

The Oblique Form as a Syntactic Case in Hindi/Urdu¹

Goal of this paper: Show that Hindi/Urdu has an affixal case, which can be explained using an abstract syntactic case feature. This analysis requires that postpositions in Hindi/Urdu are not realizations of structural case. By eliminating the postpositions as structural case, this proposal may also help to remove case and agreement in Hindi/Urdu as an exception. (Mahajan 1990, Bhatt 2005, **Legate to appear**). Its exception status will be discussed later.

Proposal:

Abstract case	Ø	t° <i>nominative</i>
	Ø	v° <i>accusative</i>
	-e	p° <i>oblique</i>
(No claim)	ne	ergative
Functional head	ko	dative
	se	instrumental, source
	kaa	genitive
	mẽ	in
	par	on
	tak	toward/until
	dvaaraa ²	through

1. Previous Proposals of Hindi/Urdu Case

Mahajan 1990 Mohanan 1994

Butt 2004

¹ I would like to thank the Abbasi family for sharing their home and language with me. Thanks especially to Karthik Durvasula for extensive discussion and his always willing ear. Thanks also to Masahiro Yamada, Lanny Hidajat and Timothy Mckinnon. All errors and oversights are my own ☺ The following abbreviations are used in these paper: Abs – Absolutive; Acc – Accusative; Dat – Dative; Erg – Ergative; Neg – Negation; Prs – Present; LDA – Long Distance Agreement; Hon – Honorific; D– Default; PSTPRT – Past Participle; NMLZ – Nominalizer; Pass – Passive Auxiliary; PSI – Polarity Sensitive Item; Inf – Infinitive; Pst – Past; Pfv – Perfective; Impfv – Imperfective; Prog – Progressive; Hab – Habitual; Ger – Gerund; Obl – Oblique; 1 – 1st Person; 2 – 2nd Person; 3 – 3rd Person; F – Feminine; M – Masculine; N – Neuter; Sg – Singular; Pl – Plural

² This is a postposition I haven't heard in spoken Urdu, but is cited in Mohanan 1994:62

bacce *-ke* *dvaaraa*
 child(NN) G(NN) through (the agency of)
 'through (the agency of) the child'

Ø	nom
Ø	acc
ne	erg
ko	dat

Ø	Nom
ko	Acc
ne	Erg
ko	Dat
se	Instr
kaa	Gen
mẽ/par	Loc
OBL	Non-nom

Ø	nom
ko	acc
ne	erg
ko	dat
se	instr
k-	gen
mẽ/pār/tak/ Ø	loc

Previous proposals of Hindi/Urdu case only consider postpositions.

“all case is realized by postpositions, except for nominative case.” (Davison 2004:202)

However, there are also Hindi/Urdu noun forms which alternate between ‘direct’ and ‘oblique’ forms, the ‘oblique’ is found on the complement of a postposition in (), the ‘direct’ is found elsewhere in (). The forms are obligatory (), ().

2. Oblique form of *gadhē*

[us gadhe se] le lo
that.OBL donkey-M.SG.OBL from take-SUBJ take-2nd.sg
‘Take it from that donkey.’

3. Direct form of *gadha*

humara gad^{hi}a ghaas =to nahin kha =ta
our donkey grass emph NEG eat imperf
“Our donkey doesn’t eat grass.”

4. The oblique is obligatory when the NP is the complement of a postposition

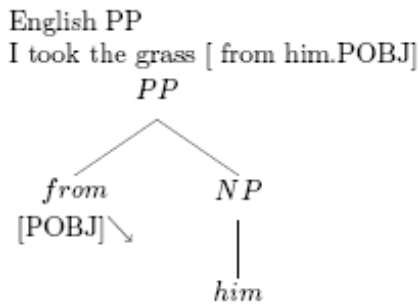
[*wo gadha se] le lo
that donkey.MSG from take-SUBJ take-2nd.sg
‘Take it from that donkey.’

5. The oblique cannot appear without a postposition

[*us gadhe] ghaas kha rahaa hai
that.OBL donkey.MSG.OBL grass eat IMPERF.M.SG 3.SG
‘That donkey is eating grass.’

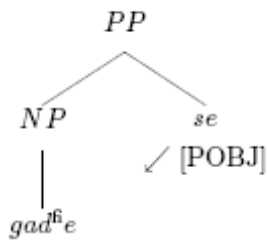
The oblique form is similar to the accusative *m* on ‘him’ in the English structure below.

1. Complements of prepositions in English are accusative



2. Complements of postpositions in Urdu are oblique
Urdu PP

us gad^{hi}e =se le =lo
that donkey-POBJ from take take-2nd
"Take it from that donkey."



I claim that the oblique is also a form of case, a suffixal case rather than postpositional.

The “oblique”

The exact shape of the oblique stem depends on (a) the final phonological segment, and (b) gender (masculine and feminine) of the word.(Mohanani 1994:61)

In () below the final *-a* ending of the ‘direct’ masculine *gadha* ‘donkey’ alternates with the oblique *-e* in *gadhe* ‘horse-OBL.’

6. The oblique forms of nouns (Shukla 2001)

	Singular		Plural		
	Direct	Oblique	Direct	Oblique	
Masculine					
a)	gadha	gadhe	gadhe	gadho	‘donkey’
b)	mez	mez	mez	mezo	‘table’
Feminine					
c)	gadhi	gadhi	gadhia	gadhio	‘female donkey’
d)	bahu	bahu	bahue	bahuo	‘daughter-in-law’

Pronouns also show a ‘direct’/‘oblique alternation. In () below the nominative stem for 1st singular is *mĕ* while the oblique stem is *mŭj^h*.

