

How to be Positive

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Outline

Introduction

Comparatives: data

An informal analysis

The spellout algorithm Starke (2018)

How to be POS

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An informal analysis

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How to be POS

Comparative formation in Slovak

(1) Comparatives in Slovak

POSITIVE	COMPARATIVE	gloss
star-ý		'old'
múdr-ý		'wise'

Comparative formation in Slovak

(1) Comparatives in Slovak

POSITIVE	COMPARATIVE	gloss
star-ý	star	'old'
múdr-y	múdr	'wise'

Comparative formation in Slovak

(1) Comparatives in Slovak

POSITIVE	COMPARATIVE	gloss
star-ý	star	š-í 'old'
múdr-y	múdr	ejš-í 'wise'

Comparative formation in Slovak

(1) Comparatives in Slovak

POSITIVE	COMPARATIVE	gloss	
star-ý	star	š-í	'old'
múdr-y	múdr	ejš-í	'wise'
sliz-k-ý		'slim-y'	AUGMENT

Comparative formation in Slovak

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star-ý	star	š-í 'old'
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sliz-k-ý	sliz-k	ejš-í 'slim-y'
ťaž-k-ý		'heav-y'

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sliz-k-ý	sliz-k	ejš-í	'slim-y'	
ťaž-k-ý	ťaž	š-í	'heav-y'	TRUNCATION

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ťaž-k-ý	ťaž	š-í	'heav-y'

(2) *Candidate Universal* (Grano & Davis 2018)

Universally, the comparative form of a gradable adjective is derived from or identical to its positive form.

If English was like Slovak...

(3) POSITIVE COMPARATIVE class

old

slim-y

heav-y

If English was like Slovak...

(3) POSITIVE COMPARATIVE class

old	er	
slim-y	er	
heav-y	er	

If English was like Slovak...

(3)	POSITIVE	COMPARATIVE	class
	old	old	er
	slim-y	slim-y	er
	heav-y		er

If English was like Slovak...

(3)	POSITIVE	COMPARATIVE	class
	old	old	er
	slim-y	slim-y	er
	heav-y		er

If English was like Slovak...

(3)	POSITIVE	COMPARATIVE	class
	old	old	er
	slim-y	slim-y	er
	heav-y	heav	er

If English was like Slovak...

(3)	POSITIVE	COMPARATIVE	class
	old	old	er
	slim-y	slim-y	er
	heav-y	heav	er

(4)

root	POS	CMPR
old	—	—
heav-y	AUG	—
slim-y	AUG	AUG

Implications for the structure of the comparative

- (5) a. **POSITIVE**



sliz-k

slim-y

Implications for the structure of the comparative

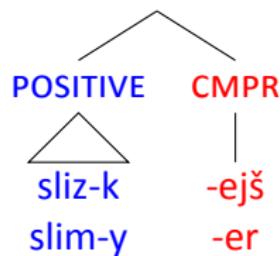
(5) a. **POSITIVE**



sliz-k

slim-y

b. **COMPARATIVE**



sliz-k

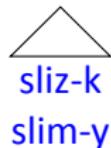
slim-y

-ejš

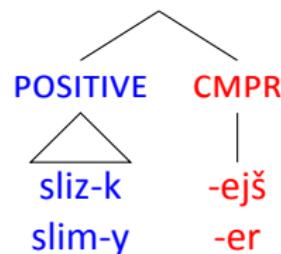
-er

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b. **COMPARATIVE**

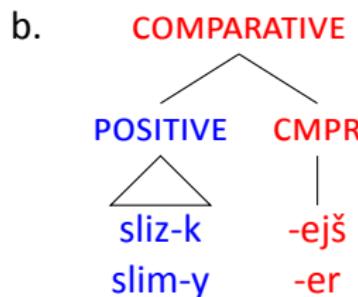


(6) a. **POSITIVE**

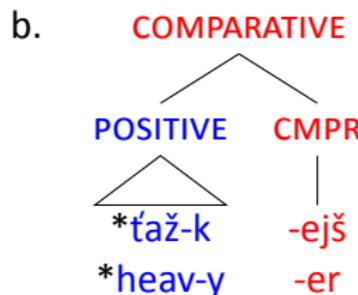


Implications for the structure of the comparative

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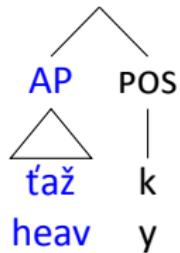


(6) a. **POSITIVE**



Our proposal: symmetric structures

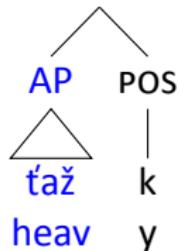
(7) a. POSITIVE



Our proposal: symmetric structures

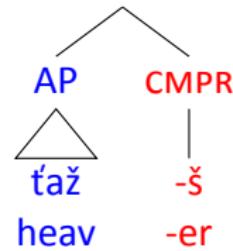
(7)

a. POSITIVE



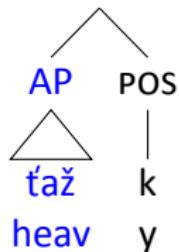
b.

COMPARATIVE

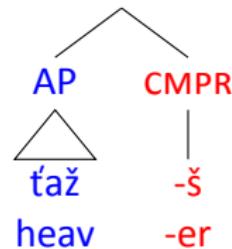


Our proposal: symmetric structures

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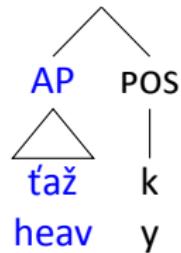
b. COMPARATIVE



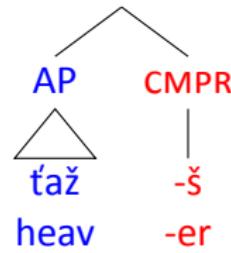
- ▶ To handle containment, we need phrasal spellout in addition.

Our proposal: symmetric structures

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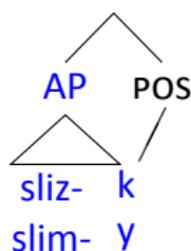
b. COMPARATIVE



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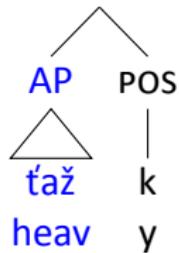
(8) Containment pattern

a. POSITIVE

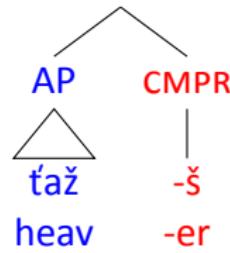


Our proposal: symmetric structures

(7) a. POSITIVE



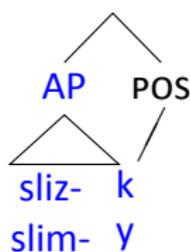
b. COMPARATIVE



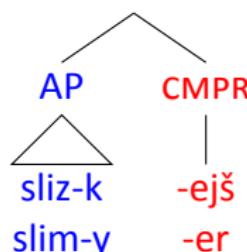
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(8) Containment pattern

a. POSITIVE



b. COMPARATIVE



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Truncation of Slovak -k in CMPR

POSITIVE			DIMINUTIVE				COMPARATIVE			gloss
root	AUG	AGR	root	DIM	AUG	AGR	root	CMPR	AGR	
blíz	k	y	bliz	un	k	ý	bliž	š	í	'close'
úz	k	y	uz	un	k	ý	už	š	í	'narrow'
níz	k	y	niz	un	k	ý	niž	š	í	'low'
krát	k	y	krat	un	k	ý	krat	š	í	'short'
l'ah	k	ý	l'ah	un	k	ý	l'ah	š	í	'easy'
mäk	k	ý	mäk	un	k	ý	mäk	š	í	'soft'
ten	k	ý	ten	un	k	ý	ten	š	í	'thin'
hlad	k	ý	hlad	un	k	ý	hlad	š	í	'smooth'
slad	k	ý	slad	un	k	ý	slad	š	í	'sweet'
vlh	k	ý	vlh	un	k	ý	vlh	š	í	'wet'
ried	k	ý					red	š	í	'thin' (soup)
krot	k	ý					krot	š	í	'tame'
prud	k	ý					prud	š	í	'steep'
t'až	k	ý					t'až	š	í	'heavy'

Truncation of Slovak -k in CMPR

POSITIVE			DIMINUTIVE			COMPARATIVE			gloss	
root	AUG	AGR	root	DIM	AUG	AGR	root	CMPR	AGR	
blíz	k	y	blíz	un	k	ý	bliž	š	í	'close'
úz	k	y	uz	un	k	ý	už	š	í	'narrow'
níz	k	y	níz	un	k	ý	niž	š	í	'low'
krát	k	y	krat	un	k	ý	krat	š	í	'short'
l'ah	k	ý	l'ah	un	k	ý	l'ah	š	í	'easy'
mäk	k	ý	mäk	un	k	ý	mäk	š	í	'soft'
ten	k	ý	ten	un	k	ý	ten	š	í	'thin'
hlad	k	ý	hlad	un	k	ý	hlad	š	í	'smooth'
slad	k	ý	slad	un	k	ý	slad	š	í	'sweet'
vlh	k	ý	vlh	un	k	ý	vlh	š	í	'wet'
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ten	k	ý	ten	un	k	ý	ten	š	í	'thin'
hlad	k	ý	hlad	un	k	ý	hlad	š	í	'smooth'
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Containment of Slovak -k in CMPR

POSITIVE			DIMINUTIVE				COMPARATIVE				gloss
root	AUG	AGR	root	DIM	AUG	AGR	root	AUG	CMPR	AGR	
heb	k	ý	heb	un	k	ý	heb	k	ejš	í	'smooth'
sliz	k	ý	sliz	un	k	ý	sliz	k	ejš	í	'slimy'
kreh	k	ý	kreh	un	k	ý	kreh	k	ejš	í	'fragile'
brit	k	ý					brit	k	ejš	í	'sharp' (humor)
hor	k	ý					hor	k	ejš	í	'bitter'
hyb	k	ý					hyb	k	ejš	í	'nimble'
krep	k	ý					krep	k	ejš	í	'energetic'
mrz	k	ý					mrz	k	ejš	í	'ugly'
trp	k	ý					trp	k	ejš	í	'bitter'
syp	k	ý					syp	k	ejš	í	'loose' (sand)
väz	k	ý					väz	k	ejš	í	'sticky'
VRT	k	ý					VRT	k	ejš	í	'nimble'
vlh	k	ý					vlh	k	ejš	í	'wet'

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Distribution of κ: phonology?

(9) Slovak minimal pairs

POSITIVE	DIMINUTIVE	COMPARATIVE	gloss
root AUG AGR	root DIM AUG AGR	root AUG CMPR AGR	
l'ah k ý	l'ah un k ý	l'ah š í	'easy'
kreh k ý	kreh un k ý	kreh ejš í	'fragile'

Distribution of κ: phonology?

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POSITIVE			DIMINUTIVE			COMPARATIVE			gloss	
root	AUG	AGR	root	DIM	AUG AGR	root	AUG	CMPR AGR		
I'ah	k	ý	I'ah	un	k	ý	I'ah	š	í	'easy'
kreh	k	ý	kreh	un	k	ý	kreh	k	ejš	'fragile'
krot	k	ý					krot	š	í	'tame'
brit	k	ý					brit	k	ejš	'sharp' (humor)

Distribution of κ: semantics?

- (10) There is a regularity connecting adjectives with -k:
- a. $-k \Rightarrow$ scalar A
(context-dependent, gradable, have antonyms)

Distribution of κ: semantics?

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POSITIVE	gloss	antonym	gloss
ťaž k ý	'heavy'	ľah- k -ý	'light'

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krát k y	'short'	dlh-ý	'long'	
mäkk ý	'soft'	tvrd-ý	'hard'	

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slad k ý	'sweet'	—			

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slad k ý	'sweet'	—		
krehk ý	'fragile'	pev-n-ý	'firm'	containment

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slad k ý	'sweet'	—			
kreh k ý	'fragile'	pev- n -ý	'firm'	containment	
brit k ý	'sharp'	tup-ý	'blunt'		
heb k ý	'smooth'	hrub-ý	'rough'		

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slad k ý	'sweet'	—			
krehk ý	'fragile'	pev- n -ý	'firm'	containment	
brit k ý	'sharp'	tup-ý	'blunt'		
heb k ý	'smooth'	hrub-ý	'rough'		
sliz k ý	'slimy'	—			
hor k ý	'bitter'	—			

What do we learn?

- ▶ Slovak has complex adjectives in the positive

(11) root-K-AGR

What do we learn?

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- ▶ The adjectives with AUG are scalar, but not all scalar As have AUG.

What do we learn?

- ▶ Slovak has complex adjectives in the positive

(11) root-K-AGR

- ▶ The adjectives with AUG are scalar, but not all scalar As have AUG.
- ▶ In the comparative, AUG is either preserved or dropped, depending on the root.

(12)

a.	root -K-CMPR	(containment)
b.	root -CMPR	(truncation)

Introduction

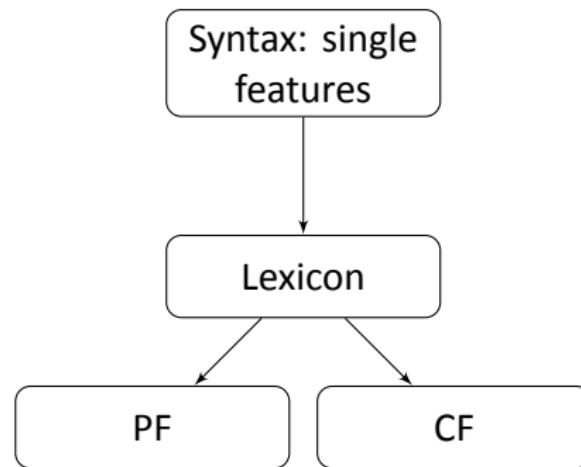
Comparatives: data

An informal analysis

The spellout algorithm Starke (2018)

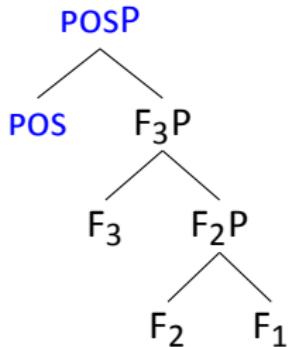
How to be POS

Nanosyntax

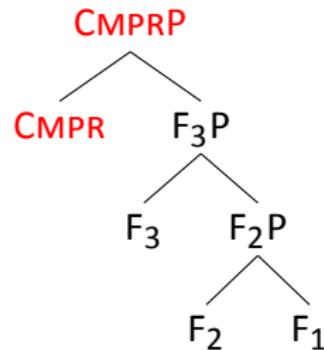


The structures

(13)

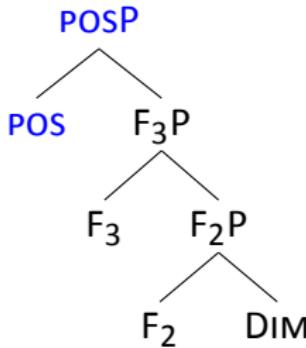


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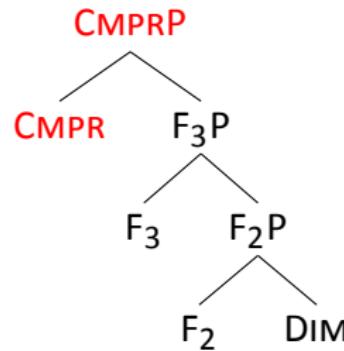


The structures

(13)



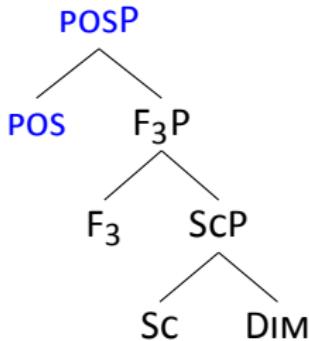
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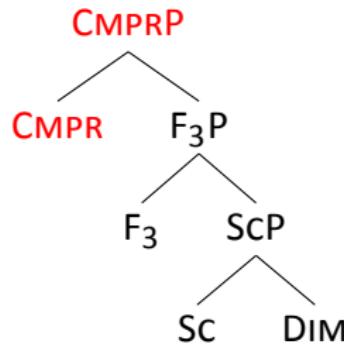
- DIMENSION: *size, velocity, ... (color, material)*

The structures

(13)



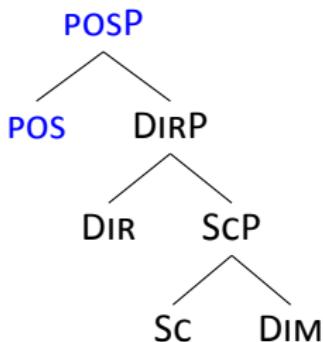
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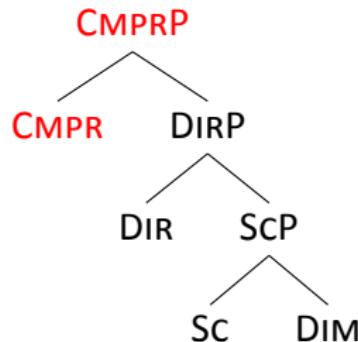
- ▶ DIMENSION: *size, velocity, ... (color, material)*
- ▶ SCALE: some dimensions are associated to a scale, a sequence of degrees (size yes, material (prototypically) not)

The structures

(13)



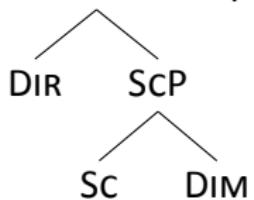
(14)



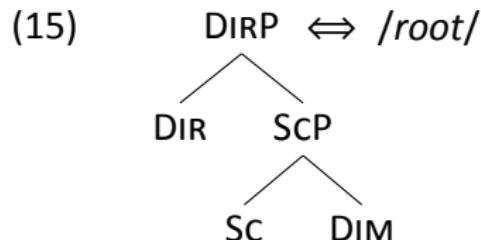
- ▶ DIMENSION: *size, velocity, ... (color, material)*
- ▶ SCALE: some dimensions are associated to a scale, a sequence of degrees (size yes, material (prototypically) not)
- ▶ DIRECTION: Positive vs. negative (*fast/slow, tall/short, ...*)

Phrasal spellout

(15) DIRP $\Leftrightarrow /root/$



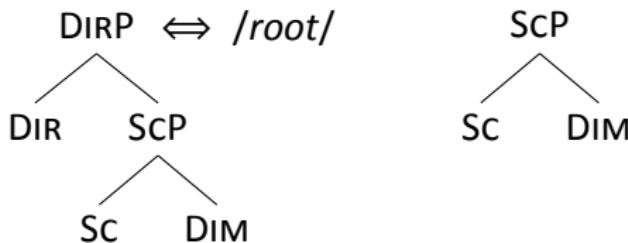
Phrasal spellout



- (16) *The Superset Principle* (Starke 2009)
A lexically stored tree L matches a syntactic node S iff L contains the syntactic tree dominated by S as a subtree

Phrasal spellout

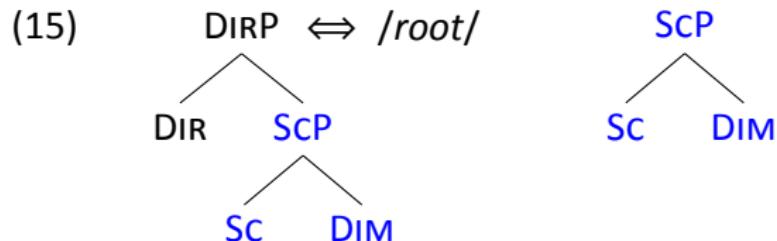
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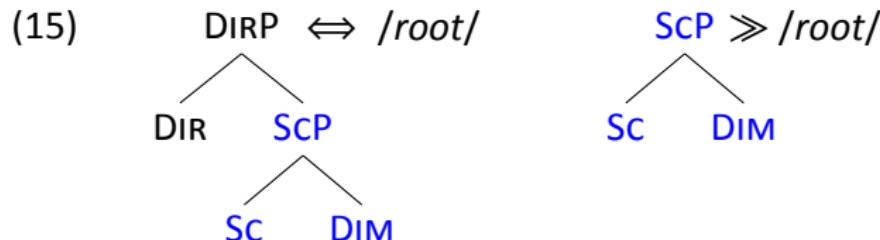
Phrasal spellout



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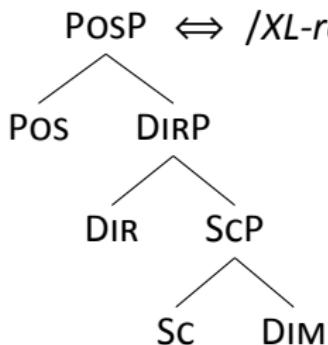
Phrasal spellout



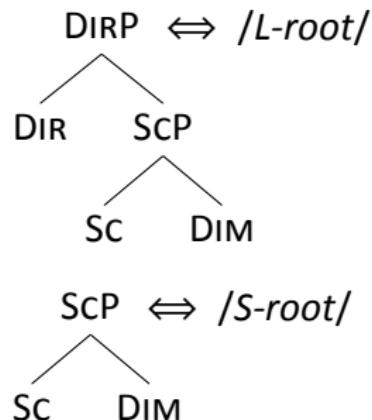
- (16) *The Superset Principle* (Starke 2009)
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Root size

(17)



(18)

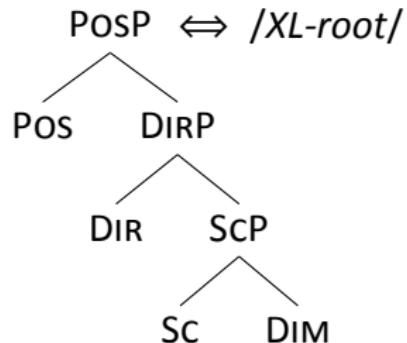


(20)

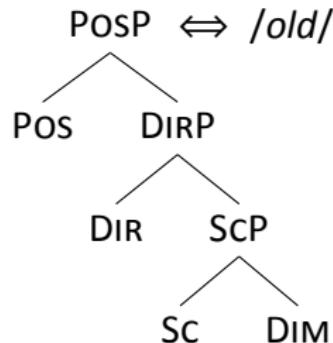
Root size (Caha, De Clercq & Vanden Wyngaerd 2019)

Roots come in different sizes. Their size determines the class they belong to.

