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Depictives in Ossetic and Cross-Linguistic Variation in Modification by Depictives*

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What I will do today:

- Present the properties of depictives in Ossetic and show that they are sensitive to the contrast between arguments and adjuncts.
- Argue that the relationship between a depictive and its host in Ossetic is that of anaphoric binding.
- Propose that anaphoric binding is capable to account for the host-depictive relationship cross-linguistically.
- Argue that the attested variation is reducible to the variation in adjunction sites of DepP and in its binding domain.

DISCLAIMER: Work in Progress

1. Introduction

1.1 Depictives

- Depictives are constituents (typically APs) that describe the state of a participant of the situation described by the main verb during that situation.
- A depictive must not be a subconstituent of the DP that expresses the participant.
- I will use the term "host" for the participant modified by the depictive.
- I will indicate the relationship between a depictive and its possible hosts by indices.

(1) a. Mary_i ate the fish_j $raw_{\#i/j}/ drunk_i/\#j$.

- b. Johni served Maryj coffee <u>drunki</u>/*j.
- Depictives have been the subject of a vast literature, see e.g. Himmelmann and Schultze-Berndt (2004), Rothstein (2017), and Potsdam & Haddad (2017), and the references there.
- The semantics and, to some extent, the morphological marking of depictives, have been relatively extensively studied crosslinguistically, see, e.g. Schultze-Berndt and Himmelmann (2004); Himmelmann and Schultze-Berndt (2005); Schroeder et al. (2008), and Schultze-Berndt (2017).

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• The variation in what can serve as a depictive host across languages has been studied much less.

1.2 Possible depictive hosts

- In English, only subjects and direct objects can serve as hosts¹, Williams (1980).
- The same pattern obtains in several other well-studied languages, e.g. Spanish, Demonte (1987), Basque, Obria (2014) via Bárány (2018).
- Many analyses effectively take this observation as a primitive, see e.g. You (2016) for Spanish.
- But there are languages where it is not so, see e.g. Nichols 1978: (120-121) for Finnish (2a), Marušič et al (2003; 2008) for Slovenian (2b), and Irimia (2005) for Romanian and Albanian.
- (2) Finnish, Nichols 1978 a. lahetimme hänellei proi rahaa lapsena_{i/i} s/he.ADESS² money.PART child.ESS 1pl we.sent 'We sent him money as a child (when we/he were/was a child)' b. Slovenian, Marušič et al (2003) Vid-a_i]še Včeraj čisto smo [na pijan-ega_i vesterday AUX onto V-ACC still completely drunk-ACC naleteli Prešercu na ran on Prešeren-square

'Yesterday we ran into Vidi at Prešeren square, and hei was still completely drunki'

• There has been relatively little systematic cross-linguistic research on what constituents can be modified by depictives.

2. Analyses in the literature

BASIC QUESTIONS:

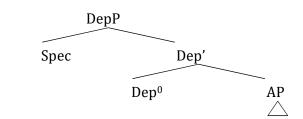
- How is the relation established between a depictive and its host?
- What is the syntactic position of the depictive?

2.1 DepP

- I will use the notation DepP for the immediate constituent containing a depictive.
- At a first approximation, there is a large consensus in the literature about the internal structure of DepP.
- The nature of Dep⁰ and of its Spec depends on the specific proposal, more of that later.

¹ This generalization has apparent exceptions, see Maling (2001) and Demonte (1987) for examples, and Pylkkänen (2008) for a discussion.

² Glosses and abbreviations: ADESS adessive; ABL ablative; ALL allative; Appl applicative; CVB converb; DAT dative; ESS essive; GEN genitive; INS instrumental; LOC locative; PART partitive; POSS.1/2/3.PL/SG possessive proclitic; PRV preverb; REFL reflexive; SUP superessive;



- The head Dep⁰ is assumed to be responsible for the idiosyncratic morphological marking that the adjective receives (e.g. the instrumental marking in Russian (4)), and for the depictive semantics.
- Adjectives that serve as a depictives can be modified (4), therefore it is reasonable to assume that DepP contains an AP rather than a bare adjective.
- (4) Russian

(3)

vas^jaivernuls^jaizotpuska[soveršenno čern-ymiVasya.M.NOMreturnedfromvacationtotallyblack-M.INSotzagara]fromtan'Vasyareturned from the vacationcompletely black with tan.'

