Reinterpreting the Root Suppletion Generalisation

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Introduction

The comparative: splitting up CMPR

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Root Suppletion Generalisation (RSG) (Bobaljik 2012)

Root suppletion is limited to synthetic (i.e., morphological) comparatives.

(1)	Greek	POS	CMPR
	SYNTHETIC	kakós	cheiró-ter-os 'bad'
	ANALYTIC	kakós	pjo kak-ós
	ANALYTIC	kakós	*pjo cheir-ós
(2)		POS	CMPR
	SYNTHETIC	good	bett-er
	ANALYTIC	intellig	ent more intelligent
	ANALYTIC	good	*more bett

Czech Suppletion Generalisation (CzSG) (Caha 2016)

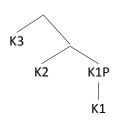
When the comparative degree is expressed by two overt markers in addition to the root, there is no suppletion.

(3) Czech POS CMPR
a. bujar-ý bujař-ej-š-í 'merry'
b. dobř-ý lep-š-í 'good'
c. star-ý star-š-í 'old'
d. dobř-ý *lep-ěj-š-í 'good'

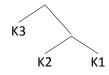
PRE vs POST marking (Starke to appear)

PRE markers have a binary bottom, POST markers have a unary bottom.

(4) POST: unary bottom



(5) PRE: binary bottom



Claim

CMPR = 2 functional heads (C1, C2)

- (6) a. bujař-ej-š-(í) 'merrier'
 - b. [[A C1] C2]

Claim

CMPR = 2 functional heads (C1, C2)

- (6) a. bujař-ej-š-(í) 'merrier'
 - b. [[A C1] C2]

Generalised Comparative Suppletion Generalisation (G-CSG)

When the comparative degree (C1+C2) is expressed by a PRE marker, there is no root suppletion.

Aims of this talk:

- refine Bobaljik's proposal on the internal complexity of CMPR by splitting up CMPR into C1 and C2
- show that Caha's CzSG can be generalised, and covers cases not covered by Bobaljik's RSG.
- show that PRE marking of the comparative is incompatible with suppletion (= G-CSG)