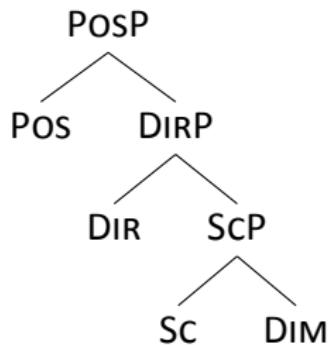
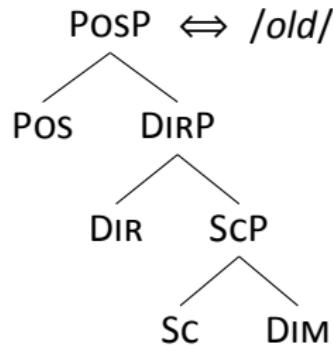
XL-roots in the positive (*old*)



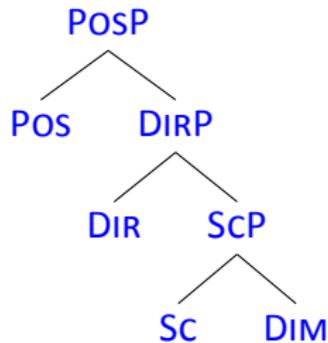
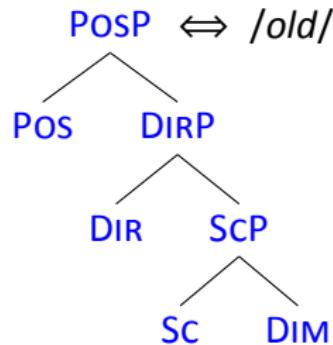
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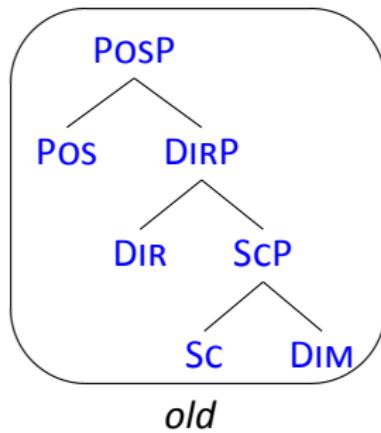
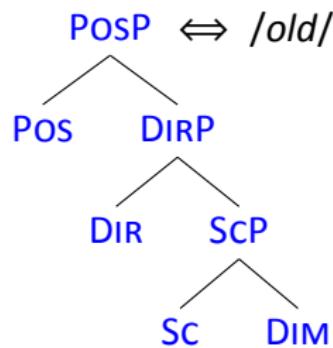
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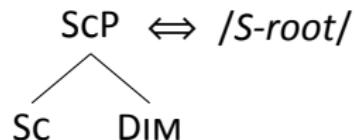
XL-roots in the positive (*old*)



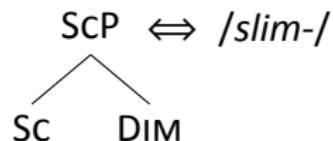
XL-roots in the positive (*old*)



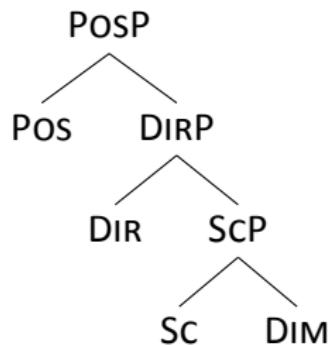
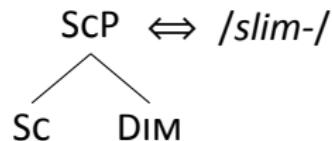
S-roots in the positive (*slim-y*)



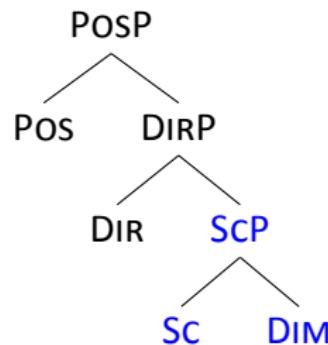
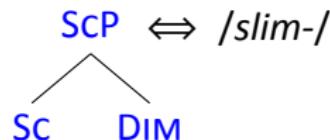
S-roots in the positive (*slim-y*)



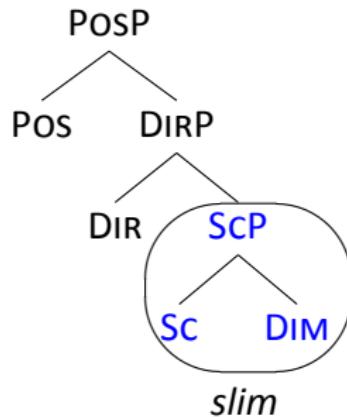
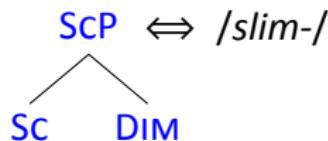
S-roots in the positive (*slim-y*)



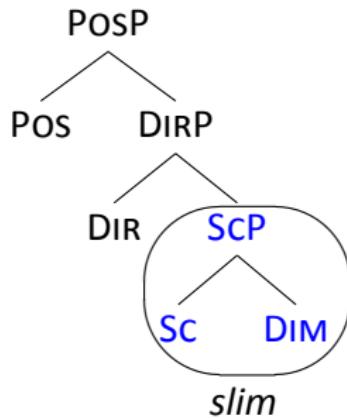
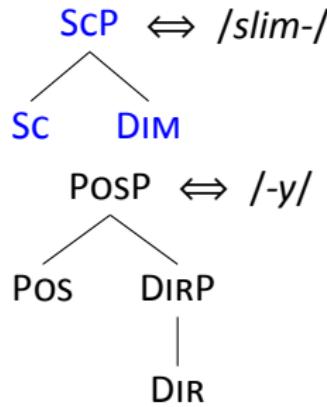
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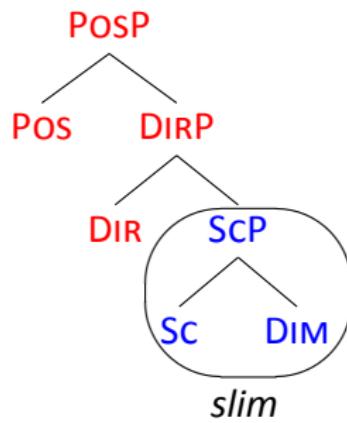
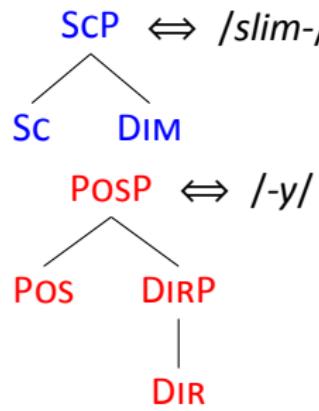
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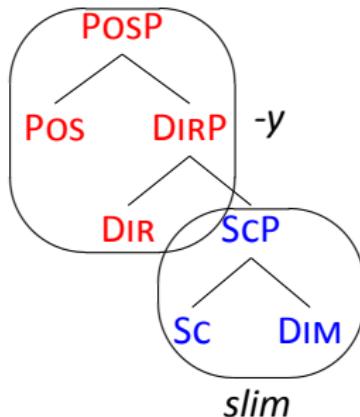
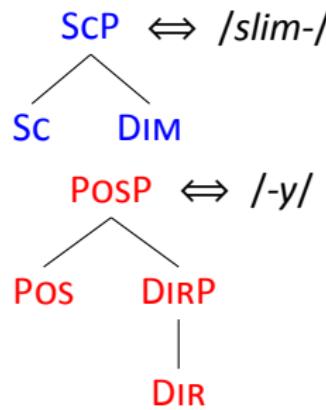
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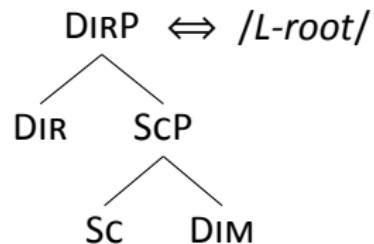
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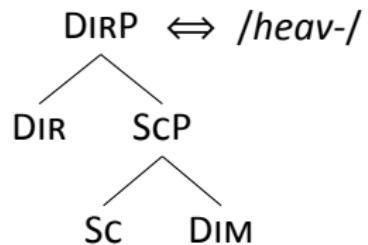
S-roots in the positive (*slim-y*)



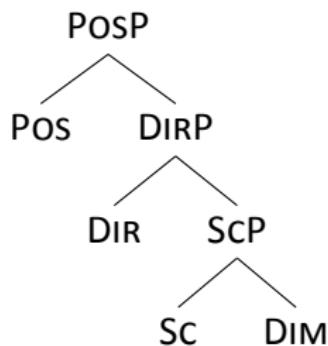
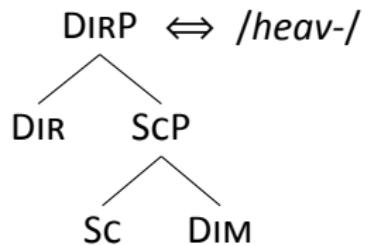
L-roots in the positive (*heav-y*)



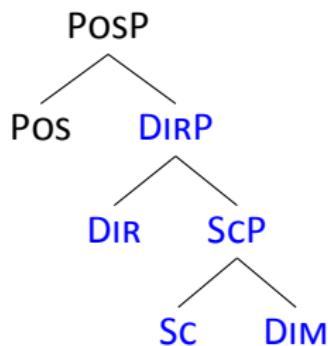
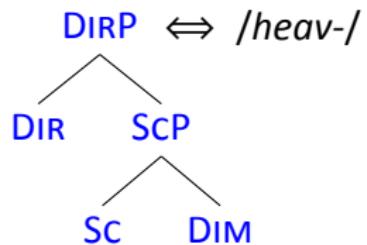
L-roots in the positive (*heav-y*)



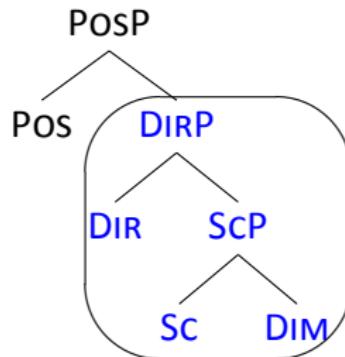
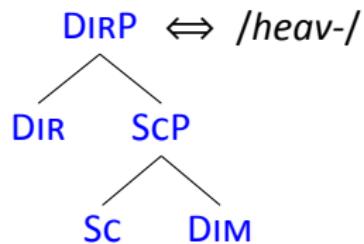
L-roots in the positive (*heav-y*)



L-roots in the positive (*heav-y*)

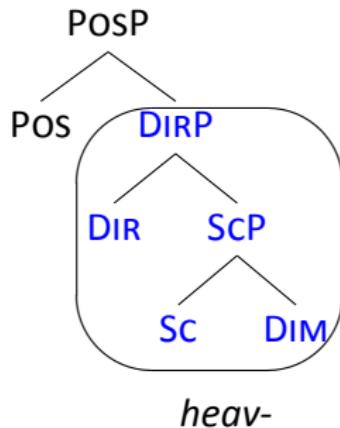
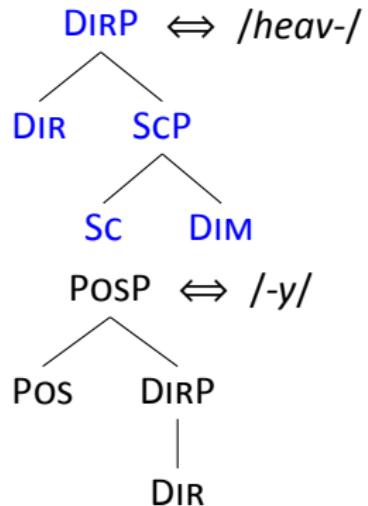


L-roots in the positive (*heav-y*)

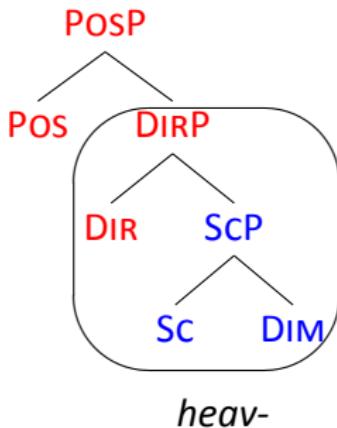
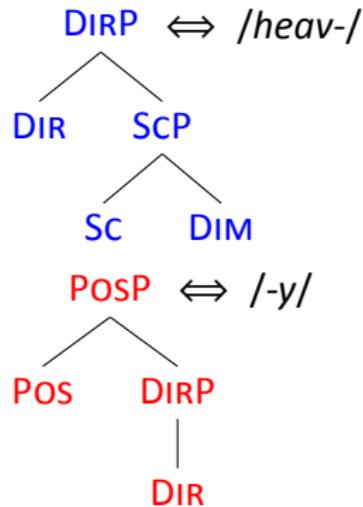


heav-

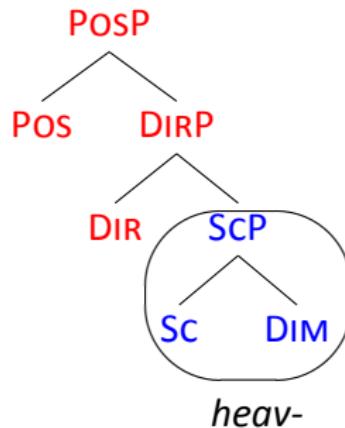
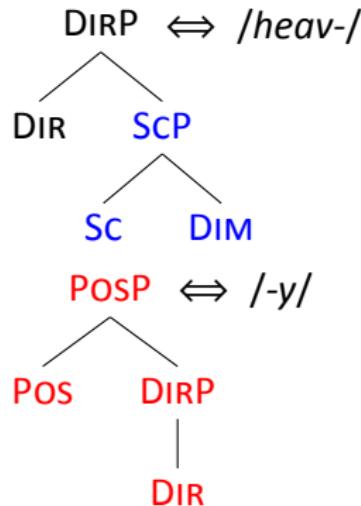
L-roots in the positive (*heav-y*)



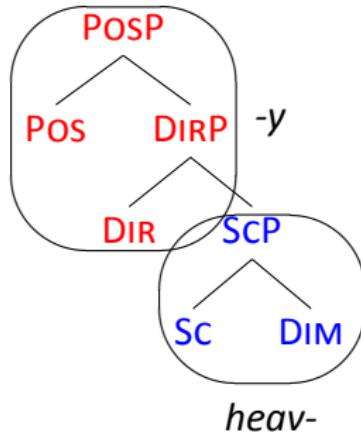
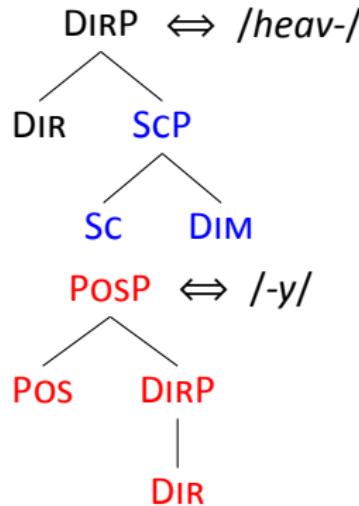
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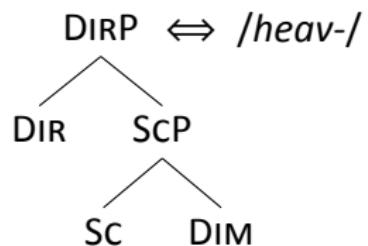
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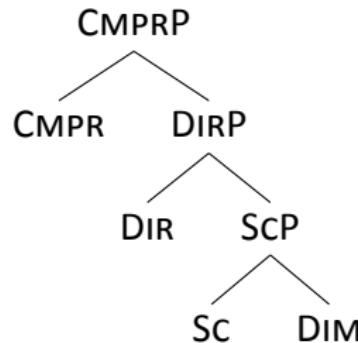
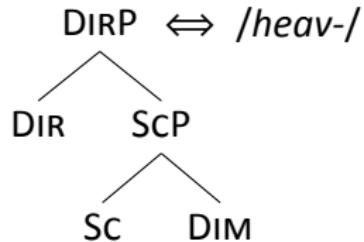
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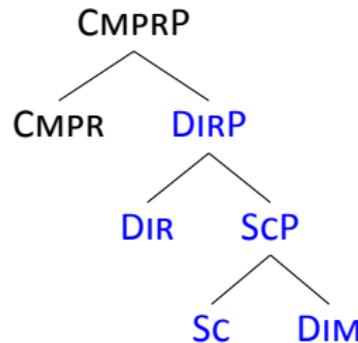
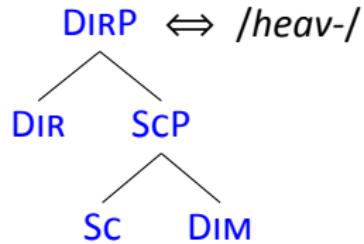
L-roots in the comparative (*heav-y* – *heav-er*)



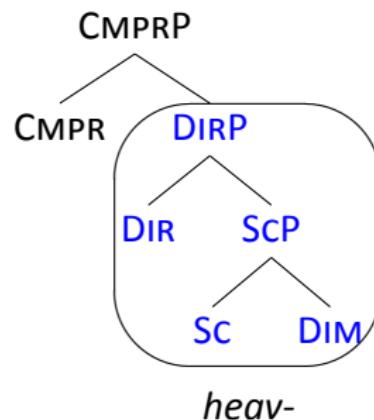
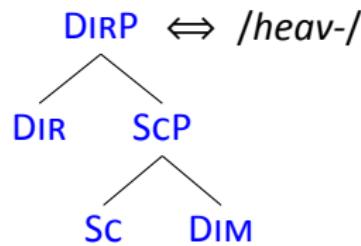
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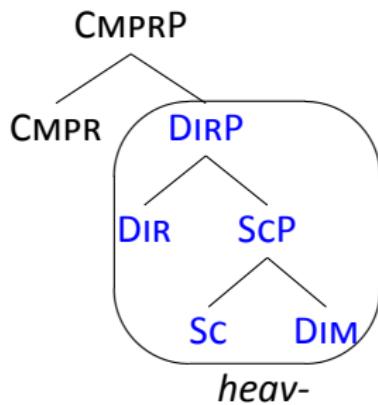
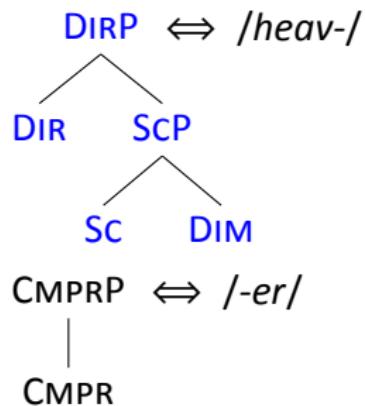
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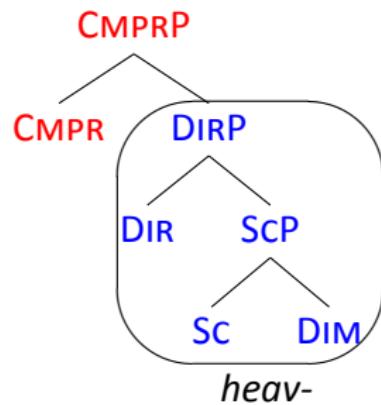
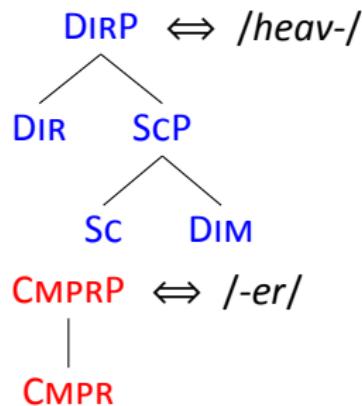
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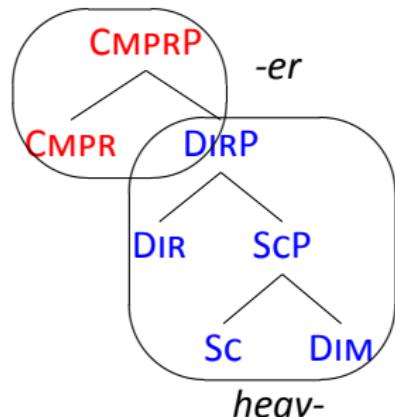
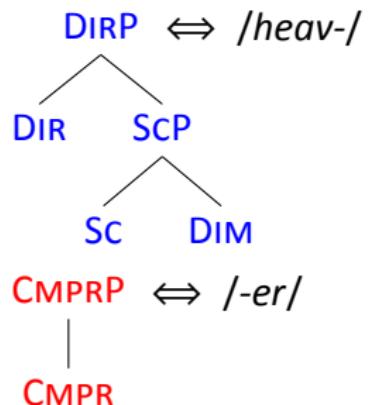
L-roots in the comparative (*heav-y* — *heav-er*)