2.2 Proposals in the literature

<u>MAIN CONTENDERS IN THE LITERATURE</u> for this relation:

- Control
- Binding
- Semantic combination with arguments at the LF
- Grafting of DepP to the finite clause
- Merger of DepP (with the host DP as its subject) in the position of the host.

2.2.1 Control of PRO

• Spec DepP is taken to be occupied by PRO.

(Chomsky (1981: ch. 2.6); Safir (1983: 735); Stowell (1983); Hornstein & Lightfoot (1987: 27); Franks & Hornstein (1992); Bowers (1993); Legendre (1997: 44); Szajbel-Keck (2015); and others)

(5) John [met Mary_i] [_{DepP} PRO_i angry] Rothstein (2006)

2.2.2 Binding

Rothstein (1983) for English; Bailyn (1995, 2012) for Russian; Richardson (2007) for Russian and other East Slavic languages.

• The restriction to subjects and direct objects was taken to be semantic by Rothstein (1983: 154).

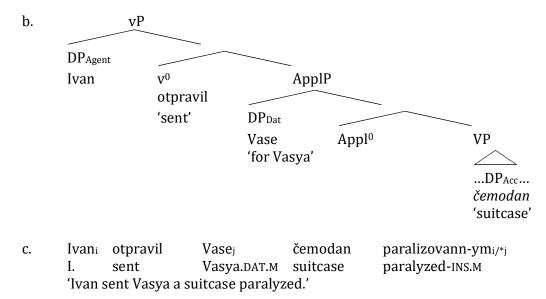
• With the advent of a richer clause structure, specifically, with the introduction of vP and ApplP, this property has become to be deducible syntactically (more about this later).

2.2.3 Semantic combination with arguments at LF

Pylkkänen (2008):

- Makes a proposal about the semantics of Dep and Appl (based on Geuder 2000).
- Applicatives can be "high" and "low", that is, they can be higher or lower than V⁰.
- The semantics of high and low applicatives are different.
- DepP can only adjoin to vP (VoiceP in her notation) and VP (for type matching reasons)
- DepP cannot combine with low applicatives (for semantic reasons) but can do so with high applicatives.
- Apparently, her analysis massively over-generates.
- Some of Russian indirect objects are demonstrably high applicatives, Boneh & Nash (2017), but they are still unable to be modified by depictives (6c).

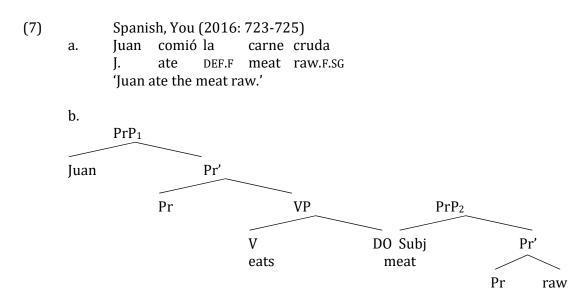
(6)	a.	Russian, Boneh & Nash (2017: 903)				
		Ivan	otpravil	Vase	čemodan	
		I.	sent	Vasya.DAT.M	suitcase	
		'Ivan	sent Vasya a	suitcase.'		



- NB Bruening (2010, 2018a, 2018b) effectively argues against the low-applicative analysis of ditransitives in English.
- If his reasoning is correct, Pylkkänen's analysis is inapplicable even to English.

2.2.4 Grafting

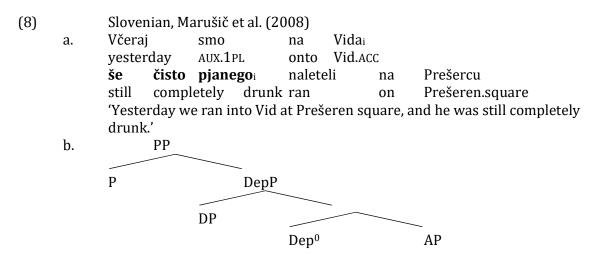
- Rapoport (1999) for English; You (2016) for Spanish; Rapoport & Irimia (2018)
- DepP and the rest of the clause are derived separately.
- Then, a multidominance structure is created.



- Rapoport (1999) and Irimia & Rapoport (2018) implement grafting differently.
- It is unclear how such systems account for restrictions on the type of a host.

2.2.5 Merger of DepP in lieu of the host DP: Marušič et al (2003, 2008) for Slovenian

- In Slovenian, no restrictions obtain on DPs that host depictives.
- Proposal: The host DP is the subject of a small clause whose predicate is the depictive.
- The respective small clause is merged wherever the respective DP could be merged.



