason for the contrast between (19a, b): 'color > size'

input: [DPp khun 'big' acwu ppalkahn 'very red' N]	DEGLFT	RELLFT	HVYLFT
a. $[DPp [SortP khun, [SortP a.cwu ppal.kan [nP [\sqrt{P} N]]]]]$	*		*!
b. \mathcal{P} [DPp [SortP a.cwu ppal.kan, [SortP khun [nP [\sqrt{P} N]]]]]		*	

Explaining (20) vs. (21)

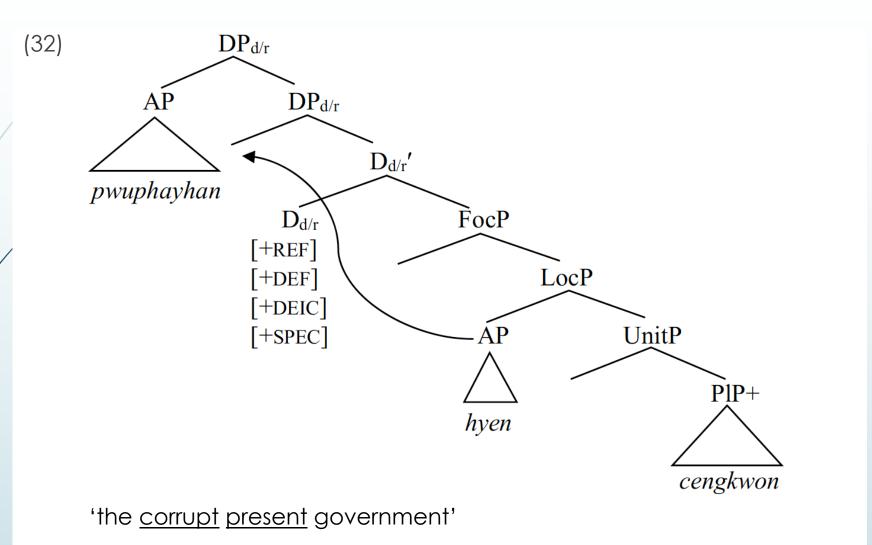
(30) Reason for the contrast between (20a, b): 'size > quality'

input: [DPp khun 'big' kokup 'luxury' N]	*NA > NNA	RELLFT	HVYLFT
a. \mathcal{F} [DPp [SortP khun [nP kokup [\sqrt{P} N]]]]		*	
b. [DPp [SortP kokup [SortP khun [nP [\sqrt{P} N]]]]]	*!		

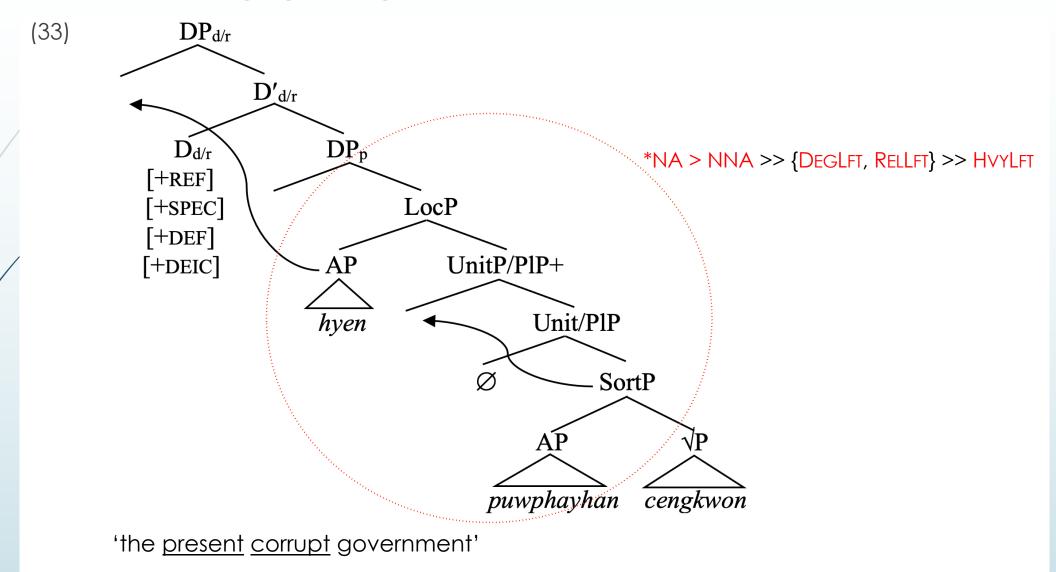
(31) Reason for the contrast between (21a, b): 'quality > size'

input: [DPp kokup 'luxury' tayhyeng 'big' N]	*NA>NNA	RELLFT	HVYLFT
a. \mathcal{P} [DPp [nP ko.kup, [nP tay.hyeng [\sqrt{P} N]]]]			
b. $[DPp [nP tay.hyeng, [nP ko.kup [vP N]]]]$		*!	

