

SYNOPSIS

- ▶ Cold open: the typology of motion macro-event descriptions
- ▶ The syntax of macro-event descriptions
- > The cognitive motivation behind the Macro-event property
- Macro-event synthesis
- Back to motion
- Summary

J

COLD OPEN: THE TYPOLOGY OF MOTION MACRO-EVENT DESCRIPTIONS

- the Macro-event property (MEP)
 - Bohnemeyer (2003); Bohnemeyer et al (2007, 2010);
 Bohnemeyer & Van Valin (2017)
 - the aim: operationalize typologists' intuitions about constructions that describe "single events"

"(...) true SVC structures and covert coordination structures seem to feel different to native speakers. The covert coordination tends to be perceived as a sequence of distinct events, whereas the SVC is perceived as a single event (...)" (Baker 1989: 547; emphasis JB)

"An SVC consists of more than one verb, but the SVC is conceived of as **describing a single** action." (Dixon 2006: 339; emphasis JB)

"Although two or more verbs are present, the sentence is interpreted as referring to a single action rather than a series of related actions. Although the action may involve several different motions there is no possibility of a temporal break between these and they cannot be performed, for example, with different purposes in mind." (Sebba 1987: 112; emphasis JB)

COLD OPEN: THE TYPOLOGY OF MOTION MACRO-EVENT DESCRIPTIONS (CONT.)

- /.
- the proposal (Bohnemeyer 2003; Bohnemeyer et al 2007, 2010; Bohnemeyer & Van Valin 2017)
 - the Macro-event property (MEP)
 - a property of event description constructions
 - that blocks access to subevents for temporal modification

"Macro-event property (MEP): "A construction C that encodes a (Neo-)Davidsonian event description $\exists e.P(e)$ ('There is an event e of type/property P') has the MEP iff C has no constituent C' that describes a proper subevent e' of e such that C' is compatible with time-positional modifiers that locate the runtime of e', but not that of the larger event e." (Bohnemeyer & Van Valin 2017: 147)

the MEP in the motion domain: Bohnemeyer et al (2007)

examples

(1.1)a. No MEP construction; distinct time adverbials fine Floyd left Nijmegen at 11:00am. He passed through Moers at noon and reached Düsseldorf at 12:30pm.

- MEP construction; distinct time adverbials anomalous
 #Floyd went from Nijmegen at 11:00am
 to Düsseldorf at 12:30pm via Moers at noon.
- MEP construction; acceptable: single adverbial denoting interval that encompasses all subevents
 On Wednesday, Floyd went from Nijmegen to Düsseldorf via Moers.

a study of 18 languages from 16 genera based on a production task involving descriptions of animated video clips plus a questionnaire study Departure Arrival Passing Type I: one findings I: Marquesan, Tiriyó 3 types in terms of motion sub-Type II: one or events conflatable expressions. Arrernte, Basque, Hindi, depending on Japanese, Trumai type of passing in a single macro-event Type III: three Jalonke Kilivila Saliba

Figure 1. The three segmentation types (Bohnemeyer et al. 2007: 517)

COLD OPEN: THE TYPOLOGY OF MOTION MACRO-EVENT DESCRIPTIONS (CONT.)

- the MEP in the motion domain: Bohnemeyer et al (2007) (cont.)
 - findings II: type membership is predicted by framing type
 - but the predictive classification is more fine-grained than the S/V distinction
 - Type I: S-framed or serializing

Type I: one macro-event expression

Departure Arrival Passing

Dutch, Ewe, Lao, Marquesan, Tiriyó

Type II: V-framed but 'double-marking'

Type II: one or two macro-event expressions, depending on type of passing event

Type III: 'radical' V-framing Type III: three Jalonke, Kilivila, Saliba, macro-event Tidore, Tzeltal, Yéli Dnye, expressions Yukatek, Zapotee

COLD OPEN: THE TYPOLOGY OF MOTION MACRO-EVENT DESCRIPTIONS (CONT.)

macro-event

expressions

the MEP in the motion domain: Bohnemeyer et al (2007) (cont.)

