

Metaphorical Uses of Cardinal Directions in Traditional Bedouin Arabic Dialects

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The creative force of linguistic diversity multilingualism

The Creative Power of Metaphor

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1. METAPHORS IN LANGUAGE AND COGNITION After Lakoff and Johnson's Metaphors We Live By (1980), and the subsequent development of the Conceptual Metaphor Theory (CMT, Lakoff, 1987), the importance of metaphorical awareness was also acknowledged in the fields of translation and language acquisition (Block, 1992; Cortazzi and Jin, 1999; Thornbury, 1992). Indeed, metaphors vary greatly across languages, as languages are embedded in different sociocultural and geographic milieus (Bolognesi, 2015; Kohl, 2010; Littlemore and Low, 2006). In particular, semantic domains eligible as sources of metaphorical expressions seem to differ across languages and cultures (Boers, 2009). From the perspective of traditional CMT, when we say 'the country grows,' we map our knowledge of 'growth' onto the concept of 'country.' Other approaches propose that source and target domains associated with the metaphor create new mental spaces ('Blending Theory', Fauconnier and Turner, 2002; Bichisecchi and Bolognesi, 2014). Recent studies demonstrate how metaphors are expressed beyond language, in cognitive representations such as gestures (Boroditsky and Ramscar, 2002; Casasanto, 2009). 2. SPACE AS SOURCE DOMAIN FOR METAPHORICAL EXTENSIONS A constant cross-linguistic element seems to be the primacy of the spatial domain as an empirical source of metaphorical extensions into more abstract domains: time, causality, concession, and ethic and esthetic values in both linguistic and cognitive representations (Boroditsky, 2000; Gießner, S.R., Schubert, T.W., 2007; Tversky, B., Kugelmass, S., Winter, A., 1991; Verheyen, S., Stukken, L., De Deyne, S., Dry, M.J., Storms, G., 2011; Yoshida and Smith, 2003).

The Linguistic and Cognitive 'Space-to-Time' Hypothesis Since in many Spatial Metaphors Represent Ethical and Esthetic Values The association languages, the same lexicon, prepositions, adverbs, and frames of reference serve in of spatial axial polarities to positivity/ negativity in ethic values, power, both the spatial and temporal domains, the human metaphorical understanding of spiritual, and physical primacy and esthetic canons has been recognized as a time in terms of space is considered an obvious phenomenon (Boroditsky, Fuhrman trans-cultural attitude (Meier, B.P. et al., 2007; Torralbo, A., Santiago, J., & McCormick, 2011). "Across cultures, people use spatial representations for time: Lupiáñez J., 2006). The way people represent value oppositions differs across graphs, time-lines, clocks, sundials, hourglasses, calendars, etc. In language, time is languages and cultures depending on the available spatial representations, also closely tied to space, with spatial terms often used to describe the order and dominating spatial and cognition. The vertical axis is connected to spiritual duration of events. In English, we move the meeting forward, push deadlines back, values, while the right/left axis is associated with human morality. 3. attend a long concert or go on a short break. People make spatial gestures when METAPHORICAL EXTENSIONS OF CARDINAL DIRECTIONS INTO talking about time, and spontaneously invoke spatial representations when **DIFFERENT CONCEPTUAL DOMAINS** Boroditsky and Gaby (2010) processing temporal language" (Majid, Gaby, Boroditsky, 2013). People who speak found that speakers of Australian languages, using only astronomical spatial different languages and are from cultures differ in linguistic and cognitive selection representations, represent time along the east/west axis. Brown (2012) in terms of 1. the spatial axis along which they represent the temporal relation of discovered that in Tzeltal, using geo-centric spatial representations, the future anteriority/ posteriority ('before'/'after') - i.e., the horizontal (front/back, as in is uphill and the past is downhill. Cultural studies on South American, English; right/left; east/west), or the vertical (up/down, as in Mandarin) axes – and Australian, and Austronesian societies show that cardinal directions, used in 2. its orientation (left-to-right, right-to-left, front-to-back, back-to-front, east-to-daily linguistic and cognitive projective spatial representations on a small west, west-to-east, up-to-down, down-to-up) (Casasanto and Boroditsky, 2008). scale, dominate the organization of domestic, public, and religious spaces and From space to Causation and Concession Spatial prepositions are a source of activities (Brown, 2001; Le Guen, 2006), correlating with spiritual practices grammaticalization via metaphorical transfer for more abstract domains, including and values (Brown, 1984; Cardona, 1985; Dixon, 1899; Gaby, 2017; aim, exclusion, causation, and concession (Šarić, 2008). So, in Bedouin Arabic Levinson, 1998). dialects hatta, 'all the way to,' introduces final clauses and complements (Esseesy, 2010); Sugb, 'the rear part of the neck,' becomes 'behind'> 'after'> 'because of' (Kurpershoek, 1999; Musil, 1918); gafa, 'the nape,' becomes 'behind'> 'except' (Kurpershoek, 1999; Nishio, 1992); San, 'side,' means 'distant from' and acquires