- It's not fully clear how to modify this proposal to make it sensitive to differences between hosts.
- Later on, I will argue that their proposal can be modified to naturally fit into the parametric system I'll lay out.

• To recapitulate:	
Type of Proposal	Languages it's been
	proposed for
Binding	English, Eastern Slavic
Control	English, Polish
Merger of DepP in lieu of the	Slovenian
host DP	
Composition on LF	proposed to be universal
Grafting + Multidominance	English, Spanish

- Out of these, the grafting-based approach and that of Pylkkänen (2008; 2010) can be rejected out of hand.
- The main contenders for depictives sensitive to the type of a host are binding and control.

My proposal:

- In Ossetic, the relationship between a host and a depictive is that of anaphoric binding.
- As standardly assumed in binding-based approaches, different readings correspond to different base positions of the DepP.
- DepP can adjoin to VP, ApplP, and vP.
- Spec DepP is occupied by a null anaphor.
- Furthermore, I speculate that the binding-based approach (with varying adjunction sites) can cover the entire extent of cross-linguistic variation.

The argument briefly

- "Depictive control" in Ossetic is very different from the "normal" adjunct control. Only subjects and direct objects may control non-finite adjuncts.
- On the other hand, the relationship between a depictive and its host is reducible to binding under c-command (with some additional assumptions).
- The arguments are of the same type that are standardly marshalled to tell apart control and binding, Landau (2013: 57-58).

3. Case Study: Depictives in Ossetic

3.1 Background on Ossetic

- Ossetic: Two closely related Iranian languages, Iron Ossetic and Digor Ossetic, spoken in the Central Caucasus, Erschler (2018; to appear).
- Predominantly head final, with a moderately large case system, for a recent nanosyntactic analysis of case in Ossetic, see Caha (2019).
- The case is marked on the right edge of DP.
- The DP is rigidly ordered and unsplittable; it shows no overt agreement, either in case or in number, (9).
- Ossetic lacks morphological gender.

(9)	a.	atʃi ustur wors this big white 'this big white hors	e horse		Digor Ossetic
	b.	atʃi-Ø ustur-Ø this big 'for these big white	wors-Ø white horses'	bex- t-en horse-PL-DAT	Digor Ossetic

- Constituents tend to be head-final, but the constituent order in a finite clause is relatively flexible (see Kudzoeva (2003) and Erschler (2012) for a discussion of restrictions it is subject to).
- (10) Digor Ossetic
 - a. sk'ola-j rajdajen k'laſ-t-i kuston
 school-LOC beginning class-PL-LOC I.worked
 'I worked in elementary school (lit. "in beginning classes at school").'
 from a recorded text
 - ma hewot ba-kuston aχurgeneg-ej rajdajen k'laſ-t-i and so PRV-I.worked teacher-ABL beginning class-PL-LOC 'And I had worked so as a teacher in elementary school.' from the same recorded text

3.2 Depictives in Ossetic

3.2.1 Marking and Meaning of Depictives

- Ossetic lacks resultatives (i.e. secondary predicates like *dry* in '*John wiped the table dry*.'), but widely uses depictives.
- Depictives are obligatorily marked with the ablative, (11a), no matter what the case of the host DP is. They do not agree with the host in number (11 b).

(11) a. soslan <**tuzmeg-*(ej)>** ratsudej <**tuzmeg-*(ej)>** Digor S. angry-ABL s/he.left 'Soslan left angry.'

- b. inne-tæ=ba **eguppeg-ej** baduntse other-PL=CTR silent-ABL sit.PRS.3PL 'Others are sitting silent.' Ikati 2011: 23
- The obligatory ablative marking rules out the possibility that what looks like a depictive and its host are actually fragments of a single split constituent.
- In other instances of non-verbal predication, the ablative marking does not arise.
- (12) a. copular clauses je=der **kedzos** adtej Digor it.NOM=too clean.**NOM** was 'It (air) was clean too.' (from a recorded narrative)

 b. 'become X' se=tsard=der tsubur issej Digor their=life.NOM=too short.NOM became 'Even their life became short.' (from a recorded narrative)

'consider to be X'