Type I: S-framed or serializing

description

Type I: one macro-event expression

Departure Arrival Passing

Dutch, Ewe, Lao, Marquesan, Tiriy

(1.2) a. Monoclausal MEP construction, subevent timing barred

Man² lèèn¹ (qòòk⁵) caak⁵ hùan² taam³ thaang² hòòt⁴ kòòn⁴-hiin³.

[3 run exit from house]_{VP} [follow path]_{VP} [reach CL-rock]_{VP}

'He ran (exited) from the house, followed the path, reached the rock.'

b. Multiclausal non-MEP construction, subevent timing fine

Man² nùng¹ moong² lèèn¹ (qòòk⁵) caak⁵ hùan² taam³ thaang²—
[[3 one hour run exit from house]_{VP} [follow path]_{VP}]_S
sòòng³ moong² hòòt⁴ kòòn⁴-hiin³.

[[two hour reach CL-rock]_{VP}]_S
'At one he ran, exited from the house, followed the path, (and) at two he reached the rock.'

Tidore, Tzeltal, Yélî Dnye,

Yukatek, Zanotec

▶ Type II: V-framed, but double-marking

Departure Arrival Passing Type II: one or two macro-event Arrernte, Basque, Hindi, expressions, depending on Japanese, Trumai type of passing

(1.3) a. Monoclausal MEP construction, subevent timing barred **JPN** (Kinoo) ki-no tokoro-kara ie-made it-ta. yesterday tree-GEN place-ABL house-until go-PAST

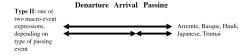
b. Non-MEP converb construction, subevent timing fine

'[One] went from the tree to the house (yesterday).'

(San-ji-ni) ki-no tokoro-o shuppatsu-shi-te, (yo-ji-ni) three-o'clock-DAT tree-GEN place-ACC departure-do-CON four-o'clock-DAT kawa-o watat-te, (go-ji-ni) ie-ni river-ACC cross-CON five-o'clock-DAT house-DAT arrive-PAST 'Leaving the tree (at three), crossing the river (at four), [one] arrived at the house (at five) '

the MEP in the motion domain: Bohnemeyer et al (2007) (cont.)

Type II: V-framed, but double-marking (cont.)



integrating route paths into a macro-event expression is subject to the 'coextensiveness constraint' (Matsumoto 1996: 269)

(1.4) a. Monoclausal MEP construction, route path integration

IPN a. #Jon-wa Bei Burijji-o Paro Aruto-kara Baakurei-ni watat-ta. John-TOP Bay Bridge-ACC Palo Alto-ABL Berkeley-DAT cross-PAST 'John crossed the Bay Bridge from Palo Alto to Berkeley.' (Japanese)

b. Jon-wa Bei Burijji-o San Furanshisuko-kara Ookurando-ni John-TOP Bay Bridge-ACC San Francisco-ABL Oakland-DAT watat-ta. Cross-PAST

'John crossed the Bay Bridge from San Francisco to Oakland.

Figure 2. Bay semantics

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COLD OPEN: THE TYPOLOGY OF MOTION MACRO-EVENT DESCRIPTIONS (CONT.)

the MEP in the motion domain: Bohnemeyer et al (2007) (cont.)

▶ Type III: radical V-framing: no path expression outside the verb root

> Departure Arrival Passing Type III: three macro-event expressions

Jalonke, Kilivila, Saliba, Tidore, Tzeltal, Yélî Dnye, Yukatek, Zapotec

(1.5) Non-MEP construction with explicit temporal sequencing

Ba'l=e', be'òora=a' t-inw=il-ah=e', [thing = TOP] [now = D1] [PRV-A.1 = see-CMP(B.3sG) = TOP] hun-p'éel chan áasul ba'l [one-CL.IN DIM blue thing 'But, now, I saw it, a little blue thing' t-u = xùul le = tu'x h-luk' IMPF-A.3 = await.ACAUS-INC LOC-A.3 = end DEF = where PRV-leave(B.3sg) 'staved at the end where it left'

 $le = chan \ ba'l \ chak = o', \ k-u = bin \ u = balak' = e',$ DEF = DIM thing red(B.3sG) = D2 [IMPF-A.3 = go A.3 = roll = TOP] k-u = ts'o'k-ol = e'. [IMPF-A.3 = end-INC = TOP]

'the little thing that's red, it went rolling, and then'

Figure 3. ECOM E5

COLD OPEN: THE TYPOLOGY OF MOTION MACRO-EVENT DESCRIPTIONS (CONT.)

the MEP in the motion domain: Bohnemeyer et al (2007) (cont.)

