

Use-conditional licensing of strong Negative Polarity Items

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- 1 Introduction
- 2 Challenging data on minimizers
- 3 Enriched semantic representations
- 4 Analysis
- 5 Conclusion

Introduction

- Strong minimizer NPIs: *lift a finger, drink a drop, ...*
 - Canonical observation: More restricted in occurrence than weak NPIs (*ever, any*):
 - ▶ Strong licensing contexts: *not, noone*
 - ▶ Weak licensing contexts: *few*
- (1)
- a. Alex *didn't* lift a finger to help.
 - b. *Noone* lifted a finger to help.
 - c. **Few* students lifted a finger to help.
- (2)
- a. Alex *didn't* do anything to help.
 - b. *Noone* did anything to help.
 - c. *Few* students did anything to help.

Classical view: Concentric, homogeneous licensing

- Licensing contexts are ordered in concentric circles:
antimorphic \subset anti-additive \subset downward-entailing \subset non-veridical
not *noone,* *few. ...* *interrogative, ...*
[every N], ...
- Licensing is homogeneous: if an NPI can occur in a context of strength i , it can occur in all contexts of strength i or stronger.
- But: Sedivy (1990): Contexts licensing strong minimizer NPIs, but not weak NPIs. Licensing through “negative side message”
- Suggestion: Negative side message can be use-conditional.

Outline

- 1 Introduction
- 2 Challenging data on minimizers
- 3 Enriched semantic representations
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Data considered:

- Affirmative sentences with stressed auxiliary
- Affirmative sentences with irrealis modal
- Questions

Affirmative sentences

- Sedivy (1990)
- Minimizer ok if there is a contextually salient negative “side message”
- However, weak NPIs are not!

(3) A: I am disappointed that you **don't give a damn** about my problems.

B: But I **DO give a damn**.

Side message: It is not true that [I **don't give a damn**].

(4) A: I **don't** think Bert **ever** kissed Marilyn Monroe.

B: * Bert **DID ever** kiss Marilyn Monroe.

Side message: It is not true that [Bert **didn't ever** kiss M.M.].

Analogous German data

- (5) jm ein Haar krümmen
s.o. a hair bend
'to harm a hair on s.o.'s head'

Occurrence profile: <https://www.english-linguistics.de/codii/>
(Richter et al., 2010)



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General Information

Polarity Item: jemandem ein Haar krümmen ↑ Nomin
so. a hair bend
'to harm a hair on so.'s head'

Syntactic Information

Syntactic Category of the Polarity Item: VP
Syntactic Structure of the Expression: ART NN VVFIN → [Example\(s\)](#)

Licensing Contexts

Clausemate Negation (CMN)	→ yes → Example(s)
Non-Clausemate Negation (nCMN)	→ yes → Example(s)
N-Word (NW)	→ yes → Example(s)
kein 'kein-negation'	→ yes → Example(s)
ohne 'without'	→ yes → Example(s)
Restrictor of Universal Quantifier (UNIV)	→ no
Downward-Entailing (DENT)	→ yes → Example(s)
nur 'only'	→ no
Negative Verb (NV)	→ no
Question (QUE)	→ yes → Example(s)
Conditional (IF)	→ yes → Example(s)
Comparative (COMP)	→ yes → Example(s)
Superlative (SUP)	→ no
Imperative (IMP)	→ no
Exception(s):	→ yes → Example(s)

Class

jm ein Haar krümmen 'harm a hair on s.o.'s head'

- Strong NPI, but occurrence in typically weak contexts (question, conditional)
- though only with special, more negative reading.
- So far, none of discussed contexts in the collection.

jm ein Haar krümmen 'harm a hair on s.o.'s head'

- Possible in Verum construction,
 - in which *jemals* 'ever' is excluded.
- (6) A: **Niemand** hat *jemals* so ein tolles Gemälde gesehen!
'Nobody has ever seen such a great painting!'
B: *Doch, ich **HABE** *jemals* so ein tolles Bild gesehen. Erst gestern im Museum.
'That's not true, I DID ever see such a great painting. Just yesterday, in the museum.'
- (7) A: Alex ist total lieb und kann **niemandem ein Haar krümmen**.
'Alex is super-nice and can't do harm to anyone.'
B: Aber er **HAT** jemandem **ein Haar gekrümmt**. Er hat einen Einbrecher gestellt und verprügelt.
'But he DID harm someone. He confronted a burgler and beat him up.'