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Czech

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(7) POS CMPR SPRL
bujar-ý bujař-ejš-í nej-bujař-ejš-í 'merry'
červen-ý červen-ějš-í nej-červen-ějš-í 'red'
hloup-ý hloup-ějš-í nej-hloup-ějš-í 'stupid'
moudr-ý moudř-ejš-í nej-moudř-ejš-í 'wise'
```

í/ý = adjectival agreement: Case, number, gender

Comparative *ějš* = *ěj+š*

2 pieces of evidence showing that -*ějš*- consists of two parts:

- 1. -ěj- disappears with certain adjectives
- 2. -š- disappears with comparative adverbs

1. -*ěj*- disappears with certain adjectives

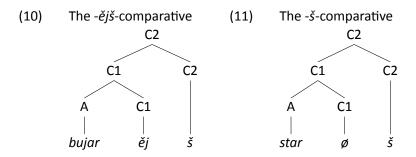
(8)	POS	CMPR	
	star-ý	star-š-í	ʻold'
	such-ý	suš-š-í	'dry'
	drah-ý	draž-š-í	'expensive'
	tvrd-ý	tvrd-š-í	'hard'
	tich-ý	tiš-š-í	'silent'

2. -š- disappears with comparative adverbs

(9)	CMPR ADJ	CMPR ADV		
	červen-ěj-š-í	červen-ěj-i	'redder'	
	hloup-ěj-š-í	hloup-ěj-i	'sillier'	
	moudř-ej-š-í	moudř-ej-i	'wiser'	
	rychl-ej-š-í	rychl-ej-i	'faster'	

Proposal

- ► The Czech comparative suffix consists of two parts: *ĕj+š*
- These two parts correspond with two syntactic heads: C1 and C2
- ► These two heads supersede Bobaljik's CMPR



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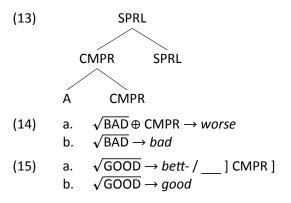
Suppletion

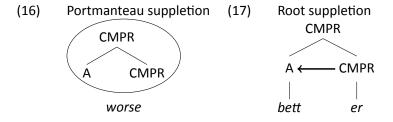
Two types:

- Portmanteau suppletion (12a)
- Root suppletion (12b)

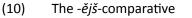
(12)		POS	CMPR	
	a.	bad	worse	
	b.	good	bett-er	

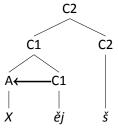
Suppletion in DM





Caha (2016): 'Do we expect there to be a difference between (10) and (11) with respect to root suppletion?' ⇒ NO

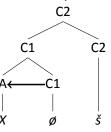




(18) a.
$$\sqrt{X} \rightarrow \alpha / _]C1]$$

b. $\sqrt{X} \rightarrow \beta$

(11) The -*š*-comparative



- suppletion is never found with (10)
- -ěj- systematically disappears with suppletive roots:

(19)	POS	CMPR	
	dobr-ý	lep-š-í	'good'
	špatn-ý	hor-š-í	'bad'
	mal-ý	men-š-í	'little, small'
	velk-ý	vět-š-í	ʻbig'
	dlouh-ý	del-š-í	'long'
	vysok-ý	vyš-š-í	'tall'

Czech Suppletion Generalisation (CzSG) (Caha 2016)

When the comparative degree is expressed by two overt markers in addition to the root, there is no suppletion.

(20)		Α	C1	C2	
	'merry'	bujar	ěj	š	2 markers, no suppletion
	'bett-'	lep	Ø	š	1 marker, suppletion
	ʻold'	star	Ø	Š	1 marker, no suppletion
		*	ěj	Š	2 markers, suppletion

Extension to English

- morphological comparative: fast-er
- syntactic comparative: more intelligent

Extension to English

- morphological comparative: fast-er
- syntactic comparative: more intelligent

Hypothesis

More is bi-componential, like ej-š.

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(22)	Α	C1	C2
	intelligent	mo-	er
	bett	Ø	er
	fast	Ø	er

(23)	Α	C1	C2	
	bujar	ěj	Š	2 markers, no suppletion
	lep	Ø	Š	1 marker, suppletion
	star	Ø	Š	1 marker, no suppletion
	*	ěj	Š	2 markers, suppletion
	intelligent	mo-	er	2 markers, no suppletion
	bett	Ø	er	1 marker, suppletion
	fast	Ø	er	1 marker, no suppletion
	*	mo-	er	2 markers, suppletion

(23)	Α	C1	C2	
	bujar	ěj	š	2 markers, no suppletion
	lep	Ø	Š	1 marker, suppletion
	star	Ø	Š	1 marker, no suppletion
	*	ěj	š	2 markers, suppletion
	intelligent	mo-	er	2 markers, no suppletion
	bett	Ø	er	1 marker, suppletion
	fast	Ø	er	1 marker, no suppletion
	*	mo-	er	2 markers, suppletion

- ▶ Both Czech and English have a gap in (23).
- It looks like this is the same gap.

- The gap in English in (23) falls under the RSG.
- But the Czech gap does not fall under the RSG, as both markers are morphological markers.
- Both gaps fall under Caha's CzSG (hence Comparative Suppletion Generalisation (CSG)).

Root Suppletion Generalisation (Bobaljik 2012)

Root suppletion is limited to synthetic (i.e., morphological) comparatives.

Comparative Suppletion Generalisation (CSG)

When the comparative degree is expressed by two overt markers in addition to the root, there is no suppletion.

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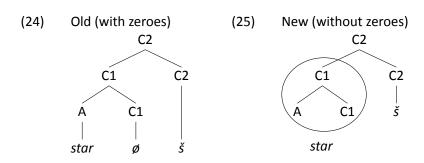
Conclusion

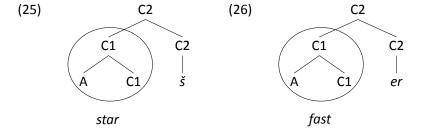
Explaining the CSG

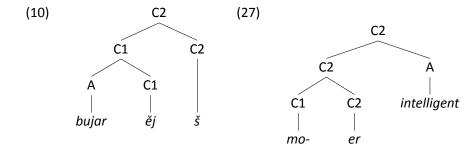
Two assumptions:

- There are no zero exponents.
- A single lexical item may realise multiple positions in the syntactic/morphological structure (=phrasal spellout).

Nonsuppletive patterns







Suppletive patterns

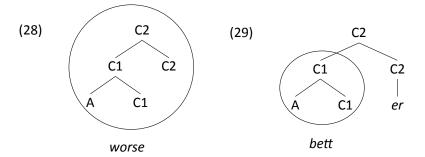