▶ Type III: radical V-framing: no path expression outside the verb root

> Departure Arrival Passing Type III: three macro-event expressions

Jalonke, Kilivila, Saliba, Tidore, Tzeltal, Yélî Dnye, Yukatek, Zapotec

(1.5) Non-MEP construction with explicit temporal sequencing

YUC (cont.) k-u=máan y=iknal hun-p'éel chan ba'l chak [IMPF-A.3 = pass A.3 = at one-CL.IN DIM thing red(B.3sG) also = TOP] 'it passes by a little thing that's also red'

k-u = ts'o'k-ol-e'k-u = k'uch-uly = iknal le = triàangulo [IMPF-A.3 = end-INC-TOP] [IMPF-A.3 = arrive-INC A.3 = at DEF = triangle áasul = o.'

blue(B.3sg) = D21

'and then it arrives at the blue27 triangle.'

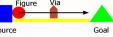


Figure 3. ECOM E5

YUC

- the MEP in the motion domain: Bohnemeyer et al (2007) (cont.)
 - findings III: apparent universal constraints on macro-event expressions
 - the Argument Uniqueness Constraint (AUC)
 - no semantic role assigned more than once per MEP expression
 - Bohnemeyer & Van Valin (2017) restrict this to roles not tied to causally related subevents
 - so one can assign agent/effector twice in an MEP expression
 - as long as one is treated as causer and the other as causee

the MEP in the motion domain: Bohnemeyer et al (2007) (cont.)

- findings III: apparent universal constraints on macro-event expressions (cont.)
 - the Referential Uniqueness Constraint (RUC)
 - multiple references to the same individual/place in the same MEP expression are dispreferred
 - unless they are explicitly flagged (reflexives)
 - the Macro-event Linking Principle
 - the semantic roles assigned by an MEP expression are constrained by the semantic relations
 - the expression entails to hold among the subevents

COLD OPEN: THE TYPOLOGY OF MOTION MACRO-EVENT DESCRIPTIONS (CONT.)

the MEP in the motion domain: Bohnemeyer et al (2007) (cont.)

- findings III: apparent universal constraints on macro-event expressions (cont.)
 - the Unique Vector Constraint (Bohnemeyer 2003)
 - an MEP expression cannot denote more than one direction vector (in spoken languages!)

 $A \longleftarrow F \longrightarrow B$

(1.6) F is moving away from A and toward B

(1.7) F is moving away from A and **then** toward B



Figure 4. An illustration of the UVC: two vector specifications without event segmentation if the vectors are collinear (1.6), but requiring syntactically explicit segmentation if not (1.7)

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THE SYNTAX OF MACRO-EVENT EXPRESSIONS

▶ Bohnemeyer & Van Valin (2017): the Core-MEP Hypothesis

"Core-MEP Hypothesis: Across languages:

- . Single-core constructions necessarily have the MEF
- i. Multi-core constructions have the MEP only in case their cores are in cosubordinate
 - ▶ Illustration I: an MEP construction ('core cosubordination')

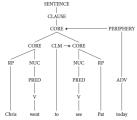


Figure 5. Core cosubordinations have the MEP (Bohnemeyer & Van Valin 2017: 167)

THE SYNTAX OF MACRO-EVENT EXPRESSIONS (CONT.)

Illustration II: a non-MEP construction ('core coordination')

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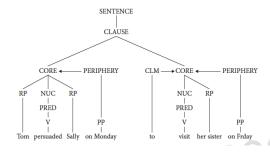
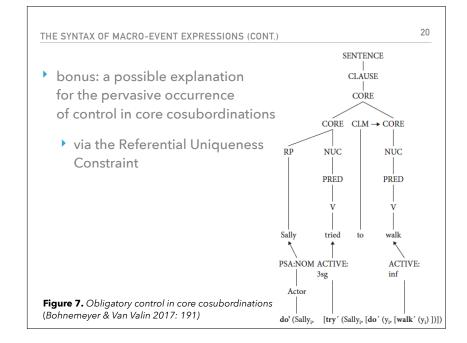


Figure 6. Core coordinations lack the MEP (Bohnemeyer & Van Valin 2017: 159)

THE SYNTAX OF MACRO-EVENT EXPRESSIONS (CONT.)

