A Declarative Perspective on Agreement and Government

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These are the slides I used for the talk; some of the data presented may require further checking for accuracy.

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Introduction and Overview

Information-Based Syntax Introduction and Overview Forward and Backward Raising and Control Declarative syntactic frameworks - here HPSG, LFG - are Dependent First" in Northern Causasian information-based. Why? - Because there are dependencies within a Tsez: Forward Raising, Backward Control structure which have to be accounted for. Take the case of a Adyghe: Forward and Backward Raising wh-dependency: (1) a. What did you buy? Information-Based Svntax *What did you buy [the book]? b. A Brief History The fact that what is the object of buy is encoded by a flow of ۲ information ("upward" or "downward", depending on the approach). As Subsumption buy has all of the relevant information that it has an object in (1)a, it is Asymmetric Information Flow not possible to also express the object as in (1)b. Sorting Out Case The notion that the properties of an argument are informationally present but not "physically" present is central to my main point(s) here. Sells (York) Cambridge 02/09/11 3/57 Sells (York) Cambridge 02/09/11

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Forward and Backward Raising and Control Dependent First" in Northern Causasian

Tsez: Forward Raising, Backward Control

Adyghe: Forward and Backward Raising

Introduction and Overview

Introduction and Overview

Declarative Frameworks

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Information Flow

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Conclusion

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Information-Based Svntax

Asymmetric Information Flow

Introduction and Overview

Transformational Accounts, Information, Features

- In GB: things happen and this communicates information around (by carrying it along).
- Features have two functions in MP: they make things happen, and they express grammatical (and maybe 'interpretable') information.
- In early MP: things are caused to happen and this communicates information around.
- In latter-day MP: there are certain kinds of communication due to Agree, but then things happen (due to EPP or Edge Features).
- Agree is typically about Feature Valuation. This looks like unification (Miyagawa 2010).



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Introduction and Overview

Information in Syntax

- Q: Why not use unification then? (See also Asudeh and Toivonen 2006.)
- A: Because there is nowhere to keep the information.
- Structure itself is not information-based. In transformational models, the structure IS the information (more precisely, some of the information). The only way to get at all of the information would be to create a description of the whole structure, which is
- Some of the information in MP has to disappear, in order to record that something happened.
- In LFG, all of the (relevant) information is in f-structure, independent of the phrase structure. In HPSG, the entire syntactic description is all one feature structure.

Introduction and Overview

Control and Raising (in LFG)

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COMPLETENESS: with regard to argument GFs like SUBJ, every thematic position – both in control, the lower one in raising – must have a PRED value, to express the semantic content of the argument.

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Introduction and Overview

Information Flow

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Blevins (2011):

A comparison with transformational accounts provides an instructive perspective. Transformational accounts incorporate two independent assumptions: first, that information is propagated "upwards" in a syntactic representation, and second, that this propagation is achieved through constituent-structure displacement. Accounts that substitute structure-sharing for "NP movement" revise both of these assumptions. However, a feature-based model can also express an asymmetrical dependency

Introduction and Overview

Forward/Backward Constructions

On the basis of this structure-sharing, such approaches would seem like prime candidates for extensions to insightful accounts of backward control and raising, phenomena that Polinsky and Potsdam (2002, 2006, 2011) have documented in detail. The structures corresponding to 'forward' and 'backward' are shown in (4), where Δ_i marks an empty subject position (following the notation of P&P).

- (4) a. Kim_i seems [Δ_i to be singing]. (forward)
 - b. Δ_i seems [Kim_i to be singing]. (backward)

Structure Sharing

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The LFG/HPSG analysis effectively foreshadows the more recent Minimalist-style analyses in which movement leaves a copy (a trace is an unpronounced copy – see Chomsky 1995), and in which control as well as raising is analyzed via movement (e.g., Hornstein 1999, Polinsky and Potsdam 2002, Hornstein and Polinsky 2010). Strictly speaking there may be differences, depending on whether movement creates literal copies (giving type- but not token-identity, see e.g., Asudeh 2005), or whether the same item is continuous 're-merged', as in Fox and Pesetsky (2005).

