#### Definite Meaning and Definite Marking

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# **Object languages**

- Yiddish (Y)
- Esperanto (Eo)
- Papiamentu (P)



## Example

Oyfn pripetchik brent a fayerl, Un in shtub iz heys, Un der rebe lernt kleyne kinderlekh, Dem alef-beys. On the hearth, a fire burns, And in the house it is warm. And the rabbi is teaching little children, The alphabet.

M.M. Warshawsky (18481907)

#### Introduction

- Look at definiteness marking in three environments (proper nouns, unique nouns, anaphoric definites)
- Problems for existing approaches
- Semantic map of definiteness (Am-David, 2014, 2016)
- Semantic analysis of the three contexts
- Syntactic analysis of the nominals and the articles
- Conclusion

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# Articles in Esperanto (Eo)

- (Distirbution similar to Metropolitan English)
- Definite article: *la*
- (To be ignored: Contracted form with some prepositions ending in vowels: *de l'* 'to-the', *pri l'* 'about-the', ...
   —mainly used in poetry, not in spoken Eo (Wennergen, 2016, p. 102))
- No indefinite article
- Main sources:
  - Reference grammars: Kalocsay & Waringhien (1985), Wennergen (2016)
  - Textbasis: Tekstaro de Esperanto (http://www.tekstaro.com/); webpages in Eo.

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#### Articles in Papiamentu

- Definite article: e(I)
- (To be ingored: Contracted form with *di* 'of': *dje* 'of-the')
- Indefinite article: un
- Main sources:
  - Textbook and reference grammar: Putte & van Putte-de Windt (1992, 2014)
  - Linguistic analyses: Kester & Schmitt (2007)
  - Textbasis: webpages in P.

### Articles in Yiddish

- (Distribution similar to Standard German as in Schwarz (2009))
- Definite article: *der*, *die*, *dos*, ...
- With prepositions:
  - Full form of the article: in der shtub 'in the house'
  - Contracted form with some prepositions: afn pripetshik 'on-the hearth'
  - Preposition with bare noun: in shtub 'in (the) house'
- Indefinite article: a(n)
- Main sources:
  - Reference grammars: Mark (1978), Katz (1987)
  - Textbasis: Corpus of Modern Yiddish (web-corpora.net/YNC)

#### Envirnoments

- Proper names
- Uniques
- <u>Anaphoric definites</u>

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#### Proper names: no article

- Primary use: referring to an individual bearing that name (von Heusinger, 2010)
- Eo: without article
  - (1) En 1873 li transloĝis al <u>Varsovio</u> kun la tuta familio in 1873 he moved to Warsaw with the entire family (tekstaro)
- P: without article
  - (2) I Korsou ta un isla chiki, and Curaçao is an island small
     'And Curaçao is a small island ...' (www)
- Y: without article (Mark, 1978, p. 120):
  - (3) khaym kumt bald.Khaim comes soon'Chaim is coming soon.'

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Proper names: Article when modified?

Y: article used when syntactically modified, (Mark, 1978, p. 120)):

- (4) a. (\*der) khaym kumt bald. the Khaim comes soon 'Chaim is coming soon.'
  - \*(der) royter khaim kumt bald.
     the red Kaim comes soon
     'The red Chaim comes soon.'

### Unique nominals

- Definition: There is exactly one referent in any utterance situation. The referent is an individual.
- Examples (see Löbner (2011) (p. 284)): *sun, pope, US president, weather, ...*
- Eo: with article
  - La <u>suno</u> subite sin montris el la nuboj, ... the sun suddenly itself showed from the clouds 'Suddenly the sun showed itself out of the clouds ...' (tekstaro)

#### Unique nominals: P and Y

- P: no article
  - (6) (\*E) <u>Solo</u> ta brila sin miserikòrdia.
    (the) sun PRES burn without mercy
    'The sun is burning without mercy' (Kester & Schmitt, 2007, p. 113)
- Y: with article; if possible: in contracted form
  - (7) az der <u>meylekh</u> hot gehert di zakh, ...
    as the king has heard the affair ...
    'as the king has heard about the affair, ...' (CMY)
  - iz yuov gekumen tsum <u>meylekh</u>, un hot gezogt:...
     has Yuov come to the king and has said:
     'Yuov came to the king and said: ...' (CMY)

# Uniques: Summary

- What is unique depends on the context
- ... and may vary from one language to the other.
- Trend: languages seem to prefer/require the weakest possible form of definite marking for uniques.