- Bohnemeyer & Van Valin support this analysis with evidence from
 - English infinitival complement constructions
 - Ewe serial verb constructions
 - Japanese converb constructions



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THE COGNITIVE MOTIVATION BEHIND THE MACRO-EVENT PROPERTY

- as we were working on the later stages of Bohnemeyer & Van Valin (2017)
 - Van drew my attention to the patterns outlined below
- at this point, I had become so used to fending off all attempts at tying the MEP to conceptual "macro-events"
 - that I had lost track of the question what kinds of events actually get described by macro-event expressions
- therefore, I think it appropriate to name the following hypothesis in Van's honor

Van Valin's Conjecture: For a conceptual event representation to be expressible by a macro-event construction, the event representation must have a certain mereological structure: in particular, its subevents must be contiquous or overlapping.

23 THE COGNITIVE MOTIVATION BEHIND THE MACRO-EVENT PROPERTY (CONT.) • the MEP and the Interclausal Relations Hierarchy (IRH) Nuclear-juncture causatives; Closest: Causative [1] facets of a single event or action e.g., resultatives; Phase Manner French faire Motion + MEP causative Position Means Psych-actio Jussive Causative [2] Direct perception Core-juncture Indirect perception Propositional attitude - MFP causatives; Cognition Indirect discourse e.g., English Direct discourse periphrastic Circumstances Reason causative with force Conditional Concessive Simultaneous actions Loosest: Sequential actions Situation-situation: unspecified distinct events or actions Figure 8. The Interclausal Relations Hierarchy (Van Valin 2005: 208) and the MEP

THE COGNITIVE MOTIVATION BEHIND THE MACRO-EVENT PROPERTY (CONT.)

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- ▶ MEP candidate events; Type A
 - matrix refers to a subevent of the complement event or vice versa
- (4.1) a. Sally began to compose her 3rd symphony
 - b. On Tuesday, Sally began to compose a symphony #on Friday
 - c. On Tuesday, Sally began to compose a symphony ??within a week Weird: the onset of the composition event

fell within a weeklong interval starting Tuesday?

Out: S. started the composition event on Tuesday and completed it within a week

- ► MEP candidate events; Type A (cont.)
 - a twist: the Means construction (Bellingham ms.)
- (4.2) Floyd broke the internet on Tuesday
 by posting a picture of his cat on Monday
 - the Means construction specifies the cause of the breaking event in (4.2), which is encoded by *break* itself
 - however, this overlap is arguably not part of the construction meaning
- (4.3) Sally won the lottery by buying all the tickets
- (4.4) Floyd got lost by following his navigation app

- MEP candidate events; Type B
 - matrix and complement events overlap or are necessarily contiguous
- (4.5) a. Floyd sang himself hoarse
 - b. #On Monday, Floyd sang himself hoarse on Tuesday
- (4.6) a. Sally made Floyd switch his voter registration
 - b. #On Monday, Sally made Floyd switch his voter registration on Tuesday
 - c. On Monday, Sally caused Floyd to switch his voter registration on Tuesday
- (4.7) $[\text{make}_{\text{CAUS}}] = \lambda e_1 \cdot \lambda e_2 \cdot \lambda x \cdot \lambda y \cdot \lambda P \cdot \text{AGENT}(e_1)(x) \land \text{PATIENT}(e_1)(y)$ $\land \text{AGENT}(e_2)(y) \land P(e_2) \land \text{CAUSE}(e_2)(e_1) \land \tau(e_2) \subseteq \tau(e_1)$

