3 Components of Hindi LDA (10 lb

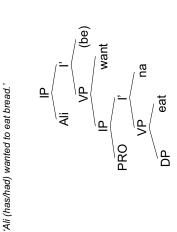
Higher verb: chaahi

chaahi hai/thi

Ali ne [PRO roţi khaani] Al≒ERG bread eat

Lower verb: khaani

DP Object: roţi 'bread'



The goal of this lecture

- Long Distance Agreement has two components
- "agreement" and
- "long distance" i.e. the domain of the agreement
- Previous literature has focused on agreement mechanisms.
- This lecture will focus on the structure of
- A number of phenomena show the same

Long Distance Agreement (LDA) The Structure of Hindi

"The term 'long distance agreement' is a misnomer." Mahajan 1989

Ling415 Advanced Syntax Nov 12 2007 Gina Cook

Long Distance Agreement (LDA)

- 1989, Butt 1995, Boeckx 2004, Bhatt 2005) Hindi Long Distance Agreement (Mahajan
- -The object of the lower verb shares its agreement highest verb.

khaani] chaahi Ali ne [roţi Ali=ERG

'Ali wanted to eat bread.'

Which mapping is Direct? Where we're heading:

Semantic Structure

Surface morphemes



Indirect mapping Direct mapping

Syntactic Structure

Previously Recently

Hindi Long Distance Agreement

Description

Road Map

- Description of Hindi Long Distance Agreement (Boeckx 2004)
- Previous proposals for Agreement Mechanisms and how LDA played a role
- Situating Hindi LDA in the bigger picture
- Description of Hindi clause structure
- Problem of Restructuring verbs like chaahi 'want'
- Problem of Non Finite verbs like khaani 'to eat'

The Road is Long....

- Problem of the perfect, why does the perfective/ergative subjects trigger LDA?
- Problem of the object's interpretation, does the object move or not?
 - Problem of be, when is it required, impossible and optional?
- Problems of data quality, Long Distance Agreement in Hindi and Icelandic are rare and unnatural

_DA doesn't cross a CP boundary

difficult to show in Hindi, instead we turn For (semi)-independent reasons this is to Icelandic

they. Nom read book. the. ACC beir 'It seems to me that they read the book.' (Boeckx 2004) virðist/*virðast [að seem.3sg/*3pl me.DAT

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LDA occurs prior to Displacement

LDA occurs prior to scrambling the object out of the embedded clause:

chaah-y-i vrite-NonFin-Fsg want-Perf-Fsg lik¹-n-i 'LETTERS Ali wanted to write.' chitth-i Ali=ne

Long Distance Agreement Verbs which allow

Crosslinguistically:

be, seem, must, want, try, dare, forget, intend, forbid, recommend, allow, manage, fail

be, want, come (to know)

Want (Mahajan 1989)

chaah-y-i 'Ali has/had wanted to write letters. Ali=ne chitth-i likh-n-i Ali.MSg=ERG letter-Fsg write-NonFin-Fsg

be.NonPast-3sg/be.Past-Fsg

(hai/tʰ-i)

Come (Davison 1981)

Ali=Ko citth-i likh-n-i Ali.MSg=DAT letter-Fsg write-NonFi

come-Perf-Fsg aa-y-i

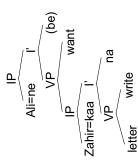
be.NonPast-3sg/be.Past-Fsg

'Ali has/had known how to write letters.'

LDA does not cross an intervening potential goal

Zahir=kaa chitth-i likh-n-i zahir.Msg-Gen letter-Fsg write-NonFin-Fsg want-Peri-Fsg *Ali=ne

'Ali wanted Zahir to write letters.'



Hindi LDA is Optional

1. LDA

Ali=ne chitth-i likh-n-i chaah-y-i

Ali.MSg=ERG letter-Fsg write-NonFin-Fsg want-Perf-Fsg 'Ali wanted to write letters.'

Why is LDA Theoretically Interesting

and Hindi parasitic LDA in particular...

