

Did Vedic have anaphors? A closer look at *svá-*

Laura Grestenberger
Harvard University

Formal Approaches to South Asian Languages 2, March 18 2012, MIT

1 Introduction

Two issues¹:

i. Sanskrit-internal problem: What are the locality conditions of possessive *svá-*? Is it

- Topic oriented: Watkins (1976), Pinault (2001)
- Rheme oriented: Vine (1997)
- Agent oriented: Hock (2006)

Kiparsky (2011): No structural antecedent necessary

ii. Different approaches to accounting for the properties of anaphora:

- ‘DP-based’: Anaphors need to be locally anteceded by a DP binder in their governing category: Chomsky (1981), Huang (1982) etc.
- Predicate-based: Reinhart and Reuland (1993), Reuland (2011) etc.
- (Referential) hierarchy-based: DP antecedence still plays a role, but in addition referentially dependent nominals ‘compete’ for different domains, e.g. Burzio (1998), Kiparsky (2002), Safir (2004), Kiparsky (2011)

Concerning i., I will argue in this paper that *svá-* is a possessive anaphor that needs to be locally bound and that ii. its distribution can be predicted using the referential hierarchy of Sanskrit possessive pronominals.

1.1 Outline of this talk

- 1. Introduction
- 2. Background: Marking possession in the RV
- 3. Distribution of *svá-*: local antecedents
 - Subject orientation
 - Genitive possessors

¹I am grateful to Isabelle Charnavel, Amy Rose Deal, Hannes Fellner, Jim Huang, Sabine Iatridou, Jay Jasanoff and Pritty Patel-Grosz for helpful comments and discussion.

- 4. Dependency hierarchy for possessive pronominals in Sanskrit
 - LDA uses of *svá-*
- 5. Conclusion

NB all examples are taken from the Rigveda (unless otherwise indicated), collection of hymns composed ca. 1,400-1,200 BCE.

2 Strategies for marking possession in the Rigveda

2.1 Personal pronouns

- No designated 3rd person forms

(1) Genitive paradigm of the personal pronoun

1.sg.	<i>máma</i>	‘my’	1.du.	[<i>āváyos</i>]	‘of us two’	1.pl.	<i>asmákam</i>	‘our’
2.sg.	<i>táva</i>	‘your’	2.du.	<i>yuvós</i>	‘of you two’	2.pl.	<i>yuṣmákam</i>	‘your’

- These can only be used when the antecedent is outside the clause - in GB terms, these must not be locally bound (Principle B)².

- (2) a. *yádi stómam máma śrávad* (8.1.15a)
 when song-ACC my hear-SUBJ.3SG
 ‘When he hears my song’
- b. *asmákam śátrūn ... darṣīṣṭa* (1.132.6)
 our enemies-ACC scatter-PREC.3SG
 ‘May he scatter our enemies!’

2.2 The demonstrative pronoun

In ‘obviative’ contexts (**He_i saw him_i*), the genitive of the demonstrative pronoun stem is used for the third person: *asyá* (m.sg.), *asyás* (f.sg.), *ayós* (dual), *eṣám* (m.pl.), *āṣám* (f.pl.).

- (3) *na+átārīd asya sámṛtiṃ vadhánāṃ ...* (1.32.6c)
 NEG+overcome-AOR.3SG DEM-3SGm onslaught-ACC weapons-GEN
 ‘He_i has not withstood the onslaught of his_{*i/j} weapons’

Again, Principle B.

2.3 *svá-* ‘SELF’s’, ‘own’

- Inflects like an adjective (‘*svá-*’ is the stem/citation form)
- Agrees in gender, number and case with the possessum
- Takes 1st, 2nd and 3rd person antecedents:

²This also seems to hold for the corresponding clitics *me, te, naḥ, vaḥ*.