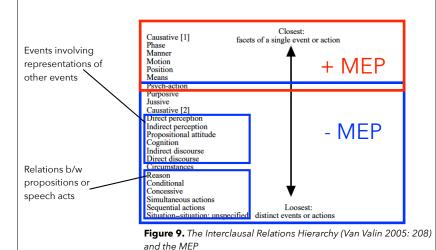
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- MEP candidate events; Type C
 - psych action I: realization dependence agent (fails to)
 effect(s) realization of the complement action
- (4.8) On Monday, Floyd tried to sell his car #on Tuesday
- (4.9) On Monday, Floyd managed to sell his car #on Tuesday
- (4.10) On Monday, Floyd failed to sell his car #on Tuesday
- (4.11) $[try] = \lambda e_1 \cdot \lambda e_2 \cdot \lambda x \cdot \lambda P \cdot AGENT(e_1)(x) \wedge OUTCOME(e_2)(e_1) \wedge P(e_2)$
 - the semantics of OUTCOME would have to be such that it entails
 - ightharpoonup (i) intensionality of $P(e_2)$ and (ii) contiguity b/w e_1 , e_2

THE COGNITIVE MOTIVATION BEHIND THE MACRO-EVENT PROPERTY (CONT.)

- ▶ MEP candidate events; Type C (cont.)
 - psych action II: realization independence agent (?)
 entertains merely a representation of the realization
- (4.12) On Monday, Sally decided to sell her car on Tuesday
- (4.13) On Monday, Sally wanted to sell her car on Tuesday
- (4.14) On Monday, Sally planned to sell her car on Tuesday
 - psych action in the sense of Van Valin (2005) does not appear to be a homogenous class vis-à-vis the MEP

what about non-MEP interclausal relations?



at the edge of the MEP: events containing representations of other events

Table 4.1. Whole lotta representation goin' on

Example	Complement represents	Matrix represents	Realization dependence?	Realization dependence on chicken event?
Sally drew a picture of the chicken crossing the road	Picture	Drawing event	Yes (on the picture)	No
Sally said "The chicken crossed the road"	Utterance	Speech act	Yes	No
Sally said that the chicken had crossed the road	Utterance- content hybrid		Yes	No
Sally thought "The chicken crossed the road"	Internal speech	Thought event	Yes	No
Sally thought that the chicken had crossed the road	Proposition		Yes	No
Sally saw the chicken cross(ing) the road	Event	Perception event	Yes?	No?
Sally saw that the chicken had crossed the road	Proposition	Inference	Yes	No? (But realization is presupposed

THE COGNITIVE MOTIVATION BEHIND THE MACRO-EVENT PROPERTY (CONT.)

• at the edge of the MEP: events containing representations of other events (cont.)

(4.15) Sally saw the magician saw Floyd in half

(4.16) a. On Tuesday, Sally saw the magician saw Floyd in half [?]on Monday

> b. On Tuesday, Sally saw the magician saw Floyd in half on Monday on TV

- ('direct') event perception constructions give the appearance of having the MEP
 - however the perception does not actually entail realization of the stimulus event
 - and the perception is necessarily temporally coextensive, not with the perceived event itself, but merely with its percept

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MACRO-EVENT SYNTHESIS

- ▶ if Van Valin's Conjecture is correct
 - the interclausal relation plays a greater role in determining whether a given event description has the MEP
 - than Bohnemeyer et al (2007, 2010) assumed
- the question then arises
 - whether the MEP can be derived purely from the semantics of the interclausal relation alone
 - or whether the MEP is a construction meaning that is motivated by the interclausal relation
 - but does not follow from it alone

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MACRO-EVENT SYNTHESIS (CONT.)

(5.2) a. On Tuesday, Sally began to compose a symphony. She completed it within a week

b. On Tuesday, Sally began to compose a symphony ??within a week

- it "makes sense" that combining the time frame adverbial with the phase verb leads to strange, unintended interpretations
 - but why does the adverbial not attach to the complement?
 - semantics alone cannot explain this, as shown below
- (5.2) b'. compose a symphony:

 $\lambda e.\exists y.\lambda x.$ compose'(e) & agent'(e)(x) & theme'(e)(y) & symphony'(y) compose a symphony within a week:

 $\lambda e.\exists y.\lambda x.$ compose'(e) & agent'(e)(x) & theme'(e)(y) & symphony'(y) & duration'(e) ≤ 1 week

begin to compose a symphony within a week:

 $\lambda e_1.\lambda e_2.\exists y.\lambda x.$ onset' $(e_1)(e_2)$ & compose' (e_2) & agent' $(e_2)(x)$ & theme' $(e_2)(y)$ & symphony'(y) & duration' $(e_2) \le 1$ week

MACRO-EVENT SYNTHESIS (CONT.)