No LDA (Instead Default Agreement)
 Nadya=ne chittⁿ-i likⁿ-n-aa chaah-y-aa

Nadya.FSg=ERG letter-Fsg write-NonFin-Msg want-Perf-Msg

'Nadya wanted to write letters.

Revisions to Agreement in the Syntax

- Spec-head
- French participial agreement
- Agree
- English Long Distance Agreement
- AGREE
- Hindi Long Distance Agreement

Latter on, we'll see that all three have common properties.

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Hindi LDA is "Parasitic" (in some dialects)

Some Hindi dialects require the agreement to present on both verbs, or not at all.

These are referred to as "parasitic" as the higher agreement is described as parasitic on the lower agreement.

Only embedded agreement

*Ali=ne chitth-i likh-n-i chaah-y-aa Ali.MSg=ERG etter-Fsg write-NonFin-Fsg want-Pc

'Ali wanted to write letters.'

These are the dialects which are considered theoretically interesting.

AGREE: Probe + Goal

- removes the Activity Criterion (that the Goal's Bhatt 2005 reformulates Chomsky's Agree, movement to satisfy the EPP, but not for features be active) is needed to trigger agreement.
- Now Goals can agree with multiple probes.

Hindi LDA: multiple probes agree with one goal chaah-y-i want-Perf-Fsg write-NonFin-Fsg 'Ali wanted to write letters.' Ali=ne chitth-i Ali.MSg=ERG letter-Fsg

Situating LDA:

Why is LDA a theory changer?

Clause Size

Other Long Distance Phenomena

Early Syntactic Accounts of Agreement: The Spec-Head Relationship

- French Participial agreement is only possible with displaced objects which proceed the verb.
 - Kayne (1989) argued the objects move through a Spec-Head relationship with the participle in the course of the derivation
 - a. No agreement when the object follows the verb

vu-*e Jean saw the girl.' Kayne (1989) seen-*Fsg has

b. Pronominal Clitics, the object clitic moves over the verb

seen-Fsg 'Jean saw her.' Kayne (1989) her=has

c. Wh-Question, Object moves over the verb

Quelle fille Jean

'Which girl did Jean see.' Kayne (1989)

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1

Agree: Probe + Active Goal

- English Long Distance Agreement shows no sign of movement, so the Spec-Head relationship cannot be maintained
- Chomsky (2000) reformulated agreement to be a feature checking relation between a probe (the verb) and a goal (the object). Each checks the others uninterpretable

English Long Distance Agreement: No movement

seem-Ø/seem-*s There se the boat.

men.pl Expl.3sg seem-3pl/seem-3sg be.inf The Spec-Head phenomena is now captured by two separate procedures

Movement to satisfy the EPP

The Fuzzy Middle

- Even though both (1) and (2) technically contain two verbs, everyone agrees:
- Auxiliaries are Monoclausal
- 1. He is stealing her toys.
- Lexical verbs are Biclausal
- She complains that he steals her toys.
- Specialists on different language families/regions have coined their own term for the monoclausality of the "Fuzzy Middle"
- "One person's complex predicate or compound verb is another person's serial verb, composite predicate, auxiliary construction, or even a control construction." (Butt 2003)

Long Distance Agreement is somewhere in this crosslinguistic "fuzzy middle"

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Some keywords for the Fuzzy Middle

- Serial Verbs
- (Asian, Oceanic, Native American, West African)
- Complex Predication
- (European, Asian, Oceanic, Native American, West African)
- Restructuring
- (Romance, Germanic)
 - Clause Union
- (Germanic, Finno-Ugric)
- Verb Clusters
- Germanic)
 - Light Verbs
- (Indian-Aryan)

Complements

- Typical complements are DPs
- John ate [the bread].
- Some verbs take DPs and PPs
- John put [the bread] [into a basket].
 Other verbs take a Proposition (State of Affairs)
- I complained [that John ate the bread].
- I asked [if John ate the bread].
 - I think [John ate the bread].

Embedded propositions vary by size and properties both crosslinguistically, and within the lexicon of one language.