Splitting up CMPR into C1 and C2 opens up a possibility:

Suppletive patterns

Splitting up CMPR into C1 and C2 opens up a possibility:

Hypothesis

All suppletion is portmanteau suppletion.



▶ The table in (30) shows a root-affix tradeoff:

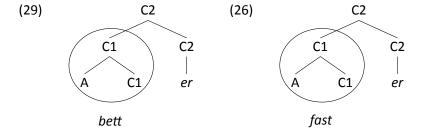
(30)	Α	C1	C2	
	bujar	ěj	š	
	lep		š	
	intelligent	mo-	er	
	bett		er	
	worse			

(31)	Α	C1	C2
		X	
		ěj	š
		mo	er

a. *lep-ěj-š-í

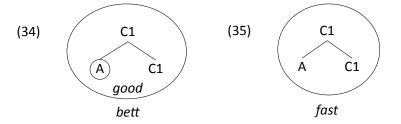
(32)

b. *mo-er bett



The Lexicon (Starke 2014)

The lexicon contains nothing but well-formed syntactic expressions.



Superset Principle (Starke 2009; Caha 2009)

(Overspecified) lexical entries spell out syntactic structures that they contain.

Elsewhere Principle

If there is more than one candidate for insertion, the lexical item with least superfluous structure wins.

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PRE vs POST

(1')		POS	CMPR	
	POST	kakós	cheiró-ter-os	'bad'
	PRE	kakós	pjo kak-ós	
	PRE	kakós	*pjo cheir-ós	

PRE vs POST

(1')		POS	CMPR
	POST	kakós	cheiró-ter-os 'bad'
	PRE	kakós	pjo kak-ós
	PRE	kakós	*pjo <mark>cheir</mark> -ós
(2 ['])		POS	CMPR
(2 ['])	POST		CMPR bett-er
(2 ['])			bett-er

PRE vs POST

POST marking:

- suffixal
- to the right of the stem
- displays mirror principle ordering

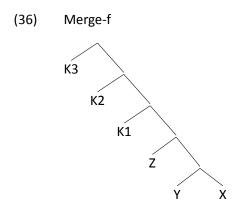
PRE marking:

- prefixal
- functional material to the left of the stem
- ordering reflects the underlying order of the functional sequence

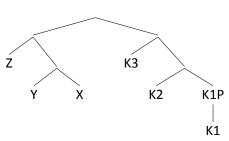
Starke (to appear): two modes of combination:

- Merge-f
- Merge-XP

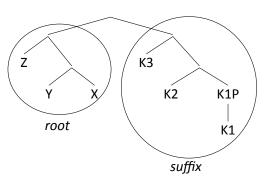
POST



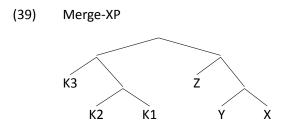
(37) Move-ZP



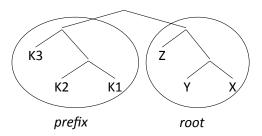
(38) Move-ZP



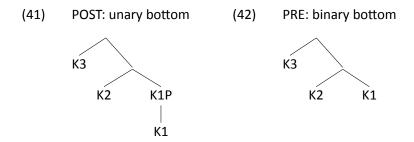
PRE



(40) Merge-XP



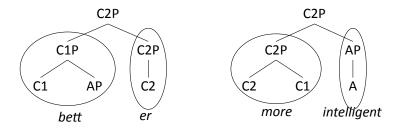
The Lexicon



G-CSG

Generalised Comparative Suppletion Generalisation (G-CSG)

When the comparative degree (C1+C2) is expressed by a PRE marker, there is no suppletion.



- root suppletion is the portmanteau spellout of A+C1
- in the presence of a suppletive root, any regular comparative morphology only spells out a single feature: C2
- C2 morphology having a unary bottom, it can only be suffixal

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Slavic

- only two languages (Bulgarian/Macedonian) have a prefixal comparative marker
- no comparative suppletion in Bulgarian/Macedonian

(43) (Bobaljik 2012: 45)

	POS	CMPR	SPRL
Bulgarian	dobər	po-dobər	naj-dobər
Czech	dobr-ý	lep-ší	nej-lep-ší
Sorbian	dobr-y	redl-iši	
Serbian	dobar	bol-ji	naj-bol-ji
Ukranian	dobr-yj	krašč-yj	naj-krašč-yj
Ukranian	harn-yj	krašč-yj	
Russian	xoroš-ij	luč-še	(nai-luč-š-ij)

GOOD

Bobaljik (2012: 106)

- 32 suppletive adjectival triples (POS-CMPR-SPRL)
- ▶ 29 with an exclusively suffixal (or portmanteau) comparative
- 3 with what looks like a circumfixally marked comparative (Georgian, Svan)

BIG (GREAT)

Bobaljik (2012: 107)

- 7 suppletive adjectival triples
- ▶ 6 with an exclusively suffixal (or portmanteau) comparative
- ▶ 1 with what looks like a circumfixal marker (Svan)

BAD

Bobaljik (2012: 106)

- 22 suppletive adjectival triples
- ▶ all with an exclusively suffixal (or portmanteau) comparative

SMALL

Bobaljik (2012: 107)

- 9 suppletive adjectival triples
- ▶ all with an exclusively suffixal (or portmanteau) comparative

MANY, MUCH

Bobaljik (2012: 125)

- 31 suppletive adjectival triples
- 30 with an exclusively suffixal (or portmanteau) comparative
- 1 with prefixal marking of the comparative (Bulgarian/Macedonian)

Bulgarian/Macedonian

Two issues:

- ABA pattern
- root suppletion with PRE marking?

po spells out more than just C2

(45)	Α	C1	C2	F	
	nov		pc)	'new(er)'
	mnogo				'much'
	veče		pc)	'more'

► F = ADV?

Georgian

(46)POS **CMPR** k'argi-i u-mjob-es-i 'good' u-k'et-es-i (47)C1 C2 Α es u es u k'argi mjob k'et

Gippert (1996):

- 'The Old Georgian comparatives, nowadays used with a 'superlative/elative' function only, were commonly formed with a prefixed u- plus a suffix that appeared either as a shorter variant, -e or -o, or as a longer, declinable one, ēs-
- ...these formations are restricted to superlative/elative functions today while real comparatives are built analytically ...
- ...the prefix appearing as u- [...] is identical with the versional marker of a third person in finite verbal forms and refers to the object of the comparison'

Old Georgian

Svan