Affirmative sentences: Irrealis modals

- (8) John (really) **should** have **lifted a finger** to help Mary clean up.
Side message: John **didn't lift a finger** ...
- (9) * John (really) **should** have eaten **any** cake.
Side message: John **didn't** eat **any** cake.

Analogous German data

- (10) Alex hätte echt auch mal einen Finger krumm machen können.
Alex had really also once a finger lift can
'Alex really could have lifted a finger.'
Side message: Alex didn't lift a finger.
- (11) Alex hätte echt *jemals/ 'mal beim Aufräumen helfen können.
Alex had really ever/ once with.the cleaning help can
'Alex really could ever/ once in a while have help cleaning.'
Side message: Alex didn't ever help cleaning.

Questions

- Minimizers in questions (Borkin, 1971; van Rooy, 2003):
 - ▶ licensed in negatively biased questions,
 - ▶ but not in information-seeking questions

- (12) a. Did John **lift a finger** to help Mary?
b. Who **lifted a finger** to help Mary?

- Weak NPIs:
 - ▶ Licensed in negatively biased,
 - ▶ and information-seeking questions.

- (13) a. Did John **ever** help Mary?
b. Who has **ever** helped Mary?

NPIs in rising declaratives

- But: Intonation questions: weak NPIs impossible in intonation questions (Progovac, 1992, 277)

- (14) a. Mary saw Bill?
b. *Mary saw anyone?

- Trinh & Crnič 2011; Escandell-Vidal 2002: Pure intonation questions do not license (minimizer) NPIs in English or Spanish.

- (15) ¿Ha movido Juan un dedo por ti?
has moved Juan a finger for you
Has Juan lifted a finger for you?

- (16) *¿Juan ha movido un dedo por ti?
Juan has moved a finger for you?
*Juan has lifted a finger for you?

Rising declaratives

- Trinh & Crnič (2011): Rising declarative incompatible with neutral contexts; require that speaker suggest that addressee believes the statement.

(17) Initiating a phone conversation:

Is Laura there?/ # Laura's there?

(18) A: I have to pick up my sister from the airport.

B: You have a sister?

NPIs in rising declaratives in German

- Weak NPIs: not possible.
- Minimizers: possible
- Problem: Trinh & Crnič (2011) require that the non-interrogative version needs to be possible.

(19) A: Alex ist jetzt schon zum dritten Mal die Hausaufgaben nicht gemacht.

‘Alex has not done the homework for the third time already.’

B: Wie jetzt? Alex hat *jemals/ schon mal die Hausaufgaben vergessen?

‘What? Alex has ever/ once forgotten to do the homework?’

(20) A: Chris war eine große Hilfe beim Aufräumen.

‘Chris was a great help with cleaning.’

B: Wie jetzt? Chris hat (tatsächlich) einen Finger krum gemacht, um zu helfen?

‘What? Chris really has lifted a finger to help?’

Theories of NPI licensing

- Entailment-based approaches (Ladusaw, 1980; Giannakidou, 1998):
Assume homogenous, concentric behavior
- Scalar approach
(Krifka, 1995; Eckardt, 2001; Eckardt & Csipak, 2013):
NPIs are used for statements stronger than their alternatives.
Minimizers come with non-veridicality assumption \Rightarrow not compatible with denial contexts.
- Representational approach (Sailer, 2007, 2009):
NPIs licensed in the scope of some operators; shares concentricity assumption
- LF-representational approach (Linebarger, 1980, 1987):
NPIs licensed in the LF of a clause or in the LF of a *Negative Implicatum* (NI). But: NI used for weak NPIs under weak licensors.