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The size of English propositional complements

Verbs which appear to take clausal/propositional complements

She complains/murmurs that he steals her toys. She wonders/inquires if he steals her toys.



He is stealing her toys. He has stolen her toys.

The toys were stolen.

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Are all "long distances" the same?

- Roughly, No:
- Agreement, clitic climbing, argument movement crosslinguistically cant go over C°
- Topicalization/Wh-movement and Binding vary crosslinguistically whether they can go over C°

It appears that long distances are relativized to the relation and the Jevel of the grammar where its evaluated.

'Argumental" Long Distance

"Reference Theory" Long Distance

"Operator" Long Distance

Agreement Clitic climbing Argument movement Some Reflexives

Topic/wh-movement/NPIs Some Reflexives/Binding 27

Tests for "Argumental" Long Distance

The tests

- No intervening goal
- No intervening CP boundary
- Relation (still) holds after overt displacement
- When the relation holds the object is specific, non-specific when the relation doesn't hold

The following phenomena produce the same results on the tests we applied earlier to Hindi LDA

- Long Distance Clitic Climbing
- Long Distance A-Movement (argument movement)
 - Long Distance Agreement
- (Long Distance Negative Polarity Item Licensing)
 - (Long Distance Reflexives)

Where is Long Distance **Agreement?**

- If we take all verbs to indicate a clause
- "long distances" are relations over what linguists originally considered to be two clauses.
- -With more crosslinguistic data we see that monoclausality and biclausality which there is a fuzzy middle between needs further elaboration.

"The term 'long distance agreement' is a misnomer." Mahajan 1989

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What constitutes "long distance"?

Long Distances

- Long Distance Agreement
- Long Distance Clitic Climbing
- Long Distance Argument Movement (Amovement)
- Long Distance non Argument movement (Abar movement)
- Long Distance Reflexives
- Long Distance Negative Polarity Item

Long Distance A-Movement

Handy Templates of "Argumental" Long

Distance (to be revised)

Necessary Background:

- A-movement = Movement to an Argument position.
- German embedded "that clauses" show the basic order SOV in embedded clauses

Ali [PRO bread to eat]

SOV

Ali (will) want [PRO to eat bread].

want (wi∰

want

bread

- German Long Passives (Wurmbrand 2004)
- The object of the lower verb becomes the subject of the the highest verb.

[PRO t zu repaireren] versucht wurden lit. 'that the tractor was tried to be repaired.' that the-NOM tractor [t dass der Traktor

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What do they have in common?

- They appear to be situations where the object is moved (overtly or covertly) in front of the verb
- scopes over another operator due to the (overt or covert) This is argued to be result in specificity where the object movement
- Other Phenomena where the object scopes over the
- Icelandic Object Shift
- French Participial agreement
- Specific inanimate case marked indefinites in Spanish

Object scope shows that "argumental" long distances require a more sophisticated understanding of the syntax-semantics interface.

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Long Distance Clitic Climbing

- French Clitic Climbing (Rosen 1989)
- The object clitic of the lower verb "climbs" to be in front of the highest verb.
- 'Jean made Marie go.'
 - entendu 'Jean heard Pierre talk to Marie.'
 - [Pierre [Pierre Pierre entendu entendu Jean heard Pierre talk to her.'
 Jean a ent
 Jean has hes
- The object clitic of the lower verb "climbs" to be in front of the highest verb. Italian Clitic Climbing (Wurmbrand 2004)
 - Anna him wanted-1sg 'Anna wanted to see him.'

General Properties of Hindi Agreement (Kachru 1980)

Argumental Long Distance and Object Shift

Delaying the Commonality:

In order to unify these phenomena we need

to take their semantics into account

Today, we'll build the syntactic structure to

our best abilities using just syntax...

motivate the variation of covert/overt

- typical distances and

"long" distances

operations in their

Then we'll add some semantics to

progressive-Msgbe.NonPast-If the subject is unmarked, the verb agrees with the subject eat rot-i bread-Fsg child-Msg=Erg br 3sg/be.Past-Msg

The/a child is/was eating bread.