- c. [χ^warz leg]-**bel** ke nimmaj-un ensezuj? Digor good man-**SUP** who.ACC count-INF is.possible 'Who can be considered a good person?' (from a recorded narrative)
- d. **adgin**=ime kes-uj fu∫-i fid Digor sweet=ALL.3SG look-PRS.3SG sheep-GEN meat 'He considers mutton tasty.' (from a literary text)
- <u>CONCLUSION</u>: Depictives are a separate class of predicates in Ossetic, *cf* the argument of Matushansky's (2019) against a one-serves-all PredP.
- I assume that the ablative is assigned to the AP by Dep⁰.
- <u>SEMANTICS</u> Depictives in Ossetic express stage level properties (that is, ones that are not permanently present), see the contrast between the grammatical sentence in (11a), where 'angry' is a stage level property, and the ungrammatical one in (11b), with 'tall', an individual level (i.e. permanent) property.

(13)	*soslan	<u>berzond-ej</u>	ratsudej	Digor Ossetic
	S.	tall-ABL	left	
	'*Soslan left t	tall.'		

- <u>DEPICTIVES VS ADVERBS</u> Depictives in Ossetic are distinct from adverbs: only depictives carry the obligatory ablative marking.
- In (14), *resubd* 'beautiful(ly)' is an adverb that modifies the writing event.

(14)	medine	resuud(*-ej) fins-uj	Digor Ossetic
	М.	beautiful-ABL write-PRS.3SG	
	'Madina w	rites beautifully.'	

• I abstract away from possible semantic restrictions on the finite verb³ in the clause that hosts a depictive, see e.g. Rapoport (1999) for English.

3.2.3 Depictive hosts: Arguments vs. Adjuncts

• Any verb argument in Ossetic, no matter which morphological case marks it (except the Iron comitative), can host a depictive.

*ja pnul košku mokroj I.NOM kicked cat.F.ACCwet.F.INS

 ³ For instance, in Russian, a language that normally allows objects to be depictive controllers, the following sentence (based on an English example in Rapoport 1993) is ungrammatical for most speakers.
 (i) *ja pnul košku mokroj

^{&#}x27;I kicked the cat (when it was) wet.' (intended)

- ABOUT DATA COLLECTION: stimuli were offered to language consultants who were asked to judge which of the participants the depictive modifies. ("Who is drunk in this sentence?")
- In the sentences below, the notation (X: 1, Y 2; X/Y: 3) means that 1 consultant judged X to be the only appropriate host, 2 consultants judged so Y, and 3 consultants judged so both participants.
- (15) Direct object⁴

	t object ⁴	
a.	accusative marked DO eʒine <u>ervong-ej</u> i/j soslan-i j proi fejjidton yesterday sober-ABL S-ACC I.saw 'Yesterday, I saw Soslan (when I/Soslan was) sober.' (Subj: 2; O	Digor bj: 6; S/0: 7)
b.	unmarked DO soslan χ^wergenase i χ ^w eruj <u>tsexgun-ej</u> i S cucumber eats salted-ABL 'Soslan is eating a/the cucumber salted.' (Subj: 2; Obj: 12; S/O: 0 2 people rejected the sentence.)	Digor ;
C.	Idiosyncratically marked second argument Ablative 'to fear X-ABL' soslani xeteg- ejj rasug- eji/j tersuj S Kh-ABL drunk-ABL fears 'Soslan fears Khetag drunk.' (Subj: 8; Obj: 3; S/O: 5)	Digor
d.	Superessive 'to trust X-SUP' soslanı xeteg -bel _j <u>rasug</u> -ej _{i/j} ewwenduj S X-SUP drunk-ABL trusts 'Soslan trusts Khetag drunk.' (Subj: 5; Obj: 3; S/O: 6)	Digor
e.	Allative 'desire X-ALL' soslan x^wergenase -mei belluj <u>tsexgun</u> -eji S cucumber-ALL desires salted-ABL 'Soslan wishes/desires a cucumber salted.' (Subj: 3; Obj: 13; S/O: 0)	Digor
f.	Ditransitives dative marked host soslan; Xeteg-en ; mafin-i deʁel-te <u>rasug-ei</u> i/j S Kh-DAT car-GEN key-PL drunk-ABL 'Soslan; gave Khetag; the car keys when hei/j was drunk.' (S: 10; I0: 1; S/I0: 5)	ravardta gave Digor
g.	ablative marked host (Iron Ossetic) JoJlan xeteg-ej ; maJin-ə deʁel-te raʃəg-ej i/j S Kh-ABL car-GEN key-PL drunk-ABL	raj∫ta took

⁴ Ossetic exhibits Differential Object Marking.