### Anaphoric definites

- <u>Anaphoric definites</u> refer to a previously introduced referent.
  In Eo, the article is used:
- (9) Mi havas grandan domon. La domo havas du etaĝojn.
  I have big house the house has two floors
  'I have a big house. The house has two floors.' (Wennergen, 2016, p. 80)

#### Anaphoric definites in P

The definite article is used in P:

(10) Mi a kumpra un bolo. I PAST buy a cake

> \*( $\underline{\mathbf{E}}$ ) bolo a wordu kome den 10 minüt. the cake PART been eat in 10 minutes

'I bought a cake. The cake was eaten in 10 minutes.' (Kester & Schmitt, 2007, p. 119)

# Anaphoric definites in Y

The definite article is used in Y.

(11) hot im gefunen a man, ...; un der man hot im gefregt, has him found a man and the man has him asked azoy tsu zogn: ... so to say
'A man found him and the man asked him to say ...' (CMY)

Also with a preposition:

(12) un a man iz gegangen .... un der nomen fun a man is gone and the name of the man dem man iz gewen elimelekh ... is been Elimelekh 'And a man went from .... And the name of the man was Elimelekh ...' (CMY)

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#### Data summary

	proper name	unique nominal	anaphoric definite
Esperanto	_	la	la
Papiamentu	_	_	е
Yiddish	-	der	der
		P-n	

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#### Overview

- Basic ingredients of the analyses
- Rough sketches of problematic aspects

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# **Basic ingredients**

- $\iota$ -operator:  $\iota x : \phi$ 
  - (13)  $[[\iota x : \phi]]$ 
    - a. is only defined if there is exactly one individual a such that  $[\![\phi]\!]^{g[x\mapsto \mathsf{a}]}=1$
    - b. when defined, then  $\llbracket \iota x : \phi \rrbracket$  is that a.
- Situations taken to be partial worlds (Kratzer, 1989; Elbourne, 2002; Schwarz, 2009)
- Presupposition: Need to be satisfied for a formula to be interpretable, as in (13-a).
   Can be accommodated locally, i.e., end up in the scope of some operator.
- Conventional implicature (CI, Potts (2005)): has a truth value independent of that of the rest of the sentence; cannot be accommodated in the scope of an operator (except for speech operators)

# Problem with $\boldsymbol{\iota}$

- $\iota$  is commonly used in the semanitcs of definites.
- $\iota$  treats existence and uniqueness both as presuppositions.
- Need to separate existence and uniqueness (Horn & Abbot, 2013; Coppock & Beaver, 2015):
  - (14) Cancelling existence:
    - He is not the ambassador to Spain, because Spain doesn't have an ambassador here.
  - (15) Uniqueness cannot be cancelled:
    - a. #He's not the ambassador to Spain—there are two.
    - b. #There are two ambassadors to Spain; therefore, he is not the ambassador to Spain.
- Any approach that glues together existence and uniqueness is problematic. (Elbourne, 2002; Schwarz, 2009)

# Scope of the analyses

- Focus on the article: Hawkins (1991), Elbourne (2002), Schwarz (2009)
   Focus on the nominal: Löbner (2011)
   Need both:
  - Both articles and nominals have inherent uniquness requirements.
  - Partially idiosyncratic interaction (proper nouns vs. unique nominals)
- If interaction with preposition in focus, other cases neglected (Schwarz, 2009)
- Assumption of phonologically empty determiners for cross-linguistic parallels without discussion (Kester & Schmitt, 2007).

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## Definite meaning: Outline

- Based on Am-David (2016) and several conference presentations with Am-David (2nd European HPSG Workshop, Paris, 2014; Semantics and Philosophy in Europe Eighth Colloquium, Cambridge, 2015)
- Components of the analysis:
  - asserted content (AC): individual
  - presupposition (Pres): existence
  - conventional implicature (CI): uniqueness
- Differences between the three environments:
  - Proper names just like uniques, but with naming presupposition
  - Unique nominals require uniqueness in all "typical" situations.
  - Anaphoric definites require uniqueness in the current situtation and coreference with accessible antecedent.