- (4) a. svéna bhāmena taviṣó babhūván (1.165.8)
 ‘svá’-INSTR anger-INSTR powerful-NOM having.become-NOM.PF.PTCP
 ‘Having become powerful through my (own) anger, (I have killed Vṛtra) ...’
 b. svām vavrīm kūha dhitsathaḥ (1.46.9)
 ‘svá’-ACC hull-ACC where place-2DU.SUBJ
 ‘Where do you want to place your (own) (bodily) hulls?’
 c. svéneva dhíro mánasā yad ágrabhīt (1.145.2)
 ‘svá’-INSTR+CL wise-NOM mind-INSTR REL-ACC seize-3SG.AOR
 ‘... which he understood through his (own) mind like a wise (one).’

- The traditional view is that *svá-* suppletes the paradigm of the possessive pronoun for the third person, but this would not explain the cases in (4).
- Co-occurrence with a personal pronoun is furthermore possible:

- (5) yájasva tanvām táva svām (6.11.2d)
 sacrifice-MID.IPV.2SG body-ACC your-2SG.GEN *svá*-ACC

tanvām táva svām = ‘your own body’? ‘yourself’?

Grammaticalization ‘body’ → ‘self’ → (-)SELF - the right analysis here is probably ‘sacrifice to your own self’

3 Distribution of *svá-*: Locality & antecedence

Kiparsky (2011): *svá-* doesn’t need a structural antecedent.

3.1 Subject orientation

→ No.

- (6) mahé pitré_i dadātha svām_i nāpātam (6,20,11)
 great-DAT father-DAT give-2SG.PF *svá*-ACC grandson-ACC
 ‘You have given the grandfather_i his_i grandson.’

Contrast this with cases that are traditionally considered subject-oriented:

- (7) a. ra:m_i-ne mohən_j-ko us-ki_{*i/j/k} kita:b di: (Hindi, Reuland 2011, 168)
 Ram-ERG Mohan-ACC 3GEN.FEM book give-PAST.FEM
 ‘Ram_i gave his_{*i/j/k} book to Mohan_j’
 b. ra:m_i-ne mohən_j-ko əpn-i_{i/*j/*k} kita:b di:
 Ram-ERG Mohan-ACC 3GEN.FEM book give-PAST.FEM
 ‘Ram_i gave his_{i/*j/*k} book to Mohan_j’
- (8) Wo_i gaosu Lisi_j ziji_{i/*j} de fenshu (Chinese, Huang and Tang 1991, 265)
 I tell Lisi self ’s grade
 ‘I told Lisi my own grade’
- (9) otec_i synovi_j dal sve_{i/?j} auto (Czech)
 father-NOM son-DAT gave SELF-POSS car
 ‘The father_i gave the son_j his_{i/?j} car’

3.1.1 Genitive constructions

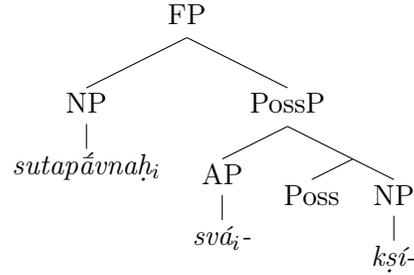
... provide further arguments against subject orientation.

Hock (1991), Vine (1997): *svá-* often appears locally bound by a genitive antecedent:

- (10) ... sómāḥ sutáśaḥ santu devasya své_i kṣáye
 Soma-NOM pressed-NOM be-IPV.3PL god-GEN svá-LOC home-LOC
 sutapávnah_i (8,2,7)
 soma.drinker-GEN
 ‘Let the Somas of the god be pressed in the soma-drinkers_i own_i house.’

... a possible structure for (10):

- (11) a. *[[sutapávnah_i] [své kṣáye]]*
 b.



- Reuland (2011): Complementary distribution of POSS anaphors (Russian *svoy*, Icelandic *sinn* etc.) and non-clitic definite markers (definite articles etc.) - languages either have one or the other.
- Bošković (2008), (2009): Articleless languages lack DP.

→ Sanskrit: No article, POSS anaphor (*svá-*), allows Left Branch Extraction & extraction from NP adjuncts.

.... could explain the contrast between languages in which structures like Engl. *He_i saw his_i book* are grammatical and those in which they aren't (i.e. Sanskrit, Russian), Burzio (to appear).