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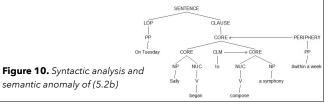
- (5.1)a. No MEP construction; distinct time adverbials fine Floyd left Nijmegen at 11:00am. He passed through Moers at noon and reached Düsseldorf at 12:30pm.
 - b. MEP construction; distinct time adverbials anomalous #Floyd went from Nijmegen at 11:00am to Düsseldorf at 12:30pm via Moers at noon.
 - MEP construction; acceptable: single adverbial denoting interval that encompasses all subevents
 On Wednesday, Floyd went from Nijmegen to Düsseldorf via Moers.
 - in (5.1b), the time adverbials can be argued to be incompatible with the path PPs since these have the wrong semantic type
 - time adverbials combine only with eventive expressions

MACRO-EVENT SYNTHESIS (CONT.)

- (5.2) a. On Tuesday, Sally began to compose a symphony.

 She completed it within a week

 b. On Tuesday, Sally began to compose a symphony "within a week
 - the semantic incompatibility of the time frame adverbial in (5.2b) must be related to the syntactic structure of the sentence
 - RRG postulates that cosubordination involves fusion of the matrix and complement cores
 - resulting in a single superordinate core with a single periphery so all modifiers are shared



MACRO-EVENT SYNTHESIS (CONT.)

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- interim conclusion
 - it does seem that the macro-event property is a construction meaning
 - that is motived by the interclausal relation but is not compositionally derivable from it alone

the semantic effect of the Macro-event property can also be viewed as a cognitive operation
 Talmy (2000: Vol. I: Chapter 1) proposes a typology of the processes used by natural language grammars
 to guide the hearer's attention to the states of affairs under discussion
 Factors governing the distribution of attention over a referent scene

Strength of attention
Pattern of attention
Pattern of attention
(profiling as in Frame Semantic

Window

Synthesis

Exemplarity

Baseline

MACRO-EVENT SYNTHESIS (CONT.)

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- Talmy (p. c.): the Macro-event property operates on the synthesis level
 - synthesis operations involve the bounding or portion excerpting of an entity or entities
 - two 'levels of synthesis': componential and Gestalt

(5.3) Gestalt Componential

a. a cluster of trees b. a drop/puddle of water

the Macro-event property imposes
 a particular temporal Gestalt on the referent scene

MACRO-EVENT SYNTHESIS (CONT.)

Foregrounding/

Backgrounding

Figure 11. Talmy's (2000: Vol. I:

mechanisms and the MEP

76-77) typology of attention direction

MACRO-EVENT SYNTHESIS (CONT.)

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Particularity

- it is characteristic of Gestalt synthesis that it changes affordances/privileges for predication and modification
- (5.4) a. That cluster of trees is small
 - b. The trees in that cluster are small
- (5.5) a. The bricks in the pyramid came crushing together / #in upon itself
 - b. The pyramid of bricks came crushing in upon itself / #together (Talmy 2000: Vol. 1: 78)
- (5.6) a. The cluster of trees had a diameter of 100m
 - b. The trees had a diameter of 100m

MACRO-EVENT SYNTHESIS (CONT.)

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- macro-event synthesis has two effects on temporal modifiers
 - it blocks subevent modifiers
 - ▶ it enables macro-event modifiers
- (5.7)a. Floyd left Nijmegen at 11:00am. He passed through Moers at noon and reached Düsseldorf at 12:30pm
 - b. #Floyd went from Nijmegen at 11:00am to Düsseldorf at 12:30pm via Moers at noon.
- (5.8)a. In 90 minutes, Floyd left Nijmegen. He passed through Moers and reached Düsseldorf
 - b. In 90 minutes, Floyd went from Nijmegen to Düsseldorf via Moers [(5.8a) and (5.8b) are not synonymous]
 - c. Floyd left Nijmegen. He passed through Moers and reached Düsseldorf in 90 minutes [underspecified]

MACRO-EVENT SYNTHESIS (CONT.)