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# Typology of definiteness: Am-David (2016)

- Languages with several definite articles (at most: 3 in Ferring Frisian)
- Wider range of contexts
- Three inferences: for *the N*:
  - A (Maximality): There is exactly one maximal individual a that satisfies
     [[N]] in the current situation.
  - B (Common ground uniquness): In every situation s in the common ground, if there exists an object satisfying [[N]] in s, then there is exactly one such object in s.
  - C (Anaphoricity): There is exactly one object satisfying [[N]] in the current situation and this object is part of the current universe of discourse.
- Semantic map: B  $\dots$  A& $\neg$ (B C)  $\dots$  C
- We only look at B and C here!

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## Our languages in this map

		В	С
Eo	la	ok	ok
Ρ	е	*	ok
Y:	der	(ok)	ok
	P+n	ok	*

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#### Arguments for CI status of A–C

Cl vs. presuppositions:

- Am-David & Sailer (in prep.)
- Two criteria: (i) independ truth values, (ii) non-global accommodation

### Independ truth values

- The truth value of an utterance can vary independently of that of a CI.
- The truth value of an utterance is only defined if its presupposition is true.
  - (16) Ŝi ĉesis fumi sed ŝi ankoraŭ drinkas. (Eo) she abandoned smoke but she still drinks-alcohol
     'She stopped smoking but she is still drinking.'
    - a. Presup: She smoked before. She drank before.
    - b. CI: Not smoking and drinking in contrast
- (17) Alex hat Sie gestern gesehen. (German) Alex has you.FORMAL yesterday seen 'Alex saw you yesterday.'
  - a. Denotation of *Sie*: addressee CI of *Sie*: formal relation between speaker and addressee

#### Independent truth values for definites

- Denotation of the definite: an individual meeting its descriptive content.
- CI of the definite: uniqueness
- (18) Hano aĉetis la libron. (Eo) Hano bought the book
  - a. Denotation: Hano bought something that is a book.
  - b. CI: There is a unique book in the situation.

#### Local accommodation

- The truth of CI must hold at the overall utterance level.
- A presupposition can be accommodated in the scope of an operator (negation, conditional, interrogative)
  - (19) Ŝi ne ĉesis fumi Ŝi neniam fumis. (Eo) she not abandoned smoking she never smoked 'She didn't stop smoking — she never smoked.'
    - a. Pres: She smoked before.
  - (20) #Sie haben nicht mit dem Rauchen aufgehört you.FORMAL have not with the smoking stopped wir sind nämlich per Du. we are indeed on informal terms
    - a. Ci of Sie: speaker and addressee are in a formal relation

Formalization of definite meaning: Proper name

 $s_0$ : Current situation

- (21) *Franjo* (Eo)
  - Asserted content (AC): x
     (The name refers directly to an individual)
  - b. Presupposition (Pres):  $\exists x (franjo(x, s_0))$ There is a person that is called Franjo in the current situation)
  - c. Presupposition (Pres):  $franjo(x, s_0)$ (The referent x is called Franjo in  $s_0$ )
  - d. conventional implicature (CI): **Gn**  $s(\exists x(franjo(x, s)) \rightarrow \exists !x(franjo(x, s)))$ If there is a person called Franjo in the common ground, there is exactly one such person.

## Formalization of definite meaning: Uniques

Instead of  $\iota$ , use  $\iota_{\exists}$ :

- (22) a. Expression:  $\iota_{\exists} x : \phi$ 
  - b. Denotation:  $\llbracket \iota_{\exists} x : \phi \rrbracket^g = a$ , such that  $\llbracket \phi \rrbracket^{g[x \mapsto a]} = 1$

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Formalization of definite meaning: Uniques

#### (23) <u>suno</u> 'sun' (Eo)

- Asserted content (AC): *i*∃*x* : sun(*x*, *s*<sub>0</sub>) (The nominal refers to some object that satisfies its descriptive content in *s*<sub>0</sub>.)
- b. Presupposition (Pres):  $\exists x(sun(x, s_0))$ There is a sun in the current situation)
- c. conventional implicature (CI):
   Gn s(∃x(sun(x, s))→∃!x(sun(x, s)))
   If there is a sun in the common ground, there is exactly one such thing.