- (12) a. On_i uže rasskazal mne o [svoej_i/ *ego_i žizni] (Russian, Timberlake 1979)
 he already tell-PAST me about self's/ *his life
 ‘He_i had already told me about his_i life’
 b. Ty_i uže rasskazal mne o [svoej_i/ ?tvoej_i žizni]
 you already tell me about self's/ your life
 ‘You have already told me about your life’

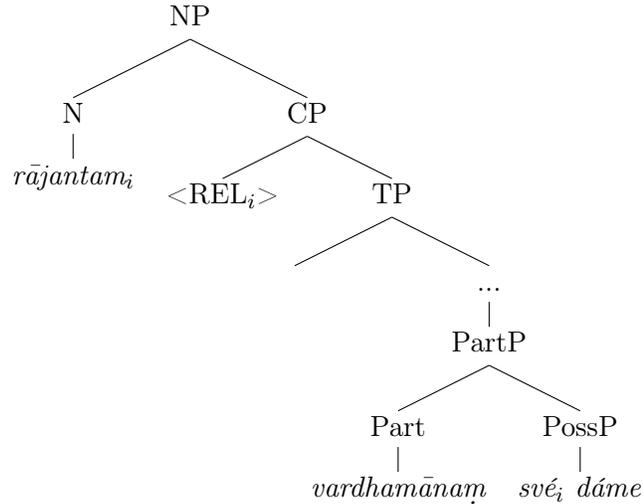
3.2 Participial constructions

Vine (1997): Relative clauses with a covert head - which antecedes *svá-*:

- (13) a. 1,1,7/8:
 emasi rājantam_i ... [REL_i vardhamānaṃ své_i
 approach-PRES.1PL ruler-ACC growing.up-PTCP.ACC svá-LOC
 dáme]
 house-LOC

‘We are approaching the ruler_i (...) [REL_i growing up [in his own_i house]]’

b.



So once again the antecedence relation is local.

3.3 Summary

(14) Distribution of *svá-* in the Rigveda:

‘emphatic/intensifier’	13
substantivized	4
local antecedent	86
LDA	12
Unclear	12
Total	127

With respect to binding domain D (see below):

- Pronouns (2.1.) must not have a coindexed antecedent in D
- svá-* must have a coindexed antecedent in D - anaphor
- In obviative contexts, the demonstrative pronoun is used for the 3rd person

4 Dependency hierarchies

What are the binding domains for different referentially dependent items?

Kiparsky (2002):

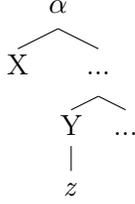
‘hierarchy of constraints which impose successively more restrictive requirements on the locality relation between the anaphor and its antecedent. The domains form a strict hierarchy of inclusion ...’

(15) locally bound » finite-bound » reflexive » ref. dependent » ref.independent

Similarly Safir (2004): Languages have different hierarchies of referential dependence. E.g. Germanic languages:

(16) SIG-SELF »pronoun-SELF »SIG »pronoun »R-expression

(17) **Form-to-Interpretation-Principle (FTIP)** (Safir 2004, 74):



If there is a form w that is more dependent than z and we find z in (17), then Y cannot be interpreted as identity dependent on X. → This principle gives us obviation

(18) **Local Antecedent Licensing (LAL):**

what's left of principle A - 'an anaphor must be c-anteceded in Domain D'

Domain D:

'The domain for X is the minimal maximal extended projection containing X'

Compare the traditional notion of *governing category* (Huang 1982 version):

(19) *Governing category*

α is the governing category for β if and only if α is the minimal category containing β , a governor of β and a SUBJECT which, if β is an anaphor, is accessible to β .

4.1 A dependency hierarchy for Sanskrit possessive pronouns

(20) *svá-* »personal pronoun »demonstrative pronoun »R-expression

If the possessum is *inalienably possessed* and the possessor is in the domain of LAL, no special possessive form is used.

(21) kadá sūnūḥ pitāraṃ ... ichāc (10,95,12a)
 When son-NOM father-ACC search-SUBJ.3SG
 'When will the son look for the/his father?'