In case the subject is marked with a postposition, the verb agrees with the next lower noun phrase that is unmarked (typically the object)

Ali.Msg.Obl=Erg

be.NonPast-3sg/be.Past-Fsg eat-Perf-Fsg bread-Fsg 'Ali has/had eaten bread.' In case there are no unmarked noun phrases in the sentence, the verb is

in the default 3rd person masculine singular form.

რ

called-Perf-Msg bulaa-y-aa Saima.Fsg.Obl=Dat Mira.Fsg.Obl=Erg 3sg/be.Past-Msg

hai/tʰ-aa

Mira has/had called Saima.

Hindi Verbal Agreement Manifestation: [Person,Number] or [Gender,Number]

1. NonPast auxiliary agrees in

khaa =h-ũ

be.NonPast-1sg 'I'll eat bread?'

be.NonPast-2sg khaa =h-o 'Eat bread!' (familiar)

be.NonPast-Pl khaa =h-ẽ 'Eat bread!' (formal)

bananna-Msg eat-Hab-Fsg Past auxiliary agrees in gender Lark-ii kel-aa khaa-t-i tⁿ-i kel-aa khaa-t-i 'The/a girl used to eat banana.' child-Fsg be.Past-Fsg

bananna-Msg eat-Hab-Fsg be. Pastkel-aa khaa-t-i rot-i khaa-t-aa bread-Fsg eat-Hab-Msg child-Msg bread-Fsg eat-Hab-Msg 'The/a boy used to eat bread.' Aspect agrees in gender child-Fsg Fsg Lark-ii

khaa-t-aa

Lark-aa

Progressive agrees in gender 'The/a girl used to eat banana.'
Lark-aa rot-i khaa-t-aa
child-Msg bread-Fsg eat-Hab-Msg child-Msg bread-Fsg eat-Hab-Msg 'The/a boy used to eat bread.' Lark-ii kel-aa

The/a girl is was eating banana. bananna-Msg eat

Building a Syntactic Structure for Hindi LDA

Background:

Hindi Agreement

Hindi Clause Structure

Issues in Clause Structure: Intensional verbs

NonFinite verbs

Hindi Verbal Morphology:

Applicative suffix –(v)aa

Mira used to speak (a lot).'

Mira.Fsg Saima.Fsg.Obl=Dat Mira used to call to Saima.' Saima=ko

be.Past-Fsg

bul-aa-t-i speak-Appl-Perf-Fsg

be.Past-Fsg

speak-Hab-Fsg

Mira.Fsg 'Mira used to watch films.

Saima=ko

Saima.Fsg.Obl=Dat

filam

Mira used to show films to Saima.'

see-Appl-Perf-Fsg film.Fsg

be.Past-Fsg

be.Past-Fsg

dekʰ-t-i see-Hab-Fsg

filam film.Fsg

dek¹-aa-t-i

'Ali had wanted to show films to Hassan.

Hassan=ko filam dekʰ-aa-n-i chaah-y-i tʰ-i Hassan.Msg.Obl=Dat film.Fsg see-Appl-NonFin-Fsg want-Perf-Fsg be.Past-Fsg

AppIP vaa in (b) and (d) goes next to the verb root and adds an additional argument to which the action is directed/applied. AppIP can be inside the naP in (e).

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Review: Long Distance Agreement

The object of the lower verb shares its agreement highest verb.

khaa-n-i] chaah-y-i [rot-i Ali=ne

bread-Fsg Ali=ERG

eat -NonFin-Fsg

want-Perf-Fsg

'Ali wanted to eat bread.'

[rot-i

khaa-n-aa]

eat -NonFin-Msg bread-Fsg

want-Hab-Msg

chaah-t-aa

'Ali wants to eat bread.'