7. The oblique forms of pronouns (Shukla 2001)

	Singular		Plural	
	DP	[DP from]	DP	[DP from]
1	mĕ	mujh se	hum	hum se
2	tum	tum se	ap	ap se
3 Prox	ye	is se	ye	in se
3 Dist	vo	us se	vo	un se
3 Rel	jo	jis se	jo	jinho se
3 wh person	kŏn	kis se	kŏn	kinhŏ se
3 wh thing	kya	kis se	kya	kis se
Place Prox	yahã	yahã se	yahã	yahã se
Place Dist	vahã	vahã se	vahã	vahã se
Place Rel	jahã	jahã se	jahã	jahã se
Place wh	kahã	kahã se	kahã	kahã se
Quantity	itna/itni	itne		
Quantity Rel	jitna/jitni	jitne		
Quantity wh	kitna/kitni	kitne		
Time wh	kab	kab se	kab	kab se
3 indef person	koi	kisi se	koi-koi	kisi-kisi se
3 indef thing	kuch	kuch	kuch-kuch	kuch-kuch se
Place indef	kahĩ	kahĩ	kahĩ-kahĩ	kahĩ-kahĩ se
Quantity-Rel				
Time indef	kabi	Kabi se	kabi-kabi	kabi-kabi se

These properties have been described in Hindi/Urdu grammars (Kachru (1965), Kachru (1980:26), Pray (1970), McGregor (1972), Hook (1979), and in LFG literature, Mohanan (1994), Butt & King (2004)).

Yet, so far the GB/P&P/Minimalist literature on Hindi/Urdu case and agreement discusses only postpositions as case, overlooking the oblique forms. The oblique is not glossed in Mahajan 1990, Kidwai 2000, Davison 2004 and Dayal 2003, 2004.

8. jaane kaa (Mahajan 1990:160)

raam-ne mohan-ko jaane kaa vaadaa diyaa
Ram-erg Mohan to go gen promise gave
Ram promised Mohan to leave.

9. larke-ko (Kidwai 2000:65)

sita-ne ek laṛke-ko pāsand kiya
Sita-ERG a boy-DAT liking did

'Sita liked a boy.'

10. is laRkee-koo (Davison 2004:209)

maiN-nee is-laRkee-koo deekh li-yaa

I-Erg this boy-Dat see take-Pf-ms

'I saw this boy.'

11. apne kamre meN (Dayal 2003 D23)

puure din maiN-ne (apne kamre meN) kitaab paRhii

whole day I-erg self's room in book-fem read-fem-sing.

"The whole day I read books in my room."

12. kamre meN (Dayal 2004:403)

kamre meN cuuhaa ghuum rahaa hai

room in mouse moving is

'A mouse is moving around in the room.'

Bhatt 2005 includes it in his glossing on gerunds but not on nouns, and doesn't discuss its properties.

13. larke-ne Sita-se [kitaab parRh-ne]-ko (Bhatt 2005:780)

ek-bhii laṛke-ne Sita-se [kitaab paṛh-ne]-ko nahī:

one-PSI boy-Erg Sita-Inst book.F go-Inf.Obl-Dat Neg

kah-aa

say-Pfv

'Not even a single boy told Sita to read the book.'

Only Mohanan 1994 includes the gloss and a discussion of its appearance.

14. bacce-ke liye (Mohanan 1994:62)

bacce -ke liye

child(NN) G(NN) for

'for the child'

Previous Discussion of the Oblique

Previous accounts of the oblique have discussed the oblique in terms of an inflectional paradigm in the lexicon. In this paper I will show that a uniform analysis of the oblique's presence can be provided if we adopt a theory of abstract case features which are determined in the syntax, and phonological realization of the case features are determined in the morphology (Legate to appear). This understanding of the oblique is may prove useful in analyzing Hindi/Urdu case and agreement.

The oblique has been discussed in the LFG framework; both LFG accounts locate the oblique formation in the lexicon.

Mohanan 1994:

- “just as stems carry information such as SINGULAR or PLURAL, they also bear the case features NOM, NONNOM, or VOC.” (Mohan 1994:61)
- “NONNOM stems must take a case clitic after them” (Mohan 1994:62)

Butt & King 2004:

- The oblique is an agreement inflection on the complement of a K head (case postposition)
- Butt & King see “this remnant of the Sanskrit system as ensuring synchronic morphological wellformedness: if the noun is in the oblique form, then modifying adjectives must also be in the oblique form.” (Butt & King 2004:168)
- The older morphological affixes (such as the oblique) may be part of the case system in other South Asian languages. (Butt & King 2004:173)

However, researchers in LFG are calling for a development in their framework to deal with case.

Butt (2005) notes that “*the differing realizational possibilities for case markers ... one could argue about whether all of these different morphosyntactic creatures should all be lumped together under the label case ... The overt realization of case must be dealt with by some component of the theory, however, that component is often left underspecified.*” (Butt 2005:11)

So, a non-lexical analysis of the ‘direct’ and ‘oblique’ form may be brewing in the LFG literature.

Case in the Lexicon vs. Case in the Syntax
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“Chomsky (1965:221–222, footnote 35) does note that he assumes case marking to be assigned at the level of phonological realization.” (Butt 2005:29)

Both Mohanan 1994 and Butt & King 2004 take an approach where morphological processes take place in the lexicon (the “lexicalist” position).

Falk argues against having case in the lexicon in his proposal for an additional architecture projection in LFG for case: “the premise is that *the syntax must be able to specify the Cases that surface in the language*. In any language in which there is an accusative Case, the syntax must be able to specify it. The same is true of ergative Case. This seems to us to be *an uncontroversial assumption.*” (Falk 1997)

Arguments against the (strong) lexicalist position:

Reading list

Chomsky 1970

:Arguments for inflectional morphemes in/out the syntax

:Arguments for derivational morphemes in/out the syntax

As an alternative to “lexicalism,” I adopt Late Insertion of functional items (Halle & Marantz 1993, Marantz 1995, Chomsky 2001) where phonological material is inserted in the morphology to realize bundles of syntactic features. Under this approach the appearance of the oblique must be explained. **This also allows a happy medium between non-uniform paradigm like morpheme class dependence and obligatory appearance (productivity) of ‘oblique.’**

Case feature vs. Postposition

In the next section I will provide arguments from Butt & King (2004) that the oblique is a suffix, while the case postpositions are not.