Explaining (17a): 'UN-AP > ATT-DET'



Explaining (17b): 'ATT-DET > UN-AP'



Ordering restrictions on RCs

► Larson and Takahashi's (2007) observation: An RC with a stage (S)-level predicate (RC_S) occurs farther away from the head N than an RC with an individual (I)-level predicate (RC_I) (see also Del Gobbo 2005).

► However, in some cases, $RC_S > RC_I$ is judged less good than $RC_I > RC_S$.

```
(35) a. [RC1 nay; nam-tongsayng-i e; cohaha-n-]-un,

[ my male-younger.sibling-NOM _ like-IMPRF-]-REL

[RC2 yec-nal-ey [DP2 pro; emma]-ka wuri-eykey e;

[ old-day-LOC [ _ mom]-NOM we-to _ _

mantul-e cwu-si-te-]-n umsik;-un mantwu-i-Ø-ta.

make-CONN give-HON-RTRO-]-REL food-TOP dumpling-COP-N.PST-DECL

'The food that my younger brother likes which my mom used to make for us is dumplings.' (RC₁ > RC₅)

b. ??[RC2 yec-nal-ey [DP2 pro; emma]-ka wuri-eykey e; mantul-e cwu-si-te-]-n, [RC1 nay; nam-tongsayng-i e; cohaha-n-]-un umsik;-un mantwu-i-Ø-ta.

Intended: 'The food that my mom used to make for us which my younger brother likes is dumplings.' (RC₅ > RC₁)
```

In some cases, even two RCs with the same type of predicates may occur only in certain orders.

(36) Cases where two RC₁'s co-occurring:

```
a. [RC1 Mina-ka
                                                    kacang
                                seysang-eyse
                   _ this world-LOC
       M.-TOP
                                                    most
                   [_{RC2} e<sub>i</sub> maumssi-ka nemwuna
  cohaha-n-]-un,
                                                        chakha-∅]-n
                                                        be.good-N.PST]-REL
  like-IMPRF-]-REL
                           heart-NOM
                                           really
  chinkwu;-nun Cinhi-i-Ø-ta.
  friend-TOP
            C.-COP-N.PST-DECL
  'The friend that Mina likes the most in this world who has a truly beautiful
   heart is Cinhi.'
                                                            (RC_1 > RC_2)
```

b. $??/?[_{RC2} e_i]$ maumssi-ka nemwuna chakha- \varnothing]-n, $[_{RC1}$ Mina-ka e_i i seysang-eyse kacang cohaha-n-]-un chinkwu $_i$ -nun Cinhi-i- \varnothing -ta. $(_{RC_2} > _{RC_1})$ Intended: 'The friend who has a truly beautiful heart who Mina likes the most in this world is Cinhi.'

(37) Cases where two RC_s's co-occurring: a. [_{RC1} Mina-ka ku nal $malha-\varnothing$]-n, mention-ANT]-REL, M.-NOM that day [RC2 nay-ka $manna-\varnothing$]-n e_i ecey saram;-un yesterday meet-ANT]-REL I-NOM person-TOP Cinho-i-∅-ta. C.-COP-N.PST-DECL 'The person that Mina mentioned that day who I met yesterday is Cinho.' $(RC_1 > RC_2)$ b.??[RC2 nay-ka e; ecey manna- \varnothing]-n, [RC1 Mina-ka ku nal malha-Ø]-n e_i saram;-un Cinho-i-Ø-ta. Intended: 'The person that I met yesterday who Mina mentioned that day is Cinho.' $(RC_2 > RC_1)$

```
(38) Variant of (37) with two RC_s's co-occurring: Reversed grammaticality judgment
   a.<sup>?</sup>?/?[<sub>RC1</sub> Mina-ka
                             yecnal-ey e<sub>i</sub>
                                                   sakwi-ess-ta]-nun,
                             old.day-LOC __ date-PST-IND]-HEAR.SAY.COMP,
                M.-NOM
      [<sub>RC2</sub> nay-ka
                                  ecey manna-Ø]-n
                         e_i
                                                                 saram;-un
                                 yesterday meet-ANT]-REL
            I-NOM
                                                                 person-TOP
      Cinho-i-Ø-ta.
      C.-COP-N.PST-DECL
      'The person that Mina is said to have dated in the past who I met yesterday is
       Cinho.'
                                                                     (RC_1 > RC_2)
    b. [RC2 nay-ka
                                               manna-\emptyset]-n,
                             ecey
                    e_i
           Mina-ka
                     yecnal-ey
                                      e; sakwi-ess-ta]-nun
      RC1
                     Cinho-i-Ø-ta.
       saram<sub>i</sub>-un
       Intended: 'The person that I met yesterday who Mina is said to have dated in
       the past is Cinho.'
                                                                      (RC_2 > RC_1)
```

What to make of these facts?