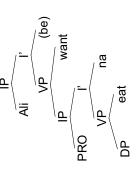
Hindi Clause Structure (revising)

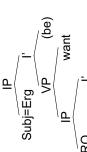
Key Components of Hindi LDA

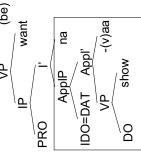
Higher verb: chaahi

'want'

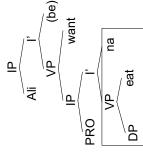
Lower verb: khaani







want (present/past) chaahi hai/thi 'Ali (has/had) wanted to eat bread.' Ali ne [PRO roţi khaani]



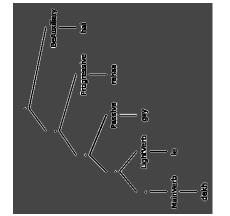
DP Object: roţi 'bread'

be inside the lower IP

Lets find out what can

There's more than morphemes: The verbal complex (Butt 2003)

How do we turn this into an X' representation?



Hindi Verbal Morphology:

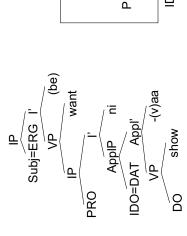
chaah-y-i tʰ-i want-Perf-Fsg be.Past-Fsg bread-Fsg eat-Perf-Nonfin-Fsg want-Perf-Fsg be.Past-Fsg Aspect suffixes Habitual -taa/i/e, Perfect-(y)aa/i/e t^h-i be.Past-Fsg be.Past-Fsg khaa-y-i khaa-n-i eat-Hab-Fsg eat-Perf-Fsg bread-Fsg eat-NonFin-Fsg intended: Ali had wanted to eaten bread. banana-Msg 'Ali had wanted to eat bread.' bread-Fsg 'Mira used to eat bananas.' 'Ali had eaten bread.' Mira.Fsg.Obl=Erg Ali.Msg.Obl=Erg Ali.Msg.Obl=Erg Ali.Msg.Obl=Erg c. *Ali=ne b. Ali=ne

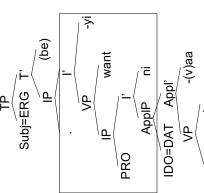
AspP cannot be inside the naP (c), instead it is outside the naP (d).

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Hindi Clause Structure (revising)





The VP internal Structure

Hindi often uses more than one verb/predicate to express what one verb expresses in English... do-Perf-Msg him=Dat

'Ali killed him'

Hindi Light Verbs

Light Verbs Crosslinguistically

be.Past-Msg rah-aa progressive-Msg khaa 'The/a child is/was eating bread.' Inception/Completion Progressive 4

-Take isn't devoid of content either: there is a clear difference between take a

periphrastic causatives with faire/hacer 'make' (V+V)

Romance Light Verbs (Rosen 1989) suru 'do' (N+V constructions)

Hindi Light Verbs (Mohanan 1994, Butt 1995)

complex predicates (N+V) complex predicates (V+V)

thi/aa be.Past-Fsg

thi/aa be.Past-Fsg

be.Past-Fsg t^hi/aa

Japanese Light Verbs (Grimshaw and Mester 1988) give a sigh, a shout, a shiver, a pull, a ring

> ď ω.

take a sneak, a drive, a walk, a plunge

have a rest, a read, a cry, a think

bath and give a bath.

-Take isn't really the verb: one does not actually physically "take" a "plunge" but rather one "plunges"

English Light Verbs (Jespersen 1965, Volume VI:117)

The light verb renders the event bounded, but other subtle modifications such as benefactive readings, forcefulness, suddenness or inception are also possible (Hook 1974, Butt 2003)

numey-eng letter-fsg write give-Per-fsggive-Hab-Nkg 'Ali had written up the/a letter (for someone else). ' (Butt 2003) mar-y-i/mar-t-aa hit-Perf-Esg/hit-Hab-Msg cuk-y-i/?cuk-t-aa li-y-i/le-t-aa take-Perf-Fsg/ take-Hab-Msg 'Ali had written up the/a letter (for his benefit).' (Butt 2003) di-y-i/de-t-aa 'Ali had dashed off a letter (forcefully).' (Butt 2003) 'Ali had finished up writing a letter.' c. Ali=ne d. Ali=ne