15. (a) Case postpositions =*ko* can scope over conjoined NPs (Butt & King 2004:174)

yasin=ne [kutt-e or g^hor-e]=ko
 Yassin.M.Sg=Erg dog-M.Sg.Obl and horse-M.Sg.Obl=Acc
 dek^h-a he
 see-Perf.M.Sg be.Pres.3.Sg
 ‘Yassin saw the dog and the horse.’

- (b) The oblique cannot scope over conjoined NPs

*[[kutt or g^hor]-e]=ko
 dog and horse-M.Sg.Obl=Acc

- (c) The oblique cannot scope over conjoined NPs

*[[kutt-a or g^hor]-e]=ko
 dog-M.Sg and horse-M.Sg.Obl=Acc

16. (a) The focus particle³ can intervene between the NP and the case postposition (Butt & King 2004:174)

us=hi=ne kam ki-ya
 Pron.3.Sg=Foc=Erg work.M.Sg.Nom do-Perf.M.Sg
 ‘That one himself/only did (the) work.’

- (b) The focus particle cannot intervene between the NP and the oblique

*kutt-hi-e
 dog-Foc-Obl

Other potential arguments, but no one to cite yet:

¹⁹ The focus clitic has the distribution of an adverb. As such, it has a wider syntactic distribution than the case clitics, although it is always postposed and may not be the last element of a clause. In (i), the focus clitic *hi* is shown attached to a verb.

(i) nadya=ne taf k^hel-a=hi he
 Nadya.F.Sg=Erg cards play-Perf.M.Sg=also be.Pres.3.Sg
 ‘Nadya has only played cards.’

The realization of the oblique is dependant on morphological classes and gender. This is indicative of inflection rather than a functional head (although some functional heads show idiosyncratic realization (need to check Tim's talk and Hayes)).

If the oblique were a functional head then it would select for a syntactic category rather than morphological class.

Summary: the oblique is a suffix, which is realized differently for different noun classes.

It's a suffix, but is it a feature or a functional head?

A structural case that is assigned by P°

Proposal: the oblique is a case marker. The oblique is obligatory and uniform, its morphological realization is conditioned by the noun's class. This is no different from the accusative in English (which is found only on pronouns) and cases in German (which appear differently on masculine, feminine and neuter nouns).

The framework I adopt:

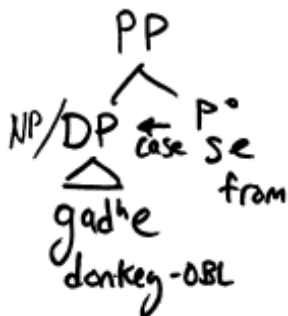
Case assignment: Pesetsky & Torrego 2001, Frampton & Gutman 2002

Feature spreading: Vuchic 1993, Frampton & Gutmann 2006, Kratzer 2006

Morphological realization: Marantz 1997, **Legate to appear**

I assume that the abstract case is assigned by a postposition to its DP complement (Pesetsky & Torrego 2001, Frampton & Gutman 2002).

17. Case assignment⁴



The morphology receives the bundles of features and realizes the bundles as faithfully as possible given the resources of the lexicon (Marantz 1997, **Legate to appear**).

18. Spell out

⁴ There is no evidence of a D° in Urdu, I leave open the option of a DP or an NP for the examples in this paper.

N°
 $[+ \text{masc}]$
 $[+ \text{sg}]$
 $[+ \text{case}]$
 DONKEY \Rightarrow gadhe

Like case in many languages (German for example), the oblique appears multiply on all elements of the DP which have an oblique form.⁵

19. us bare gadhe se le lo
 that.OBL big-OBL donkey-OBL from take-SUBJ take-2nd.sg
 ‘Take it from that big donkey.’
20. Nimm den Schemel für diesen großen
 take-2sg.imper def-OBL stool.OBL for that-OBL big-OBL
 grauen alten unbehaarten ruhigen
 grey-OBL old-OBL un-?-hair-OBL quiet-OBL
 sitzenden Elefanten dieses Mannes
 sit-?-OBL elephant-OBL that-GEN man-GEN
 ‘Take the stool for this big grey old quiet hairless sitting elephant of the man.’

This structural case can be realized on pronouns, adjectives, nouns (in), the genitive postposition, postpositions (in), gerunds (in and), these are the same grammatical categories as in German ().⁶

21. [dabbe ke nice tak]
 box-OBL=GEN-OBL under-OBL until
 ‘up to the underneath of the box.’
22. [raam ke baiThne par] mãã-ne
 raam=GEN-OBL sit-NONFIN-OBL=ON mother=ERG
 us=ko khaanaa diyaa
 3sg.OBL=DAT food give-PERF
 ‘When Ram sat down, mother gave him food’ (Mohanani 1994:78)
23. [Lataa-ji-ke ye gaanaa gaa-ye ho-ne] se (Bhatt 2005:765)

⁵ I expect feature sharing to happen whenever there is a modifier, modifiee relationship (predicate modification, rather than functional application)

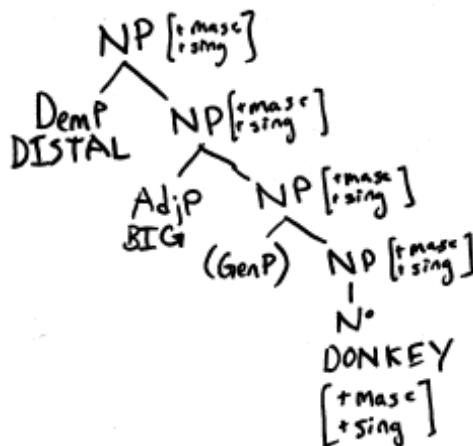
⁶ If we think that the -en on participles is the same thing..