several secondary meanings, including 'notwithstanding' (Cerqueglini, 2017).

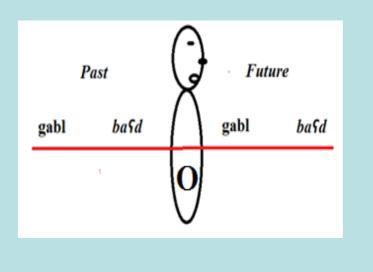
AIM OF THIS STUDY I analyze the use of cardinal directions in linguistic and cognitive spatial representations in Bedouin Arabic languages. I detect the use of cardinal directions in language and cognition in more abstract, domains, focusing on time. Eventually, I show how cardinal directions, the basic default system of spatial orientation in Bedouin Arabic languages, are used to metaphorically represent social, religious, ethical, and esthetic values, influencing domestic, ritual, and social spaces and material culture.

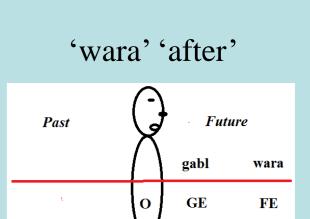
METHODOLOGY applied for elicitation of linguistic spatial FoRs and prepositions is described in Cerqueglini (2015). Elicitation of spatial cognitive data is based on the 180° rotation parameter in individual tasks of memory, path finding, pointing gestures, and map sketching (Levinson, 2003; Li and Gleitman, 2001). Elicitation of linguistic temporal representations is based on analysis of spontaneous speech, while cognitive representations are based on observation of pointing gestures and the application of stimuli in Boroditsky, Gaby, and Levinson (2008). In order to verify the hypothesized similarity between spatial and temporal representations, I apply FoR theory to temporal representations, treating these as projective spatial relations. Data were collected during fieldwork across southern Israel, Jordan and Egyptian Sinai, across different Bedouin Arabic types and several varieties of each type (Rosenberg, 1984). Literary and cultural data are based on direct observation and linguistic corpora of narrative, poetry, and spontaneous conversations (Al-Atamin, 2001; Bailey, 1991; Boris,

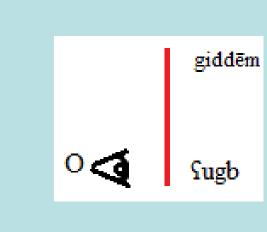
Temporal Linguistic FoRs in TAA

DEICTIC STRATEGY gabl 'before' | basd 'after'

NON DEICTIC STRATEGY gidde:m 'before' | Sugb 'after'

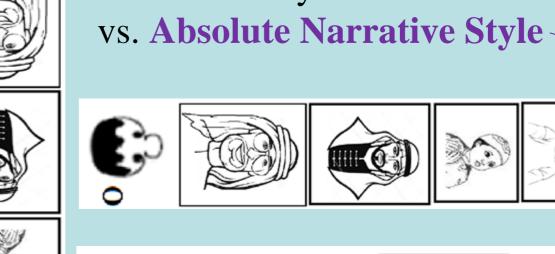


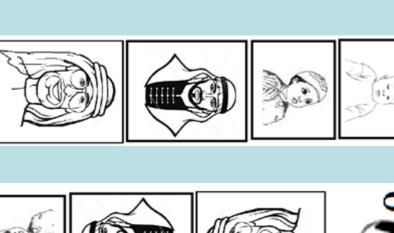




Temporal Cognitive FoRs in TAA Deictic by Reflection







Arabic sprachraum, from Iraq to western Africa, the primary cardinal direction and the first to lexicalize is

