

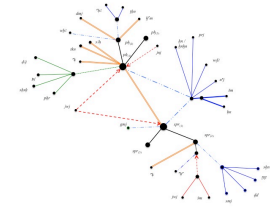
Semantic maps

Questions ... and some possible answers
from an outsider

Jean Winand (Liège)

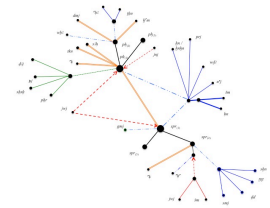
Opening address

**Semantic maps:
Where do we stand and where are we going?**



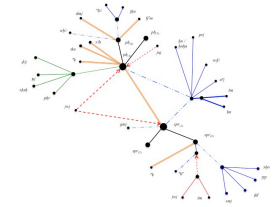
Historically, semantic maps

- deal with morphs,
- are synchronic,
- are typologically oriented, i.e. based upon inter-linguistic comparisons,
- are a tool for presenting results.



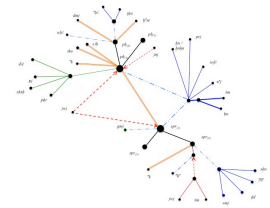
As Egyptologist, I feel deeply concerned by the following issues:

1. how the corpus is constituted (a recurrent question in typology, but also in comparative linguistics);
2. how to use semantic maps with an open lexicon (not only morphs);
3. how to integrate dynamicity, or at least some kind of temporal vectoriality;
4. are semantic maps tailored for the (fine-grained) study of one single language?
5. how to integrate semantic maps into a larger project, to be more precise, how to plug semantic maps in a dictionary ?



1. The corpus

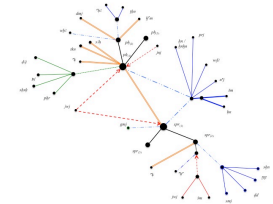
- the validity of the data (informants, thesauri, existing dictionaries)
 - specific questions for dead languages, more specifically isolated dead languages with a broken tradition, like Ancient Egyptian;
 - linguistics with(out) philology?
- selected examples, samples of examples, or (quasi-)exhaustiveness?
- corpus that allows statistical approaches?



2. Close or open vocabulary?

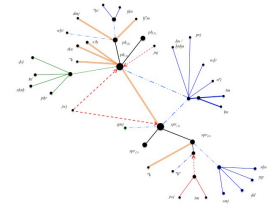
- Semantic maps were first used to treat grams (negations, modal operators), and connectors, like prepositions.
- They gradually opened up to open lexical lists.
 - This is what I am interested in,
 - with a first low-scale project on the verbs of cognition (Winand 2015),
 - and a more ambitious project (still in progress) on the verbs of motion in Late Egyptian, (350+ different lexemes representing roughly 10.000 tokens).
- Two different perspectives:
 - The top-down approach (esp. for grams and morphs),
 - The bottom-up approach (for open vocabulary, even if some preliminary general ideas are inevitable, and necessary)
 - This once more highlights the relevance of a sound philological study

3. Dynamicity (diachrony)

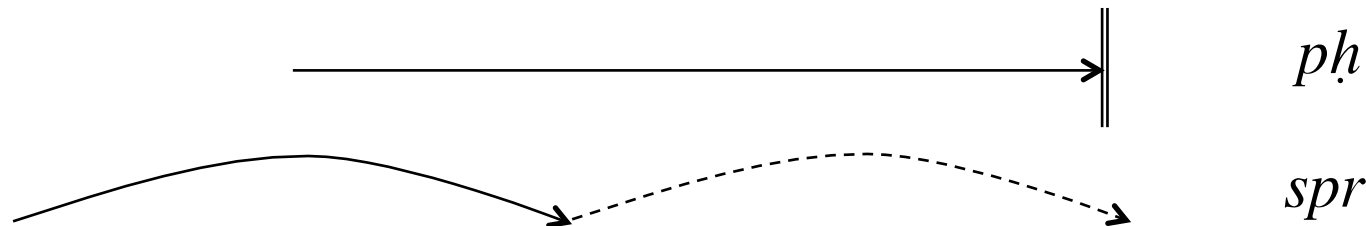


- There is (almost) nothing that could be really called a synchronic stage in any linguistic study of Ancient Egyptian.
- Diachrony amounts to reconstructing vectorialities leading from one stage to the next one. This comes with a lot of questions:
 - how to explain the semantic processes at work (restriction or extension of meaning, metaphorical or metonymic uses, etc.)? do we need to do so?
 - how to assess the productivity of a connection: is it central or peripheral in the history of the language?
 - This last question brings with it the issue of the quantitative analysis of the data
 - For the dead languages,
 - it largely depends on how the corpus has come down to us,
 - how well it is distributed according to different criteria (date, provenance, textual genres, etc.).
 - For modern languages, it depends
 - on how fine-grained the (now largely electronic) thesauri one relies on are analyzed.
 - For exotic languages, the quality of the informants, the validity of the dictionaries must be relentlessly questioned.