Formalization of definite meaning: Anaphoric definites

- (24) Anaphoric link: identity with an element from the current discourse:
  - a. x = y (identity)
  - b. **d(iscourse)**-acc(essible)(*y*, *s*<sub>0</sub>) (*y* occurs in the current discourse)

Formalization of definite meaning: Anaphoric definites

- (25) *la studento* 'the student' (Eo)
  - Asserted content (AC): *i*∃*x* : student(*x*, *s*<sub>0</sub>) (The nominal refers to some object that satisfies its descriptive content in *s*<sub>0</sub>.)
  - b. Presupposition (Pres):  $\exists x (student(x, s_0))$ There is a student in the current situation)
  - c. conventional implicature (CI):  $(\exists x(\mathbf{stud}(x, s_0)) \rightarrow (\exists ! x(\mathbf{stud}(x, s_0) \land x = y \land \mathbf{d} - \mathbf{acc}(y, s_0))$ If there is a student in the current situation, there is a unique such student that is identical with some y which accessible within the current discourse.

# Summary: Definite meaning

- 3-dimensional represenation of definite meaning.
- AC: some individual (satisfying the descriptive content if there is such)
- Pres: existence presupposition
- CI: uniqueness, though with respect to varying situational requirements
- Missing?
  - Representation of the three dimensions in HPSG
  - Marking (Names and uniques are both situationally unique, but only the latter require an article in Y and Eo.)

#### Framework

HPSG

- Techniques of underspecified semantics Bos (1996); Copestake et al. (2000); Egg (1998, 2010); Pinkal (1996); ...
- Lexical Resource Semantics (LRS), Richter & Sailer (2004)
- General idea: Words and phrases constrain the semantic representation of their utterance (specifying what must occur in the representation and where)
- Proposal for integration of multidimensional semantics:
  - Bonami & Godard (2007): Cls for evaluative adverbs
  - Hasegawa & Koenig (2011): Structured meaning for focus
  - Plan: Use a standard HPSG-mechanism of perlocation and retrieval for projective meaning

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# General architecture of LRS



(27) External Content Principle: In every utterance, every subexpression of the EXCONT value of the utterance is an element of its PARTS list, and every element of the utterance's PARTS list is a subexpression of the EXCONT value. (Richter & Sailer, 2004)

# LRS Encoding of presuppositions and CIs

- Encoding closer to Potts (2005) than Bonami & Godard (2007), but allowing for intermediate retrieval of Cls.
- List-valued attributes **PRESUP**(POSITION) and CI.
- Elements of **PRESUP** and CI also occur on the PARTS list-
- Percolation and retrieval for PRESUP: At clauses: All elements from the daughters' PRESUP lists are on the mother's PRESUP list unless they appear in the clause's EX-CONT value. In the latter case they occur in the scope of some appropriate semantic operator.
- Percolation and retrieval for CI:

At matrix utterances and clauses marking embedded utterances: All elements from the daughters' PRESUP lists are on the mother's CI list unless they appear in the clause's EX-CONT value. In the latter case, they must occur in the immediate scope of some speech act operator.

# Example: Franjo

Notation:  $\alpha$ [franjo(x, s<sub>0</sub>)]: some underspecified expression that contains a given subexpression

(28) Semantic specification of a proper name:

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\begin{bmatrix} PHON \langle Franjo \rangle \\ \vdots \\ LRS \begin{bmatrix} EX-CONT & x \\ PARTS & \langle x, [1], [2], [3] \rangle \\ PRESUP & \langle [1](\dots \land \exists x (\alpha[franjo(x, s_0)]))), [2](\dots \land \alpha[franjo(x, s_0)])) \rangle \\ CI & \langle [3]Gn \ s \ (\exists x (\alpha[franjo(x, s)] \rightarrow \exists ! x (\alpha[franjo(x, s)]))) \rangle \end{bmatrix} \end{bmatrix}
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# Definite marking

- Lexical entries of nouns and articles
- Yiddish: special attention to P+N combinations

#### Proper names

- Unique definite semantics as in (28)
- Optional determiner
- (29) Sketch of the lexical entry of the name *Franjo*:



## Uniques

(30) Sketch of the lexical entry of the unique noun in Eo and Y, suno/zun 'sun':



### Definite article: Eo

- Semantics that is compatible with all types of nouns.
- Existence and uniqueness are only assumed for the current situation.
- (31) Sketch of the lexical entry of the Eo definite article *la*:



# Definite article: P

- Semantics that is only compatible with anaphoric definites.
- Unique nouns can only combine with it if they are at the same time used anaphorically.
- (32) Sketch of the lexical entry of the P definite article e:



(33)

# Definite article: Y (der)

- Semantics of the independent word definite article is compatible with all types of nouns.
- Existence and uniqueness are only assumed for the current situation.
- (34) Sketch of the lexical entry of the Eo definite article *der*.