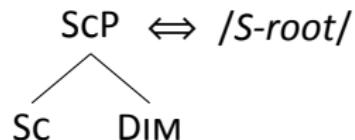
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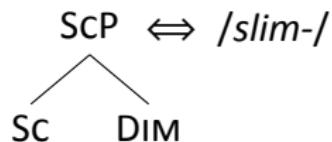
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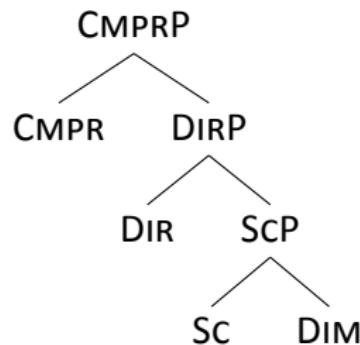
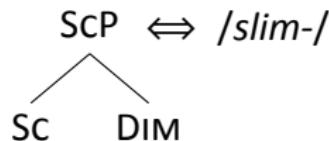
S-roots in the comparative (*slim-y* — *slim-y-er*)



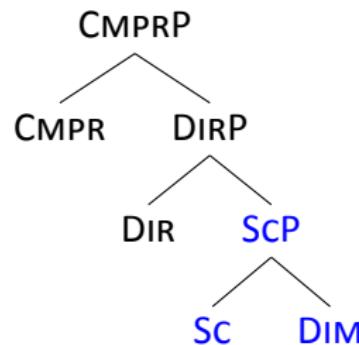
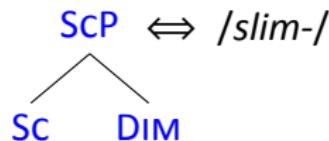
S-roots in the comparative (*slim-y* — *slim-y-er*)



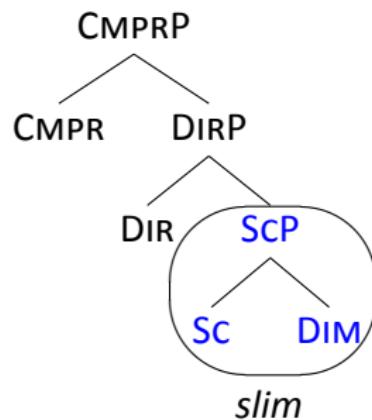
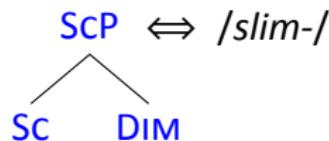
S-roots in the comparative (*slim-y* — *slim-y-er*)



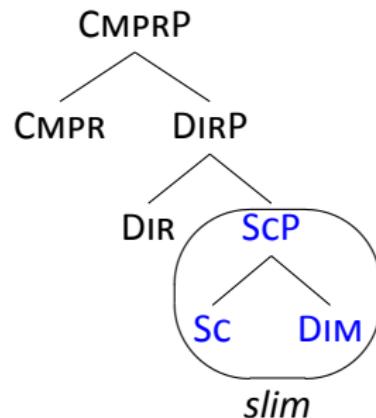
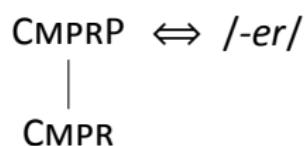
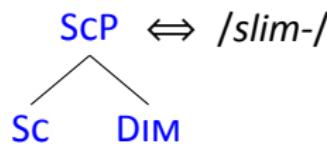
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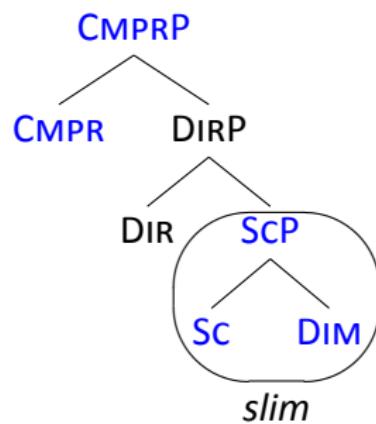
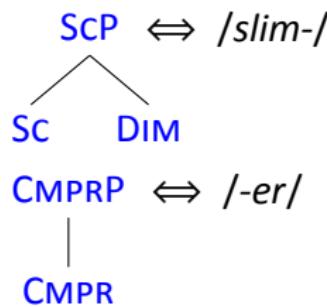
S-roots in the comparative (*slim-y* — *slim-y-er*)



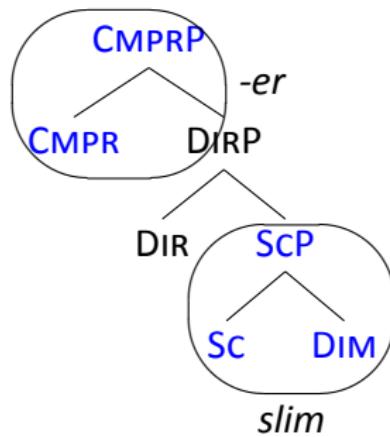
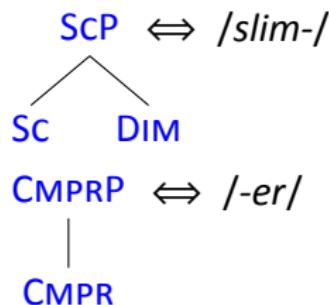
S-roots in the comparative (*slim-y* — *slim-y-er*)



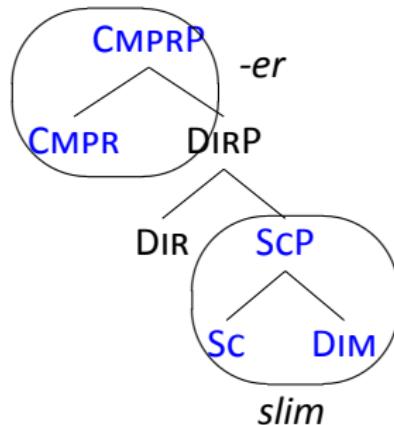
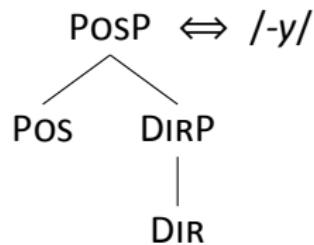
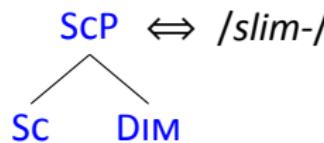
S-roots in the comparative (*slim-y* — *slim-y-er*)



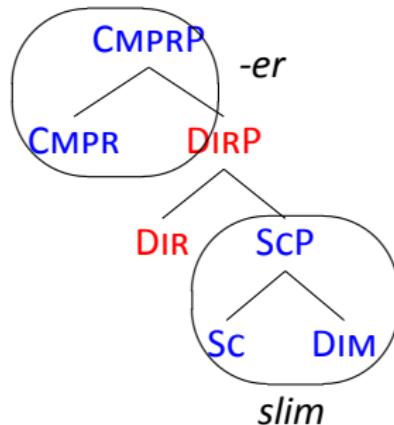
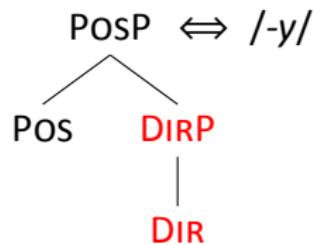
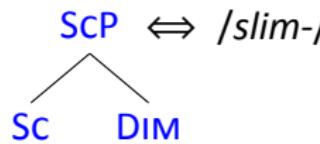
S-roots in the comparative (*slim-y* — *slim-y-er*)



S-roots in the comparative (*slim-y* — *slim-y-er*)



S-roots in the comparative (*slim-y* — *slim-y-er*)



S-roots in the comparative (*slim-y* — *slim-y-er*)

SCP \Leftrightarrow /*slim-*/

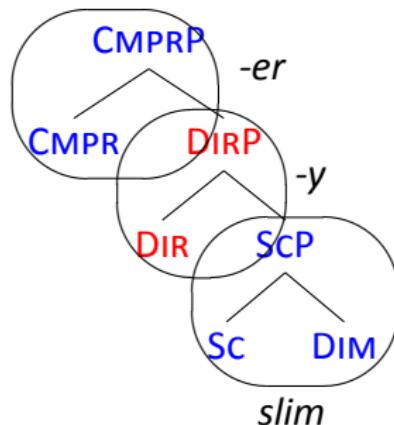
Sc DIM

CMPRP \Leftrightarrow /-er/

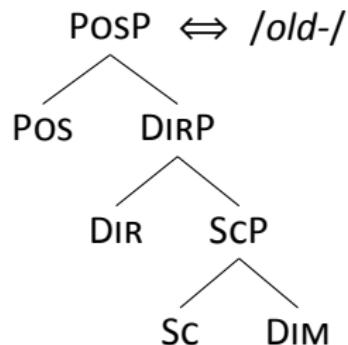
CMPR

PosP \Leftrightarrow /-y/

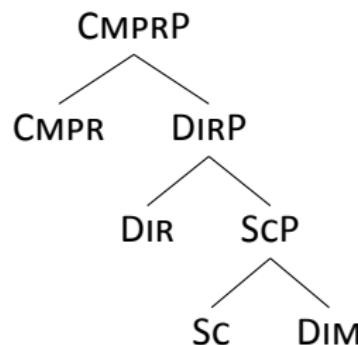
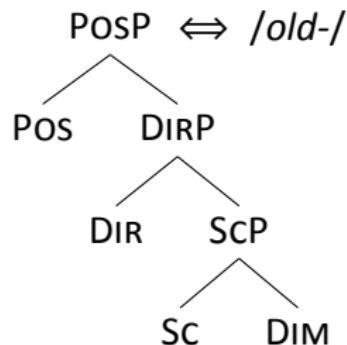
Pos DIRP
DIR



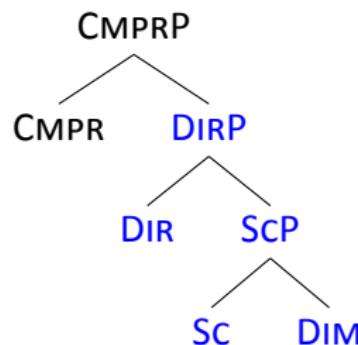
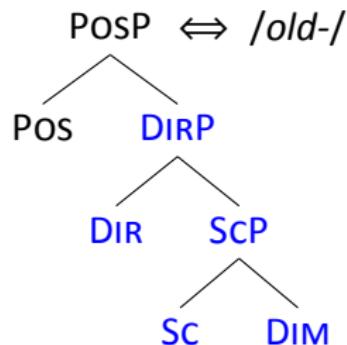
XL-roots in the comparative (*old* – *old-er*)



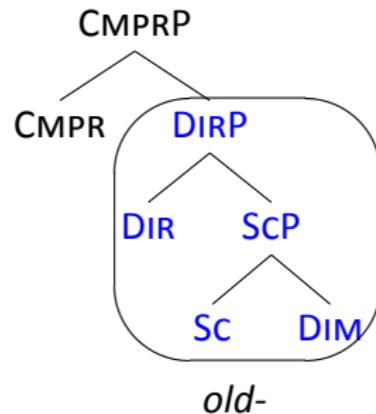
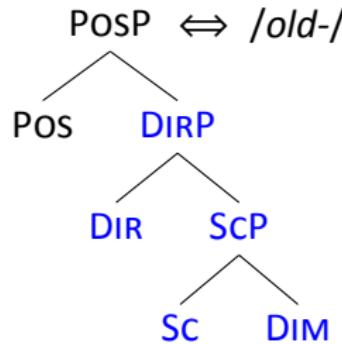
XL-roots in the comparative (*old* – *old-er*)



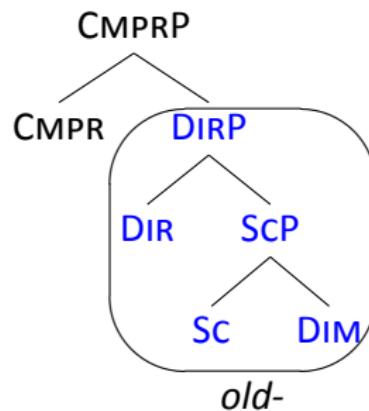
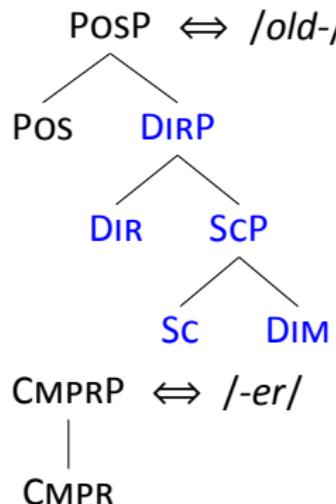
XL-roots in the comparative (*old* – *old-er*)



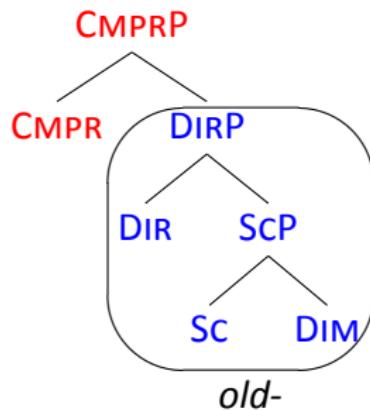
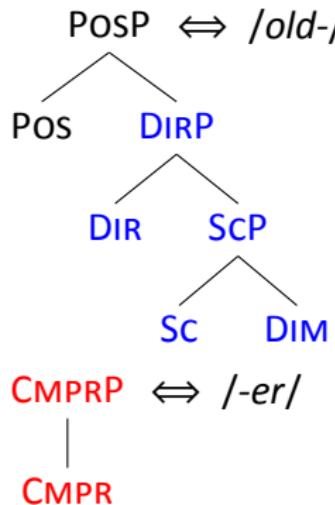
XL-roots in the comparative (*old* – *old-er*)



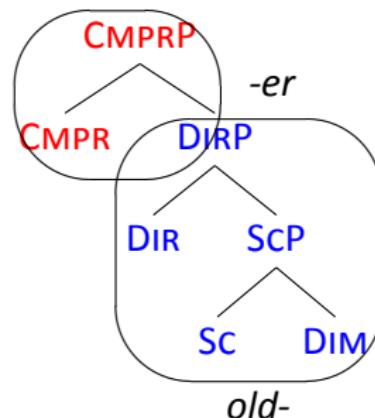
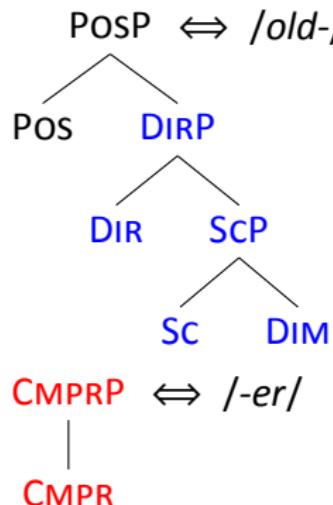
XL-roots in the comparative (*old* – *old-er*)



XL-roots in the comparative (*old* – *old-er*)



XL-roots in the comparative (*old* – *old-er*)



Introduction

Comparatives: data

An informal analysis

The spellout algorithm Starke (2018)

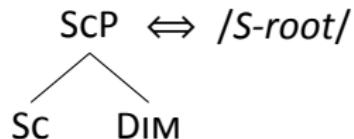
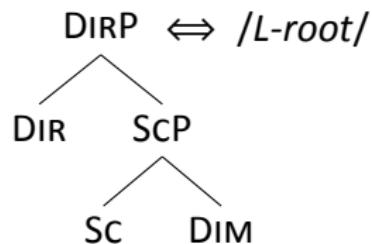
How to be POS

Root competition

- (21) *Free choice of the root:* When several roots match, the choice among them is free.

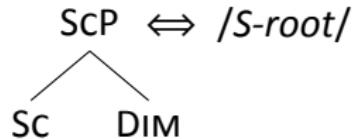
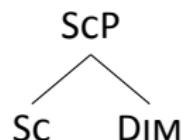
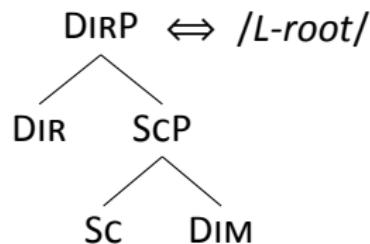
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- (21) *Free choice of the root:* When several roots match, the choice among them is free.



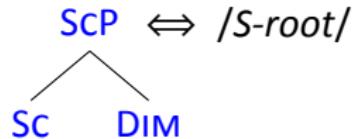
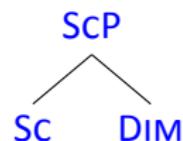
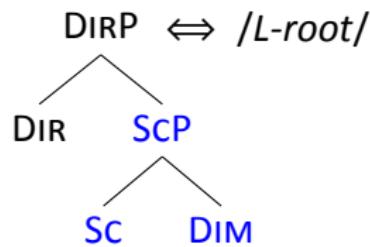
Root competition

- (21) *Free choice of the root:* When several roots match, the choice among them is free.



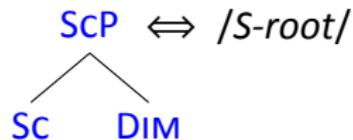
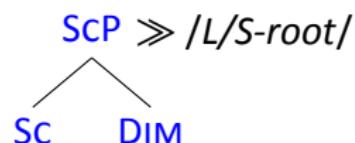
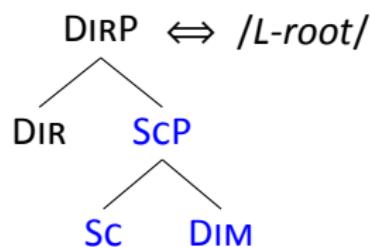
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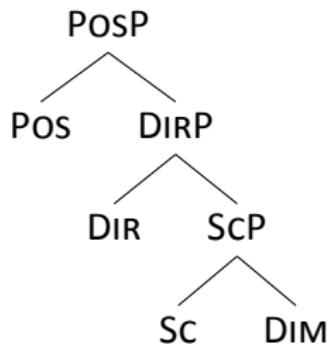
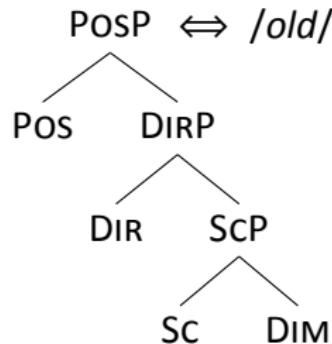


Root competition

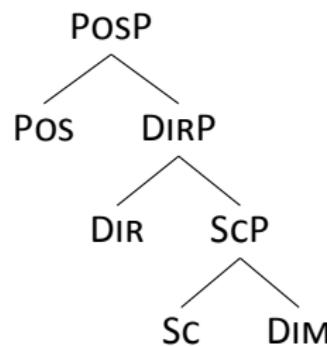
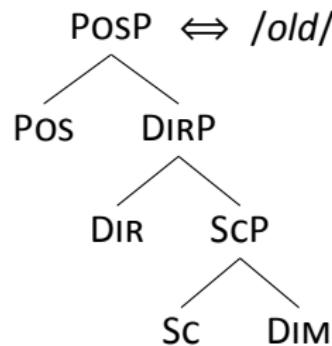
- (21) *Free choice of the root:* When several roots match, the choice among them is free.