NB: This does NOT exclude kadá sūnūḥ **svām** pitāraṃ ... ichāc - 'emphatic' use has special properties not directly governed by LAL! Compare

(22) Czech:

- a. zvedla jsem ruku
 raise-PCTP.FEM am hand-ACC
 'I raised my hand'
- b. zvedla jsem svoji ruku
 raise-PCTP.FEM am POSS-ACC hand-ACC
 'I raised MY hand'
- c. *? zvedla jsem moji ruku
 raise-PCTP.FEM am my-ACC hand-ACC

(23) Kutchi Gujarati:

- a. John e-no (potha-no) hath-ne uparyo (Patel-Grosz (2011))
 John 3.sg-gen self-gen arm-acc raised.pfv.m.sg
 ‘John raised his (own) arm’ (inalienable possession - *potha* optional)
- b. John e-no *(potha-no) kutro joyo
 John 3.sg-gen self-gen dog.m.sg see.pfv.m.sg
 ‘John saw his own dog’ (alienable possession - *potha* obligatory)

→ Patel-Grosz (2011): Possessive reflexives are sensitive to semantic conditions on binding ((in)alienability, animacy etc.)

4.1.1 *svá-*

If the possessum is not inalienably possessed and the possessor is in the domain of LAL, *svá-* is the most dependent form available:

- (24) a. $té_i$ jānata svām_i okyàṃ ... (8.72.14a)
 DEM-NOM.PL know-3PL *svá*-ACC home-ACC
 ‘They_i know their_i home’
- b. dūraś ca vísvā avṛṇod ápa svāḥ (3.31.21d)
 doors-ACC and all-ACC close-IPF.3SG away *svá*-
 ‘... and he unlocked all his doors.’

4.1.2 personal pronouns/3.sg. demonstrative

... since *svá-* is higher on the dependency scale than the personal pronoun, using it within the domain of LAL implies a dependent interpretation. Hence personal pronouns kick in for non-coreference:

- (25) yādi stóman máma (*svām) śrávad (8.1.15a)
 when song-ACC my-ACC (**svá*-ACC) hear-SUBJ.3SG
 ‘When he hears my song’

There are no designated 3rd person forms in the pronominal paradigm - hence we get the demonstrative in obviative contexts with two 3rd persons.

4.1.3 LDA/Discourse-anaphoric uses of *svá-*

Safir (2004): Anaphors can be promoted to UD (‘Unbounded Dependency’) forms under certain syntactic conditions - in which case they do not have to obey LAL.

- (26) English ‘-self’ forms (from Safir 2004, 178):
- a. Selena insisted that Charlie would trust no one except herself.
- b. People such as myself have never been admitted.

Problem: Under what conditions can anaphors become exempt?

- (27) **táva** tviṣó jāniman rejata dyaúr éjad bhúmir
 your splendor-GEN birth-LOC shake-IPF.3SG sky-NOM move-IPF.3SG earth-NOM
 bhiyásā **svásya** manyóḥ (4.17.2)
 fear-INSTR *svá*-GEN anger-GEN

‘The sky was shaking [with fear] of your splendor at your birth, the earth moved out of fear of *your* anger.’

The second case also involves the phrase *bhīyāsā svāsya manyóḥ* - but with this reading *tāva manyóḥ* is expected!

No syntactic antecedent:

- (28) nahí svám áyuṣ cikité jáneṣu (7.32.2)
 NEG *svá*-NOM lifespan-NOM know-PF.MID.3SG people-LOC
 ‘For one’s own lifespan is not known among the humans’

Discourse antecedent:

- (29) yó_i no abhí hváro dadhé svá_i tám_i marmartu
 REL us PRVB trap set-3SG.PRES *svá*-NOM DEM.PRON crush-3SG.IPV
 duchúnā (2.23.6)
 mischief-NOM
 ‘Whoever sets a trap for us, may his_i own mischief crush him!’

→ So in cases where the anaphor does not have a coreferential structural antecedent, LAL does not apply if the anaphor ‘does not participate in a complete thematic complex’ (p. 179)

→ This still cannot account for (29) and (28).