'Soslan_i took the car keys from Khetag_i when he_{i/i} was drunk.' (S: 1; S/IO: 3)

h.	ablative and superessive marked hosts						
	soslan-ej _j =mebel _i	<u>rasug-ej_{i/j}</u>	rawadej	Digor			
	S-ABL=SUP.1SG	drunk-ABL	befell				
	'I had it from Soslan	(when I/Sosla	an was) drunk.' (Abl: 4; Sup: 2	; Abl/Sup: 4)			

• On the other hand, for the majority of consultants, adjuncts are never able to be modified by depictives. The subject wins out even when the resulting interpretation is pragmatically odd, like in (16a).

(16)		Case-marked a	adjuncts			
	a.	tikisi soslan cat S-SUP 'The cat sleeps (S: 12; Adjunct:	drunk s on Soslan (w	-ABL slee hen it/*Sos	eps	Digor
	b.	soslan _i erbatsu S came 'Soslan came t	A-ALL	dru	ug-ej i/*j nk-ABL unct: 0; S/Adjunct: (Digor))
	C.	S	xeteg-bel _j Kh-sup s about Kheta _j	drunk-ABL	-	Digor junct: 0)
	d.		in.front.of		lewuj stands 5: 16; Adjunct: 0; S/A	Digor Adjunct: 0)
•	The c	ontrast hetweer	n the superes	sive NPs in	(15d) where it's an	argument and

- The contrast between the superessive NPs in (15d), where it's an argument, and in (16), where it's an adjunct, show that it is not the case marking, but indeed the argument/adjunct status that is responsible for the ability of NPs to control depictives in Ossetic.
- Possessors cannot host depictives.

(17)	a.	[soslan- i _i	ensuver _j]	χeteg-bel _k	rasug-ej*i/j/k	isembaldej
		Soslan-gen	brother	Khetag-SUP	drunk-ABL	s/he.met
		'Soslan's _i bro	ther _j met Khet	ag _k drunk*i/j/k.	,	Digor
	b.	[soslan- ii	χedzare _j]	basurqaj	rasug- ej*i/j	
		Soslan-gen	house	burned	drunk-ABL	
		'Soslan's hou	se burned dru	nk.'		Digor

3.2.4 Apparent exceptions

- The generalization about the argument vs. adjunct dichotomy leaks somewhat.
- While the regular possessor of an argument is unable to host a depictive (17), possessors are able to do so if they are "indirect arguments" of the verb, i.e. when occurring in idiomatic predicates like 'to take X's picture' 'to go to X's heart = to please X', etc., (17a-b).

- (18) a. soslanı **[alan-i xuze**_j] ifista <u>rasug-ej</u>_{i/j} Digor S A-GEN picture took drunk-ABL 'Soslan took Alan's picture when drunk.'
 - b. medine_i [**soslan-i**_j **zerde-me**] tsewuj <u>rasug-ej</u>_{i/j} Digor M S-GEN heart-ALL goes drunk-ABL 'Soslan likes Madina (*lit.* Madina goes to Soslan's heart) when drunk.'
 - Thus, possessors in idiomatized constructions seem to violate the generalization that only arguments may host depictives.
 - This violation, however, is merely spurious: the depictive in such a construction is actually hosted by the entire DP, e.g., 'Alan's picture' in (18a) and 'Soslan's heart' in (18b), and then the DP gets idiomatically interpreted as referring to its possessor, e.g. 'Soslan's heart' gets interpreted as 'Soslan'.
 - An alternative possibility is that possessor raising occurs in such cases. I leave the issue for further research.

4. Towards an analysis

4.1 Against control

- The behavior of control clauses is very different from that of depictives.
- We are interested primarily in control into adjuncts, because Deps are adjuncts, but control into complements behaves in the same manner.
- Converb clauses: Subject or Direct Object Control, see also Belyaev & Vydrin (2011: 123-124) for Iron Ossetic.

(19)	Subject control

a.	soslan _i je=nsuver-ej _j	[PRO _i /*j	χod-gɐ-j]	raledzuj
	Soslan POSS.3SG=brother-A	BL	laugh-CVB-AB	L runs.away
	'Soslan is running away from his brother laughing.'			Digor

b.	Object control			
	soslan medin-i _j	fejjidta	[PRO _j zar-ge-(j)]	
	Soslan Madina-ACC	see.PST.3SG	sing-CVB-ABL	
	'Soslan saw Madina	sing.'		Digor

- Other arguments cannot control converbial clauses, although we have seen that they can serve as depictive hosts.
- This is illustrated for a dative-marked IO in (20a). The sentence with a depictive in (20b) serves as a minimal pair.

