A Metaphor of Static Temporal “Location” in Wolof and English: Metonymy, Motivation, and Morphosyntax

KEVIN EZRA MOORE
San José State University

0.1. Introduction
This paper continues a trend of research that examines the precise conceptual claims made by theories of space-to-time metaphors (e.g. Clark 1973, Engberg-Pedersen 1999, Lakoff & Johnson 1980, Matlock et al. 2005, Moore 2004, 2006; Núñez & Sweetser 2006, Traugott 1975). It will begin by discussing the exact mapping and experiential basis involved in the static temporal metaphor instantiated by expressions like *It gets hot in October*, offering an alternative to the account found in Lakoff & Johnson 1999. Then the discussion will turn to the relations between metaphor, metonymy, and grammar in Wolof (Niger-Congo, Senegal). Wolof seems to use a metaphor of static temporal location in contexts where English would not, as in (1) below, and this is plausibly related to a generally greater use of locative morphosyntax in Wolof than English. (A literal translation of the example is given in double quotes under the Wolof data, followed by a more idiomatic translation in single quotes.)

* I would like to thank Paap Alassane Sow (“APS”) for Wolof data and guidance.
1 Following is a list of abbreviations used in this paper: 1 ‘first person’ (etc.); AND ‘andative’; att. ‘attested in use’; AV ‘altered valence’; CAUS ‘causative’; COND ‘conditional’; DEF ‘definite’; DIST ‘distal’; FOC ‘focus’; GEN ‘genitive’; IMPF ‘imperfective’; INDEF ‘indefinite’; LOC ‘locative’; LOCPREP ‘locative preposition’; MID ‘middle voice’; NEG ‘negation’; OBJ ‘object’; PD ‘possessed’; PERF ‘perfect’; PL ‘plural’; PRSNTTV ‘presentative’; REL ‘relativizer’; SBJT ‘subject’; SFOT ‘sentence focus’; VC ‘verbal complement’ (a morpheme that marks a construction in which the following verb is a complement of the preceding one).
“Dawn didn’t find Musaa in the room, but before it evened out, he reached in here to enter the room to the point of getting on the way to the fields.”

‘Musaa wasn’t in the room when dawn broke, but before it ran its course he managed to enter the room and then start off to work.’

[APS. Constructed] (Moore 2000)

Scholars sometimes speak of a metaphor called TIME IS SPACE (e.g. Fauconnier & Turner 2008). Stated in this way, the metaphor is a very broad generalization in need of further specification. Does it mean that anything spatial maps onto anything temporal? In this paper I will try to take a step towards understanding how spatial concepts map onto temporal concepts by looking at a specific space-to-time mapping and its presumed motivation.

0.2. Background: Metaphors That Construe Time as Space

There is an extensive tradition of research on metaphors that construe “when” relations as “where” relations (see above references). Most of this research has focused the Moving Ego and Moving Time metaphors. The Moving Ego metaphor (i.e. “Moving Observer” in Lakoff & Johnson 1999) construes the experiencer of time (“ego”) as moving forward, and the times themselves as locations relative to which ego moves (Boroditsky 2000; Clark 1973; Fillmore 1997[1971]; Lakoff & Johnson 1980; Moore 2000, 2006; Núñez & Sweetser 2006; etc.). Here are some linguistic expressions that instantiate Moving Ego: Venezuela is headed for a major political crisis in the months ahead. [S.F. Bay Guardian; 4 Aug 99, p. 29]. Let’s set up a time to meet when we get a little farther down the road. The Moving Time metaphor construes ego as stationary and times as moving relative to her (see above references). Here are some examples: The time has come/ arrived/ passed. By now Mrs. Thompson realized the problem, but Christmas was coming fast.