[Ashaa-ji-kaa yeh gaanaa gaa-yaa ho-naa]
 Ashaa-Hon-Gen this song sing-Pfv be-Inf
 [Lataa-ji-ke yeh gaanaa gaa-ye
 Lataa-Hon-Gen.Obl this song sing-Pfv.Obl
 ho-ne]-se zyaadaa mumkin hai
 be-Inf.Obl-Instr more possible be.Prs.3Sg
 'Ashaa-ji's having sung this song is more likely than Lataa-ji's
 having sung this song.'

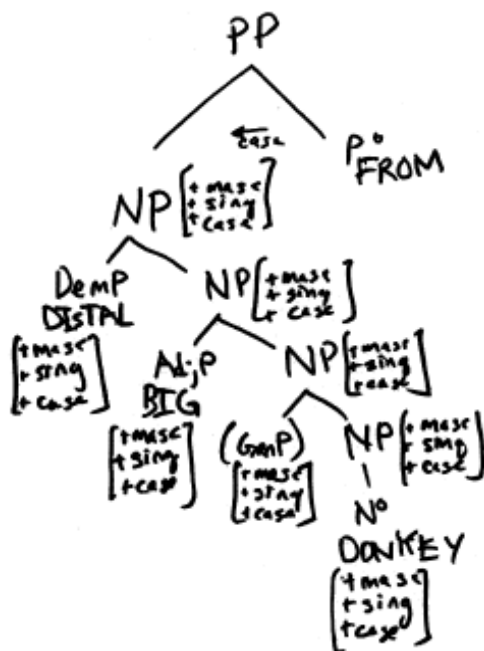
It is clear that the case and gender features are shared within the projection. One way to accomplish this feature sharing is through feature spreading (Vuchic 1993, Frampton & Gutman 2006, Kratzer 2006). This must be accomplished in a two-step process.

It is commonly assumed that the projecting sister projects its features to the mother node. As the possessor (GenP) is optional I assume it is adjoined to the NP, the same is true of the AdjectiveP. Cinque 2005 considers the DemonstrativeP is also adjoined. As all elements are adjoined the features of donkey are projected.

24. The features of the noun are projected/percolated through merger (Frampton & Gutman 2006)



25. The case feature of the complement must be spread down to all elements in the DP/NP (might be controversial, need to read more literature)



Finally, the feature bundles are spelled out as words using the lexical item which matches the most of the features. In this case, the demonstrative *us* 'that' isn't specified for masculine or feminine, as there is no competing demonstrative, it is inserted. The adjective *bare* 'big' and the noun *gadhe* 'donkey' are not specified for singular or plural, as there are no competing forms for singulars these are inserted.

26. Lexical Insertion



The oblique is obligatory

So far I have shown only masculine examples where the oblique is seen overtly. In the next section I will show that the oblique is regular and required, its appearance on some words and not on others is due to its morphological availability for certain words and not others.

In order to prove that the oblique is obligatory in the examples below, I will use a demonstrative, which show overtly the 4 way distinction in number and direct/oblique marking, and an adjective which show the 2 way distinction in gender marking.

27. Hindi/Urdu demonstratives

	Singular		Plural	
	Direct	Oblique	Direct	Oblique
Proximate	ye	is	ye	in
Distal	vo	us	vo	un

28. Hindi/Urdu adjectives

	Singular		Plural		
	Direct	Oblique	Direct	Oblique	
Masculine	bara	bare	bare	bare	<i>‘big’</i>
Feminine	bari	bari	bari	bari	

The morphology spells out each of these feature bundles given the resources available. If the morphology is given a masculine noun which has a lexical entry which realizes the oblique feature, the noun will surface in the oblique form, as the adjective *bare* ‘big’ does in (). If the masculine noun does not have an oblique form, the noun will surface as the default form, as the noun *mez* ‘table’ does in ().

29. Masculine oblique surfaces as the direct form if there is no oblique

(a)[wo	bara	mez]	gir	reha	hε
that.DIR	big-MSG.DIR	table.MSG.DIR	fall	IMPERF-M	PRES-3SG
<i>‘That big table is falling.’</i>					
(b)[us	bare	mez	se]	le	lo
that.OBL	big-OBL.DIR	table.MSG.OBL	from	take-SUBJ	take-2 nd .sg
<i>‘Take it from that big table.’</i>					

If the morphology is given a feminine noun with an oblique feature, it will surface the default feminine form since feminine nouns do not have a lexical entry for the oblique.

30. Feminine oblique surfaces as the direct form if there is no oblique

(a)[wo	bari	kitaab]	gir	rehi	hε
that.DIR	big-FSG.DIR	book.FSG.DIR	fall	IMPERF-F	PRES-3SG
<i>‘That big book is falling.’</i>					
(b)[us	bari	kitaab	se]	le	lo
that.OBL	big-FSG.OBL	book.FSG.OBL	from	take-SUBJ	take-2 nd .sg
<i>‘Take it from that big book.’</i>					

31. Spell out for feminine nouns



Thus the appearance and non-appearance of the oblique case does not stop it from being a regular case if one accepts Legate's (to appear) proposal that abstract case is different from overt morphological case. This shouldn't come as a surprise, we assume that "John" is marked accusative in the sentence "I see john," even though there is no way of realizing accusative on John. We know that the accusative is there because when you replace John with a pronoun, the pronoun must be accusative "him" not the nominative "he."

32. English abstract case is also realized differently on different words:

Compare John/John and he/him.