(20)	a.	fidei	e=furt-en _j	qerelt	e	Digor
		father.NOM	poss.3sg=son-dat	keys		
		[kust-mɐ	PRO _i /*j ratsewu-ge-j]		ravardta	
		work-All	go.away-CVB-	ABL	give. PST.3SG	
		'The father _i le	eft the keys to his son _j	when	PRO _{i/*j} leaving for the	work.'

b.	soslaı	ni xeteg-en j	ma∫in-i	qerel-te	<u>rasug-ej</u> i/j	ravardta
	S	Kh-dat	car-GEN	key-pl	drunk-ABL	gave
	'Sosla	in _i gave Kheta	g _j the car key	vs when he _{i/j} wa	as drunk.'	

<u>CONCLUSION</u>: The relationship in Ossetic between a DepP and its host is not that of control.

3.2 In favor of binding3.2.1 What can bind anaphors

• Subjects and DOs can bind anaphors

(21) a.

ez	mɐ=ɣe	enamond	ne=xon-un	Dig
Ι	POSS.1SG=R	EFL unlucky	NEG=call-PRS.1SG	_

- b. DO soslan-i **e=xe xetstse** ba-zonge kodton S-ACC POSS.3SG=self with PRV-known do.PST.1SG 'I introduced Soslan to himself.'
- Arguments with lexical case marking can bind anaphors
- (22) Iron Ossetic

a.	'to praise X-ABL'						
	∫o∫lan-eji	je=mad	eppelə	je=xii	razə		
	Soslan-ABL	POSS.3SG=mother	praises	POSS.3SG=REFL	in.front.of		
	'Soslan's mother praises him in front of himself.'						

- b. 'to believe (in) X-SUP' ∫oʃlan-əli jɐ=mad ɐwwendə jɐ=χii
 Soslan-SUP POSS.3SG=mother believes POSS.3SG=REFL fersə for.the.sake
 'Soslan's mother believes in him for his own (lit. himself's) sake.'
- IOs can bind anaphors

b. $e=\chi e-me_{i/*j}$ soslan-i_i bavdiston Digor Ossetic POSS.3SG=self-ALL S-ACC I.showed *Idem*

- As we have seen, all these entities can serve as depictive hosts.
- Idiomatic possessors can bind anaphors:

(24)	a.	X's heart laug	ghs at Y 'X feels	s offended by	Y'	
		soslan-i	zerde e=xe-	bel	χoduj	Digor
		Soslan-gen	heart POSS.3	SG=REFL-SUP	laughs	
		'Soslan feels	offended by hi	imself.'		
	b.	soslan ema	medin-i	zerdi-te	keredze-bel	χoduntse
		Soslan and	Madina-gen	heart-PL	REC-SUP	laugh
		'Soslan and N	Madina are offe	ended by each	other.'	-
	C.	Y goes to X's	<i>heart '</i> X likes Y	יז		
		soslan-i	zerde-me	tsewuntse	e=xe-bel	χabertte
		Soslan-gen	heart-ALL	go	POSS.3SG=REF	L-SUP stories

'Soslan likes stories about himself.'

3.2.2 What cannot bind anaphors

• Adjuncts cannot bind anaphors (25a). The grammatical (25b) where the IO binds a reflexive in an adjunct is shown as the baseline.

(25)	a.	χeteg _i	radzoruj	soslan-bel _j	e=χets-en _{i/*j}	Digor
		Kh.NOM	tells	Soslan-SUP	poss.3sg=refl-dat	
		*'Khetag is te	elling himself _j a	about Soslan _j .'		

b.	χetegi	radzoruj	soslan-en _j	e=χe-bel _{i/j}	Digor
	Kh.noм	tells	Soslan-dat	POSS.3SG=REFL-SUP	
	'Khetag is	telling Soslan _i a	about himself _i .'		

Non-idiomatic possessors and PP complements cannot bind anaphors

(26) a. Possessor batradzi warzuj [e=xe-bel_{i/*j} soslan-i_i radzur-te-me loves POSS.3SG=REFL-SUP Batraz Soslan-GEN story-PL-ALL PRO_i isos-unl listen-INF 'Batrazi loves to listen to Soslanj's stories about himselfi/*j.' Digor

- b. Postposition complement soslan-i yetstse ba-zonge kodton *e=xe S-GEN with **PRV-known** POSS.3SG=self.ACC do.pst.1sg lit. 'I made himself_i acquainted with Soslan_i.' (intended) Digor
- As we have seen, adjuncts, possessors, and PP complements cannot serve as depictive hosts.