Controlling Forward/Backward

Introduction and Overview

- In the LFG analysis, e.g., Bresnan (1982b), the fact that control and raising are 'forward' in English is because the structure-sharing lexical forms select for a VP complement, which has no place for a 'downstairs' subject position.
- We will see that Backward Raising can have an upstairs or downstairs subject, and that Backward Control can be lexically determined.

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Forward and Backward Raising and Control Tsez: Forward Raising, Backward Control

Backward Control

- (7) a. kid_i [t_i ziya b-išr-a] y-oq-si (forward raising) girl.II.ABS [cow.III.ABS III-feed-INF] II-begin-PAST.EVID 'The girl began to feed the cow.'
 - b. Δ_i [kid-bā_i ziya b-išr-a] y-oq-si (backward control) [girl.II-ERG cow.III.ABS III-feed-INF] II-begin-PAST.EVID 'The girl began to feed the cow.'

In (7)a the raised argument passes the usual tests for being non-thematic with respect to the matrix predicate (see (8)), and the verb agrees in noun class with it. The facts in (7)b are more unusual – the matrix verb apparently agrees with the embedded clause ergative subject. This would be the only instance of agreement with an ergative. Polinsky and Potsdam (2002) argue that Δ_i in (7)b represents the thematic subject position of the control verb, and that the verb agrees with this position.

Forward and Backward Raising and Control Tsez: Forward Raising, Backward Control

Evidence for Constituency

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Constituent structure tests also distinguish the two uses (2002, (23)). Only the Absolutive but not the Ergative may scramble with regard to the main clause adverb 'yesterday':

- (9) a. ħuł kid-bā/kid ziya bišr-a yoq-si yesterday girl-ERG/girl.ABS cow.ABS feed-INF begin-PAST.EVID
 - b. *kid-bā ħuł ziya bišr-a yoq-si (control) girl-ERG yesterday cow feed-INF begin-PAST.EVID
 - c. kid ħuł ziya bišr-a yoq-si (raising) girl.ABS yesterday cow feed-INF begin-PAST.EVID 'Yesterday the girl began to feed the cow.'

Forward and Backward Raising and Control Tsez: Forward Raising, Backward Control

Evidence for Control

An inanimate, non-intentional and nonagentive subject is possible only with the raising use, not the control use (2002, (14)):

- (8) a. k^wart'-ā č'ikay yexur-si hammer-ERG glass.ABS break-PAST.EVID 'The hammer broke the glass.'
 - b. #k^wart'-ā č'ikay yexur-a roq-si (control) hammer-ERG glass.ABS break-INF begin-PAST.EVID
 - c. k^wart'a č'ikay yexur-a roq-si (raising) hammer.ABS glass.ABS break-INF begin-PAST.EVID 'The hammer began to break the glass.'

Forward and Backward Raising and Control Tsez: Forward Raising, Backward Control

Evidence for Constituency

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Evidence for a subject in the matrix clause (2002, (38)):

(10) Δ_i nesa nesir_I [irbahin-a_I halma γ -or γ utku (empty) REFL.I.DAT lbrahim.I-ERG friend-DAT house.ABS rod-a] \emptyset -oq-si make-INF I-BEGIN-PAST.EVID 'lbrahim began, for himself, to build a house for his friend.'

A reflexive may only have an antecedent (that is preceding and) in the same clause.