Note: Some light verbs have alternating stem forms in the perfect vs. habitual aspects, some light verbs are not compatible with 47 either aspect (the Progressive) or one of the aspects (finish)

Light verbs in LDA

- LDA requires an agent who is capable of volition (ie an agent with thoughts and
- LDA requires that embedded verb have the same subject, thus it must also be volitional
- volition (take, give, hit) but not those which This limits us to the light verbs which allow are non-volitional (get, fall, rise

Hindi Light Verbs

1.NonVolition light verbs (get,fall) can be added Unaccusatives and Inchoatives

pas/pakar/gir a. Saima i/jaa-t-i

gay-

trap/catch/fall Saima.Fsg be.Past-Fsg

(involuntary theme) (Butt 2003) 'Saima got stuck/caught/fallen.'

b. Shishaa

gay-i/jaa-t-i

got-Perf-Fsg/get-Hab-Fsg

Light Verbs as v

- Under one approach, light verbs are instantiations of v (Adger 2003:134)
 - Within the Minimalist Program (MP), v is either
- a functional or
- a lexical category, or
 - a mixture of both
- Light Verbs are both lexical and functional (Butt 2003)
- Semantically structure or modulate the event structure of the main predicator in a distinct manner than auxiliaries, modals and main verbs
 - Form identical with a main verb (Butt & Lahiri 2003)
- Can be distinguished syntactically from auxiliaries and main verbs
- Can be distinguished phonologically from auxiliaries and main verbs
- Monoclausal for Negative Polarity Items, Clitic Climbing, passivization, relativization (Rosen 1989)

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The birth of VP

- semantics side began to see a need to Camps on both the syntax and the put event semantics
- Event semantics:
- 1. Simple Event: x died
- 2. Complex Event: y killed x = y caused + x

Hindi Light Verbs in LDA

Light verbs can go inside the naP (a), and outside the chaahP (b)

take-NonFin-Fsg want-Pref-Fsg chaahi leni ڃٔ a. Ali=ne

chaah li-y-i thi 'Ali had wanted to write up the/a letter (for his benefit).

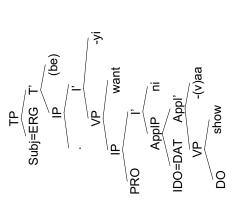
cittʰ-i

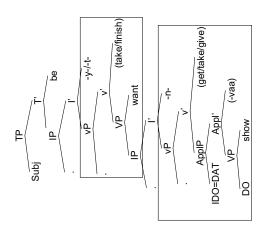
b. Ali=ne

write-NonFin-Fsg

'Ali had wanted (for his own benefit) to write up a letter.'

Hindi Clause Structure





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Early Lexical Representations Containing Event Structure

Early Lexical Representations contain complex event structure which must be linked to syntactic structures via a Linking Theory

Carter 1976:

x CAUSE

[[y BE DARK] CHANGE] BECOME [y dark]]]

[BECOME [y dark]]] Levin & Rappaport 1995, 1998: [x CAUSE [x DO [CAUSE Dowty 1979:

Notice, all have the structure

[inner change of state event]] [Outer causing event

This semantic structure is mapped onto the syntactic

structure by splitting VP

Semantic primitives CAUSE, BE, BECOME, DO[1] (Carter 1976; Dowty 1979; Jackendoff 1987, 1990; Levin and Rappaport 1998; Pustejovsky 1988, 1991, 1995; Croff 1988; Parsons 1990)

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Neo-Davidsonian Event Semantics: severing the arguments from the

verb

Kratzer 1996 shows that it is possible to use Neo-Davidsonian event semantics achieve a compositional semantic

Verbs are one place predicates over

Arguments are thematic relations/two place predicates over events and entities R(e,x)

Fortunately, this is a moot point in Hindi where 'kill' is transparently 'do blood' lot of syntacticians think this is too complicated to be the actual syntax of English 'kill'

do-Perf-Msg Ali=Erg him=Dat blood 'Ali killed him'