5 Conclusion

- i. In the majority of cases in the Rigveda, *svá*- has a local coreferent antecedent (in a domain that \cong Safir’s LAL)
- ii. Assuming a dependency hierarchy like (20) predicts the outcomes of competition between *svá*- and the personal pronouns (for 1st & 2nd person) on the one hand and *svá*- and the demonstrative pronoun on the other - *pragmatic obviation*
- iii. The possessive anaphor of Vedic patterns with POSS anaphors in other languages - especially interesting w.r.t. modern Indo-Aryan languages (Davison 2000)
- iv. No special domain for pronouns needs to be stipulated (no ‘Principle B’) - no [+/-PRON], [+/-ANAPHOR] features - FTIP + pragmatic obviation
- v. Anaphors can become ‘exempt’ from LAL - but the conditions need yet to be determined

References

- Bošković, Željko. 2008. What will you have, DP or NP? In *Proceedings of NELS 37*.
- Bošković, Željko. 2009. More on the No-DP analysis of articleless languages. *Studia Linguistica* 63/2:187–203.

- Burzio, Luigi. 1998. Anaphora and soft constraints. In *Is the best good enough? Optimality and competition in syntax.*, ed. Barbosa et al. Cambridge/London: MIT Press.
- Burzio, Luigi. to appear. The anaphoric and pronominal system. In *The syntax of Italian*. Cambridge University Press.
- Chomsky, Noam. 1981. *Lectures on government and binding*. Dordrecht: Foris.
- Davison, Alice. 2000. Lexical anaphors and pronouns in Hindi/Urdu. In *Lexical anaphors and pronouns in selected South Asian languages. A principled typology*. Berlin/New York: De Gruyter.
- Hock, Hans Henrich. 1991. Possessive agents in Sanskrit? In *Studies in Sanskrit syntax*, ed. H.H. Hock. Delhi: Motilal Banarsidass.
- Hock, Hans Henrich. 2006. Reflexivization in the Rig-Veda (and beyond). In *Themes and tasks in Old and Middle Indo-Aryan linguistics*, ed. E. Pirart, 19–44.
- Huang, C.-T. James. 1982. Logical relations in Chinese and the theory of grammar. Doctoral Dissertation, MIT.
- Huang, C.-T. James, and C.-C. Jane Tang. 1991. The local nature of the long-distance reflexive in Chinese. In *Long-distance anaphora*, ed. Jan Koster and Eric Reuland, 263–282. Cambridge University Press.
- Kiparsky, Paul. 2002. Disjoint reference and the typology of pronouns. In *More than words*, ed. Ingrid Kaufmann and Barbara Stiebels, *Studia Grammatica* 53, 179–226. Berlin: Akademie Verlag.
- Kiparsky, Paul. 2011. Did Indo-European have reflexive pronouns? *Paper presented at the 22nd Annual UCLA Indo-European conference, Los Angeles, Oct. 28-29 2011* .
- Patel-Grosz, Pritty. 2011. Complex reflexives and the Principle A problem. Ms., MIT.
- Pinault, Georges-Jean. 2001. Védique *tanú-* et la notion de personne en indo-iranien. *Bulletin de la Société de Linguistique de Paris* 96/1:181–206.
- Reinhart, Tanya, and Eric Reuland. 1993. Reflexivity. *Linguistic Inquiry* 24/4:657–720.
- Reuland, Eric. 2011. *Anaphora and language design*. Cambridge, MA: MIT Press.
- Safir, Ken. 2004. *The syntax of anaphora*. Oxford University Press.
- Timberlake, Alan. 1979. Reflexivization and the cycle in Russian. *Linguistic Inquiry* 10/1:109–141.
- Vine, Brent. 1997. On the expression of the reflexive possession in the Rig-Veda: RV *svá-*. In *Syntaxe des langues indo-iraniennes anciennes*, ed. E. Pirart, 203–14. Barcelona: Editorial Ausa.
- Watkins, Calvert. 1976. Towards Proto-Indo-European syntax: problems and pseudo-problems. In *Papers from the parasession on diachronic syntax, April 22 1976, Chicago Linguistics Society*.