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Forward and Backward Raising and Control Adyghe: Forward and Backward Raising

Adyghe Raising

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Backward raising is illustrated in the Advghe data in (11) (from Polinsky and Potsdam 2006 and Polinsky (p.c.); also Polinsky and Potsdam 2011); here this particular verb 'begin' only has raising uses:

- (11) a. ŝalexe-r [pjəsme-r-g'əs zeč'e-m-jə a-txə-newl bovs-ABS letter-ABS-EMPH all-ERG-CONJ 3ERG-WRITE-INF Ø-fiež'аке-х **3ABS-BEGAN-3ABS.PL** 'The boys began to write the stupid letter all.' (forward raising)
 - b. [ŝalexe-m pjəsme-r-q'ək a-txə-new] zeč'e-r-jə boys-ERG letter-ABS-EMPH 3ERG-WRITE-INF all-ABS-CONJ Ø-fiež'ase-x **3ABS-BEGAN-3ABS.PL** 'The boys began to write the stupid letter all.' (backward raising)

Forward and Backward Raising and Control Adyghe: Forward and Backward Raising



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Forward and Backward Raising and Control Adyghe: Forward and Backward Raising

Adyghe Raising

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- (12) a. $\hat{s}alexe_i$ -r $[\Delta_i p]asme-r-q'as zeč'e-m-ja$ a-tx-new] boys; -ABS [Δ_i letter-ABS-EMPH all-ERG-CONJ 3ERG-WRITE-INF] Ø-fjež'a⊮e-x **3ABS-BEGAN-3ABS.PL** 'The boys began to write the stupid letter all.'
 - Δ_i [ŝalexe_i-m pjəsme-r-g'ə^k a-txə-new] zeč'e-r-jə b. Δ_i [boys_i-ERG letter-ABS-EMPH 3ERG-WRITE-INF] all-ABS-CONJ Ø-fiež'aкe-х **3ABS-BEGAN-3ABS.PL** 'The boys began to write the stupid letter all.'

Declarative Frameworks

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Declarative Frameworks Information-Based Syntax

Agreement and Government

- (13) Predicate-to-argument relations (constraints):
 - a. Agreement

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- b. Subcategorisation, lexically determined syntactic information
- c. Selection, lexically determined semantic information

It's all static. It all looks the same. In the case of agreement, there is no directionality. Good? Bad? (See (14).)

Declarative Frameworks Information-Based Syntax

Morphosyntactic Information

- Declarative theories distinguish the overt form of morphosyntactic features from the information that they express – this is because each item carries its own information, and does not 'get it' from the structure. The syntactic structures of a given language indicate how the lexical information is aggregated.
- A simple study as to where information comes from (Pollard and Sag 1994):
 - (14) a. un homme heureux 'a happy man'
 - b. une femme heureuse 'a happy woman'
 - (15) a. je suis heureux 'l am happy(M).'
 - b. je suis heureuse 'I am happy(F).'

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Declarative Frameworks Information-Based Syntax
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And More?

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- A predicate can control properties of its arguments. It can also control the information flow between arguments*, and whether its argument(s) are overt or not.
- ... where argument* is an argument of the verb or the subject of an embedded clause.

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Je suis heureuse (16) 'PRO' PRED PERS 1 SUBJ SG NUM GEND F PRES TENSE 'be<(^SUBJ)(^XCOMP)>' PRED SUBJ XCOMP 'happy<(↑SUBJ)> PRED Sells (York) Cambridge 02/09/11 28/57

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Declarative Frameworks A Brief History

Head-Driven Phrase Structure Grammar

HPSG-1: Pollard and Sag (1987)

- HPSG structured features;
- Built in a strict version of locality (like the PIC);
- Started to structure information to account for linguistic (im)possibilities (e.g., INDEX and Agr).



Prevent From

- (20) a. Kim prevented Pat [from reading Proust]'
 - b. *Kim prevented Pat [for/to ... reading Proust].
 - c. *Kim prevented Pat [from (to) read Proust].
 - d. *Kim prevented Pat [from the Proust recital].
 - e. Kim spared Pat [from the Proust recital].