Buffy killed Angel. 3. Three predicates:
KILL(e)
AGENT(e,y)
THEME(e,x) 2. English:

4. Semantics: $\exists \, e. [kill(e) \, \& \, Agent(e, \, Buffy) \, \& \, Theme(e, \, Angel)]$

Voice" h <e<4,>>>

VeiceP] = λe. [Agent (e, Buffy) & kill (e) & Thene (e, Angel)] (FN) [Voice] = λy, λe. [Agent (e, y) & kill (e) & Theme (e, Angel)] (El) [bill Angel] =\(\rho\c.\) [bill (c) & Theme (c, Angel)] (FA) [kill] = λx , λe [kill (e) & Thome (e, x)] (TN) [Voice] - Ay. Ac. [Agent (c, y)] (TN) [Angel] = Angel (I'N) Buffy] - Buffy (TN)

Historical Development of Semantic **Decomposition of Events**

Vendler's ontology of events

Vendler 1967

Early (generative semantics) lexical representations containing event decomposition

Carter 1976

Dowty 1979

Neo-Davidsonian Event Semantics

– Kratzer 1996

Vendler's 1967 ontology of conceptual events:

	Temporally bounded/ complete	Progress	Internal structure Duration	Duration
States	No (atelic)	No	No (static)	Yes (Inherently)
Activities	No (atelic)	Yes	Yes (dynamic)	Yes
Accomplishments	Yes (telic)	No	No?	No
Achievements	Yes (telic)	Yes	Yes (dynamic)	Yes

read a book **Activities** SWIE walk be pretty believe States have

Accomplishments make a chair draw a circle

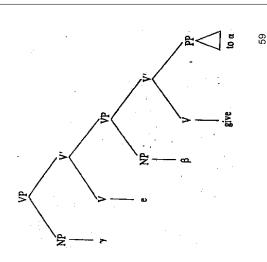
Achievements arrive J

reach

Larsons VP shells 1988

The Double Object Construction John gave the book to Mary

- The agent is generated in (y)
 - The upper verb is empty (e)
- The theme is generated in (β)
- combines with the indirect object (a) The lower verb is (give) which



Historical Development of Syntactic Decomposition of Events

- Lexical Decomposition
- Hale and Keyser 1993
- Larson's VP Shells
- Larson 1988
- Harley's _{Phave} Harley 2002, Richards 2001
- First Phase Syntax: CauseP, ProcessP, ResultP
- Ramchand 2006

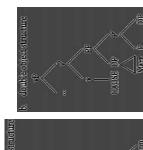
Hale and Keyser 1993

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Harley 2002, 2006

Ditransitives and Double Objects differ in the lower head

- (a) have a P_{locative} head Ditransitives structures
- Double object structures (b) have a P_{have} head

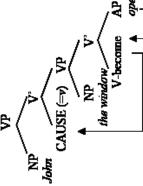


John opened the window.

Linking Theories by having

getting rid of the need for

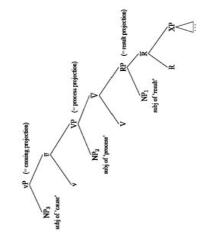
Hale and Keyser 1993 propose



directly reflect the semantic semantic primitives CAUSE present in the syntax, later and BECOME are treated Larson's VP-shell theory. In their syntactic structure the becoming the V heads in as abstract morphemes the syntactic structure event structure.

Ramchand's 2006 3-layered VP

- Cause projection
- cause
- volition
- animacy
- Process projection
 - aspect
- boundedness
- manner
- Result state location
- finished product of the event



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North Australian Light Verbs

- In (13), the coverb denotes the manner, while the light verb supplies the event predication. In (16), the coverb supplies a path and the light verb supplies information about the type of motion on that path. The coverb
 - In (17) denotes a result and the light verb supplies the cause.