<u>CONCLUSION</u>: A full parallelism exists between hosting depictives and binding anaphors in Ossetic.

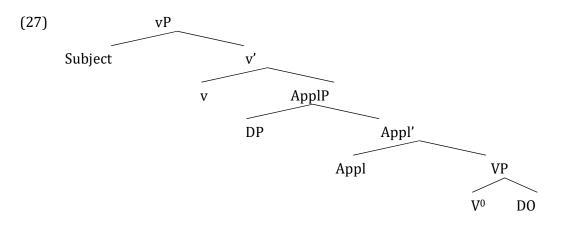
4. Proposal

To repeat, **BASIC QUESTIONS**:

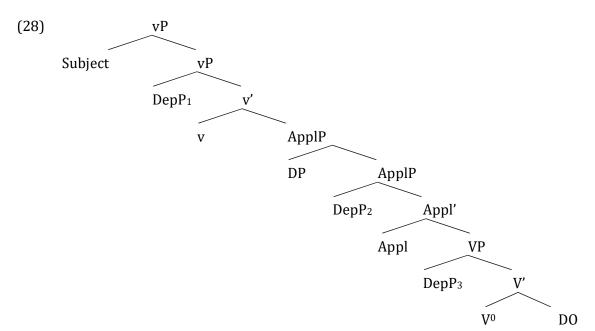
- How is the relation established between a depictive and its host?
- > What is the syntactic position of the depictive?

4.1 Basic Answers

- ✓ The relation is that of anaphoric binding under the appropriately defined ccommand relationship. Specifically, I assume that only maximal projections count for the purposes of c-command (m-command).
- ✓ DepP can adjoin to VP, ApplP, and vP.
- I make fairly standard assumptions about the clause structure (27).
- Nothing in the proposal depends on whether DO is generated as the complement of V⁰, as shown in (27), or as the specifier of a respective functional projection, as in Borer (2005); Ramchand (2008), Adger (2013), a.o.
- Likewise, nothing hinges on whether idiosyncratically case-marked internal arguments (15 c-e) are Spec ApplPs or are the complements of the respective V⁰'s.



- REMARK: The order DO>IO is also possible, see the binding facts in (23).
- Accordingly, DepP may occupy the positions shown in (28).
- In (28), DepP₁ is a subject-oriented depictive; DepP₂ is an applicative-oriented depictive; and DepP₃ is an object-oriented one.



- REMARK I show DepPs to be adjoined lower than the respective Specs. Alternatively, we can assume that it is the m-command or perhaps phase-command of Bruening (2014), rather than c-command, relationship that is relevant here⁵.
- The c-command relationship between a DP and a depictive that modifies it must hold at the base position. It doesn't need to hold on the surface.
- (29) rasug-eji <soslan-ii> neked fejidton <soslan-ii> Digor drunk-ABL Soslan-ACC never I.saw Soslan-ACC 'I've never seen Soslan drunk.'

4.2 Deriving the properties of Ossetic depictives

- RULING IN ARGUMENTS: this follows immediately from the c-command condition.
- RULING OUT PP COMPLEMENTS AND REGULAR POSSESSORS (that is, possessors other than in idiomatic expressions): this again follows immediately from the(underlying) c-command condition.
- Possessors occupy Spec DP in Ossetic, Erschler 2019.

RULING OUT ADJUNCTS

- ✓ Adjunct bare DPs are introduced by null adpositions.
- ✓ Alternatively, we may just posit that adjuncts cannot bind in Ossetic.
- Either assumption is unfortunately stipulative, but at least it reduces restrictions on depictives to restrictions on anaphor binding

4.3 What exactly is bound?

- Ossetic data do not allow us to decide whether Spec DepP is null (in which case the host binds Dep⁰ or DepP) or occupied by a dedicated anaphor.
- The locality domain for this anaphor in the Ossetic can be taken to be the minimal finite clause.

5. Cross-linguistic generalizations

- CONJECTURE: cross-linguistically, binding can account for the properties of the depictives
- The variation comes from variation in the lexical properties of Dep⁰ and in the binding properties of the anaphor in Spec DepP.
- The lexical properties of Dep⁰ are responsible for possible adjunction sites of DepP.