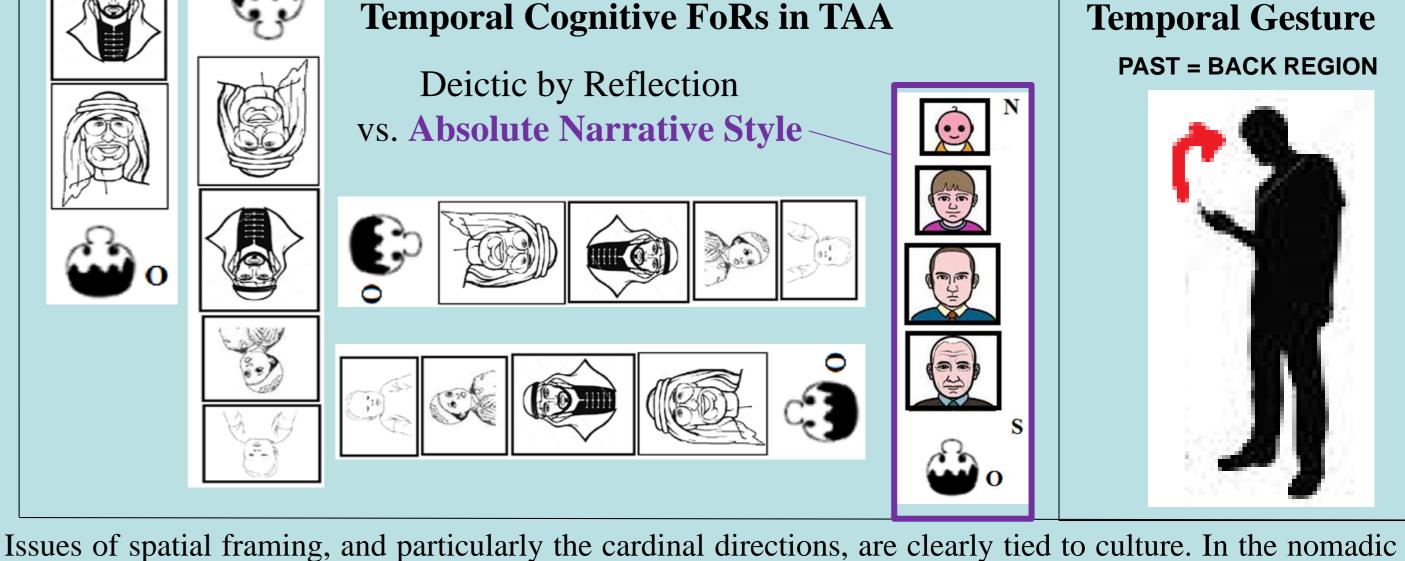
east, which, by virtue of the rising sun, associated with birth, freshness, and renewal. In the ancient Near

EAST-WEST AS TOTALITY The dual form of the noun mašriq 'eastern location,' al-mašriqa:ni, represents

'east and west,' and the binominal maša:riq al-ard wa-maga:ribuha 'the eastern locations of the earth and its

be represented by secondary, locally anchored strategies lexicalized as toponyms, or intrinsically anchored





ABSOLUTE FoR RELATIVE FOR INTRINSIC FoR -CULTURALLY CULTURALLY SALIENT Gs + CULTURALLY SALIENT + CULTURALLY FACED Key/ Computer/ CULTURALL Dinosaur/ Cow Man / Horse / Camel / Gs ON GEOGRAPHIC Carnivores / Tent / Knife / Stone / Tent Pole