- | | | |
|----|-----------|-------|
| a) | John sees | Bill. |
| | NOM | ACC |
| b) | I see | John. |
| | NOM | ACC |
| c) | I see | him. |
| | NOM | ACC |
| d) | *I see | he. |
| | NOM | NOM |

Ramifications of a structural case

If postpositions in Hindi/Urdu are assigning/checking a case, then they must be functional heads in the syntax.

This is only compatible with an analysis of the case postpositions as something equivalent to a PP or a KP⁷. This can be argued for independently on the grounds that Hindi/Urdu postpositions have regular semantics, and introduce only one type of theta role (Butt & King 2004).

This provides a further argument that the case postpositions are certainly not realizations of "structural" case. Structural case is thought of a syntactic case feature, but a syntactic feature can't assign another case.

⁷ Or maybe a DP (Bleam 2005)

If case postpositions in Hindi/Urdu are functional heads in the syntax, this explains why passivization and argument raising retains the postposition, if we consider that passives are transformationally derived from actives. The highest maximal projection is the PP, so that must be raised, postposition and all.

Look into the “to him” for English passives and compare the two passive and active sentences.

The ergative postposition is different from the others, as the pronouns are in the direct not the oblique form. I make no claims about the ergative.

33. The oblique forms of pronouns (Butt & King 2004:172)

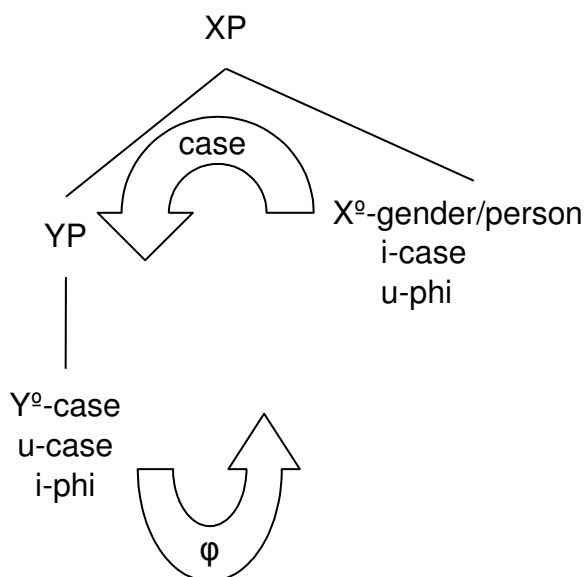
	NOM	ERG	ACC/DAT	INST	LOC	GEN
1. Sg	mē	mē=ne	muj ^h =ko muj ^h e	muj ^h =se	muj ^h =par	mer-a/i/e
1. Pl	ham	ham=ne	ham=ko hame	ham=se	ham=par	hamar-a/i/e
2. Disresp.	tu	tu=ne	tuj ^h =ko tuj ^h e	tuj ^h =se	tuj ^h =par	ter-a/i/e
2. Familiar	tum	tum=ne	tum=ko tumhe	tum=se	tum=par	tumhar-a/i/e
2. Resp.	ap	ap=ne	ap=ko	ap=se	ap=par	ap=k-a/i/e
3. Prox.Sg	ye	is=ne	is=ko ise	is=se	is=par	is=k-a/i/e
3. Prox.Pl	ye	in=ne inhō=ne	in=ko inhō=ko ine	in=se inhō=se	in=par inhō=par	in=k-a/i/e inhō=k-a/i/e
3. Dist.Sg	vo	us=ne	us=ko use	us=se	us=par	us=k-a/i/e
3. Dist.Pl	vo	un=ne unhō=ne	un=ko unhō=ko unhē	un=se unhō=se	un=par unhō=par	un=k-a/i/e unhō=k-a/i/e

In this paper I have shown that it is possible to formalize the distribution of the oblique noun forms using a syntactic analysis. The formalization of the oblique in the syntax should be useful in analyzing the problematic Hindi/Urdu case and agreement.

In this section I will briefly outline areas where the case and agreement of Hindi/Urdu is claimed to behave differently from the crosslinguistic typology.

Mahajan 1990, Bhatt 2005: Case and agreement can't be two sides of a coin.

34. Case and agreement are ideally two sides of a coin, the head probes for interpretable ϕ -features to check its uninterpretable ϕ -feature, in turn, the YP has uninterpretable case features are checked by the interpretable θ -role (Chomsky 1995). Alternatively, the functional head assigns abstract case features to its complement, and the complement shares its ϕ -features with the functional head. ('Crash Proof Syntax' Frampton & Gutmann 2006) In either a checking or an assignment approach the features are realized as person/gender agreement on the function head, and as a case marker on the complement.
35. Case and agreement are two sides of one relationship



- Mahajan 1990: Hindi/Urdu verbs never agree with a case marked DPs. If we assume that the verb is assigning case, then the verb should agree with that DP. However, for Mahajan, the postpositions are case markers. If those are postpositions rather than case, then certainly the verb doesn't agree. My proposal derives that they don't agree.

Bhatt 2005: Hindi/Urdu is an exception to Burzio's generalization

36. Accusative Ko is retained in passives (Bhatt 2005:782)

Sita-ko Ram-dwaaraa dā:ṭ-aa ga-yaa
 Sita-Acc Ram-by scold-Pfv.MSg PASS-Pfv.MSg
 'Sita was scolded by Ram.'

- This is not an exception if -ko is not a structural case.

Bhatt 2005: Hindi/Urdu infinitives license structural case.

37. The complement of an infinitive must be accusative. (Bhatt 2005:782)
- [Sita-ko mujhe/*mĒ piit-ne] di-yaa ga-yaa
 Sita-Dat me.Acc/I.Nom hit-Inf.Obl give-Pfv.MSg Pass-Pfv.MSg
 ‘Sita was allowed to hit me.’ (=‘Someone let Sita hit me.’)
- This is not an exception if –ko is not a structural case.