1.1. Beyond Moving Ego and Moving Time

In previous work on temporal metaphor, Lakoff & Johnson (1999:153) have proposed that “…[E]vents viewed as being instantaneous or as single unextended entities are conceptualized via that part of the Moving Observer [i.e. Moving Ego] metaphor that conceptualizes time as being located at time locations, as in a sentence like [2a]” [italics in original]. Lakoff & Johnson cite the examples in (2) below.
(2) a. The execution occurred at 10:06 p.m. [Ibid:153]
    b. She arrived on time. He left at 10 o’clock. [Ibid:146]

Lakoff & Johnson’s proposal is appealing because there is an abundance of data that clearly point to the existence of the Moving Ego metaphor, and the account of its experiential basis is solid (see below, and e.g. Clark 1973; Lakoff & Johnson 1999 Chapter 10). However, I would like to claim that since expressions such as those in (2) do not involve either a particular point of view or metaphorical movement, a metaphor that does not require movement or a particular point of view would be better motivated by the data. What the expressions in (2) provide evidence for is simply a metaphor in which places map onto times (cf. Grady 1997, Moore 2006).

As an alternative I propose that a metaphor called A TIME IS A PLACE predicts the semantics and syntax of expressions such as those in (2) better than Moving Ego does, if we assume a relatively direct correspondence between source frame, target frame, and linguistic coding. The mapping of A TIME IS A PLACE is summarized in (3) below.

(3) The Mapping for A TIME IS A PLACE

<table>
<thead>
<tr>
<th>SOURCE FRAME/DOMAIN</th>
<th>TARGET FRAME/DOMAIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A physical entity.</td>
<td>An event or state.</td>
</tr>
<tr>
<td>A place.</td>
<td>A time.</td>
</tr>
<tr>
<td>Different places</td>
<td>Different times.</td>
</tr>
<tr>
<td>Being at a place.</td>
<td>Occurring/obtaining (partially) simultaneously with a time.</td>
</tr>
</tbody>
</table>

Data that instantiate A TIME IS A PLACE are also available in Wolof, showing that this metaphor is not restricted to a particular language or language family:

(4) Dugub, ci lolli lay ñor.
    guinea.corn LOCPREP lolli NONSBJT.FOC.3:IMPF be/get.ripe
    ‘Guinea corn, it gets ripe in lolli.’ (Lolli is a season.) [s XW, Ba:62]

Taking it as established that A TIME IS A PLACE motivates data such as those in (2) and (4) better than Moving Ego does, what remains is to show that A TIME IS A PLACE has a plausible experiential basis.

1.2. The Experiential Basis of A TIME IS A PLACE

One of the central ideas in the theory of conceptual metaphor is experiential basis (Lakoff & Johnson 1980:19). The experiential basis of a metaphor is an experi-

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2 I speak of frames instead of domains (see Moore 2006), but the difference is not crucial here.

3 The lowercase s included in the bracketed notation below examples means that the speaker is a male from rural Saloum (Senegal) and that the example is not constructed.
ence in which the source-frame and target-frame concepts of the metaphor correlate in experience. For example, as discussed in Lakoff & Johnson (1999:152) (see Sweetser 1988), Moving Ego is motivated by experiences in which a future event is expected to occur at a location towards which ego is moving, and at which she expects to arrive. Evidence for the salience of this correlation comes from metonymic linguistic expressions that simultaneously refer to both the spatial and the temporal concepts that are relevant to the metaphor (cf. Norvig 1988). An example of such an expression would be *There is trouble ahead*, said in a context in which it means both that there is trouble farther in ego’s (spatial) direction of travel and that there is trouble in ego’s future.

The correlation that motivates *A TIME IS A PLACE* obtains between the time of an event and the place at which it happens. Evidence for the salience of such a correlation comes from examples such as the following Wolof sentence and its English translation, each of which has the relevant spatial and temporal meanings.