Coffee Pot

In every position with respect to O

G-based Selection of Spatial FoRs in Language

SCALE City / Mountain n every position with respect to O FGO +/- LINED UP

Table A Stimulus

Absolute Spatial Cognition

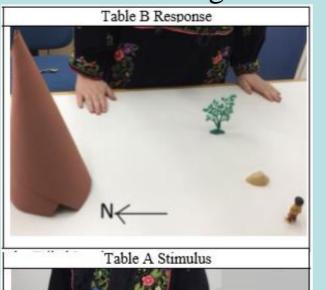
1958; Henkin, 2010; Cerqueglini, 2012-2018; Ingham, 1994; Kurpershoek, 1999-2015; Musil, 1918; Ritt Ben-Mimoun, 2011, 2014; Shawarbah, 2007, 2012).

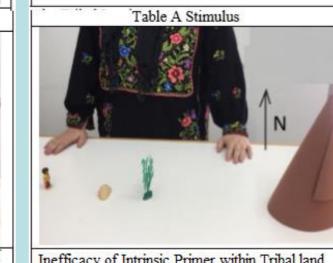
METAPHORICAL **SEMANTIC** LINGUISTIC TRANSFER: CARDINAL POLYFRAMING AND COGNITIVE ABSOLUTE REFERENTIAL MODULARITY Names for cardinal directions may be derived from different lexical sources, primarily from the daily course of the sun, but also from winds, the positions of stars, and landmarks, both natural and manmade (Brown, 1983). The number and distribution of lexicalization sources vary cross-linguistically. For example in Mauritania winds are a prominent source for compass orientation (Taine-Cheikh, 1991) Two semantically distinct types of Absolute FoR exist, depending on the type of fixed bearings they are anchored on. Type A is western locations' represents the entire world (Wehr, 1976). In contrast, north and south are more prone to anchored to the course of the sun, yielding the cardinal east-west opposition with its two cardinal directions, east and west (šarg to the human body as 'left' and 'right' or 'front' and 'back.' These are based on the position of the man and garb, respectively). Type B anchors to the typical direction of prominent local landmarks. A sun-based absolute cardinal direction of type A can acquire a local-based relative meaning of type B; in certain Egyptian varieties, migirre:b (from garb 'west') and miširre:g (from šarg 'east') mean not only 'towards the west' and 'towards the east,' respectively, but also 'to the district town and 'to the village center.' Human artifacts, such as cities, or large-scale landmarks like the sea or a mountain chain, come to designate cardinal directions; aš-ša:m 'Damascus; Syria' designates north (ša:m) south of the city. Similarly, dialectal reflexes of qiblah [giblah], literally, 'front,' designating the direction of Mecca, are used to mean 'south' in dialects north of Mecca (Behnstedt, Abu Mansur, and Woidich, 2011). In Egyptian dialects, bahr, 'sea' designates the north; in Yemeni dialects, Sadan, the direction of Aden, indicates south. Cardinal directions may be designated via the body-centered front-back and right-left axes. 'Left' and 'north are manifested in Arabic in the root š.m.l; similarly prominent is 'front when facing Mecca', giblih. These uses of 'front,' 'back, 'right,' and 'left' depend on the Absolute anchoring. In parts of Sinai, north is wara, 'behind', being obscured by mountains, while south is gidda:m 'in front,' where the horizon is visible (Behnstedt, Abu Mansur, and Woidich, 2011). Due to multiple anchoring strategies, the polysemy of cardinal directions is a meaningful aspect of the ability to shift among different kinds of bearings, what I call here Absolute Referential Modularity, typical of many Absolute-framing languages. ARM shows shared features worldwide. When a direction is multiply anchored in a language, this ambivalence may disappear when the speakers leave the home space; Tzeltal 'uphill' also means 'south,' being astronomically and geo-morphologically oriented. Outside his land, should the Tzeltal speaker find that the uphill direction does not coincide with 'south,' he will continue to use 'uphill' meaning 'south' only, showing that the astronomical value prevails. The same happens in Bali, where 'mountainward' (secondarily 'north') and 'seaward' (secondarily 'south') are used in their astronomical sense for orientation and speaking outside the island. Outside the Bedouin world, 'east'/'west' lose landmark-based semantics, so šarg/šarrag and ġarb/ġarrab are used only in the astronomical sense, without secondary reference to desert, cultivated land, and coastal cities, and an up/down axis based on the familiar geomorphic slopes. ARM and lexical polysemy of cardinal directions terms are often based on the physical, embodied experience of directions associated with the conditions of the terrain in familiar landscapes. Indeed, task-specific TAA responses to linguistic and cognitive experiments demonstrate that informants behave differently within and outside of the tribal lands. Just as in Tenejapa (Brown and Levinson, 1993) and North-Balinese (Wassman and Dasen, 1998), all the cases where the landmark-based anchoring and the