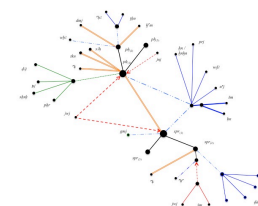
4. One or several languages?



- Semantic maps were first intended to compare several languages. Interesting results have however been achieved by comparing two genetically related languages.
- The decisive criterion is of course comparison. But comparing between what?
 - One can deal with lexemes, or rather lexical units, involved in any semantic domain (parasynonyms)
 - That was the aim of the contrastive study of two semantically very close Egyptian verbs, *ph* and *spr*, both meaning “to reach”, but from two different perspectives;



- It is also possible to compare different synchronic stages for one single semantic domain:
 - that was a significant part in the study on verbs of cognition in Earlier Egyptian, embracing more than one millennium of data.

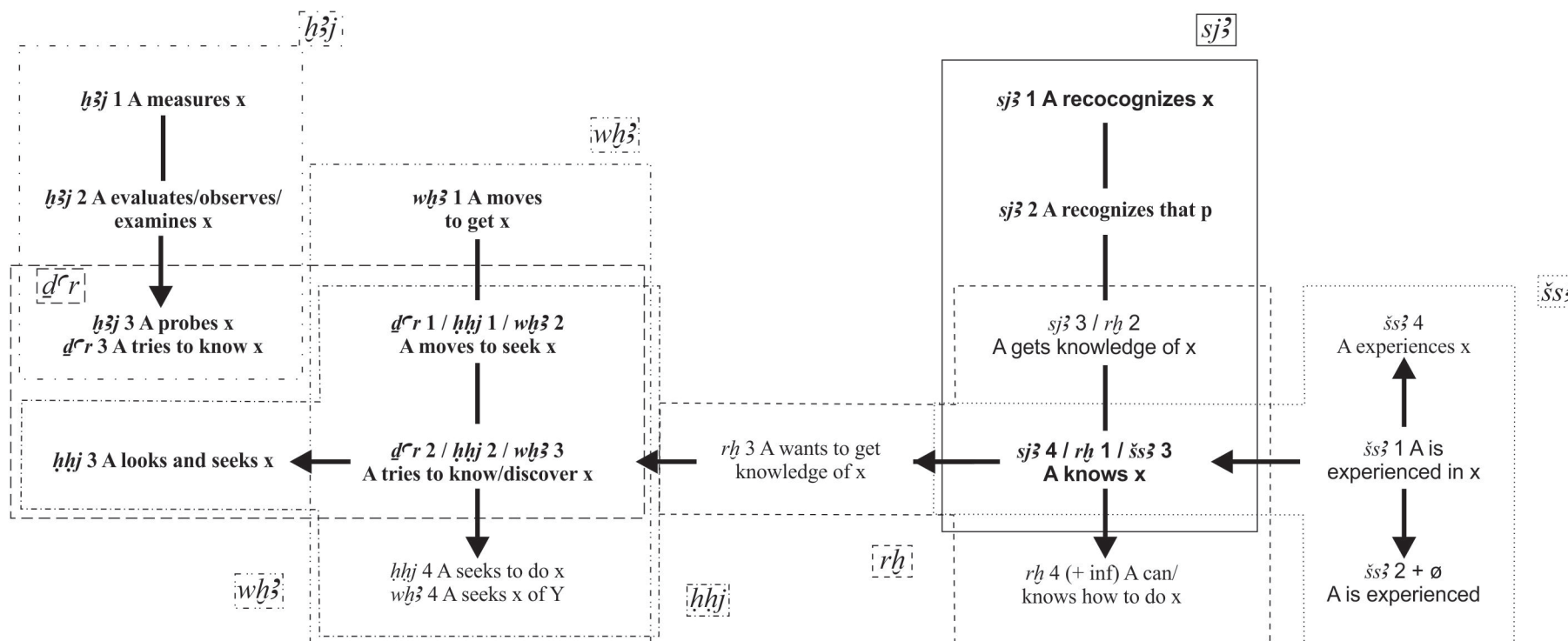


resultative achieved

achieved

achieved / unachieved

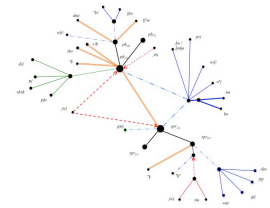
unachieved

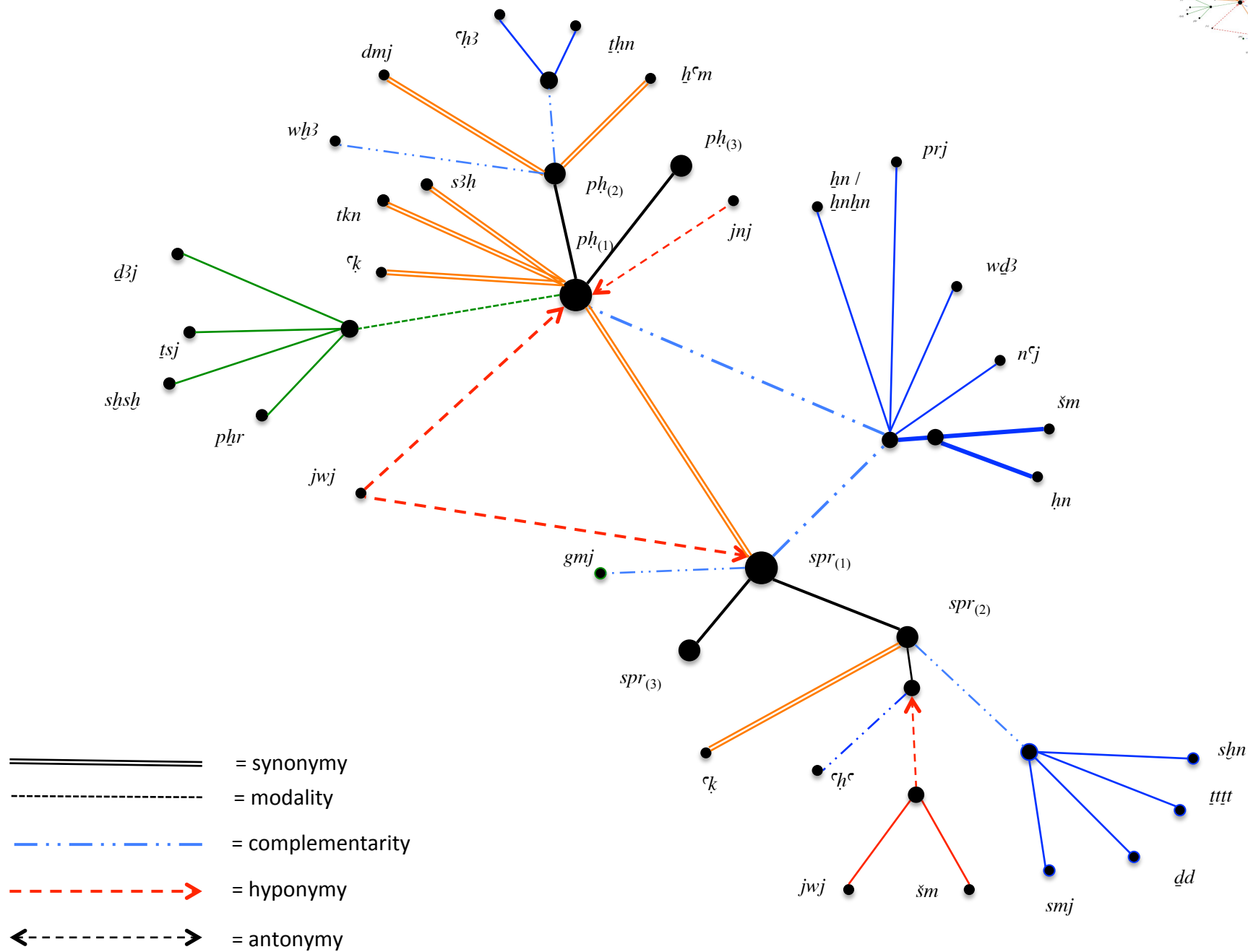
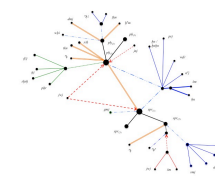