Sag (2007)

Declarative Frameworks A Brief History

Head-Driven Phrase Structure Grammar

HPSG-2: Pollard and Sag (1994), Sag, Wasow and Bender (2003)

- More on "feature geometry" and also the typology of syntactic structures.
- Cf. Sag (2007) on "prevent from VP[ger]"

Declarative Frameworks A Brief History

Analysis

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Abeillé, Bonami, Godard, and Tseng (2005, 2006) on weak heads and Van Eynde (2007) on SELECT:

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Subsumption in Linguistic Analyses

- In many languages, the agreement information on a verb subsumes the information on the agreed-with subject; for example, the verb may inflect for person and number, while the subject may be coded for person, number and gender. Shieber (1992) discusses an application of subsumption to coordinations in the complement of English *be*.
- Dalrymple and Kaplan (2000) used subsumption for the analysis of case in coordinate structures.
- Zaenen and Kaplan (2002) proposed an LFG analysis of German Partial VP Fronting using subsumption for the flow of information from the initial topic position to the 'remnant' VP XCOMP position. Zaenen and Kaplan (2003) used subsumption for Stylistic Inversion in French. Fang and Sells (2007) used subsumption for Chinese "VP Copying".
- Blevins (2011) provides a fuller discussion of the linguistic relevance of subsumption, and motivations for its necessity in some analyses.

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Information Flow Subsumption

Subsumption

Zaenen and Kaplan (2002, 2003) proposed to analyse some cases of structure-sharing in terms of the relation of subsumption, rather than equality. They anticipated the need to express restrictions on information flow in the lexical entries of verbs, and what I present here is an extension of their proposals. For subsumption, f_1 subsumes f_2 if the information associated with f_1 is a subset of that associated with f_2 – in other words, f_1 is more general than f_2 . An example from Zaenen and Kaplan (2002) is shown in (22):

(22) Subsumption – the left subsumes (is more general than) the right

$$\begin{bmatrix} A & \begin{bmatrix} C & + \end{bmatrix} \end{bmatrix} \stackrel{\sqsubseteq}{=} \begin{bmatrix} A & \begin{bmatrix} C & + \\ D & - \end{bmatrix} \\ B & E \end{bmatrix}$$

Equality is mutual subsumption.

Information Flow Asymmetric Information Flow

Controlling Information Flow

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 Forward Subsumption: SUBJ ⊑ XCOMP SUBJ: Control: forward only; Raising: forward, or backward.

The matrix subject position contributes to m, the embedded subject position contributes to e. If only the embedded subject position is filled, m does not get a PRED value (at least), and the matrix is INCOMPLETE if its subject is thematic



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Information Flow Asymmetric Information Flow

Controlling Information Flow

 Backward Subsumption: XCOMP SUBJ ⊑ SUBJ: Control: backward only; Raising: backward only.

The matrix subject position contributes to m, the embedded subject position contributes to e. If only the matrix subject position is filled, e does not get a PRED value (at least), and the XCOMP is INCOMPLETE.



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Information Flow Sorting Out Case

Backwards Raising Has Symmetric Information Flow

- In most known cases, Backward Raising allows the subject in either position (e.g., Adyghe, Polinsky and Potsdam 2011; Malagasy, Potsdam 2009; Greek Alexiadou et al. 2010).
- Hence it looks like the information flow is symmetric; in MP terms, either the higher or the lower copy may spell out.
- Nevertheless, case is not shared.

Lexical Specification of the Position of Arguments*

- The fact that predicates can be forward or backward seems to be naturally analyzed within the LFG account of functional control based on equality. For Adyghe raising, we simply propose a solution which allows the matrix subject position in the c-structure to be absent.
- However, Tsez is problematic under this view. In Tsez, the predicate 'begin' is forward if it is raising, and backward if it is control, so there cannot be any general requirement in the c-structure of the language one way or the other as to which subject positions are obligatorily filled or absent. The equality-based account will simply allow either possibility for either type of verb, incorrectly.
- It is clear that the restrictions on forward or backward functional control need to be relativized to particular verb forms – they have to be encoded in the lexical entries of verbs. We can do this with subsumption.