Legate 2007: Hindi/Urdu has “aggressive agreement”

- Little v will agree the subject, but if it finds no eligible DP, it will search down and agree with the object

“I propose that the pattern of agreement found in Hindi is similar in essentials to Niuean in that DPs that bear inherent ergative Case do not trigger agreement. Where the languages differ is this:

“in Hindi, after the inherent Case-marked DP fails to trigger agreement, T continues to search down the tree for a DP that may trigger agreement, i.e. a DP with structural Case. In (37c), T finds the accusative object, which then triggers subject agreement, even though it has no other relationship with T. I refer to this as aggressive agreement.³¹

“(Legate p17) “Evidence for aggressive agreement comes from two sources. First, we find that (pseudo)-incorporated nominals trigger agreement in Hindi, even though such DPs crosslinguistically lack Case. (See for example, Baker (1988) on the lack of Case on incorporated nouns and Massam (2001) on the lack of Case on pseudo-incorporated NPs.) Thus, these DPs trigger agreement without bearing nominative Case or raising to [spec, T], simply based on closest c-command.” (Legate p17)

- This is not the only place where Hindi shows object agreement, object agreement is only in gender, never in person, where as subject agreement is both gender and/or person. This requires a look into the morphological realization and syntactic relationships behind agreement in Hindi/Urdu.

For the future

The realization of agreement in Hindi/Urdu appears to be systematic, object agreement is in gender, never person. Subject agreement may be either gender or person depending on the verb. Lexical verbs show gender, light verbs show person. This agreement pattern might indicate a systematic difference either in the agreement relations between lexical verbs and light verbs, or more simply, a difference in morphological availability between lexical verbs and light verbs.

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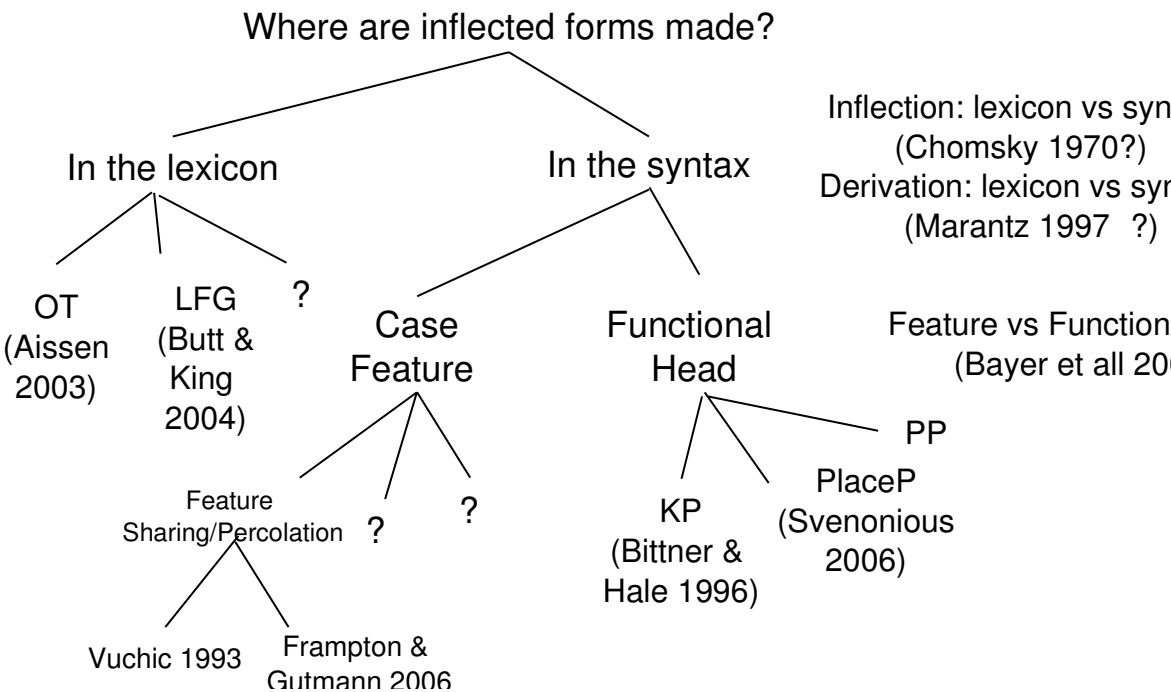
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Appendix

A family tree of Hypothesis B

The Family Tree of Hypothesis B



Two kinds of abstract case features, structural and inherent, not really relevant

Inherent case is an idiosyncratic case which depends on the lexical item which assigns the case.

If different postpositions assigned different case on a par with the oblique then it would be worthwhile investigating whether the oblique is inherent. German postpositions assign different cases, the postposition *für* ‘for’ assigns/checks accusative, while *von* ‘from’ assigns/checks dative.

However, in Urdu all postpositions assign/check oblique, as all members of a syntactic category assign/check the same case, it seems non-sensical to entertain that that case is inherent; ie an idiosyncratic case which is characteristic of a particular lexical item.

Tests for inherent case come from the verbal domain rather than the PP domain.

One test is whether the case-marked NP/DP retains its case when passivized. What the corresponding action a postposition’s complement would be escapes me. (Ben argues against A-movement as a test since non-A-moved objects lose their structural case in Icelandic passives. Ben says that if the markedness theory of ergative marking were correct, an inherent case would be a case where a co-argument is demoted, but no grammatical function change takes place. In the antipassive the object is demoted to an oblique while the subject remains a subject. Postpositions don’t appear to have co-arguments in Urdu, so this test for inherent case is not possible.)

Since I think that the inherent/structural case is irrelevant this shouldn’t be a problem.