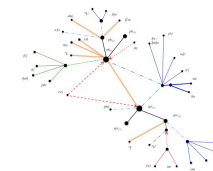
J. WINAND, *The Syntax-Semantics Interface in Earlier Egyptian: a Case Study in Verbs of Cognition*, dans J. Allen, M. Collier & A. Stauder (éd.), *Coping with Obscurity: the Brown Workshop on Earlier Egyptian Grammar*, Atlanta [*Wilbour Studies in Egyptology and Assyriology*, 4], 2015, p. 109-139

5. Semantic maps: a stand-alone, autonomous product, or a part of a larger project?

- an insightful manner of presenting results,
- a powerful tool for asking new questions,
- a possible interface for organizing dictionaries and lexica.







The graphic system of ancient Egyptian as a principled way of organizing the lexicon

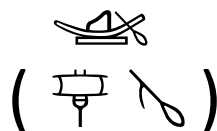
The system of the semantic classifiers



moving legs



moving legs (backwards)

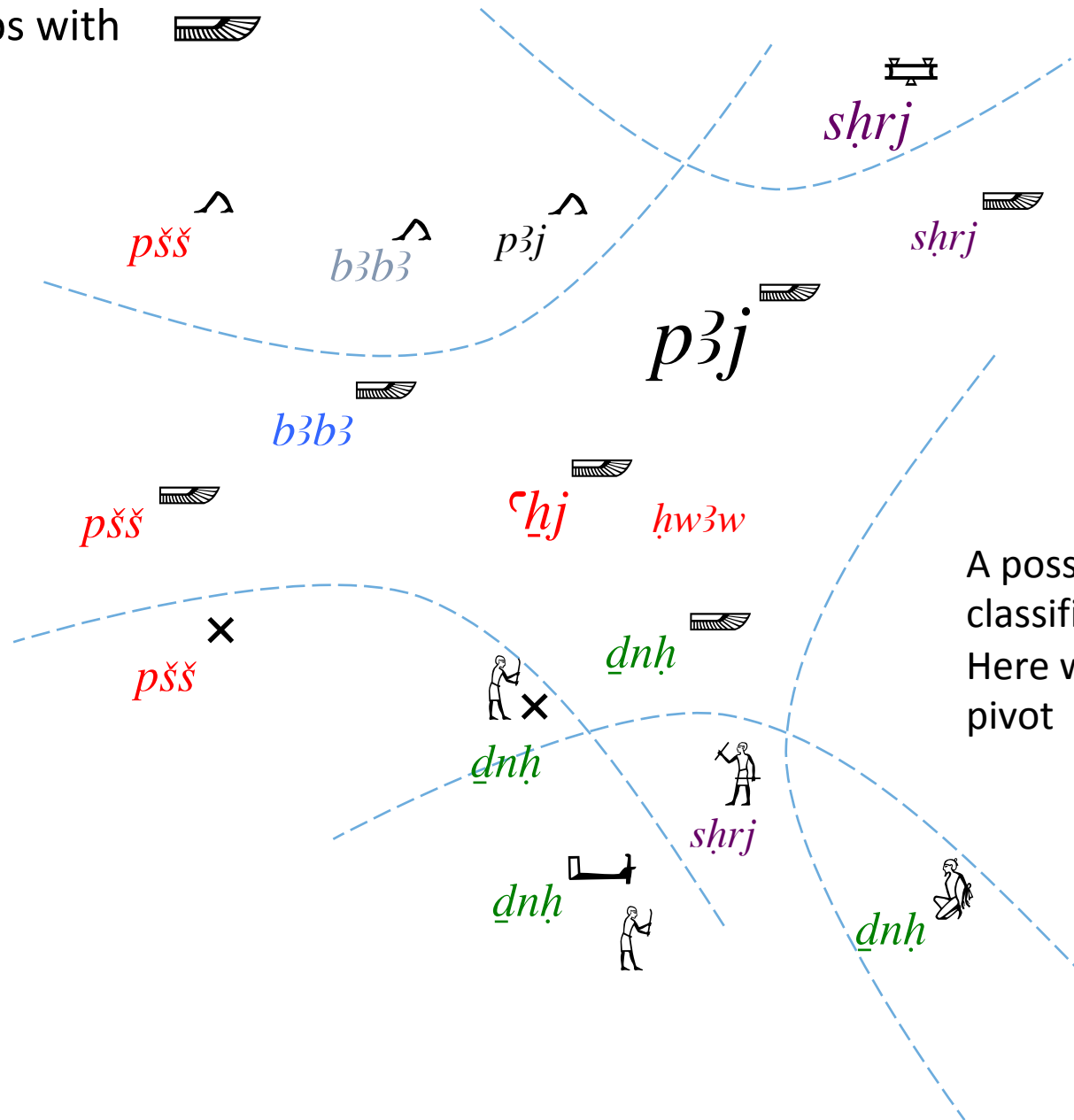
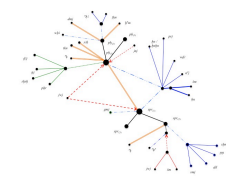


navigating (boat, sail, oar)