# Syntax of P+D combinations

- P+D behaves externally like a PP, but internally like an article.
- P+D has the same 3-dimensional semantics as a unique nominal.
- Thus: only compatible with unique nominals and proper names!



# Syntax of P+NP combinations?

- Problem: While contracted, semantically restricted forms exists for singular nominals in some genders, this is not the case for all genders.
- For those P and D that have P+D forms, we must require that there are P-counterparts that select for a full NP and that the NP complement does not have a unique-nominal CI.



# Definite marking:Summary

- Syntactic selection accounts for difference between proper names and unique nominals.
- While unique nominals in P can, in principle, take a determiner, a definite article is excluded unless an anaphoric use is present.
- Single-word analysis of contracted prepositions in Y. Non-contracted forms of contractable prepositions with special CI.

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# Summary

- Theory of definiteness applied to three langauges.
- Interaction of syntax and semantics
- Multi-dimensional semantics is very natural in HPSG, given its perlocation-retrieval approach.
- Little previous work on Y, Eo, and P in HPSG:
  - Y: Müller & Ørsnes (2011)
  - Eo: Li (1995) (inflectional morphology); one exercise sheet for LKB course (http://www.delph-in.net/courses/09/cl/esperanto.pdf)
  - P: (none?)

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#### Extension to demonstratives and pointing gestures

- Anaphoric definites require uniqueness within the universe of discourse.
- Hawkins (1991): Uniform analysis of definites and demonstratives. Different p-set requirements, i.e., difference with respect to where uniquness holds (in discourse, in visual perception, ...)
- Lücking et al. (2015): Space for uniqueness requirement can be determined through pointing gestures.

#### Articleless languages?

- Because of inherent semantic definiteness, proper names and unique nominals do not need an article.
- Anaphoric definites: The relevant presuppositions and CIs could come from the construction (word order etc.).

#### Some other open issues

- More contexts: bridging, generics, ...
- Explicit link to accessibility theory for anaphoric definites
- Connection to indexicals (Maier, 2009)
- Secondary uses of proper names (von Heusinger, 2010)

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# a sheynem dank! Multan dankon! Mashá danki!

#### References

- Am-David, Assif. 2014. <u>A semantic typology of definiteness. The crosslinguistic</u> <u>distribution of definiteness markers</u>. Saarbrücken: Lambert.
- Am-David, Assif. 2016. Semantic typology of multiple definite articles. Manuscript Goethe University Frankfurt a.M.
- Am-David, Assif & Manfred Sailer. in prep. Conventional implicature as a meaning component in definites. Manuscript Goethe University Frankfurt a.M.
- Bonami, Olivier & Danièle Godard. 2007. Parentheticals in underspecified semantics: The case of evaluative adverbs. Journal of Research on Language and Computation 5(4). 391–413. Special Issue on Semantic Compositionality.
- Bos, Johan. 1996. Predicate logic unplugged. In Paul Dekker & Martin Stokhof (eds.), <u>Proceedings of the tenth amsterdam colloquium</u>, 133–143. ILLC/Department of Philosophy, University of Amsterdam.
- Burge, Tyler. 1973. Reference and proper names. <u>The Journal of Philosophy</u> 70. 425–439.
- Copestake, Ann, Dan Flickinger, Ivan Sag & Carl Pollard. 2000. Minimal recursion semantics. an introduction. Manuscript, Stanford University.

- Egg, Markus. 1998. Wh-questions in Underspecified Minimal Recursion Semantics. Journal of Semantics 15. 37–82.
- Egg, Markus. 2010. Semantic underspecification. Language and Linguistics Compass 4(3). 166–181.

Elbourne, Paul. 2002. Situations and individuals: MIT dissertation.

Hasegawa, Akio & Jean-Pierre Koenig. 2011. Focus particles, secondary meanings, and lexical resource semantics:

the case of japanese <u>shika</u>. In Stefan Müller (ed.), <u>Proceedings of the 18th</u> international conference on Head-Driven Phrase Structure Grammar, University of

Washington, 81–101.

http://cslipublications.stanford.edu/HPSG/2011/hasegawa-koenig.pdf.