My claim: postpositions are functional heads which participate in event structure, they introduce arguments. In this way they are “semantic case” if anything. They are not “structural” cases, at least not in terms of the assignment/checking of “features”. They must be present as functional heads, in the syntax, because they assign a case (oblique). The oblique itself is a “structural” case in that it is a feature in the syntax, not a head.

What is agreement, can Hindi/Urdu agreement become normal if we consider (following Kratzer 2006) that gender agreement is different?

Butt 1995: there is a great deal semantic and syntactic evidence that nouns like girl in “girl-looking” are incorporated, yet the noun and verb agree.

38. ‘pseudo-incorporated’ nouns show agreement
Anil-ne laṛkiyā: dekh-ī:/ *dekh-aa
Anil-Erg girls.Pl see-Pfv.FPl/ see-Pfv.D
‘Anil saw girls.’
raam-ne lakDii kaaTii
Ram.M-ERG wood.F cut.Perf.Fem
‘Ram did wood-cutting’ (Mohanani 1994:107)

puure din maiN-ne (apne kamre meN) kitaab paRhii
 whole day I-ERG self's room in book.F read.F.sg

'The whole day I read books in my room.' (Dayal 2003:[23])

This agreement has been considered a sign that the noun cannot be pseudo incorporated by Bhatt 2005. Nouns which are incorporated are not case marked and don't show agreement with the verb (Baker 1988, Massam 2001).

- However, the pseudo-incorporated noun and verb agree only in gender. Kratzer 2006 argues that sharing gender features is done under nonrestrictive modification, which is precisely the semantics for pseudo-incorporated nominals. I would like to argue that agreeing in gender is a sign of a modifier rather than an argument. And so this would confirm that they are modifiers, not arguments as has been suspected, the only barrier to this analysis before was that there was still agreement.

Is this structural case only on objects of prepositions?

Legate (to appear) argues that abstract structural accusative case in Hindi which is assigned by v^O is the morphological default, null. This is needed for her analysis reducing absolutive to nominative or default in different languages. This is true in the verbal domain, but given the above data there *does* appear to be an overt realization of abstract structural case, that which is assigned by postpositions to their complements. As this these are postpositions rather than v^O this doesn't challenge Legate's claim, rather Legate is most likely correct in analyzing Hindi/Urdu case and agreement as non-standard in that it lacks a morpheme specific to structural accusative case.

No, there are other obliques that don't have a postposition

Now that we consider that the oblique is a case, we need to find case assigners for its appearance.

Yet, there are obliques which have no obvious postposition to assign case

39. The oblique as a locative (Butt & King 2004:168)⁸

adnan	qakxane	ge-ya
Adnan.M.Sg.Nom	post office.M.Sg.Obl	go-Perf.M.Sg
he		
be.Pres.3.Sg		

'Adnan has gone to the post office.'

⁸ Butt & King discuss another use of the oblique: "The one use of the oblique marking in the modern system in which the original case function has been preserved is the use of the oblique to mark locatives as in (17). The meaning of this locative use is restricted: it can only mean 'to' or 'from', not 'in', 'towards', etc. We thus distinguish between two forms of the oblique morphemes (section 5): one as agreement inflection on the complement of a K head, and one as a locative case marker. (Butt & King 2004:168)

40. The oblique in inalienable possession (Mohanar 1994:178)

is billii-kii / -ke ek hii āāk^b hai.
 this cat-G one only eye-N(F) be-PR
 This cat has only one eye.

is haat^{hi}-kaa / -ke bahut c'oṭaa mastak hai.
 this elephant-G very small forehead-N(M) be-PR
 This elephant has a very small forehead.

41. The oblique (maybe) in an adjunct under the emphatic particle, not m.sg because the gen on the subject is also marked as oblique. What dialect is this?

raam-ke baiṭ^{te} hi māā-ne usko k^aaanaa diyaa.
 Ram-G sit-NF mother-E pron-D food-N give-PERF
 As soon as Ram sat down, mother gave him food.

Davison 2004:202

maiN yah baat pahlee hii samajh-aa
 I-nom this matter first only understand-pf
 [ki raakeeš apnii zid-par dṛh hai]
 that Rakesh self's obstinacy-on fixed is

'I understood from the first that Rakesh had become fixed on his own obstinacy.' (Ibid.)

42. The oblique under allow (Bhatt 2005 :778)

[Sarosh-ko gaaRii chalaane] di-i
 Nadia-ne [Sarosh-ko gaarii chalaane] di-i
 Nadia-Erg Sarosh-Acc car.F drive-Ger.Obl let-Pfv.FSg
 'Nadia let Sarosh drive the car.'

[peR kaT-ne] di-ye (Bhatt 2005:795)
 Nadia-ne [peṛ kaṭ-ne] di-ye
 Nadia-Erg trees cut_{Intr}-Inf.Obl let-Pfv.Pl
 'Nadia let the trees get cut.'

43. In a conditional (collected from a web forum)

Agr mere pice kutta bhonkne laga
 if 1st-GEN-OBL behind-OBL dog bark-NONFIN-OBL start-M.SG
 to main zurud bhag jaoongi
 then 1sg certainly run go-1sg=FUT
 'If a dog started barking after me then I would certainly run.'

raam-ne caahaa siitaa ko dekhnaa
 Ram-erg wanted Sita to see

Like multiple obliques with in a DP, the oblique can appear on conjoined verbs

44. Multiple marking on conjuncts (collected in a web forum)

main aap ko

1.sg 2sg.FORMAL=DAT

danda dhondne

ya phir

jota oTarne

stick look.for-NONFIN-OBL or even

shoe take.off-NONFIN-OBL

duun gaa kya?

Allow-1.SG FUT Q

It is a structural case, but is it a structural case assigned what. What unifies postpositions, locatives, inalienable possessives, permissives and focus?

An existential operator...?