⁵ We need to account for binding of VP adjuncts by DOs anyway:

⁽i) a. ?Tibalⁱd zastal Romeo i Džul^jetuv domax drug druga Tybalt apprehended Romeo and Iuliet in houses REC.GEN 'Tybalt apprehended Romeo and Juliet in each other's houses.' tetradkax b. ?Tibal^jd narisoval Romeo i Džul^jetu v Tybalt drew Romeo and Juliet in houses drug druga REC.GEN 'Tybalt drew Romeo and Juliet in each other's notebooks.'

• The size of the binding domain of the anaphor is its lexical property.

5.1 Why does the binding domain matter?

CASE STUDY 1: Russian instrumental-marked depictives

- Russian has object-oriented depictives, but lacks applicative-oriented ones.
- (30) jaj zakoldoval malyšaj jevo deduk p^jjan-ym_{i/j/*k} I. jinxed kid.ACC his grandfather.DAT drunk-INS.M 'I jinxed the kid for his grandfather drunk.' Boneh & Nash (2017: 926)⁶
 - IOs are able to bind DOs in Russian (see e.g. Nash & Boneh 2017)
 - If the binding domain of depictives were the same as for regular anaphors, we would have predicted that applicatives would be able to bind depictives adjoined to VP.
 - Proposal: the binding domain of the respective depictive anaphor is the category it adjoins to.
 - Under this assumption, DepP adjoined to VP is not visible either the subject or any applicative.

CASE STUDY 2: Tyvan (Turkic)

• Tyvan only has DO-depictives; subject depictives are expressed by converbial clauses, Nevskaya (2019).

(31)		Tyvan,	Nevskaya	(2019)
	а	പ	etti	čig-ge

	5			
a.	ol	etti	čig-ge	či:r
	he	meat-ACC	raw-DAT	eats
	'He ea	its meat raw.'		
b.	ol	anïyaq tur-γa	iš čoq.	.apar-γan
	s/he	young stand.	AUX-CVB die-	PERF

'S/he died young.' (lit. 'being young')

PROPOSAL: DepP only can adjoin to VP in Tyvan, and VP serves as its binding domain. CONJECTURE: Depictive anaphors always have the narrow binding domain.

Adjunction site of DepP	Predictions	Languages
DP	no sensitivity to the type of	Slovenian;
	a host	possibly case-agreeing
		depictives in Russian
vP	only subject depictives	?
VP	only object depictives	Tyvan
vP, VP	subject and object	The Standard European
	depictives	system
vP, VP, ApplP	any arguments	Ossetic

Table 2. Cross-linguistic predictions

⁶ The judgment that the depictive can be DO-oriented is mine.

6. Conclusion

- I have described the properties of depictives in Ossetic.
- In these languages, they are demonstrably a separate type of predication.
- Unlike the situation in the languages where the syntax of depictives has been studied in depth, any arguments but no adjuncts can bind a depictive in Ossetic.
- At the present stage of research, it is hard to tell whether the Ossetic system is typologically rare.
- The relation between a noun phrase modified by a depictive and the depictive in Ossetic is that of binding.
- A binding-based account has enough flexibility to explain the cross-linguistic variation in the realm of depictives.

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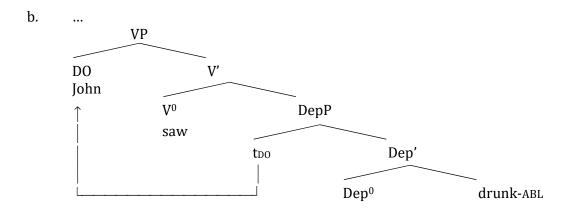
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Appendix: A Possible (but odd) analysis

- Assume that DepP is generated (together with the host) as a sister of V⁰.
- All the arguments are generated as the specifiers of appropriate heads on the spine.
- (32) a. Schematic English (imagine it's Ossetic) Mary saw John drunk.



- The host DP then moves into an argumental position for case or theta-role reasons.
- Assuming Merge-over-Move priority, merged arguments do not create locality problems.
- Adjuncts either are impossible to move into, or do not bear the attracting features.
- The similarity with anaphor binding is taken to be epiphenomenal.
- However, on this type of analysis, it is not clear what blocks IOs from being depictive hosts in other languages.
- This consideration makes me reject this type of analysis.