Cyclic spellout, XL-root (*old*)

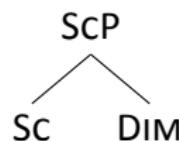
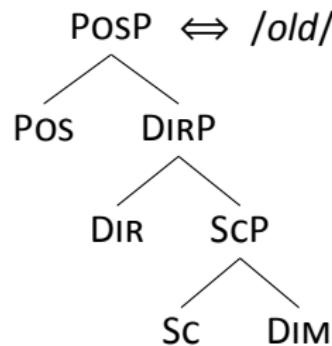


Cyclic spellout, XL-root (*old*)



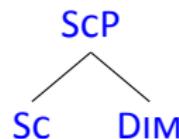
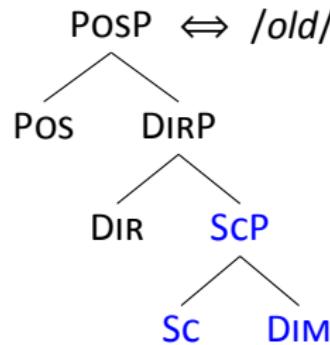
- (22) Merge F and
a. Spell out FP

Cyclic spellout, XL-root (*old*)



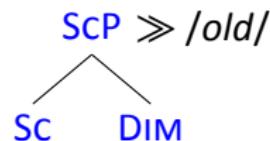
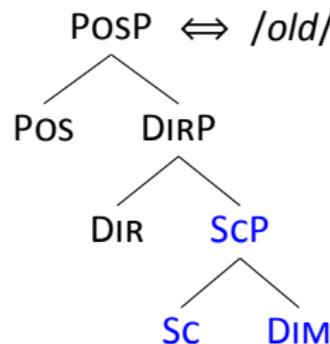
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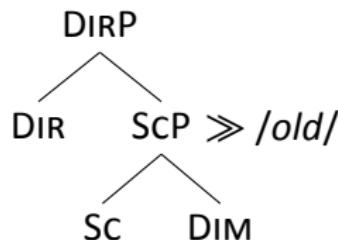
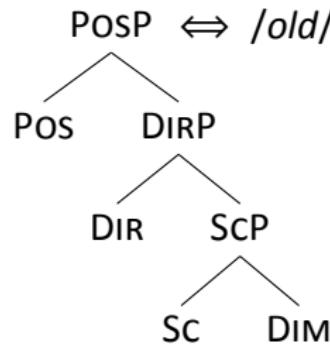
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Cyclic spellout, XL-root (*old*)



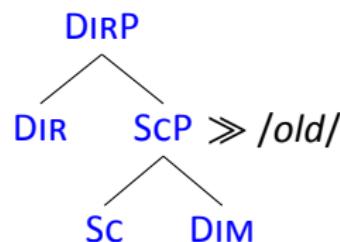
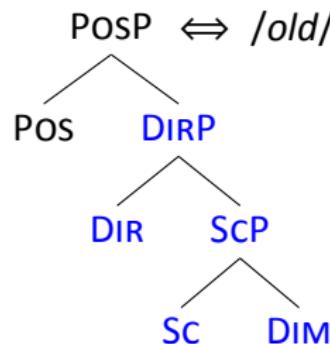
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Cyclic spellout, XL-root (*old*)



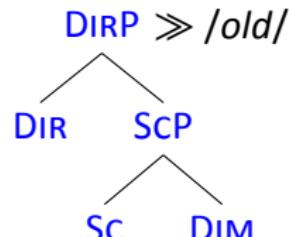
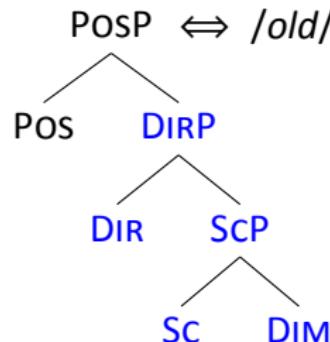
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Cyclic spellout, XL-root (*old*)



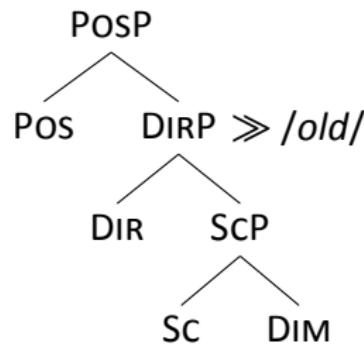
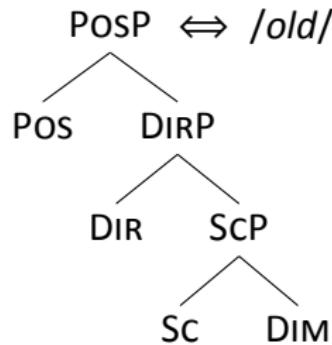
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Cyclic spellout, XL-root (*old*)



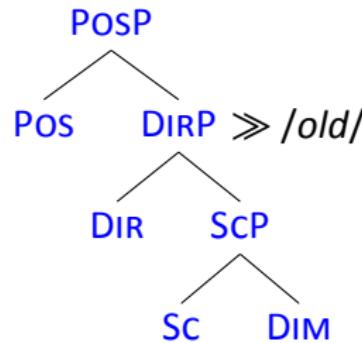
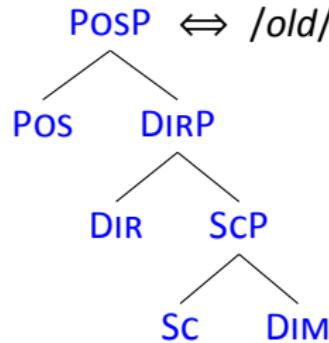
- (22) Merge F and
- Spell out FP
- (23) Cyclic over-ride: lexicalisation at a node XP over-rides any previous match at a phrase contained in XP.

Cyclic spellout, XL-root (*old*)



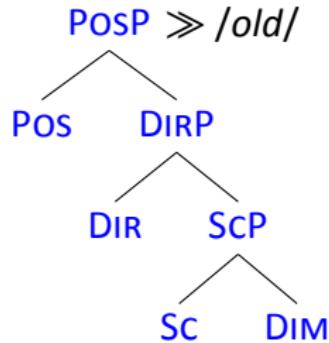
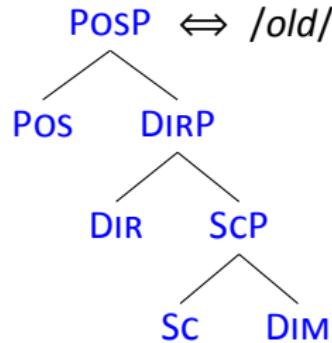
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Cyclic spellout, XL-root (*old*)



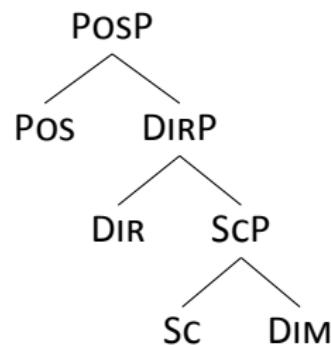
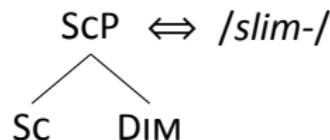
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Cyclic spellout, XL-root (*old*)

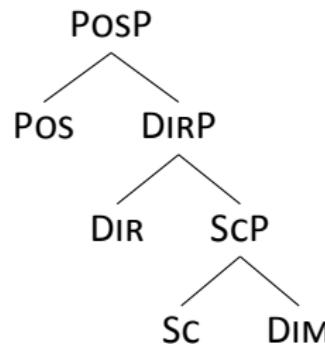
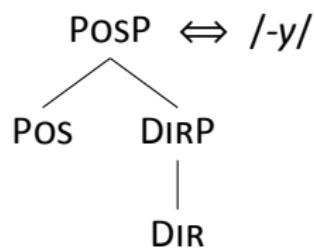
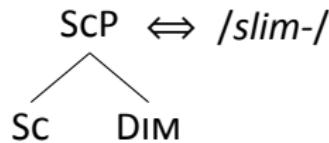


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Spellout Driven Movement, S-root (*slim-y*)

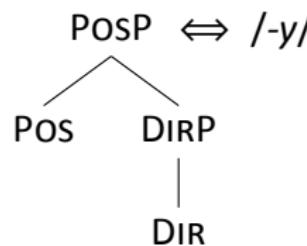
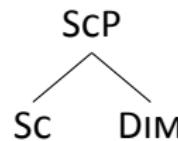
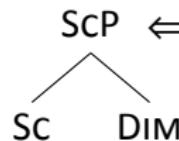


Spellout Driven Movement, S-root (*slim-y*)



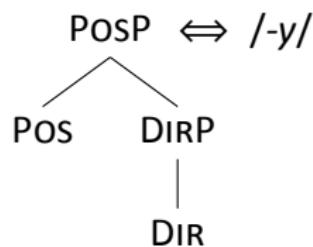
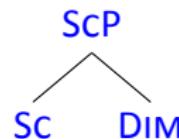
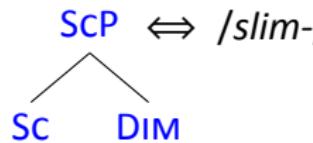
- (23) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)

Spellout Driven Movement, S-root (*slim-y*)



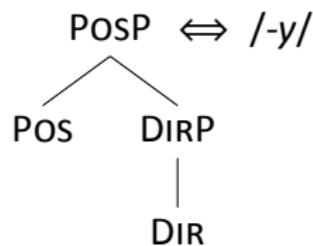
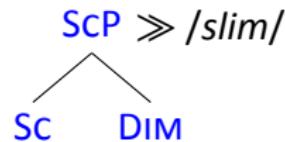
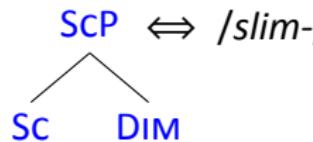
- (23) **Merge F** and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
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Spellout Driven Movement, S-root (*slim-y*)



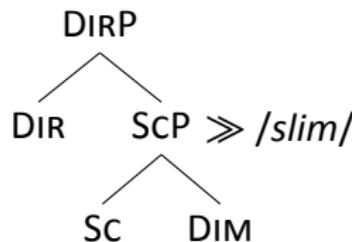
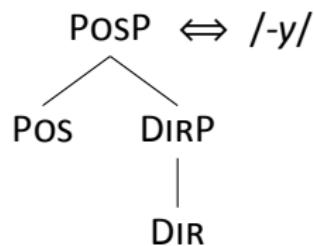
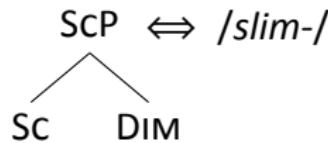
- (23) Merge F and
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Spellout Driven Movement, S-root (*slim-y*)



- (23) Merge F and
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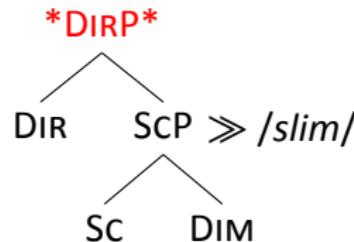
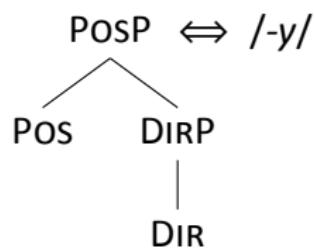
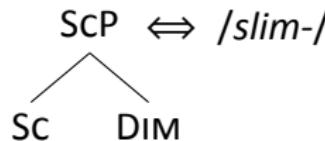
Spellout Driven Movement, S-root (*slim-y*)



(23) **Merge F** and

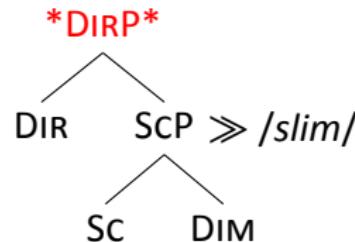
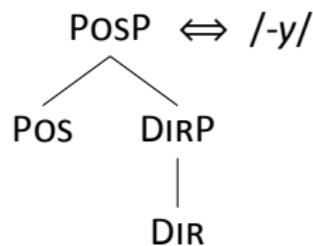
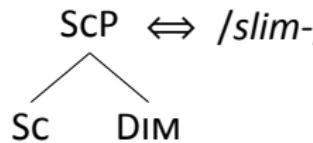
- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

Spellout Driven Movement, S-root (*slim-y*)



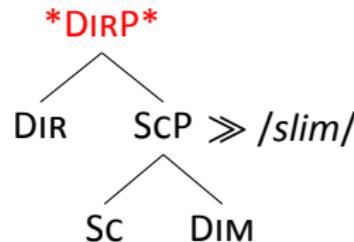
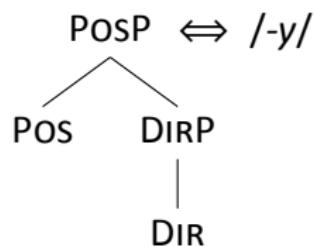
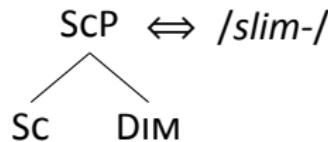
- (23) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)

Spellout Driven Movement, S-root (*slim-y*)



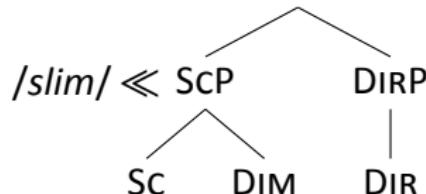
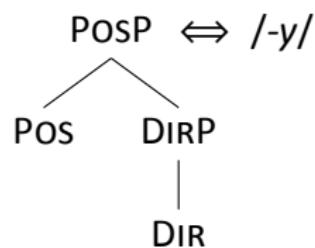
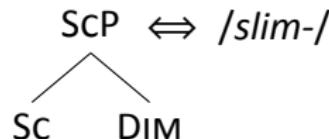
- (23) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)

Spellout Driven Movement, S-root (*slim-y*)



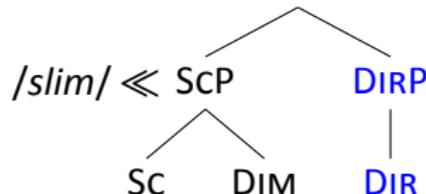
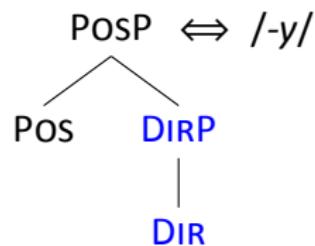
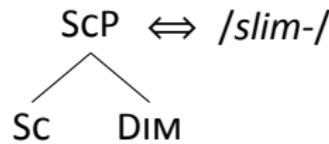
- (23) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)**

Spellout Driven Movement, S-root (*slim-y*)



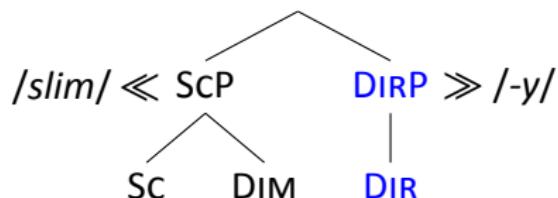
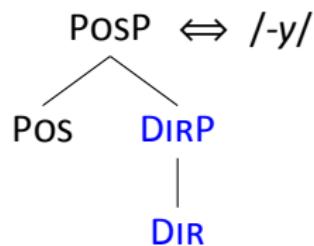
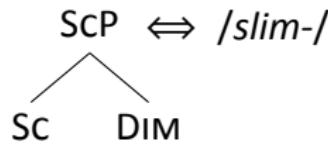
- (23) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)**

Spellout Driven Movement, S-root (*slim-y*)



- (23) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
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Spellout Driven Movement, S-root (*slim-y*)



(23) Merge F and

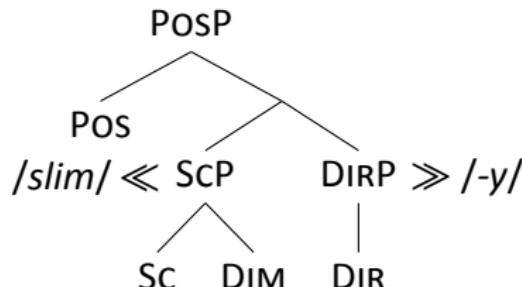
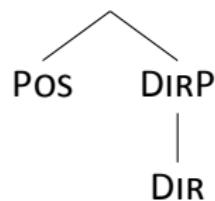
- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

Spellout Driven Movement, S-root (*slim-y*)

ScP \Leftrightarrow /*slim-*/



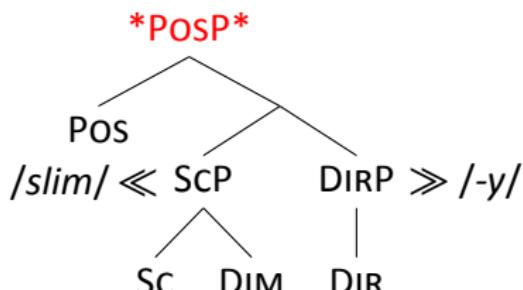
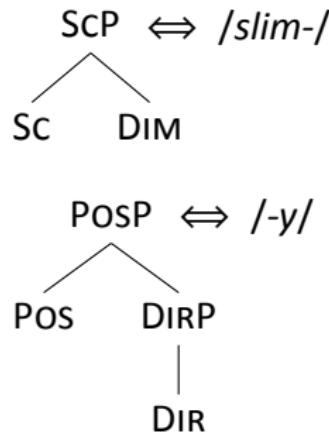
PosP \Lleftarrow /-y/



(23) **Merge F and**

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

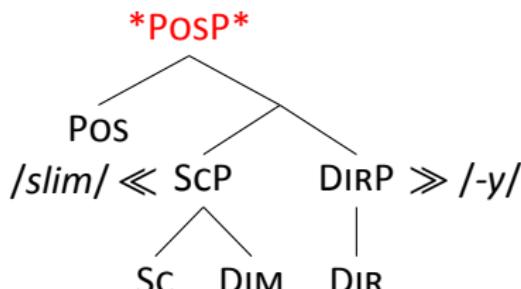
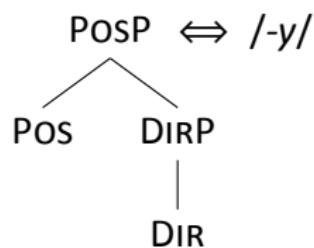
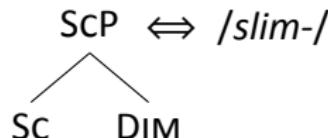
Spellout Driven Movement, S-root (*slim-y*)



(23) Merge F and

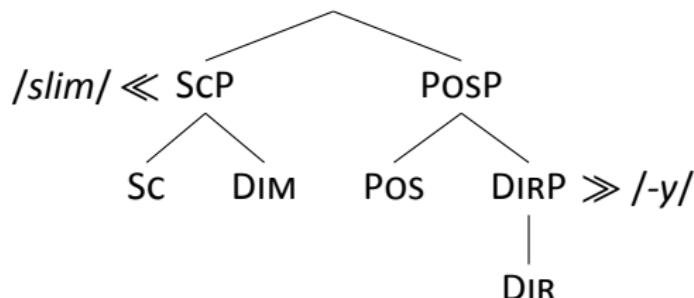
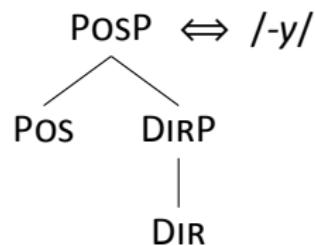
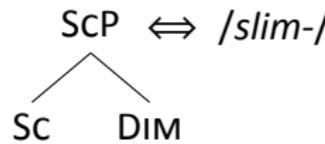
- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

Spellout Driven Movement, S-root (*slim-y*)



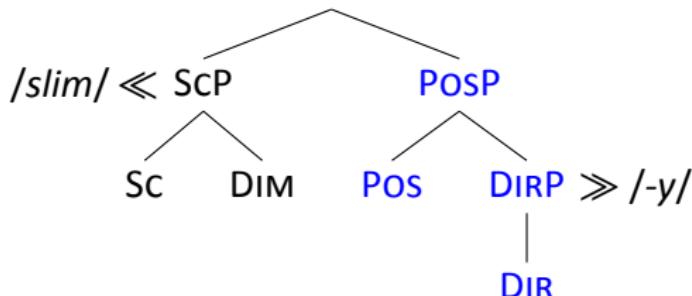
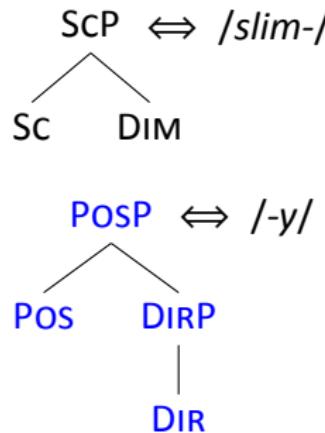
- (23) Merge F and
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Spellout Driven Movement, S-root (*slim-y*)