-e on arguments of verby heads

“The subjects of eligible transitive verbs were marked as oblique” (Butt & King 2004)

(19)

jihi	rac-e	suraga	bhu
who.Obl	create-Perf.M.Pl	heaven.M.Nom	earth.Nom
satta	pātāla		
seven.Nom	hell.M.Nom		

‘Who made heaven, earth, the seven hells.’ [Old Hindi]

[He who created heaven, earth and the seven hells.]

(Chand, Prithiraja-Rasau i.11; Beames 1872: 267)

No –e

Kidwai 2000:165

ram-ne _i	mohanj-ko	əpni _{i/j}	kitab	lɔʈa	di
Ram(SU)	Mohan(IO)	self's	book(DO)	return	gave

‘Ram_i returned Mohan_j self’s_{i/j} book.’

Masculine nouns

Sona, sone gold Butt& King 2004:164

Shukla 2001:6

Masculine:

देवता	dēvtā	‘god’
राजा	rājā	‘king’
पानी	pānī	‘water’
पेड़	pēṛ	‘tree’

Feminine:

स्त्री	strī	‘woman’
रानी	rānī	‘queen,’
हवा	havā	‘wind’
नदी	nadī	‘river’

3rd singular –e

Butt& King 2004:165

us=se cal-a nahī ja-e-g-a
Pron=Inst walk-Perf.M.Sg not go-3-Fut-M.Sg

‘She/he can’t possibly walk.’ (in the context of a broken leg)
(Glassman 1976: 275)

Kidwai 2000:43

ram-to ayega, or koi aye-na-aye
Ram-TOP will come else any come-not-come
‘RAM will come, whether anybody else comes or not.’

Participles (with varying gender)\

Participles (this is not oblique as it it should become –i with a fem subject)
(Mohanani 1994:182)

śrīkṛṣṇ-kaa [____ muskuraate hue] janm huaa.
Sri Krishna-G smile-NF be-NF birth-N happen-PERF
Sri Krishna i was born, ____ i smiling.

Can this be in the oblique, us aurat instead of voh aurat

Left dislocated topics in Hindi bear ABS (Dwivedi 1994)⁶

⁶As illustrated in Mohanani 1994, hanging topics may also agree in case with the related clause-internal DP.

Voh aurat, john us-se dilo jaanse pyaar kartaa he
that woman.ABS John her-INSTR whole-heartedly love do be
“John is madly in love with that woman” (Chandra 2004)

Plural –e

45. (Bhatt 2005:787)

Anil-ne laṛke dekh-e/ *dekh-aa
Anil-Erg boys.M see-Pfv.MPl/ see-Pfv.D
‘Anil saw boys.’

Anil-ne laṛkiyā: dekh-ī:/ *dekh-aa
Anil-Erg girls.Pl see-Pfv.FPl/ see-Pfv.D
‘Anil saw girls.’

46. Is that certainly plural in this example? (Bhatt 2005:796)

kapre_i [t_i aaj-tak ban
clothes.MPl today-by make_{Inv}
jaa-ne/*jaa-naa] chaahiye
GO-Inf.MPl/GO-Inf.MSg should
the/*thaa
be.Pst.MPl/*be.Pst.MSg
‘The clothes should have been made by today.’

Forms of se – sa, si, se?

(Butt & King 2004:170)

The instrumental *se* may either be connected with Sanskrit *sam* 'with' or with the locative singular noun *sañge* 'in attachment to' (Kellogg 1893: 132). The genitive arose out of a participial form of 'do' (fn. 11), and the

47. Kon saa (Mahajan 1990:40)

raam-ne kOn saa aadmii siitaa se kahaa[_{CP} (ki) t
Ram(SUB) which man(EDO) Sita to told (that)
aayaa thaa]
come-perf-m be-pst-m
lit. Which man did Ram tell Sita had come.

48. Kon sii (Mahajan 1990:

(29) [kOn sii daasii, raajaa-ne uske, pitaa-ko [t_{SUB} t_{IO} t_{DO}
which maid(DO) king(SUB) her father(IO)
lOTaa dii]]
return give-pst-f
Which maid_i did the king return to her_i father?

49. Kon sii (Mahajan 1990 :117)

apnii kOn sii kitaab raam-ne phenk dii ?
self's which book Ram-erg. threw away
Which of self's book did Ram throw away?

Adverbs (might show acc like in quechua)

50. Dhire dhiire 'slowly' (Mahajan 1990:123)

kis-ne dhiire dhiire kaam kiya
who slowly work did
Who worked slowly?

51. Kese (mahajan 1990)

raam-ne kyaa kahaa thaa ki mohan-ne kis-ko kEse maaraa
Ram-erg KYAA said Mohan whom how hit
How did Ram say that Mohan hit who - ?

raam-ne kyaa kahaa thaa ki mohan-ne kab kis-ko kEse
Ram-erg KYAA said Mohan-erg when whom how
maaraa
hit
How did Ram say that Mohan hit whom when?

52. phir se (bhatt 2005:766)

Rohan-ne aaj [phir-se mehnat kar-nii] chaah-ii
 Rohan-Erg today again hardwork.F do-Inf.F want-Pfv.FSg
 'Today Rohan wanted to work hard again.'

53. Jaldii jaldii/jaldii se 'quickly'

54. baRi caturtaa se 'cleverly'

55. kitne 'how many'

kitne ran se₁ [raam-ne puchaa [t₁ [kOn sii Tiim ko₂
 [raam soctaa hE ki [t₁' [t₂' [hamaarii Tiim t₁" t₂"
 haraayegii]]]]]]]

Vaalaa,vaalii,vaale

56. In a possessive (Mahajan 1990:37)

[apnii₁ raam₁ vaalii kitaab]_k mE-ne₁ t'_k use₁ t_k

self's Ram's book (DO) I (SUB) him(IO)

dii

give-perf-f

lit. My Ram's book, I gave to him.