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a working definition

Macro-event synthesis is a cognitive process by which subevent representations are merged into an overarching temporal Gestalt in such a fashion as to make the Gestalt - the macro-event - accessible to temporal modification while rendering the subevents inaccessible to temporal modification.

MACRO-EVENT SYNTHESIS (CONT.)

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- macro-event synthesis is a process that allows compact holistic/global reference to a scene
- by barring the application of this process to interclausal relations that should allow subevent modification
 - languages grammaticalize the distinction
 - between temporally dependent and temporally independent interclausal relations (Noonan 1985)
 - e.g., it is in the "nature" of mental representations that they are temporally independent
 - from their content

(5.9) On Monday, Sally planned to sell her car on Tuesday

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BACK TO MOTION

- at a low level, the typology of motion integration boils down to crosslinguistic differences
 - in how much path information can be incorporated in a single macro-event expression

which in many languages, though not in all,

means in a single clause

Figure 1. The three segmentation types (Bohnemeyer et al. 2007: 517)

BACK TO MOTION (CONT.) 47

- what remains very much an open question is
 - whether these linguistic differences are accompanied by any difference in nonverbal cognition
 - to my knowledge, this has not been empirically tested

BACK TO MOTION (CONT.)

• at a higher level, the typology is evidence of crosslinguistic differences in the scope of the application

- of the operation of macro-event synthesis
- ▶ Bohnemeyer et al (2010) extend this to causal chains
 - in a small study comparing speakers of Ewe, Japanese, Lao, and Yucatec
 - Japanese speakers emerged as differing from the speakers of the other languages
 - in that they dispreferred the use of single macroevent descriptions for causal chains
 - whose causers are not prototypical agents

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SUMMARY

- the macro-event property is a property of construction that blocks temporal modifiers from accessing subevents
- it was first postulated in Bohnemeyer et al. (2007)
 - in a bid to operationalize the typology of constructions that represent a scene as a "single event"

SUMMARY (CONT.) 50

• in the motion domain, the ability to integrate atomic location change events into molecular multi-ground motion events

- correlates with two typological properties:
 - the extent to which path information is expressed outside the verb root
 - the availability of serialization constructions
 - that combine multiple location change VPs into a single motion macro-event description

SUMMARY (CONT.)

- syntactically, macro-event constructions consist, in Role & Reference Grammar terms,
 - either of a single verbal core
 - or of two or more cores joined in cosubordinate nexus
- cosubordination involves the fusion of daughter cores into a single mother core
 - in such a fashion that operator projects and peripheries are shared
 - this can be seen as the syntactic mechanism that blocks access of modifiers and operators to subevents

SUMMARY (CONT.)

- only certain types of interclausal relations are eligible for macro-event encoding
 - these are interclausal relations that necessarily involve overlapping or contiguous subevents

SUMMARY (CONT.) 53

cognitively, the macro-event property is the result of a bounding operation

- that imposes a temporal Gestalt on a scene
- it is an operation that falls under the Synthesis level
 - of Talmy's (2000) typology of attention distribution mechanisms in grammar

SUMMARY (CONT.) 54

the macro-event property is a construction meaning

- that cannot generally be compositionally derived from the meanings of the constituents alone
 - although semantic anomaly as the result of a type mismatch can account for the simplest cases
- it can be viewed as the grammaticalization
 - of the distinction between time-dependent and timeindependent interclausal relations

SUMMARY (CONT.)

- it remains an open question
 - whether the linguistic distinction between macro-event expressions and non-macro-event expressions
 - correlates with differences in non-verbal cognition
 - in particular, do speakers of languages that lack macroevent expressions for a given type of scene/scenario
 - conceptualize and mentally process this type of scene as more loosely integrated
 - compared to speakers of languages that afford frequent macro-event encoding of that scene type?

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