Hawkins, John A. 1991. On (in)definite articles: implicatures and (un)grammaticality prediction. Journal of Linguistics 27(2). 405–442.

doi:DOI:10.1017/S0022226700012731.

- von Heusinger, Klaus. 2010. Zur Grammatik indefiniter Eigennamen. Zeitschrift für germanistische Linguistik 38(1). 88–120.
- Horn, Laurence R. & Barbara Abbot. 2013. ¡the, a¿: (in)definiteness and implicature. In William P. Kabasenche & Matthew H. Michael O'Rourke, Slater (eds.), <u>Reference</u> <u>and referring</u>, vol. 10 Topics in Contemporary Philosophy, 325–355. Cambridge, Mass.: MIT Press.
- Kalocsay, Kálmán & Gaston Waringhien. 1985. <u>Plena analiza gramatiko de Esperanto</u>. Rotterdam: Universale Esperanto Asocio 5th edn. http://luisguillermo.com/ PAG/Plena\_Analiza\_Gramatiko\_(K.\_Kalocsay,\_G.\_Waringhien).pdf = > = >>

- Katz, Dovid. 1987. Grammar of the Yiddish language. Duckworth, London. http://dovidkatz.net/dovid/PDFLinguistics/2-1987-Grammar-Yiddish.pdf.
- Kester, Ellen-Petra & Cristina Schmitt. 2007. Papiamentu and Brasilian Portuguese: A comparative study of bare nominals. In Marlyse Baptista & Jacqueline Guéron (eds.), <u>Noun phrases in creole languages. a multi-faceted approach</u>, vol. 31 Creole Language Library, 107–143. Amsterdam, Philadelphia: Benjamins.
- Kratzer, Angelika. 1989. An investigation of the lumps of thought. Linguistics and Philosophy 12. 607–653.
- Li, Wei. 1995. Esperanto inflection and its interface in HPSG. In <u>Proceedings of 11th</u> north west linguistics conference (nwlc), Victoria, Canada.
- Löbner, Sebastian. 2011. Concept types and determination. Journal of Semantics 28. 279–333. doi:doi:10.1093/jos/ffq022.
- Lücking, Andy, Thies Pfeiffer & Hannes Rieser. 2015. Pointing and reference reconsidered. Journal of Pragmatics 77. 56–79.
- Maier, Emar. 2009. Proper names and indexicals trigger rigid presuppositions. Journal of Semantics 26. 253–315. doi:doi:10.1093/jos/ffp006.
- Mark, Yudel. 1978. Gramatik fun der yidisher klal-shprakh/grammar of Standard Yiddish. New York: Congress for Jewish Culture.

Nübling, Damaris, Fabian Fahlbusch & Rita Heuser. 2012. Namen. Eine Einführung in die Onomastik. Tübingen: Narr.

Pinkal, Manfred. 1996. Radical underspecification. In Paul Dekker & Martin Stokhof (eds.), <u>Proceedings of the tenth Amsterdam Colloquium</u>, 587 – 606. ILLC/Department of Philosophy, University of Amsterdam.

Potts, Christopher. 2005. <u>The logic of conventional implicatures</u> Oxford Studies in Theoretical Linguistics. Oxford: Oxford University Press.

Putte, Florimon van & Igma van Putte-de Windt. 1992. Dòsplak'i boka. Papiaments beginnerscursus. Zutphen: Walburg Pers.

Putte, Florimon van & Igma van Putte-de Windt. 2014. <u>Grammatica van het</u> Papiaments. vormen en communicatieve strategiën. Zutphen: Walburg Pers.

Richter, Frank & Manfred Sailer. 2004. Basic concepts of lexical resource semantics. In Arne Beckmann & Norbert Preining (eds.), <u>Esslli 2003 – course material i</u>, vol. 5 Collegium Logicum, 87–143. Vienna: Kurt Gödel Society Wien.

Sailer, Manfred. 2004. Local semantics in HPSG. In Olivier Bonami & Patricia Cabredo Hofherr (eds.), <u>Empirical issues in formal syntax and semantics</u>, vol. 5, 197-214. www.cssp.cnrs.fr/eiss5/sailer/index\_en.html.

Schwarz, Florian. 2009. <u>Two types of definites in natural language</u>: University of Massachusetts, Amherst dissertation.

Wennergen, Bertilo. 2016. <u>Plena manlibro de Esperanta gramatiko</u>. http://bertilow.com/pmeg/.