- ► Kim's (2019) approach: RC ordering is also subject to an output filter.
- (39) Constraints on RCs which occur modifying the same referential DP:
 - a. EPCRCLFT: An RC derived from an episodic event description occurs at the left edge of a DP_{d/r}.
 - b. PRERCLFT: When two RCs modify the same $DP_{d/r}$, the RC whose event time is earlier occurs at the left edge of the $DP_{d/r}$.
 - c. FMLRCLFT: When two RCs modify the same DP_{d/r}, the RC whose content is more familiar to the relevant discourse participant (i.e., S or H) occurs at the left edge of the DP_{d/r}.

(Revised from Kim 2019: 202, (94))

(40) Ranking among the three constraints:

FMLRCLFT >> {EPCRCLFT, PRERCLFT}

Explaining (37) vs. (38)

(41) Reason for the surface order of the RCs in (37):

input: $[DPd/r [RC1 Minaka kunal malhan] [RC2 nayka ecey mannan] [DPp [\sqrt{P} saram]]]$	FMLRC LFT	EPCRC LFT	PRERC Lft
a. F [DPd/r [RC1 'Mina mentioned that day'] [RC2 'I met yesterday'] [DPp [VP 'person']]]			
b. [DPd/r [RC2 'I met yesterday'] [RC1 'Mina mentioned that day'] [DPp [VP 'person']]]			*!

(42) Reason for the surface order of the RCs in (38):

input: [DPd/r [RC1 Minaka yecnaley sakiesstanun] [RC2 nayka ecey mannan] [DPp [\sqrt{P saram}]]]	FMLRC LFT	EPCRC LFT	PreRc Lft
a. [DPd/r [RC1 'Mina is said to have dated'] [RC2 'I met yesterday'] [DPp [VP 'person']]]	*!		*
b. F[DPd/r [RC2 'I met yesterday'] [RC1 'Mina is said to have dated'] [DPp [VP 'person']]]			

Support from Mandarin Chinese

■ **Jhang's (2012) observation:** Mandarin RCs may occur only in certain orders and this has little to do with whether they contain an I-level or an S-level predicate, contra authors like Del Gobbo (2005) and Larson and Takahashi (2007).

```
(43) a. [e;
            bei shiren
                                   yiwang de] [e;
                                                          cengjing
                                                                       weida
                                                                                del
                                   forget
             PASS world.people
                                            DE] [
                                                                        great
                                                          once
                                                                                DE]
      zuopin;
      art.work
      'The art piece that has been forgotten by the world which was once great'
                                                                        (RC_S > RC_S)
    b. *[e<sub>i</sub>
                 cengiing
                             weida
                                                                       yiwang de]
                                      de] [e;
                                                     bei shiren
       Intended: 'The art piece that has been forgotten by the world which was once
       great'
                                                                        (RC_S > RC_S)
```

Support from Mandarin cont'd

(44) a. [ta xihuan e_i de] [Jay xie e_i de] na shou ge_i [she like _ DE] [J. write _ DE] DEM CL song 'The song that she likes which Jay wrote' $(RC_1 > RC_5)$ b. *[Jay xie e_i de] [ta xihuan e_i de] na shou ge_i Intended: 'The song that she likes which Jay wrote' $(RC_5 > RC_1)$

(45) Reason for the surface order of the RCs in (44):

input: $[DPd/r [RC1 ta xihuan de] [RC2 Jay xie de] [DPd/r [\sqrt{P} na shou ge]]]$	FMLRC LFT	EPCRC LFT	PRERC LFT
a. F [DPd/r [RC1 'she likes'] [RC2 'Jay wrote'] [DPd/r [\sqrt{P} 'the song]]]		*	
b. $[DPd/r [RC2 'Jay wrote'] [RC1 'she likes'] [DPd/r [\sqrt{P} 'the song']]]$	*!		

In sum

- Sources of variation in AO in Korean:
 - Morpho-syntactic complexity
 - Relative vs. Absolute semantics
 - Categorial status
 - Relative phonological weight
 - Discourse prominence or status of the modified nominal

Returning to the questions we started out with

- To what extent is split-DP real?
- Are roll-up movements indispensable?
- Does adopting a derivational system alone give rise to all attested AOs?
- If not, is truly it necessary to resort to an Optimality-Theoretic output filter?

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50

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