

Events in the semantics of nondeverbal nominalizations

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Introduction: Event-related nominalizations

- How do these words get their meaning? How are they interpreted?
- Participants of events or whole events selected by nominalizing affix
 - (1) *employee* (Barker 1998)
 →participant selection
 - (2) Markham sets down the rules about park befoulment. (Plag et al. 2018: 474)
 →whole event selected

Events in nominalizations

- Event inherited from semantic representation of base verb (Plag et al. 2018, Löbner 2013)
- Semantic representation provides events and event participants for nominalizing affix
- Nominalizing suffix creates different meaning of derivative
 - by selection of participant
 - by selection of event

employer	AGENT
employee	PATIENT
employment	EVENT

Possible to model semantic representation of base word and derivative

- Show element selection in event by affix
- General format: attribute-value-structures

Attribute Value Matrix (AVM)

(3) John employed Paul.



Attribute Value Matrix (AVM)

(3) John employed Paul.









Problem: Non-verbal bases

- Research tends to focus on deverbal nominalizations (e.g. Barker 1998; Kawaletz & Plag 2015)
- What about formations like debtee (\rightarrow debt), biographee (\rightarrow biography)?
- Many nominalizing suffixes also attach to non-verbal bases (Plag 1999, 2004; Bauer et al. 2013)
- Non-verbal bases as *debt* not straightforwardly eventive
- What do we know about non-verbal bases?
- "the verbal relation is implied by context or can be inferred from the nature of the non-verbal base. [...] Such interpretations follow from the sort of activities that the base nouns could conceivably be involved in." (Bauer et al. 2013: 233)
- \rightarrow Vague description

Research questions

Is it possible to find an event in the semantics of non-verbal base words?

If yes, how can we model the semantic representation of these eventive structures in the non-verbal base?

Focus on nominal bases and -ee derivations

Data set

Data from BNC (Davies 2004) and COCA (Davies 2008)

17 denominal derivatives

debtee biographee covenantee bargee tutee mentee

Restrictions -ee

select non-volitional and sentient participant (Barker 1998)

Example: *employee*



Restrictions on base words



Restrictions on base words



Restrictions on base words



(4) The 'debtee' is an old word for the creditor or payee. (BNC)

- debtee is the person who gets something back
- Base debt not clearly eventive at first sight

OED definitions debt:

- 1. "That which is owed or due: a sum of money or a material thing; a thing immaterial."
- 2. "A liability or obligation to pay or render something; the condition of being under such obligation."
- Already decomposition by definition
- Second definition describes a state \rightarrow *debt* as *obligation-state*

















Subset: Complex -er bases for -ee derivatives

Complex word as base for nominalizations

- -er/-or event structure for -ee formation
- Different participant selected
 - $tutor \rightarrow tutee$
 - mentor \rightarrow mentee
 - batterer → batteree

-ee-noun paradigmatically related to -er/-or-noun (Bauer et al. 2013: 524)

Summary

- Nominalizations by non-verbal bases may have event-related interpretations.
- Decomposition reveals event structure and participants for the interpretation of the nominalization.
- Frame semantics useful tool for decomposition of derivatives and bases

Implications

- Same issue for other nominalizations
- Blueprint for analysis of other event-related nominalization with non-verbal bases
 - nominalizing suffixes -age, -ance, -ation, -er, -ment, -ure
 - noun-to-verb-conversion
- Frame semantics as unified format for analysis of nominalizations

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Thank you!

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Appendix – Data set

BNC

Tokens	Lemma
149	absentee
10	bargee
1	billetee
1	biographee
14	covenantee
4	debtee
51	franchisee
279	mortgagee
	tutee

COCA		
Tokens	Lemma	
29	awardee	
1	batteree	
13	billee	
4	counselee	
1	mastectomee	
2	mentoree	
213	mentee	
166	parolee	
84	patentee	

Appendix – covenantee



Appendix – *biographee*



Appendix – Inheritance hierarchy



UNG=UNDERGOER non-vol-part= non-volitional participant

Appendix – Inheritance hierarchy



Data collection

Problem: word class of base? Lots of conversions!

- Way out: frequency as measure of prominence in mental lexicon
- Oxford English Dictionary (OED 2018) checked for possible base forms
- Bases which occur both as a verb and as a non-verbal category checked by frequency
 - COCA (Davies 2008) and COHA (Davies 2010) frequencies for possible base forms
 - As soon as the verbal base represents over 30% of all tokens of the base forms → base excluded

charge	Tokens	Percentage
V	8265	31
Ν	26469	69

Number of attestations by word class in COCA

Data collection

Percentage criterion not always reliable

- Frequency threshold? Proportion vs. Absolute frequency
- Unclear cases sorted out by hand
 - Meaning of derivative related to verb rather than to noun (e.g. internee)
 - Noun obsolete although more frequent than V (e.g. *legate*)
 - High token frequency of Verb (e.g. *interview*, *report*)