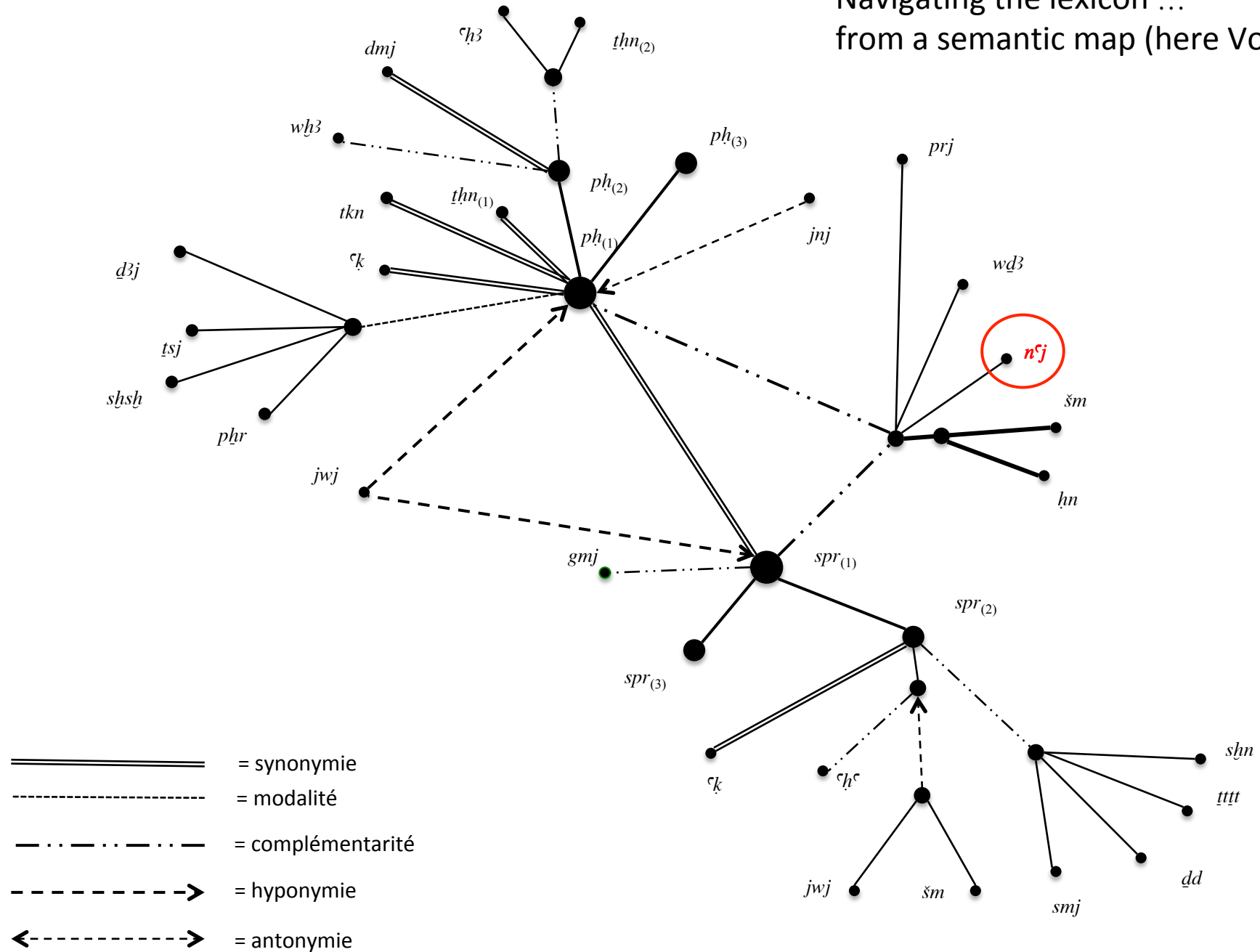
flying

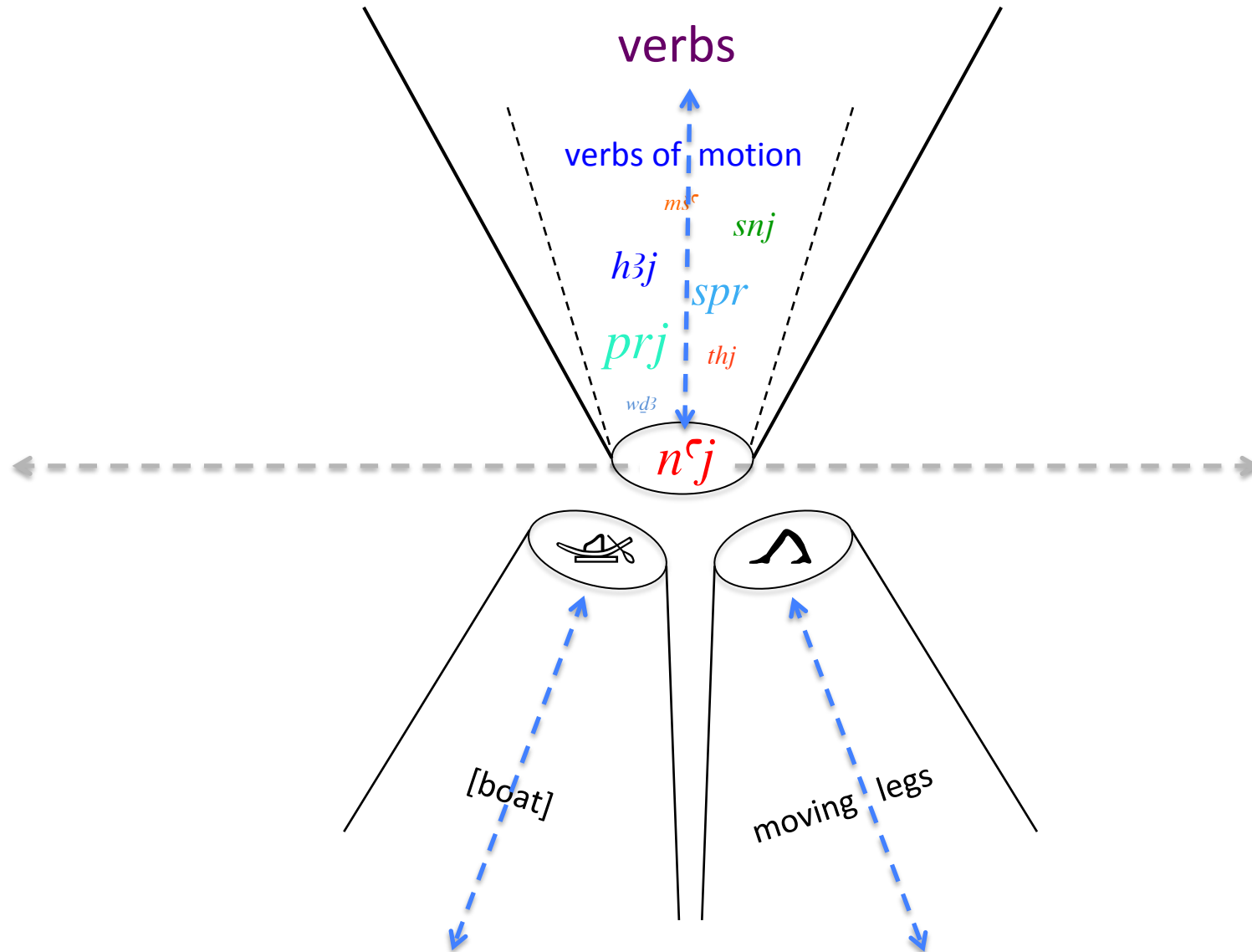
verbs with 



A possible semantic map of for classifiers ?
Here with the wing classifier as pivot

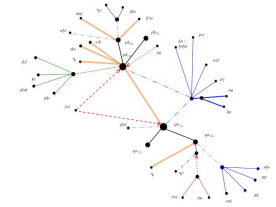
Navigating the lexicon ...
from a semantic map (here VoM) ...





Navigating the lexicon ...
to a general database of Egyptian words

6. By way of conclusion



Who should be involved?

- specialists of a (several) linguistic domain(s), with a sound philological experience
- linguists interested in modelling (typologists, comparatists, cognitivists)
- IT-guys