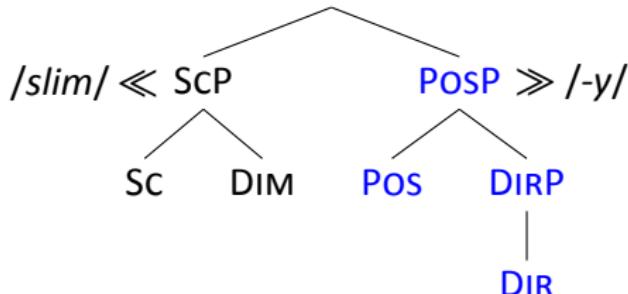
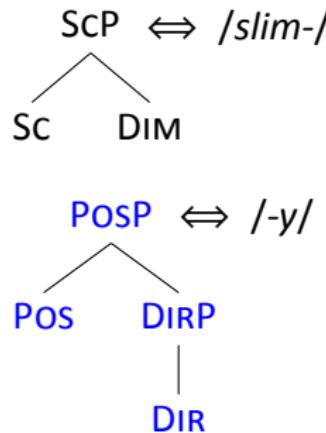
- (23) Merge F and
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Spellout Driven Movement, S-root (*slim-y*)



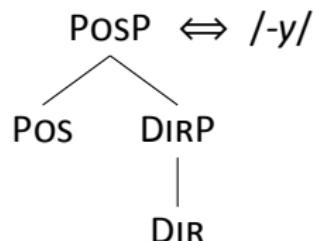
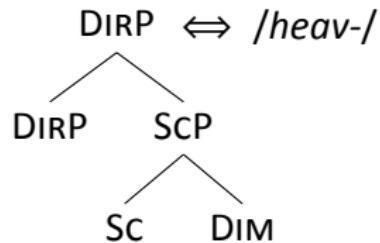
- (23) Merge F and
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Spellout Driven Movement, S-root (*slim-y*)

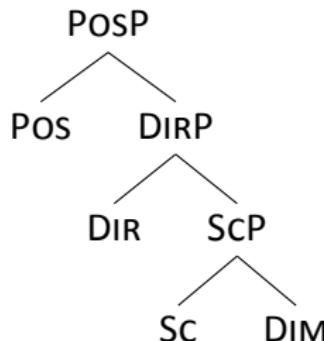
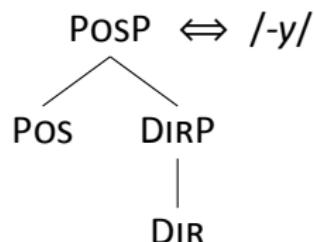
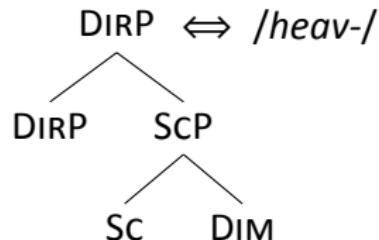


- (23) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)

Backtracking, L-root (*heav-y*)

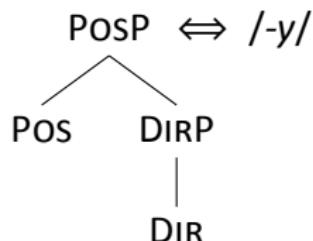
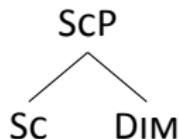
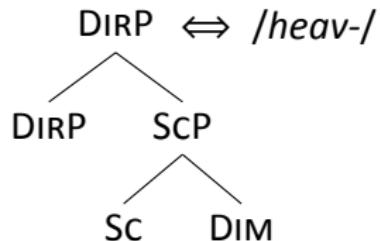


Backtracking, L-root (*heav-y*)



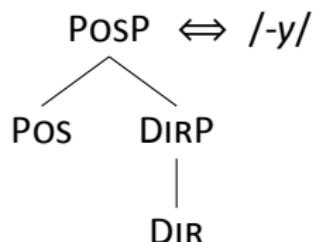
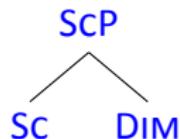
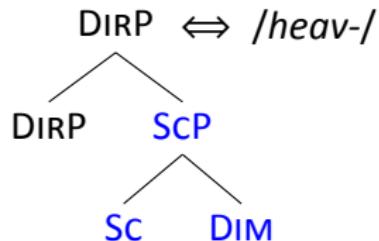
- (24) Merge F and
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 - If (b) fails, move the complement of F, and retry (a)

Backtracking, L-root (*heav-y*)



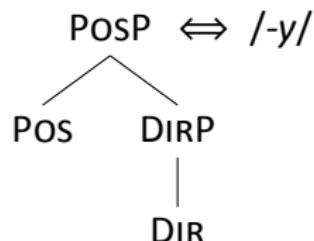
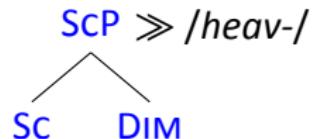
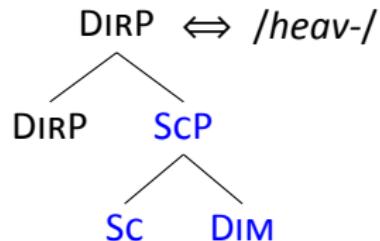
- (24) **Merge F and**
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 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
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Backtracking, L-root (*heav-y*)



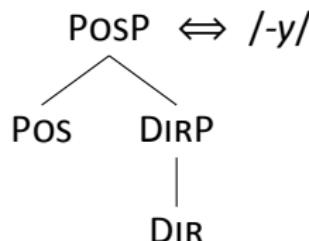
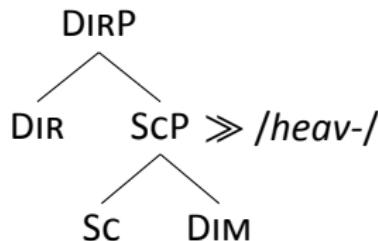
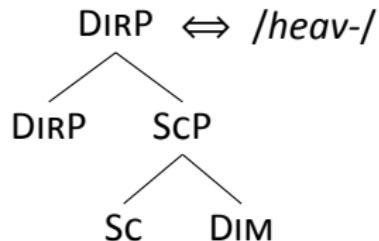
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Backtracking, L-root (*heav-y*)



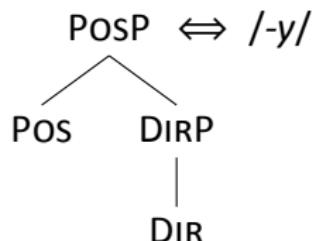
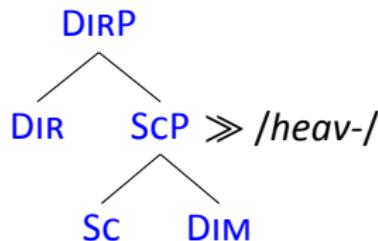
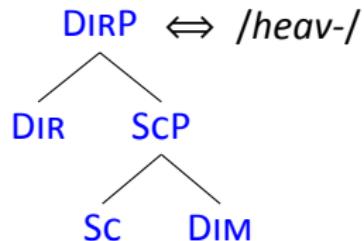
- (24) Merge F and
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Backtracking, L-root (*heav-y*)



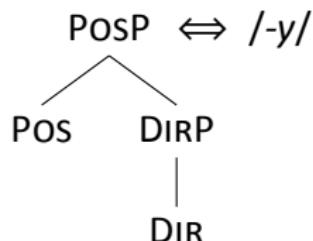
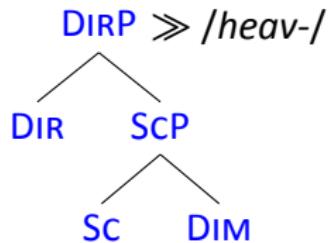
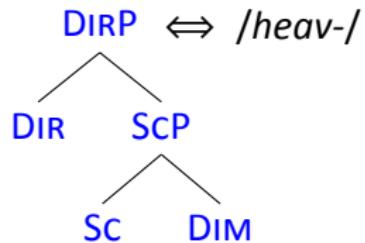
- (24) **Merge F and**
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Backtracking, L-root (*heav-y*)



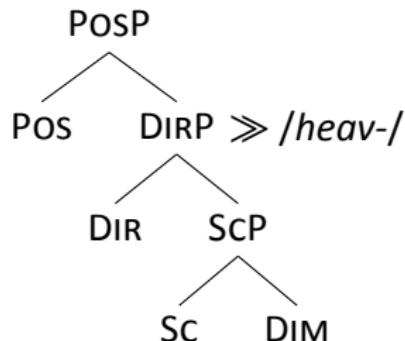
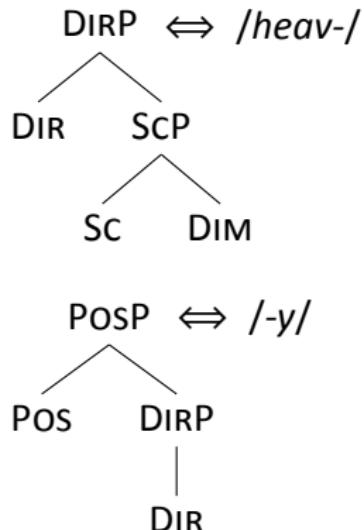
- (24) Merge F and
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Backtracking, L-root (*heav-y*)



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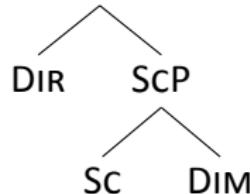
Backtracking, L-root (*heav-y*)



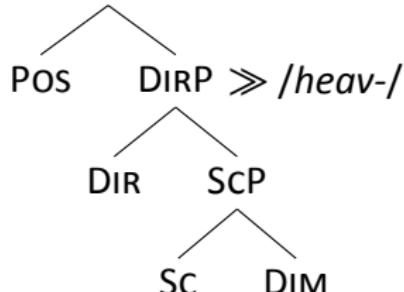
- (24) **Merge F and**
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Backtracking, L-root (*heav-y*)

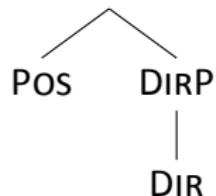
DIRP $\Leftrightarrow /heav-/$



POSP



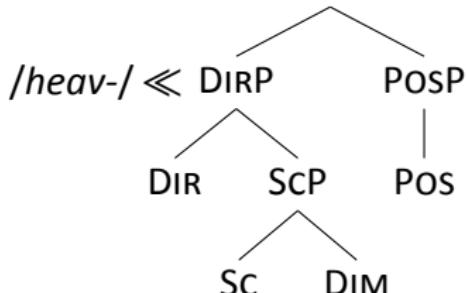
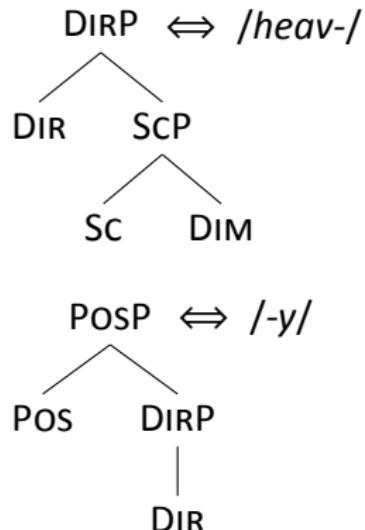
POSP $\Leftrightarrow /-y/$



(24) Merge F and

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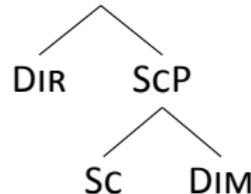
Backtracking, L-root (*heav-y*)



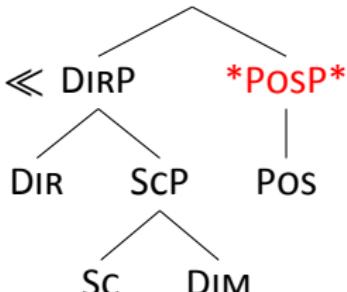
- (24) Merge F and
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Backtracking, L-root (*heav-y*)

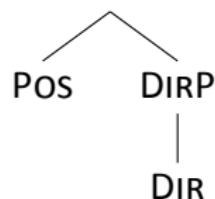
DIRP $\Leftrightarrow /heav-/$



/heav-/ \ll DIRP



POSP $\Leftrightarrow /-y/$

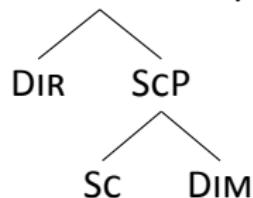


(24) Merge F and

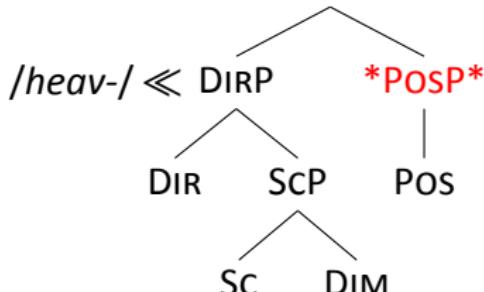
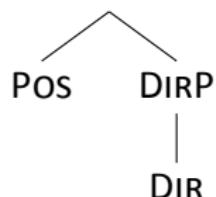
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Backtracking, L-root (*heav-y*)

DIRP $\Leftrightarrow /heav-/$



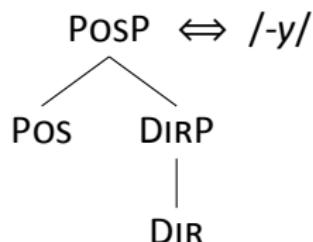
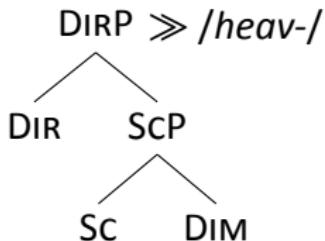
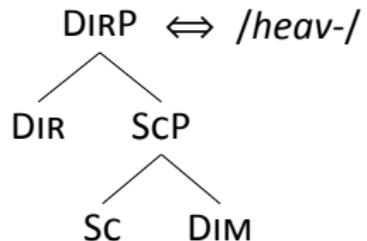
POSP $\Lleftarrow /-y/$



Backtracking: When spellout fails, go back to the previous cycle, and try the next option for that cycle

- (24) Merge F and
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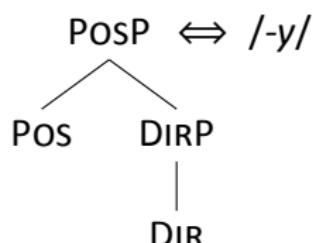
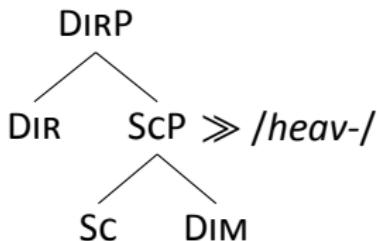
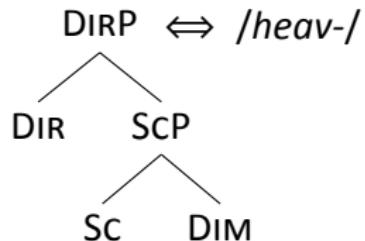
Backtracking, L-root (*heav-y*)



Backtracking: When spellout fails, go back to the previous cycle, and try the next option for that cycle

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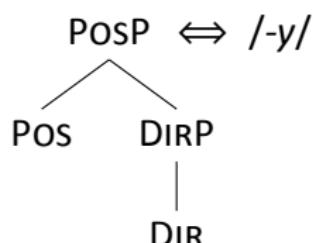
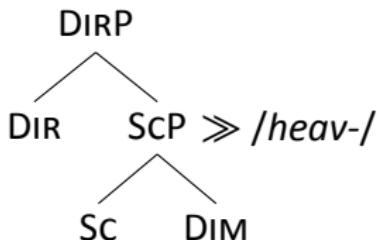
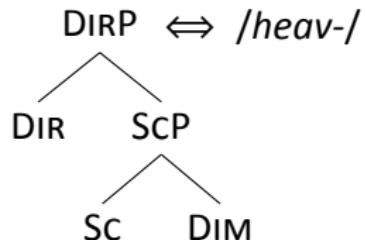
Backtracking, L-root (*heav-y*)



Backtracking: When spellout fails, go back to the previous cycle, and **try the next option for that cycle**

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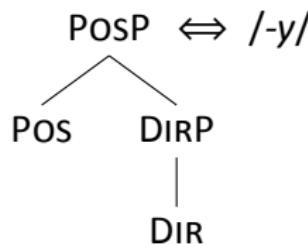
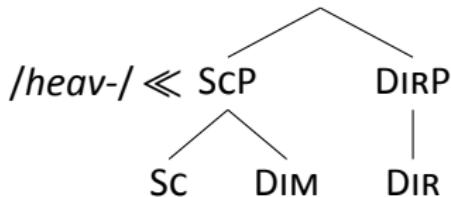
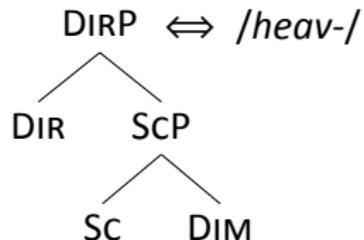
Backtracking, L-root (*heav-y*)



Backtracking: When spellout fails, go back to the previous cycle, and **try the next option for that cycle**

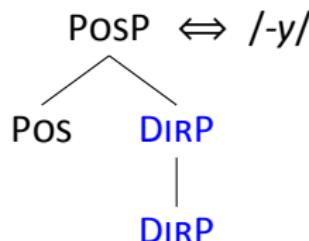
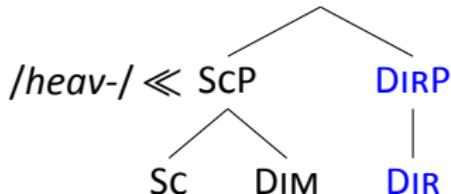
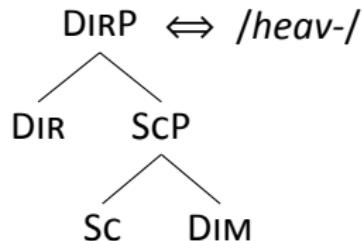
- (24) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)**

Backtracking, L-root (*heav-y*)



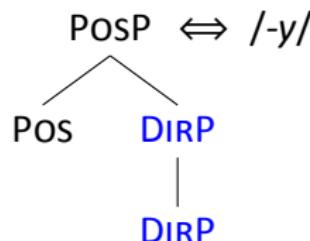
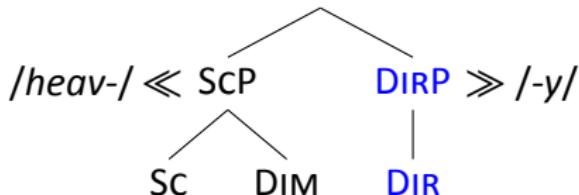
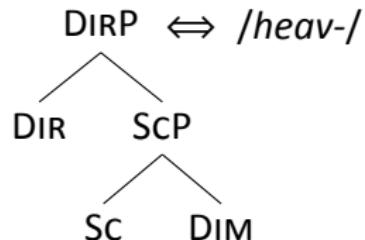
- (24) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)

Backtracking, L-root (*heav-y*)



- (24) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)

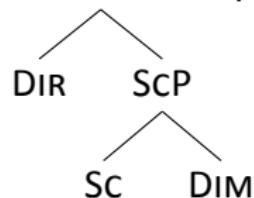
Backtracking, L-root (*heav-y*)



- (24) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)

Backtracking, L-root (*heav-y*)

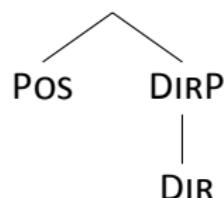
DIRP $\Leftrightarrow /heav-/$



PosP
/heav-/ << SCP >> /-y/
DIRP



PosP $\Leftrightarrow /-y/$

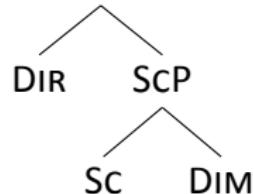


(24) **Merge F and**

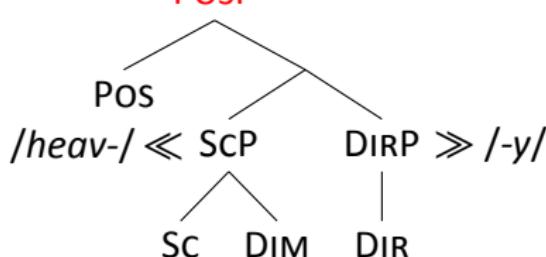
- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

Backtracking, L-root (*heav-y*)