Information Flow Sorting Out Case

Raising and Case

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- The classic arguments about case in raising and control from Icelandic. Quirky subject case is preserved upwards under raising:
- (25) a. Barninu batnaði veikin. the.child.DAT recovered from the.disease.NOM 'The child recovered from the disease.'
 - Barninu virðist hafa batnað veikin.
 the.child.DAT seems have recovered from the.disease.NOM
 'The child seems to have recovered from the disease.'

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Information Flow Sorting Out Case

Control and Case

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Yet quirky case on subjects (in a-b below) is not preserved upwards under control (in c-d below) even though the secondary predicate in d shows that the subject in the embedded clause has genitive case:

- (26) a. Stúlkan beið mín. the.girl.NOM awaited me.GEN 'The girl waited for me.'
 - b. Mín var beðið.
 I.GEN was awaited
 'I was awaited.'
 - c. Ég/*Mín vonast til að verða beðið.
 I.NOM/*GEN hope to COMP be awaited 'I hope to be awaited.'
 - d. Ég vonast til að verða vitjað eins.
 I.NOM hope to COMP be visited alone.GEN 'I hope to be visited alone.'

Information Flow Sorting Out Case

Backward Raising in Adyghe and Case

 (11) b. [ŝalexe-m pjəsme-r-q'əʁ a-txə-new] zeč'e-r-jə boys-ERG letter-ABS-EMPH 3ERG-WRITE-INF all-ABS-CONJ Ø-fjež'aʁe-x 3ABS-BEGAN-3ABS.PL 'The boys began to write the stupid letter all.' Information Flow Sorting Out Case

What is Shared?

- This is the classic argument for movement vs. PRO control: everything is shared in raising; only the INDEX is shared in control. Any analysis of control (movement, information-sharing) which shares anything more than an INDEX seems to run into trouble with case facts.
- But the case facts are actually more complicated (Landau 2008).

Information Flow Sorting Out Case

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The Case Conflict

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(27) PRED 'begin ...' TENSE PAST CASE ABS SUBJ PRED 'all QUANT CASE ABS 'boy' PRED SPEC DEF 3 SUBJ PERS XCOMP NUM Ы CASE ERG (ロ) (部) (目) (日) (日) (の) Sells (York) Cambridge 02/09/11 48 / 57

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Information Flow Sorting Out Case

Asymmetric Flow – Of What?

- The fact that the shared structure actually has two differing cases is a problem for all approaches which assume that what is shared is the total feature structure of the subject.
- Blevins (2011) comments on this as a general issue do we really need to assume that all features are shared in rasising?
- Zaenen and Kaplan (2002) note examples in German where case cannot be shared between two positions, and propose to restrict equality or subsumption by the Restriction Operator of Kaplan and Wedekind (1993).

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Information Flow Sorting Out Case

The Case Conflict



What's To Be Done?

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 We should structure the syntactic information. Quirky case is obviously more "inherent", and does not qualify as structural case – quirky case-marked arguments still have to be "licensed".

Sorting Out Case

Information Flow

PER val NUM val INDEX GEND val CONTENT VAR i PRED val Q-CASE val CASE val

- Information-sharing in syntax: either INDEX (will require PRO for forward control) or CONTENT.
- PRED information is needed for every thematic argument position.

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Summary of Points

 Predicates can control whether their arguments are fully grammatical specified – and null.

Conclusion

- This is actually quite difficult to do, outside of the kind of approach advocated here.
- The right outcome can be accomplished by allowing predicates to specify information flow across their arguments* – by having that information available and using subsumption in some cases to dictate flow.
- Information (features) is not merely agglomerated, but structured, in linguistic representations. (How closely does this structuring correspond to the constituent structure?)

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Conclusion