Lexicalisations of multiple heads in one lexical item are the result of common conceptual combinations

- Telicity (goal orientedness of action volitional + bounded process + result)
 - Causatives (cause + result)
- ngayin (13) burdurdubba=biya ga-ngga

'It is racing off now that animal.' (Jaminjung, Schultze-Berndt 2002) 3Sg-go.Pres animal(Abs) Dem(Abs)

(16) buru ga-numa-ny

back 3Sg-come-Past

's/he came back' (Jaminjung, Schultze-Berndt 2002)

"They were biting something off." (Jaminjung, Schultze-Berndt 2002) break off 3Pl 3Sg-bite-Impf bur-wa-mg

From Richards 2001 who sites Harley 1995/2002/2004, who adopts a modified Pesetsky 1995, who changed Larson 1988 cant be an idiom, because CAUSE (not BECOME) is part of it... 61 Subject gives birth/chase/rise/way/the lie to X #Subject gives X birth/chase/rise/way/the lie Arguments decomposition in English using Idioms: CAUSE PP (red bubbles indicate the basic examples of each idiom) BECOME PP #X takes/gets birth/the lie cant be an idiom, because HAVE (not LOC) is part of it... reeps/flak/shit/butterflies in ones stomach Subject gives X the boot/the sack/the #Subject gives the boot/flack to X X takes/gets the boot/flak 윱 CAUSE BECOME

The further split VP: Ramchand

A logical combination of the earlier **WOrk:**

- Causatives
- -John killed [Bob (P_{have} dead)]
- Resultatives
- -John painted [the barn Phave red]
- Ditransitives and Double Objects

John gave I her P. the book I

Predicates which take non-finite complements

Want (Long Distance Agreement)

be.NonPast-3sg/be.Past-Fsg want-Perf-Fsg Ali.MSg=ERG letter-Fsgwrite-NonFin-Fsg Ali=ne chiff"-i lik"-n-i

'Ali has/had wanted to write letters.'

Come (Long Distance Agreement)

(hai/tʰ-i) ^#.Fsa be.NonPast-3sg/be.Past-Fsg come-Perf-Fsg aa-y-i Ali=ko citth-i likh-n-i Ai:MSg=DAT letter-Fsgwrite-NonFin-Fsg

'Ali has/had known how to write letters.'

Allow ("The Permissive")

Ali=ne Saima=ko chittʰ-i likʰ-n-e di Ali.MSg=ERG Saima.Fsg=DAT letter-Fsg write-NorFin-Opt 'Ali has/had let Saima write letters.'

Notice: Allow is different from LDA, but in interesting ways...

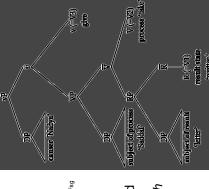
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For next time:

What is this -n- in the lower IP?

- Sure, its nonfinite and its found around the area where Inflection goes...
- But the same element in the "Argumental" Long Distance domain has gotten a lot of names:
- Gerund
- Participle
- Infinitive
- Telic Stem
- Nominalization

Hindi Event Structure (Butt & Ramchand 2003)



Nadya=ne Saddaf=ko ciţţʰ-i likʰ leni di-y-i hadya-Fsg=Eg Sadaf-Fsg=DAT letter-Fsg write take-NonFin-Fsg give-Perf-Fsg 'Nadya let Saddaf write a letter (completely).'

similarities, so far we have considered rather a "restructuring" verb like *chaah* di/de 'give' not to be a light verb, but While there are some geometrical

What is the difference between light verbs and restructuring verbs, and why?

Predicates which take propositional complements in Hindi

- Some are verbs which take CPs
- think, believe, know, feel, agree, hear, speak, tell, see, be.aware, understand

Ali verb <code>[CP]</code> . Hind CPs look like English, which is strange since Hindi is S O V, it should be S CP V .

- Most are nouns-like
- attempt, desire, necessity, beginning, thought Ali=DAT [VP-na] noun is/was
- Some are verb-like
- light verbs: take, give, hit
- verb • Ali [VP]
- restructuring verbs: want, know, allow
- Ali [VP-na] verb (is/was)
 This is where we find the LDA predicates

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