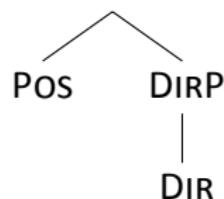
DIRP $\Leftrightarrow /heav-/$



PosP



PosP $\Leftrightarrow /-y/$

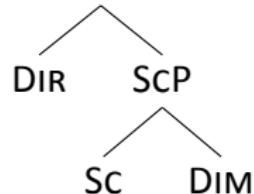


(24) Merge F and

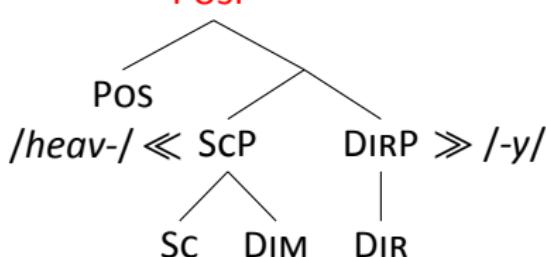
- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

Backtracking, L-root (*heav-y*)

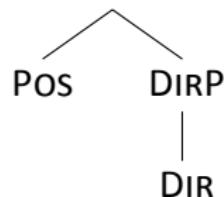
DIRP $\Leftrightarrow /heav-/$



PosP



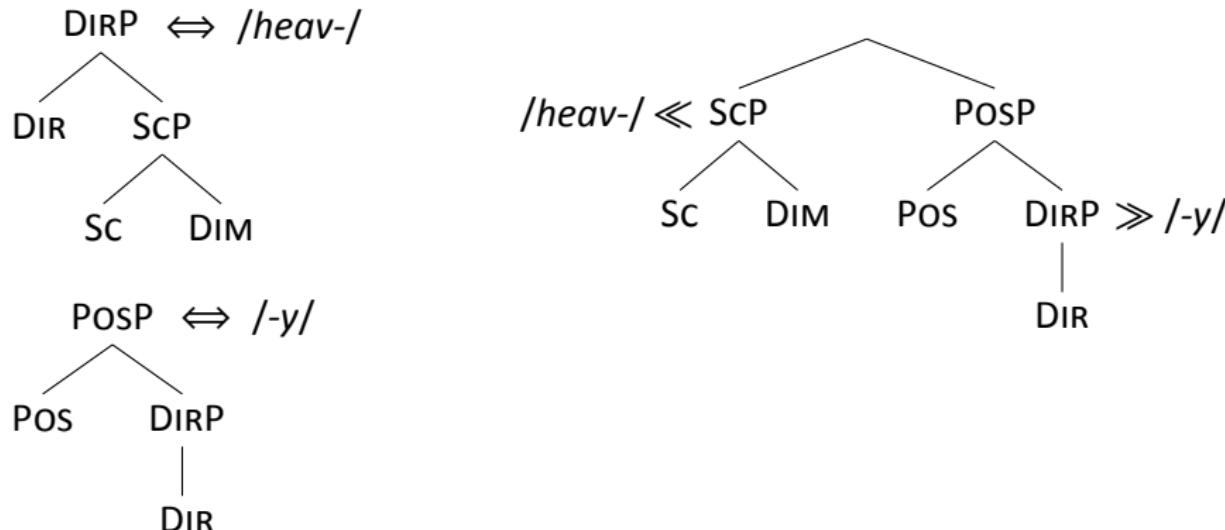
PosP $\Leftrightarrow /-y/$



(24) Merge F and

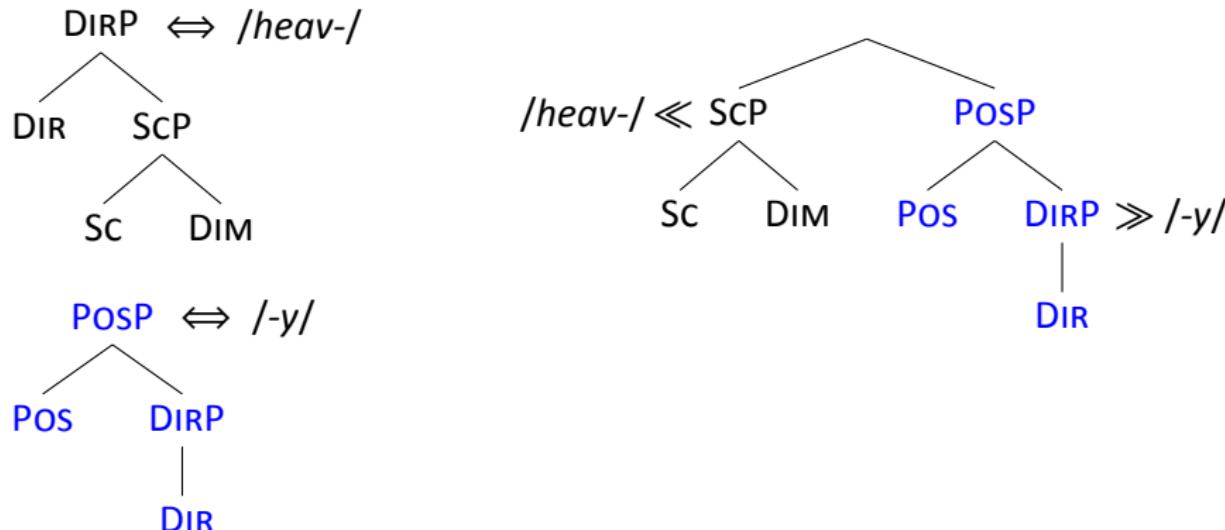
- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

Backtracking, L-root (*heav-y*)



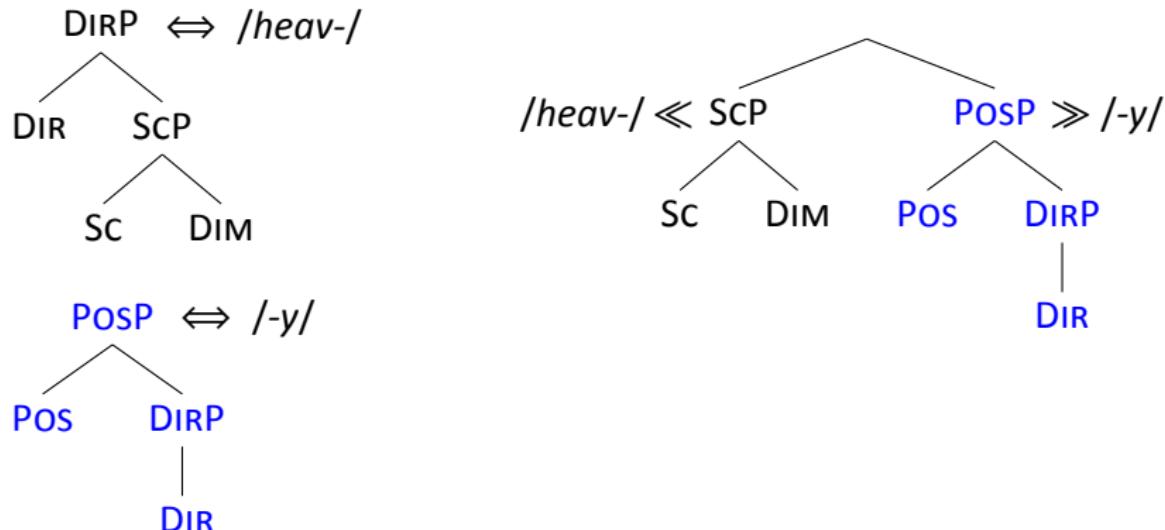
- (24) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)

Backtracking, L-root (*heav-y*)



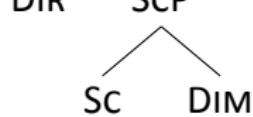
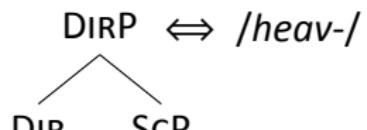
- (24) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)

Backtracking, L-root (*heav-y*)

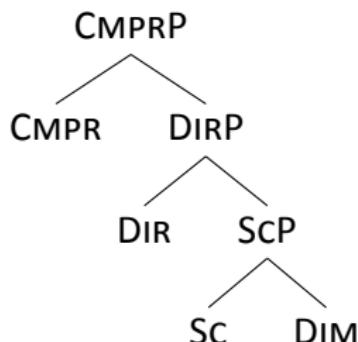


- (24) Merge F and
- Spell out FP
 - If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
 - If (b) fails, move the complement of F, and retry (a)

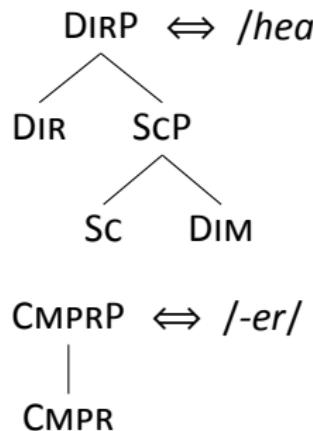
The comparative of an L-root (*heav-y* – *heav-er*)



CMPRP $\Leftrightarrow /-er/$



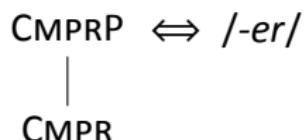
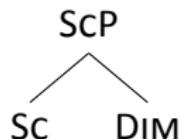
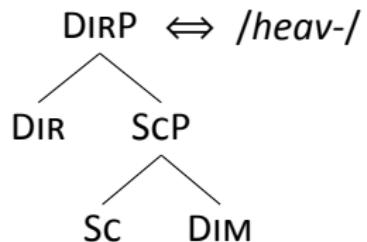
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

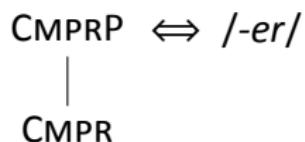
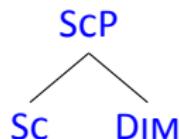
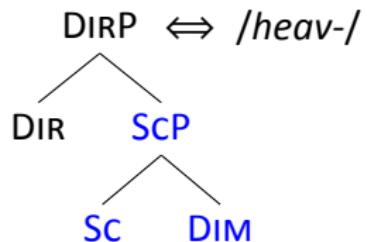
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

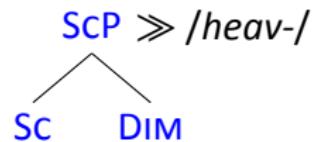
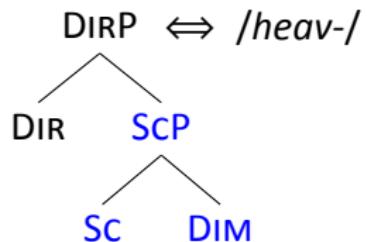
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
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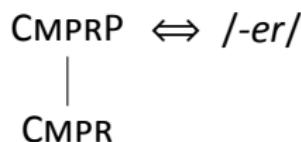
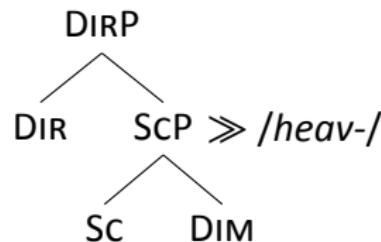
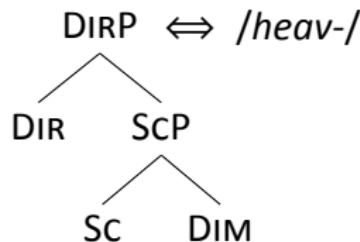
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

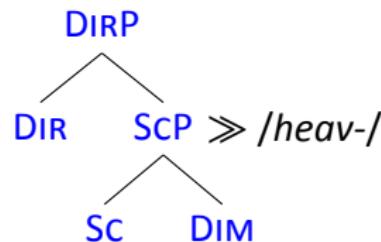
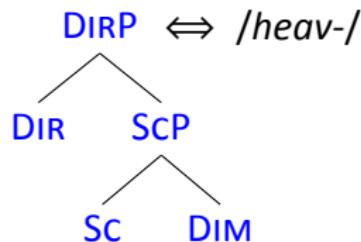
The comparative of an L-root (*heav-y* – *heav-er*)



(25) **Merge F**

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

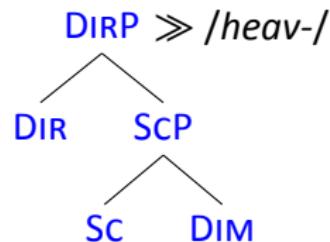
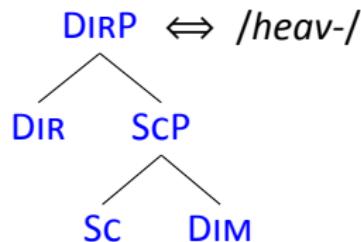
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

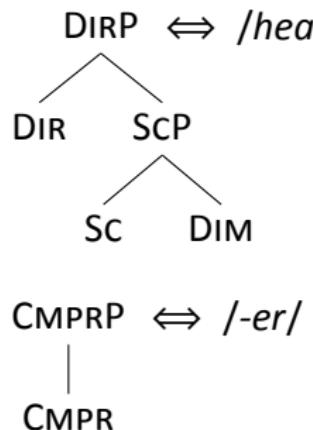
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

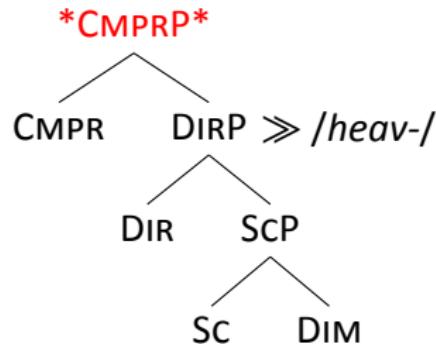
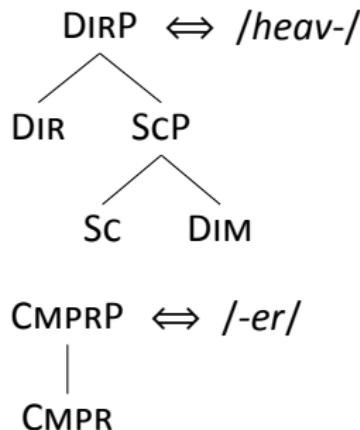
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

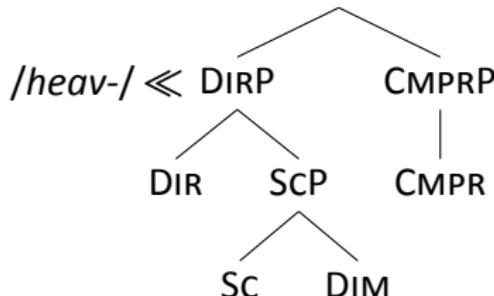
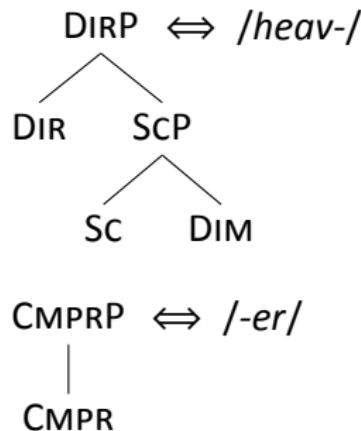
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
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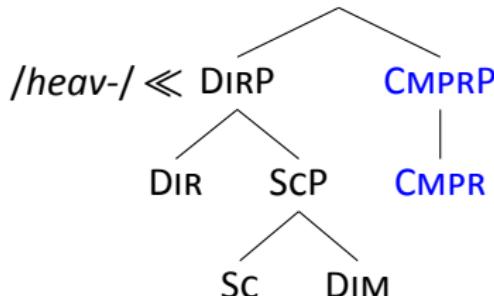
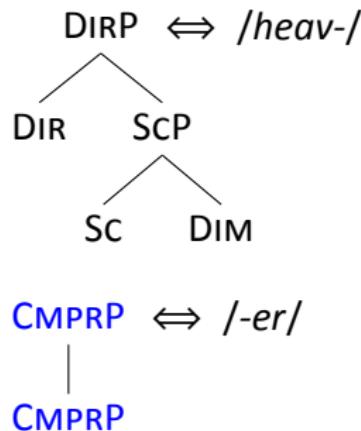
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)**

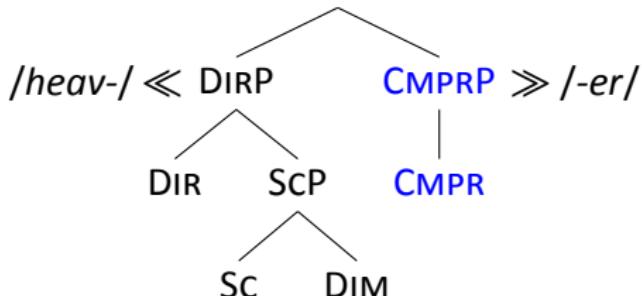
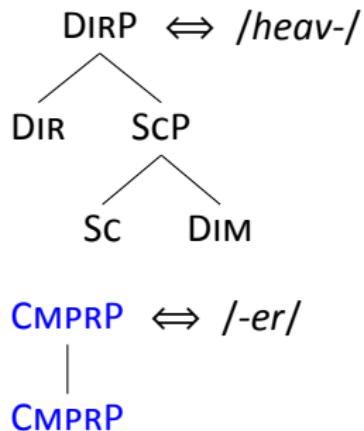
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
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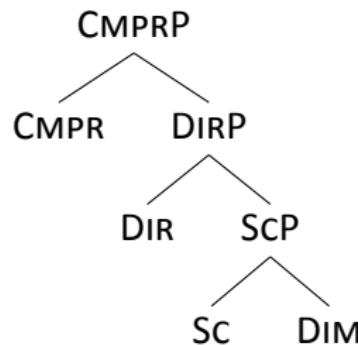
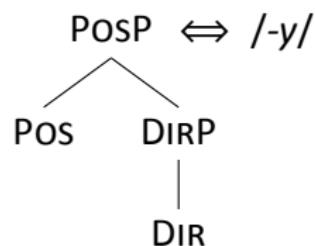
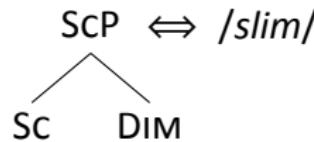
The comparative of an L-root (*heav-y* – *heav-er*)



(25) Merge F

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
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The comparative of an S-root (*slim-y* — *slim-y-er*)

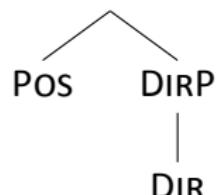


The comparative of an S-root (*slim-y* — *slim-y-er*)

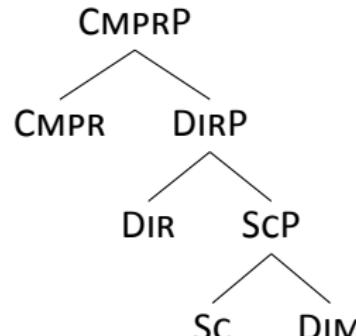
ScP \Leftrightarrow /*slim*/



PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



(26) Merge F and

- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

The comparative of an S-root (*slim-y* — *slim-y-er*)

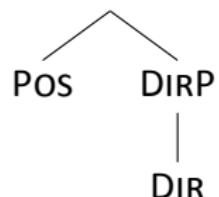
ScP \Leftrightarrow /*slim*/



ScP



PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/

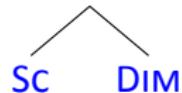


(26) **Merge F** and

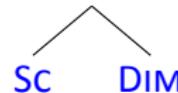
- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
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The comparative of an S-root (*slim-y* — *slim-y-er*)

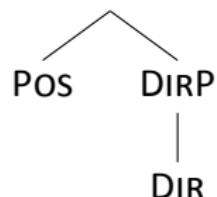
ScP \Leftrightarrow /slim/



ScP



PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/

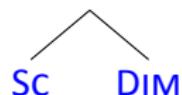


(26) Merge F and

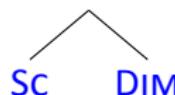
- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
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The comparative of an S-root (*slim-y* — *slim-y-er*)

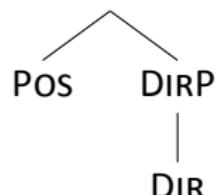
ScP \Leftrightarrow /slim/



ScP \gg /slim/



PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



(26) Merge F and

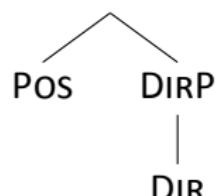
- Spell out FP
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The comparative of an S-root (*slim-y* — *slim-y-er*)

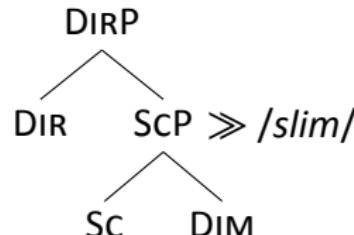
ScP \Leftrightarrow /*slim*/



PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



(26) **Merge F** and

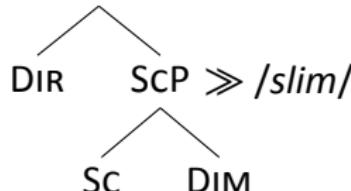
- Spell out FP
- If (a) fails, attempt movement of the spec of the complement of F, and retry (a)
- If (b) fails, move the complement of F, and retry (a)

The comparative of an S-root (*slim-y* — *slim-y-er*)

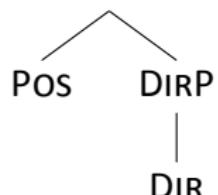
ScP \Leftrightarrow /slim/



DIRP



PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



(26) Merge F and

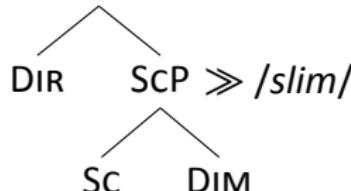
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The comparative of an S-root (*slim-y* — *slim-y-er*)

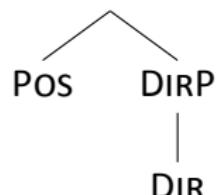
ScP \Leftrightarrow /slim/



DIRP



PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



(26) Merge F and

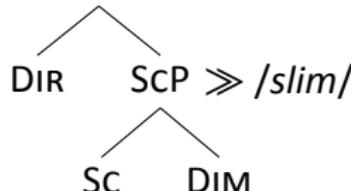
- Spell out FP
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The comparative of an S-root (*slim-y* — *slim-y-er*)

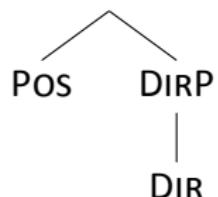
ScP \Leftrightarrow /slim/



DIRP



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The comparative of an S-root (*slim-y* — *slim-y-er*)

ScP \Leftrightarrow /*slim*/

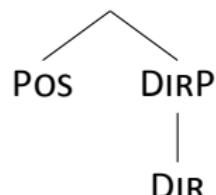


/*slim*/ \ll ScP

```
graph TD; /slim/ --> ScP; ScP --> Sc; ScP --> DIM; ScP --> DIRP; DIRP --> DIR
```

A tree diagram showing /slim/ branching into ScP, which then branches into Sc, DIM, and DIRP. DIRP further branches into DIR.

PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



(26) Merge F and

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The comparative of an S-root (*slim-y* — *slim-y-er*)

ScP \Leftrightarrow /*slim*/

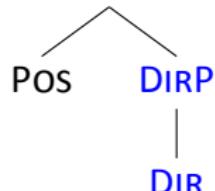


/*slim*/ \ll ScP

```
graph TD; /slim/ --> ScP; ScP --> Sc; ScP --> DIM; ScP --> DIRP; DIRP --> DIR
```

A tree diagram for the word /slim/. It starts with a node labeled /slim/ which dominates ScP. ScP then branches into Sc, DIM, and another node labeled DIRP. The DIRP node further dominates a node labeled DIR.

PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



(26) Merge F and

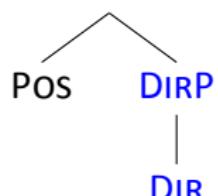
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The comparative of an S-root (*slim-y* — *slim-y-er*)

ScP \Leftrightarrow /*slim*/



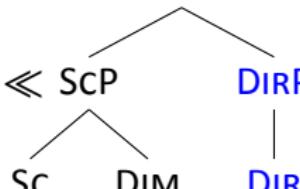
PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



/*slim*/ \ll ScP \gg /-y/



(26) Merge F and

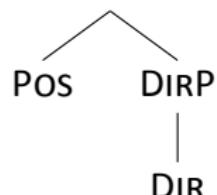
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The comparative of an S-root (*slim*-y — *slim*-y-er)

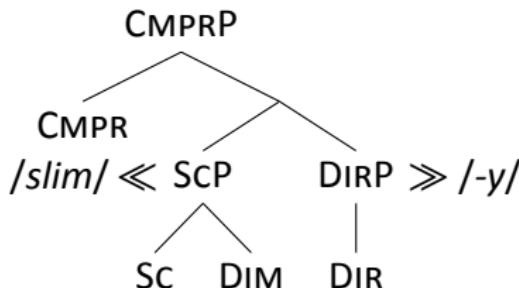
ScP \Leftrightarrow /*slim*/



PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



(26) **Merge F and**

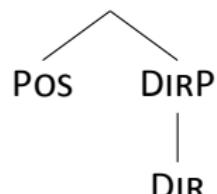
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The comparative of an S-root (*slim-y* — *slim-y-er*)

ScP \Leftrightarrow /*slim*/



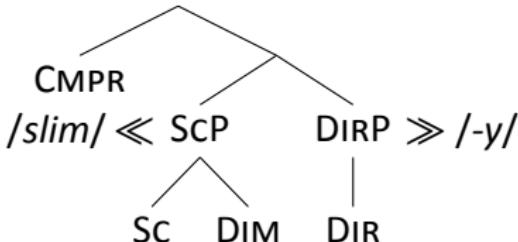
PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



CMPPR



(26) Merge F and

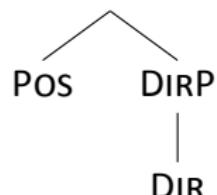
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The comparative of an S-root (*slim-y* — *slim-y-er*)

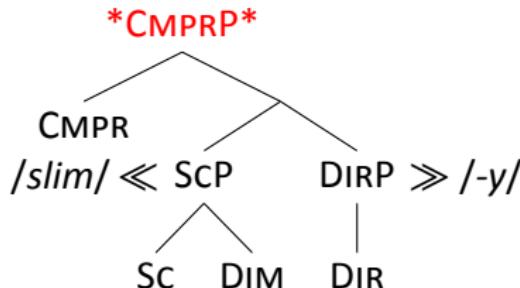
ScP \Leftrightarrow /*slim*/



PosP \Leftrightarrow /-y/



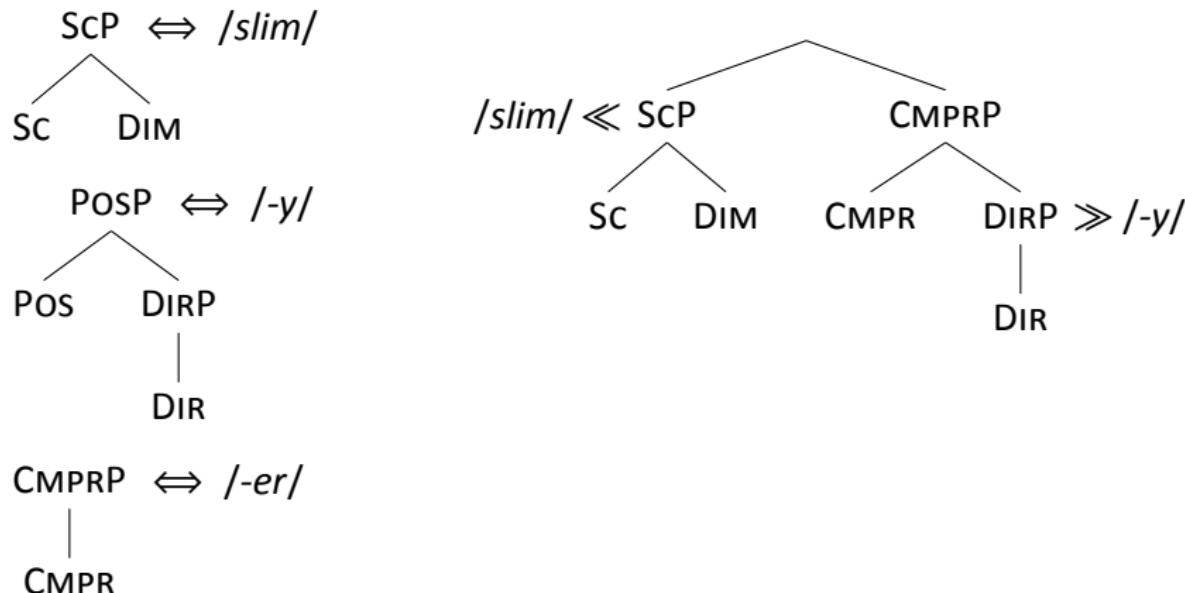
CMPRP \Leftrightarrow /-er/



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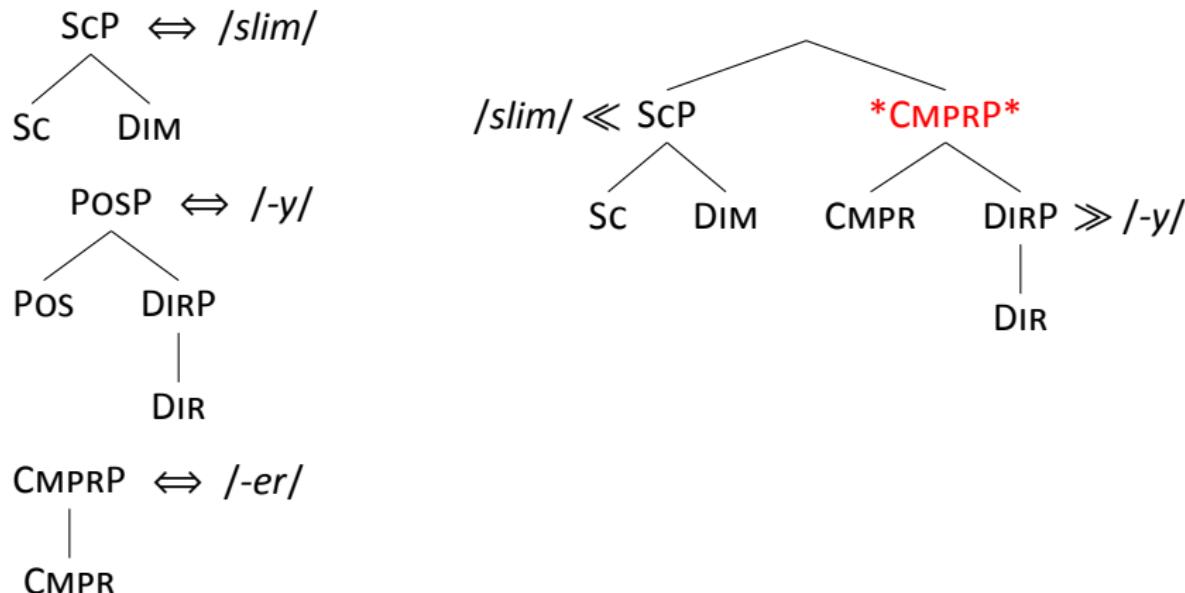
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The comparative of an S-root (*slim-y* — *slim-y-er*)



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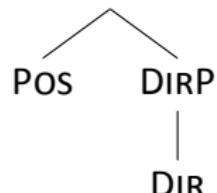
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ScP \Leftrightarrow /*slim*/



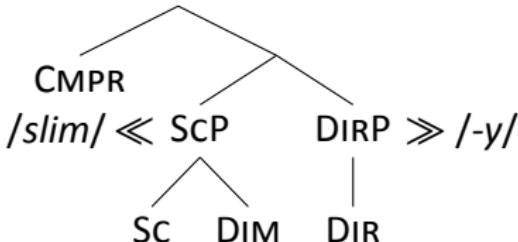
PosP \Leftrightarrow /-y/



CMPRP \Leftrightarrow /-er/



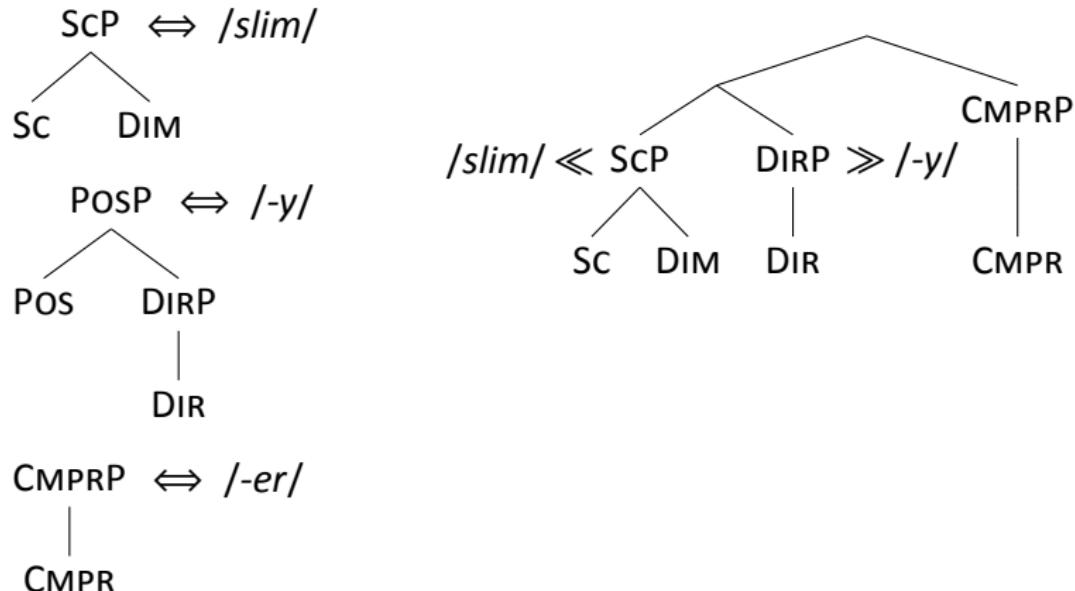
CMPPR



(26) Merge F and

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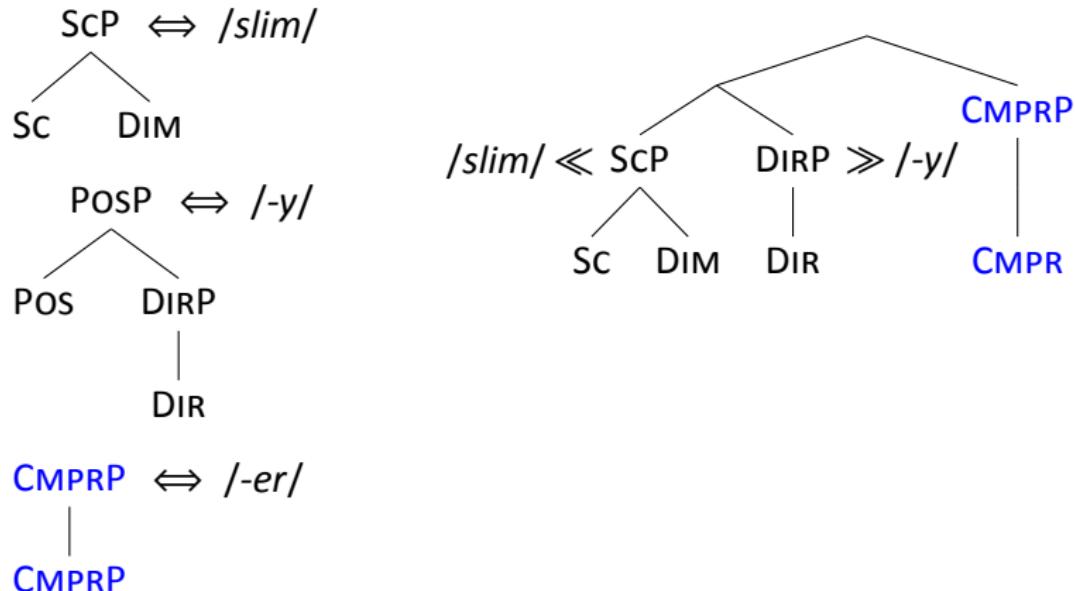
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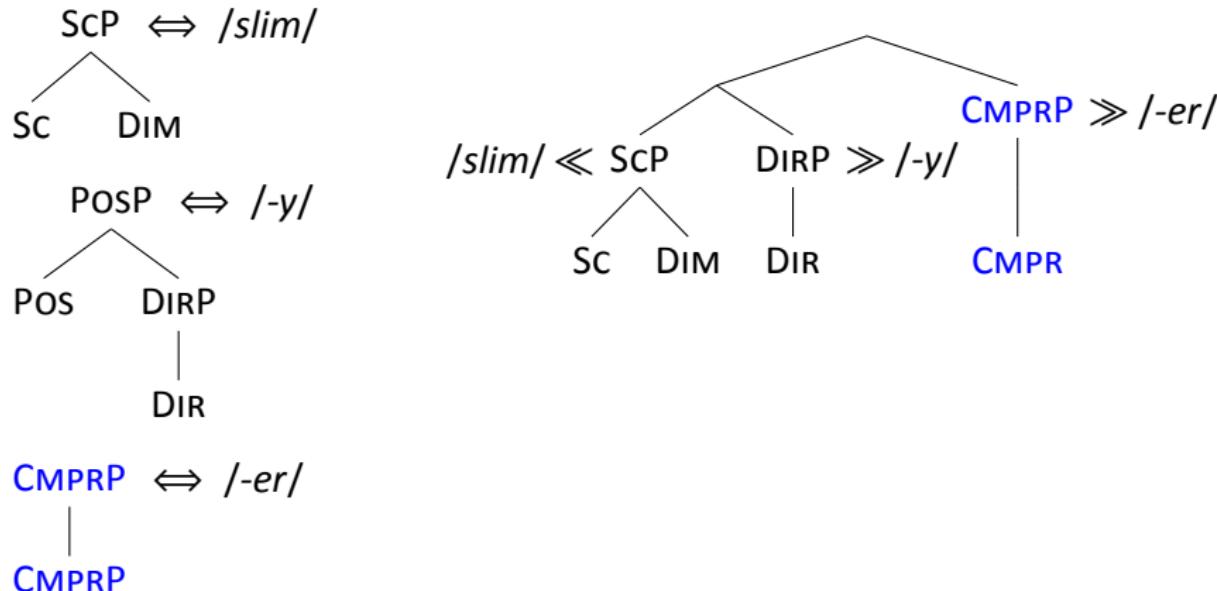
The comparative of an S-root (*slim-y* — *slim-y-er*)



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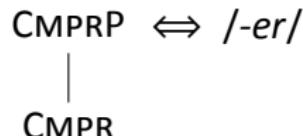
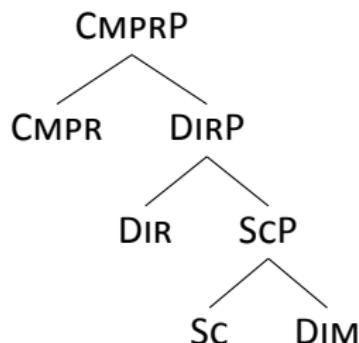
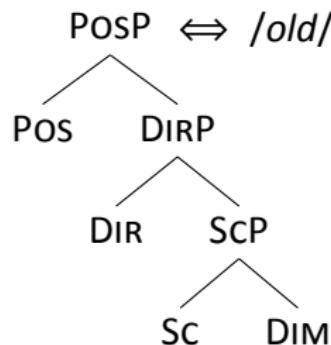
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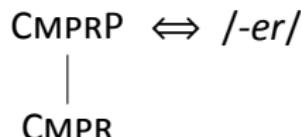
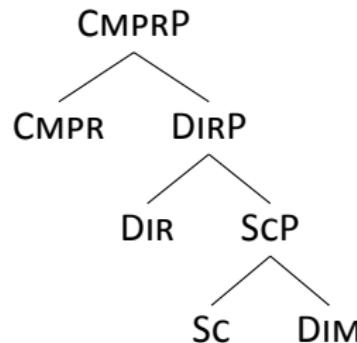
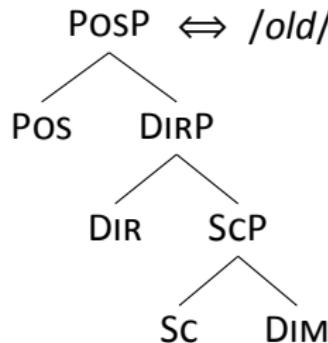
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The comparative of an XL-root (*old* — *old-er*)



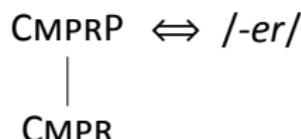
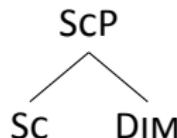
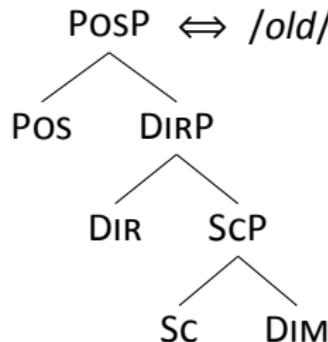
The comparative of an XL-root (*old* — *old-er*)