astronomical anchoring conflict are avoided in favor of the latter. Orientation of Array and Participants Array Shown on Screen Question and Answer I: wīn al-burrād min az-zalamah? O: al-burrād fi-jālih al-ģarbiy. I: where is the coffee pot in relation to the Mountains, Computer Screen, and

Anchoring System of Cardinal Directions

O: the coffee pot is on his western side.





facing in the direction of prayer, towards Mecca (Behnstedt, Abu Mansur, and Woidich, 2011). Therefore, the north-south axis is clearly secondary. al-hagg— xalla:-h rabb-na fi-**j-jarg** the-justice— created-it Lord-our in-the-east and the-west

'Our Lord created justice in the east and the west.' (Bailey 2004: 245 no. 690)

East it was the locus of sun worship. Next is west, as the other pole of this axis.

alliy yarrab yarrab walliy farrag farrag 'He who has gone west has gone west and he who has gone east has gone east.'

ESTHETIC AND ETHICAL VALUES

fi fr**a f-farg** gatfin min zahar fi fr**al-gibla** nagfin min hajar fi fr**al-yarb** fattin min ba far

'Poetry from the east is like a bouquet of flowers. Poetry from the south is like carvings in stone. Poetry from the west is like crumbs of camel dung. (Bailey 2004:109 no. 262)

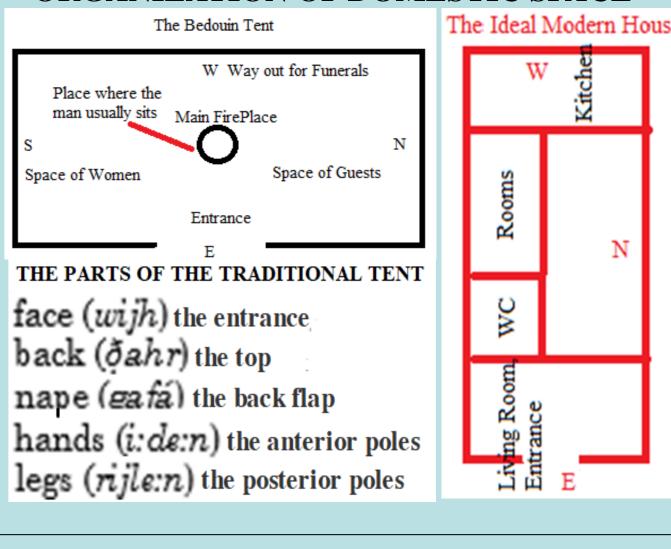
stranger the Shām and the Yemen

the stranger stranger the grave and the shroud 'A person isn't gone when he's in Shām or the Yemen; A person's gone in the grave and the shroud.' (Bailey 2004:84 no. 180)

ORGANIZATION OF DOMESTIC SPACE

W Way out for Funerals

THE PARTS OF THE TRADITIONAL TENT face (wijh) the entrance back (đahr) the top nape (eafá) the back flap hands (i:de:n) the anterior poles



CONCLUSIONS In Bedouin Arabic languages, the default perspective relies on cardinal directions. These terms are highly polysemic, as they can be associated with different anchoring systems. This process takes place in language and cognition (ARM). In temporal cognition, cardinal directions are used to avoid deictic implications in a sequence of events. Cardinal directions express ethical and esthetic values in old poetry and a linear archaic world conception, where east includes south and west north, east-south being Bedouin space and west-north the foreign land. Cardinal directions determine the organization of the house.

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