Summary

- Minimizers occur in negated sentences, in some other NPI-licensing contexts and in some cases with negative “side message”.
- Minimizers in non-negative contexts pose a severe problem to theories of NPI licensing.
- Sedivy (1990): Two types of licensing needed, but not exactly as in Linebarger’s work:
 - ▶ Type 1 licensing: only with respect to the semantics of the sentence.
 - ▶ Type 2 licensing: also with respect to some inferred statement.
- Questions in German: Minimizer NPIs require biased interpretation but do not need interrogative syntax.
- Plan for today: Modify representational theory to include “side messages”.

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Basic idea

Semantic representation of a sentence contains more than its core, primary truth conditional content, though the two are distinguishable.

- Homer (2008): “plain meaning” plus a conjunction of its presuppositions.
- Potts (2005): at-issue meaning plus a conjunction of its Conventional Implicatures (CIs) at utterance level
- Discourse Representation Theory (DRT, Kamp et al. (2011)): preliminary representation, expanded through anaphora resolution and presupposition accommodation (van der Sandt, 1992).
- AnderBois et al. (2015): Interaction of at-issue and non-at-issue content with respect to anaphora and presuppositions.
- Gutzmann (2013): use-conditional meaning as felicity conditions.

Two relevant constellations

- Contrastive use of auxiliaries

(21) I DO give a damn.

- Rising declaratives

(22) Wie jetzt?! Chris hat (tatsächlich) einen Finger krumm gemacht um zu helfen?
What? Alex lifted a finger to help?

Critical construction 1: Contrastive use of auxiliaries

- Sedivy (1990, 98): Contrastively used auxiliaries license strong NPIs. There must be the “denial of a negative presupposition.”

- (23) a. I **DO** give a damn.
b. It is not true that [I **don't** give a damn].

- Gutzmann et al. (2020): **VERUM**
 - ▶ Only use-conditional semantic contribution.
 - ▶ $\llbracket \mathbf{VERUM}(\phi) \rrbracket^{uc} = \checkmark$ iff speaker wants to prevent the question under discussion to be downdated with $\neg\phi$.

Contrastive use of auxiliaries

- Use-conditional meaning: type of conventional implicature (Gutzmann, 2013)
- Notation: truth-conditional meaning || use-conditional meaning
- Use-conditional meaning of Verum: **PreventDownDating (PDD)**

(24) A: I cannot imagine that Peter kicked the dog.
B: Peter **DID** kick the dog. (Gutzmann et al., 2020, 3)

kick(peter, the-dog) || PDD(¬kick(peter, the-dog))

Critical construction 2: Rising declaratives

- Trinh & Crnič (2011):
 - ▶ Explicit representation of **ASSERT** operator and asserter:
[[**ASSERT**(x, ϕ)]]^c = [[ϕ]]^c if (i) x believes ϕ , and (ii) ϕ is not presupposed.
 - ▶ Falling declarative: speaker assertion.
 - ▶ Rising declarative: hearer assertion

⇒ No difference wrt to NPI-licensing expected!

- (25) * Alex **lifted a finger?**
ASSERT(hearer, **lift-finger**(alex))

Use-conditional meaning of rising declaratives

- Castroviejo (2008); Gutzmann (2013): Use-conditional meaning contributed by intonation:
 - (26) How tall Michael is! \emptyset || it is unexpected how tall Michael is.
 - (27) Obama won the Nobel Prize!
O. won the NP || it is unexpected that O. won the NP.
 - German rising declaratives: truth-conditional meaning as in Trinh & Crnič (2011): **ASSERT**(addressee, ϕ)
 - ▶ weakly biased: ... || \neg **Believe**(speaker, ϕ)
 - ▶ strongly biased: ... || **Believe**(speaker, $\neg\phi$)
- (28) What? Alex cleaned the room?
Primary content: **ASSERT**(addressee, **clean**(alex))
Utterance content: ... || **Believe**(speaker, \neg **clean**(alex))

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Basic idea

- Weak NPIs: Require a licenser in the primary content.
- Minimizer NPIs: Require a strong licenser in the utterance content.