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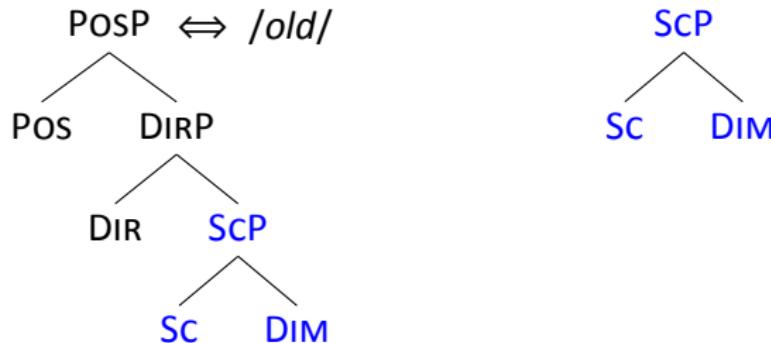
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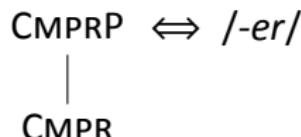
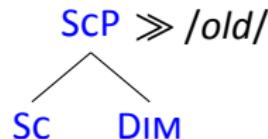
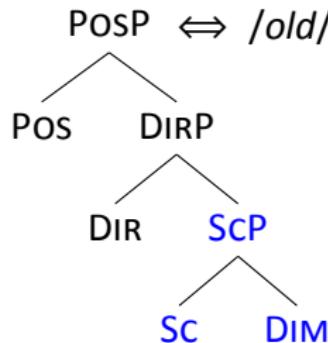
CMPRP \Leftrightarrow */-er/*



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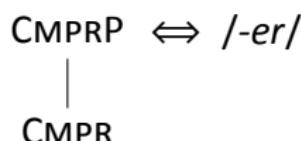
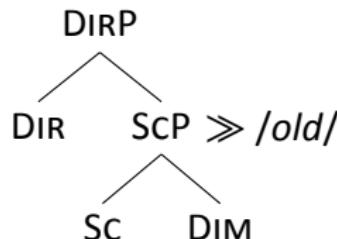
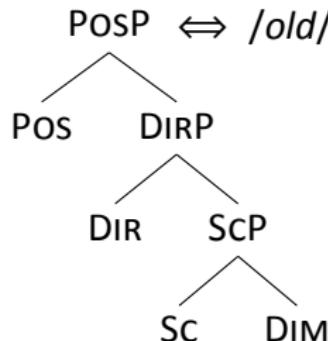
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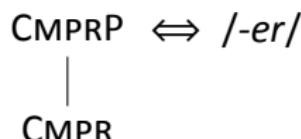
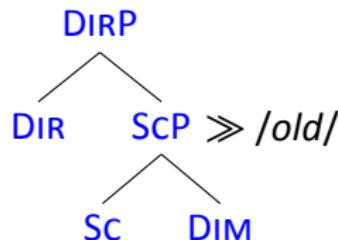
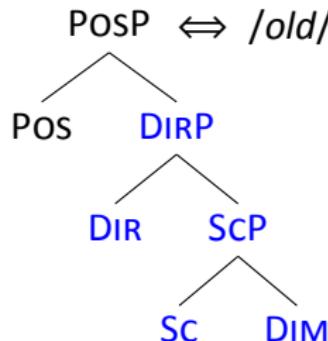
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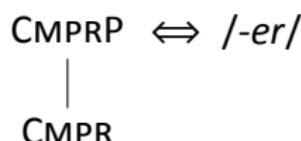
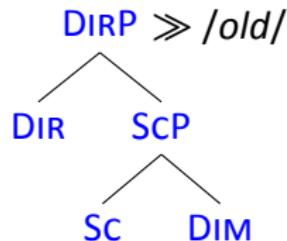
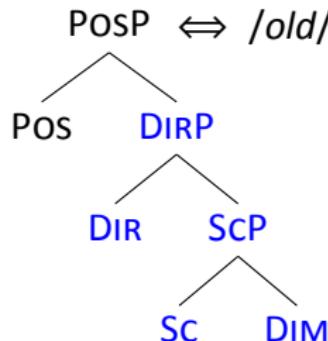
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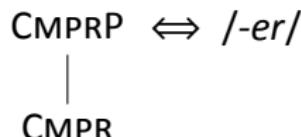
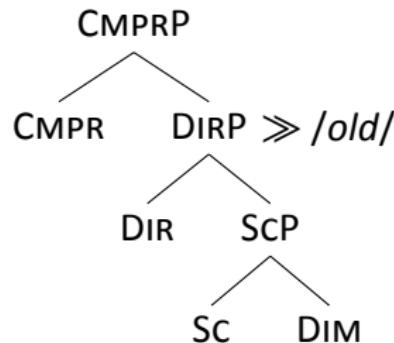
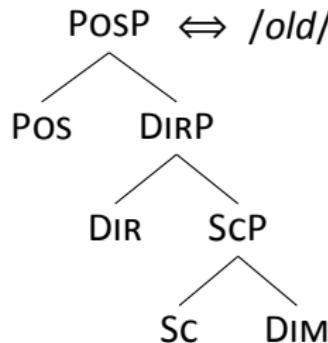
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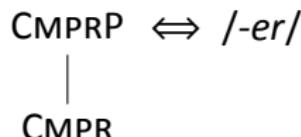
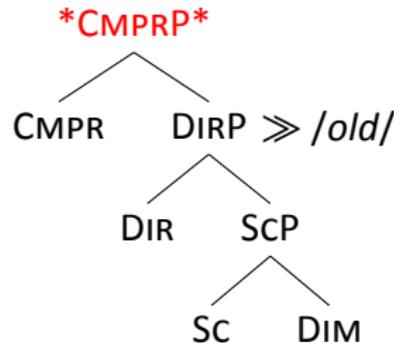
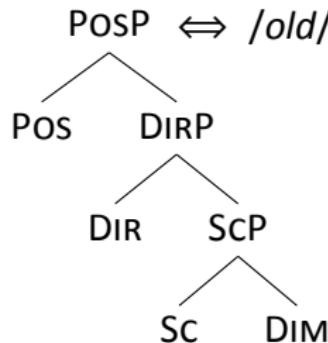
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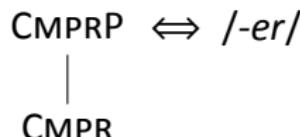
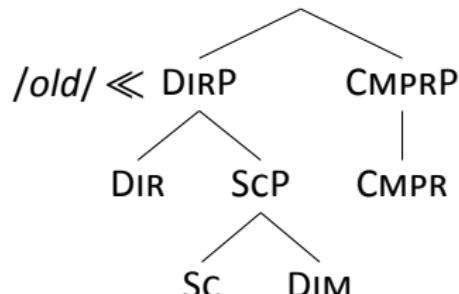
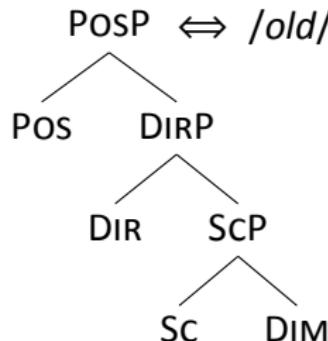
The comparative of an XL-root (*old* — *old-er*)



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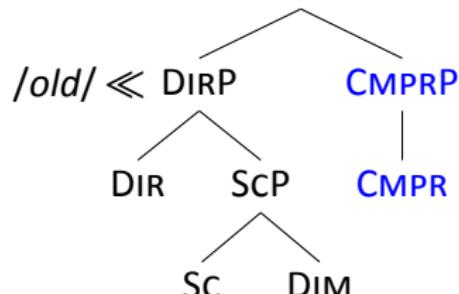
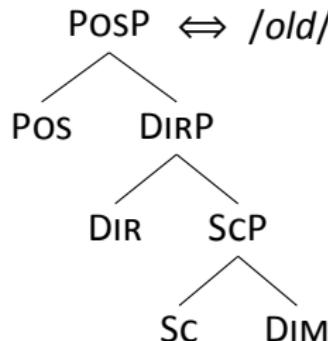
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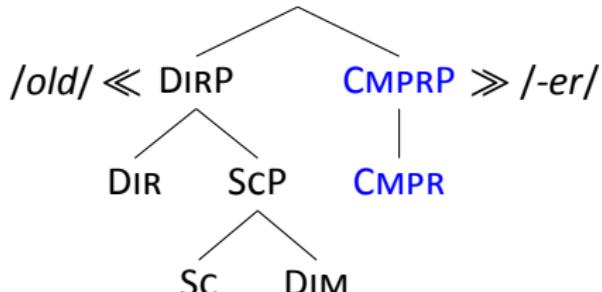
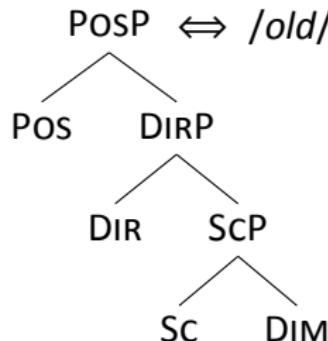
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Summary

(28)	root	POS	CMPR
	S-root	AUG	AUG

Summary

(28)	root	POS	CMPR
S-root	AUG	AUG	
L-root	AUG		—

Summary

(28)	root	POS	CMPR
S-root	AUG	AUG	
L-root	AUG		—
XL-root	—		—

Introduction

Comparatives: data

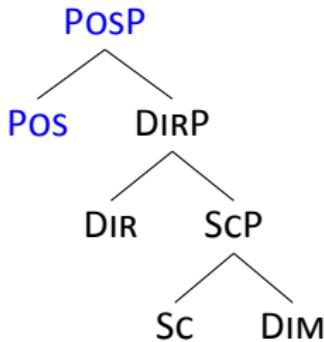
An informal analysis

The spellout algorithm Starke (2018)

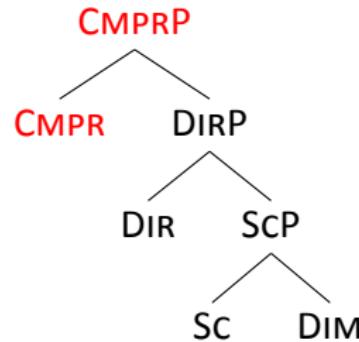
How to be POS

- ▶ In order to capture both containment and truncation, we need symmetric structures

(29)

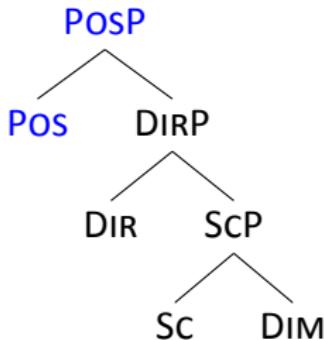


(30)

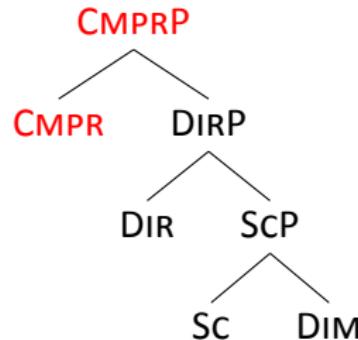


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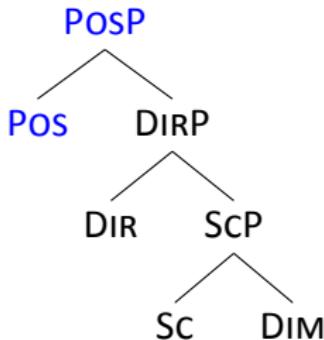
(30)



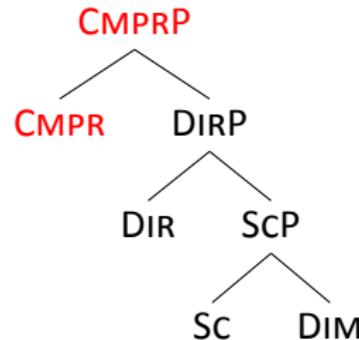
- POS turns a measure function (DIRP) into a predicate, and adds context-sensitivity

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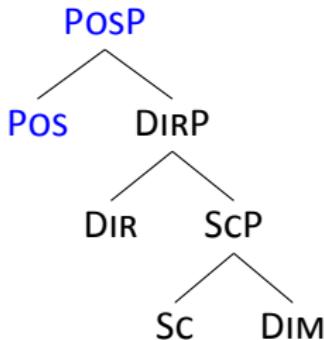
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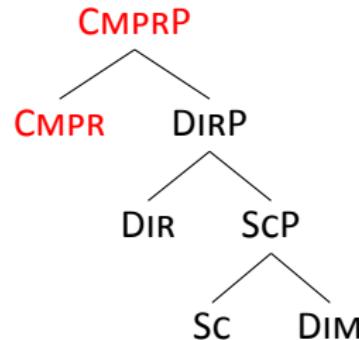
- POS turns a measure function (DIRP) into a predicate, and adds context-sensitivity
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- In order to capture both containment and truncation, we need symmetric structures

(29)



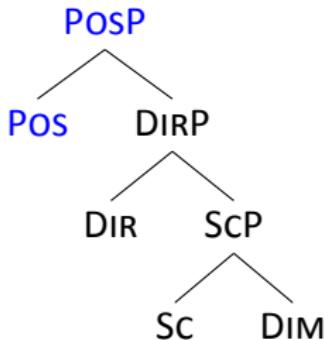
(30)



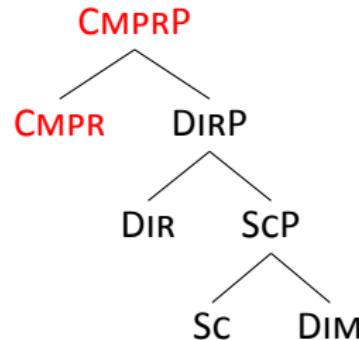
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- However, $-k \neq \text{POS}$; $-k$ is a marker that spells out either DIR only, or DIR+POS
- It is the syntactic heads that carry meaning, not the marker itself, which is ambiguous

Comparatives in Egyptian Arabic (Grano & Davis 2018)

(31)

POS	CMPR	gloss
		'long'

Comparatives in Egyptian Arabic (Grano & Davis 2018)

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POS	CMPR	gloss
Tawiil	aTwal	'long'

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POS	CMPR	gloss
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Comparatives in Egyptian Arabic (Grano & Davis 2018)

(31)

aCCaC		
POS	CMPR	gloss
Tawiil	aTwal	'long'

Comparatives in Egyptian Arabic (Grano & Davis 2018)

(31)

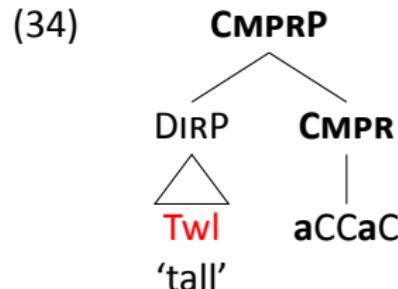
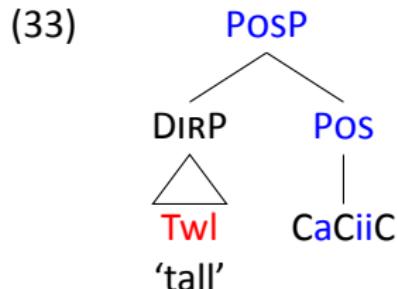
CaCiiC	aCCaC	
POS	CMPR	gloss
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CaCiiC as the spellout of POS

- (32)
- a. **CMPR** = **Twl** 'tall' + **aCCaC**
 - b. **POS** = **Twl** 'tall' + **CaCiiC**

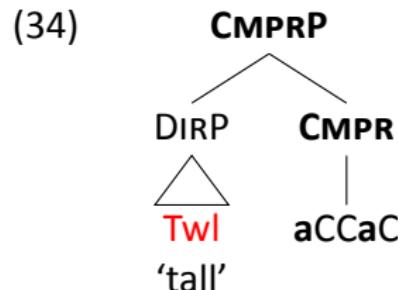
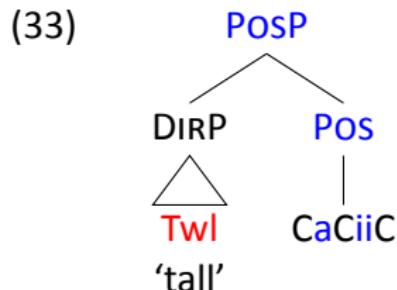
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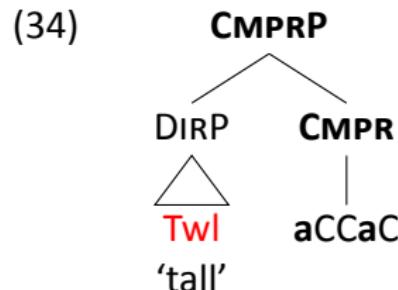
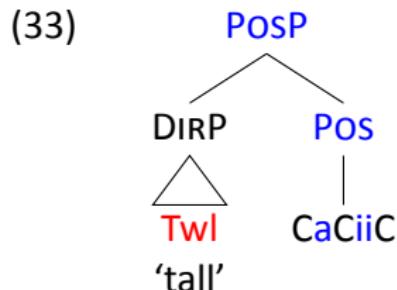
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- (35) Ahmad Tawil (awi) li-daragit innu yilmis is-sa?f.
Ahmad tall very to-degree that.he touches the-ceiling
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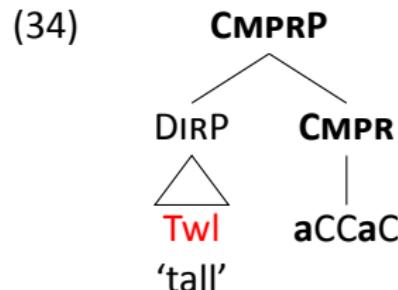
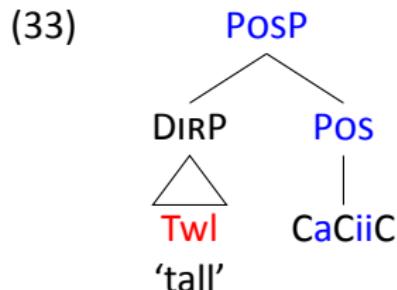


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► Grano and Davis: CaCiiC cannot mean POS

CaCiiC as the spellout of POS

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- ▶ Grano and Davis: CaCiiC cannot mean POS
- ▶ Our conclusion: CaCiiC cannot mean *only* POS

Conclusions

(36)	POSITIVE	COMPARATIVE	class
	old	old	containment
	slim-y	slim-y	containment
	heav-y	heav	truncation

Conclusions

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Conclusions

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- ▶ The theory presented here derives the three patterns.
 - i Symmetric structures
 - ii Nanosyntax spellout (Starke 2018)
 - iii Differential root size (Caha et al. 2019)

Thank you!

References

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The inverse truncation pattern

(37)	POSITIVE	COMPARATIVE	class
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(38)	The lexicalisation of PosP(39)				The lexicalisation of CMPRP			
	DIM	Sc	DIR	Pos	DIM	Sc	DIR	CMPR
		<i>XL-root</i>				<i>XL-root</i>		-(ej)š
		<i>L-root</i>		aug		<i>L-root</i>		-(ej)š
		<i>S-root</i>		aug		<i>S-root</i>	aug	-(ej)š
		<i>!Root</i>				<i>!Root</i>	aug	-(ej)š

Do the symmetric structures clash with suppletion? (Bobaljik 2012)

- (40) *The Comparative-Superlative Generalization, part I (CSG1):*
If the comparative is suppletive, then the superlative is also
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POSITIVE

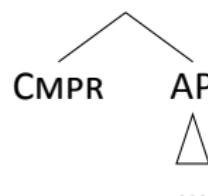
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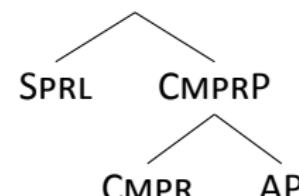
COMPARATIVE

CMPRP



SUPERLATIVE

SPRLP



The precise content of the Containment Hypothesis

(41) *The Containment Hypothesis*

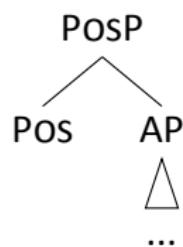
The representation of the superlative properly contains that of the comparative.

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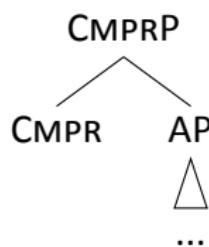
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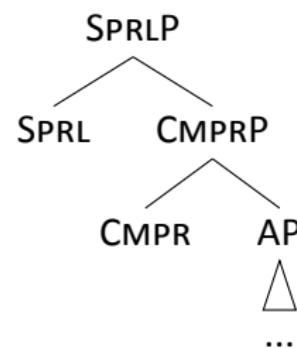
POSITIVE



COMPARATIVE



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Suppletion in Slovak

- (42) *Augment in the comparative leads to no suppletion*
If an adjective has an AUG in the comparative, it does not show suppletion

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Arbitrariness

(43) Slovak minimal pairs

POSITIVE	DIMINUTIVE	COMPARATIVE	gloss
root	AUG AGR	root DIM ADJ AGR	root AUG CMPR AGR
krot	k ý	krot š í	'tame'
brit	k ý	brit k ejš í	'sharp' (humor)

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(45) Truncation vs. containment light

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	light	lighter	pattern
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Arbitrariness

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