Morphomes and the paradigm

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1.Abstract

Morphomes constitute a complex phenomenon which might be crucial for our understanding of morphology. However, the phenomenon itself and its theoretical ramifications continue to be obscure to this day and disagreement prevails. As a necessary first step to achieve a greater consensus my goal is to map clearly the variation found in morphome-like ParadigMo (Toulouse) 19th-20th June 2017

5.Scales of variation

5.1 Is it a morphological object?

5.1.1 Segmentability

A property or prototypical morphemes (and also of whole words) is that they are units which are segmentable from surrounding elements, i.e. they are islands of invariance surrounded by peaks of uncertainty. Morphological objects differ as to their segmentability. Highly segmentable Spanish 1PL forms: *ama-mos, tendre-mos, vivimos, tenga-mos, corri-mos, so-mos, tuvi-mos, fui-mos, sea-mos*

2.Introduction and background

Elements of pure form, not aligned to any morphosyntactic feature value (so-called 'morphomes', Aronoff 1994), have been the object of analysis of many morphologists (most prominently Martin Maiden) and a topic for debate in recent years (e.g. Bermúdez-Otero 2016) but continue to be controversial to this day both theoretically (how should they inform our models?) and empirically (how should we identify them in a language?). Obtaining a clear picture of the variation which can be found within and around morphomicity (see the framework of canonical typology, Corbett 2005) is a necessary first step towards understanding the phenomenon.

3.Research questions

Which different phenomena have been labeled 'morphomic'?
How can we distinguish them and name them?
What is the canonical, clearest instance of a morphome?
Along which dimensions may morphome-like elements diverge?
Can we quantify morphomicity?

4.The canonical morphome

5.1.2 Productivity

A formal element is more robust if it is manifested in a great number of lexemes: i) Lexemes giving <u>positive evidence</u> for the category to the exclusion of other cells. ii) Number of lexemes which are <u>not fully informative</u>: formal identity is manifested, but only trivially so, i.e. not to the exclusion of all other cells.

iii) Number of lexemes providing <u>negative evidence</u>, i.e. which contradicts the morphological affinities which the morphome assumes.

		PRES.IND	PRES.SUB			PRES.IND	PRES.SUB			PRES.IND	PRES.SUB			
	1SG	salg-o	salg-a		1SG	mid-o	mid-a		1SG	sé	sep-a			
	2SG	sal-es	salg-as		2SG	mid-es	mid-as		2SG	sab-es	sep-as			
	3SG	sal-e	salg-a		3SG	mid-e	mid-a		3SG	sab-e	sep-a			
i) Spanish <i>salir</i> 'exit'					ii) Spanish medir 'measure'					iii) Spanish <i>saber</i> 'know'				

5.2 Is it exclusively morphological?

5.2.1 Independence of phonology

A formal identity can be the result of a synchronic phonological process, can correlate with a phonological property or can be independent of phonology.

5.2.2 Independence of (morpho)syntax

The extent to which a formative correlates to a feature value depends on the assumed feature structure and the number of steps (blockings, rules of referal etc.) needed to reach a morphosyntactically natural distribution. A gradient dimension:

A distinction has to be drawn between so-called (Round 2013) 'rhizomorphomes' (i.e. inflection classes), 'metamorphomes' (i.e. sets of paradigm cells) and 'meromorphomes' (i.e. the actual formal exponents).

(Mero)morphome: a formal element with an unnatural yet systematic morphosyntactic distribution.

A canonical (mero)morphome is a 'piece of form' which:

i) constitutes a morphological single object.

ii) has a distribution which is at odds with other components of language: semantics, syntax and phonology.

iii) has a distribution which is not accidental (i.e. is not the result of simple homophony) and has grammatical import.

Two examples:

	SG	PL
1EXC	seð	sieti
1INC	-	seð
2	sieti	sieti
3FEM	sieti	seð
3MASC	seð	seð



		•			•											
	SG	DU	PL		SG	DU	PL			SG	PL		SG	DU	PL	
1	mon	muäna	mij	1	fecemin	fecohul	fecomun		1	was	were	1	-onji	-ontae	-ontc	one
2	ton	tuäna	tij	2	fecem	fecebil	fecebil		2	were	were	2	-onji	-onji	-ont i	fi
3	son	suäna	sij	3	feceb	fecebil	fecebil		3	was	were	3	-i	-onji	-ont i	fi
Skolt Saami pronouns Amele 'see' perf. sw.							English 'were' Wojokeso s.s.									
(Feist 2011:251)				(Roberts 1987)				(West 1973:10)								

5.2.3 Independence of semantics

Morphosyntactically unitary objects like Latin ablative or Spanish imperfect may have semantically unrelated uses.

5.3 ls it systematic?

5.3.1 Phonological size: number and type of segments of the formative.5.3.2 Morphosyntactic size: number of cells/morphosyntactic contexts.5.3.3 Allomorphy and morphophonology: coextensivity with other forms.

6.Measures of morphomicity

6.1 Internal morphosyntactic coherence (Esher 2014): average similarity of feature values between two cells within the morphome, e.g. L-Morphome = 46%

6.2 External morphosyntactic coherence (Bank & Trommer 2012): Given a certain meaning hypothesis, fraction of cells correctly predicted. Depends on number of false positives/false negatives. E.g. L-Morphome, meaning PRES.SUB, 6/7 = 86%

Subject agreement of 'walk' in Dhaasanac (Baerman et al. 2005:106 after Tosco 2001)

Metamorphomes (e.g. L- or N-morphome of Romance) are grammatical abstractions on the basis of meromorphomes which have identical paradigmatic distributions. Most of this applies to them as well.

8.References

Aronoff, Mark. 1994. Morphology by Itself: stems and inflectional classes. Boston: MIT Press.

Baerman, Matthew; Dunstan Brown; and Greville G. Corbett. 2005. The syntax-morphology interface: A study of syncretism. Cambridge: Cambridge University Press.

Bank, Sebastian & Jochen Trommer. 2012. Paradigm learning and subanalysis complexity. Proceedings of the 48th Annual Meeting of the Chicago Linguistic Society.

Bermúdez-Otero, Ricardo (Ed). 2016. The Morphome Debate. Oxford: Oxford University Press.

Corbett, Greville G. 2005. The canonical approach in typology. Linguistic diversity and language theories: 25-49.

Esher, Louise. 2014. Autonomous morphology and extramorphological coherence. Morphology 24.4: 325-350.

Feist, Timothy Richard. 2011. A grammar of Skolt Saami. PhD Dissertation.

Haiman, John. 1980. Hua, a Papuan language of the Eastern highlands of New Guinea. Amsterdam: John Benjamins.

Roberts, John R. 1987. Amele. London: Croom Helm.

Round, Erich R. 2013. Rhizomorphomes, meromorphomes, and metamorphomes. In Matthew Baerman, Dunstan Brown & Greville Corbett (Eds.), Understanding and Measuring Morphological Complexity. 29-52. Oxford: Oxford University Press.

Stump, Gregory. 2016. Inflectional Paradigms: content and form at the syntax-morphology interface. Cambridge: Cambridge University Press.

Tosco, Mauro. 2001. The Dhaasanac Language. Cologne: Rüdiger Köppe.

West, Dorothy. 1973. Wojokeso sentence, paragraph and discourse analysis. Department of Linguistics, Research School of Pacific Studies, The Australian National University.

7.Conclusion

Clarity (quantification?) in what counts as morphomic and how, and in what variation we can find is needed before exploring their theoretical implications.