```
(49) POS CMPR
ezär xo-č-a 'good'
xo-č-el

(50) POS CMPR
dzyad xo-š-a 'big'
```

xo-š-el

Bobaljik (2012: 108n):

'Gudjedjiani and Palmaitis (1986) list four suppletive comparatives in Svan; but note also that the comparative forms in *xo-...-a* for these adjectives are used with a positive sense, and subject to further comparative formation in *xo-...-el*. It may thus be synchronically inappropriate to include these forms here.'

Gippert (1996: 37)

'It can easily be shown that the synthetic type was inherited from Proto-Kartvelian, given that similar formations exist in the Zan languages as well as Svan; cp. Megrelian *u-magal-aš-i* 'highest (from *magal-i* 'high'), Laz *u-ʒgi-š-i* 'best', or Svan *xo-lqmaš-a* 'strongest (from *laqmäš* 'strong'). Curiously enough, all sister languages show the same tendency as Georgian does, in that these formations are restricted to superlative/elative functions today while real comparatives are built analytically: Megrelian uses *umosi*, Laz, *dido*, and Svan, *gun* or *zġad* as equivalents of Georgian *upro*.'

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- Bobaljik's RSG relies on the existence of a distinction between morphological and syntactic comparative formation.
- Caha's CzSG ties the absence of suppletion to the presence of double marking in the comparative.
- Given that PRE marking requires C1+C2 to form a constituent, PRE marking is predicted to be incompatible with suppletion (G-CSG).
- ► The G-CSG is confirmed by the data in Bobaljik (2012).

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