Constraint on weak NPIs

Licensing condition for weak NPIs:

The semantic contribution of the item must be in the scope of an NPI-licensing operator at the primary content.

(29) a. Alex **didn't** see **anything**.

Primary content: $\neg\exists x(\text{see}(\text{alex}, x))$

b. **Few** student read **anything**.

Primary content: $[\text{Few } y : \text{student}(y)](\exists x(\text{read}(x, y)))$

(30) * But, Alex **DID** eat **anything**.

Primary content: $\exists x(\text{eat}(\text{alex}, x))$

Utterance content: ... || $\text{PDD}(\neg\exists x(\text{eat}(\text{alex}, x)))$

(31) * Mary saw **anything?**

Primary content: $\text{ASSERT}(\text{hearer}, \exists x(\text{see}(\text{mary}, x)))$

Utterance content: ... || $\text{Believe}(\neg\exists x(\text{see}(\text{mary}, x)))$

Constraint on minimizer NPIs

Licensing condition for minimizer NPIs:

The semantic contribution of the item must be in the immediate scope of a negation in the utterance content of the utterance containing it.

(32) Alex **didn't** lift a finger.

Primary content: \neg **lift-finger**(alex)

(33) * **Few** students lifted a finger.

Primary content: [**Few** x :**student**(x)](**lift-finger**(x))

(34) Alex **DID** lift a finger.

Primary content: **lift-finger**(alex)

Utterance content: ... || **PDD**(\neg **lift-finger**(alex))

(35) What? Alex lifted a finger?

Primary content: **ASSERT**(hearer, **lift-finger**(alex))

Utterance content: ... || **Believe**(\neg **lift-finger**(alex))

Summary

- NPI-licensing shows grammatical reflex of different levels of semantic representation. (primary content vs. utterance content)
- Licensors of minimizers are a subset of licensors of weak NPIs, but:
 - ▶ Non-concentricity: different semantic levels for licensing.
 - ▶ Non-homogeneity: similar primary content can have different relevant utterance content.

Afterthought 1: Which expressions are like “minimizers”?

- Here: arbitrary difference, specified as collocational requirement in the lexical entry.
- Sedivy (1990): regular NPIa (*any*) vs. lexical NPIs (*lift a finger*)
- Postal (2005): NPIs contain negation, i.e., they are idioms with a negative component. Adaptation: maybe only lexical NPIs?
 - ▶ Negation need not be part of the truth-conditional content.
 - ▶ Even if it is, the negation can take various forms (*Nobody lifted a finger*, *I didn't lift a finger*, *I don't think Alex lifted a finger*, ...)
 - ▶ Only rhetorically different from a collocational analysis?
- Language play?
 - ▶ Why not used in contexts not conventionally associated with negative “side message”?
 - ▶ Why no licensing through irony?

(36) Yeah, you are such a good friend.
You are always the first to lift a finger for others.
- Perhaps: Certain degree of semantic transparency needed (Rizea & Sailer, 2020).

Afterthought 2: Status of use-conditional meaning

- Use-conditional items: expressions that contribute to the use-conditional meaning.
- Here: expressions that depend on a certain configuration within the use-conditional meaning.

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Conclusion

- NPI theory
 - ▶ Minimizers licensed by a subset of the licensors of weak NPIs
 - ▶ Minimizers licensed in a superset of the semantic levels of weak NPIs
- Architecture of meaning representation
 - ▶ NPI licensing on semantic representations
 - ▶ Integration of CI and use-conditional meaning
 - ▶ Integrated additional meaning is conventionally associated, necessary for discourse-anaphoric phenomena, felicity, ...
- Next steps:
More data on NPIs in context with negative CI/use-conditional meaning needed.

Future work

- Levinson (2000): Utterance content extended to contain *generalized conversational implicatures* (GCI)
- Sailer (to appear): Reading-dependent licensing of minimizers derived by licensing in GCI.
- GCIs as key for NPI licensing with irrealis modals and in the restrictor of universal quantifiers.

Thank you for your attention!

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