(5) \[\text{Foo ko fekk mu ne-xulaas.}\]
\[\text{where:you 3.OBJ become.co-located.with 3.SBJT be.drunk.as.a.skunk}\]
\[\text{‘Where[ever] you met him he was drunk as a skunk.’}\]
\[\text{‘He was always drunk as a skunk.’ [Cissé 1994:36]}\] (Moore 2000)

In example (5) above, there is a metonymic inference from places at which the person was drunk to times when he was drunk. The metonymy — *A PLACE FOR A TIME* — is evidence for a salient correlation between the times when and places where events occur. It is similarly involved in the next example from English, in which the locative expression *where* is used to refer to an event, viz. a party.

(6) \[\text{When the summer boarders and the Northern visitors undertake to give one, it is a comparatively staid affair, where due regard is had for one’s wearing apparel, and where there are servants to do the hardest.}\]
\[\text{[Dunbar 1899]}\]

Similarly, the locative expression *at* can be used to talk about a meeting in a context in which *meeting* refers to both the place where and the time when a person spoke.

(7) \[\text{She spoke at two successive meetings.}\]

Finally, in (8) below, the expression *everywhere* refers to the different settings at which events of talking happened. (This may not be a good example of metonymy, but it does show that a place-time correlation is salient.)
A Static Temporal Metaphor in Wolof and English

(8) ... Everywhere .. we’ve been,... in the past several years,.. everybody’s talking about how,.. (H) the weather just .. isn’t .. normal. [Santa Barbara Corpus of Spoken English. File 003, beginning at 507.66. Transcription conventions: (H) ‘inhalation’; … ‘medium pause’; .. ‘short pause’.]

We have seen from the examples in this section (Section 1) that the metaphor A TIME IS A PLACE can construe a time as a place independently of motion or ego’s point of view. This is evidence that A TIME IS A PLACE exists independently of Moving Ego. However, the two metaphors are fully consistent with one another, as discussed in Lakoff & Johnson (1999), and in many if not most cases A TIME IS A PLACE involves ego’s point of view. In the remainder of the paper we will investigate the instantiation in Wolof of A TIME IS A PLACE and the related metonymy A PLACE FOR A TIME.

2. Language-specific Phenomena in Wolof

2.1. Bound Morphemes Relevant to Location in Wolof

Before discussing the metaphor and metonymy data from Wolof, it is appropriate to look briefly at some of the morphology that plays a role in the data. The table in (9) displays bound morphemes in Wolof that are relevant to location (Sauvageot 1965).

(9) Bound Morphemes in Wolof that are Relevant to Location

<table>
<thead>
<tr>
<th>Morpheme</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>f-</td>
<td>location</td>
</tr>
<tr>
<td>-i</td>
<td>proximal deixis (semantically unmarked relative to distal deixis)</td>
</tr>
<tr>
<td>-a</td>
<td>distal deixis</td>
</tr>
<tr>
<td>-u</td>
<td>deictically undetermined</td>
</tr>
<tr>
<td>-e(e)</td>
<td>This is a general argument-adding suffix. I gloss it LOC where locative arguments are added. Otherwise I gloss it AV for altered valence.</td>
</tr>
<tr>
<td>-(j)i</td>
<td>The action of the verb is done away from the deictic center; i.e., andative</td>
</tr>
</tbody>
</table>

Before proceeding, it should be pointed out that temporal concepts can be talked about in Wolof without the use of locational morphosyntax, as in the following example:

(10) ... nekk-oon fi bi lii di am .... be.located-PAST here when this IMPF happen ‘...was here when this was happening. [Jenq 1992:39]

In example (10), fi ‘here’ has a purely spatial meaning, and the notion ‘when’ is expressed with bi, which is not a locational morpheme (though b- does mark the most general “thing” noun class).
2.2. The metaphor A TIME IS A PLACE in Wolof

Although Wolof and English both have A TIME IS A PLACE, some Wolof constructions that instantiate this metaphor do not have equivalent metaphorical expressions in English. Thus the metaphor appears to be more productive in Wolof. For a metaphor to be more productive than another is to occur in more contexts (i.e. occur more freely; cf. Aronoff and Fudeman 2005:241). After looking at the metaphor data we will go on to study the metonymy A PLACE FOR A TIME, which provides evidence for the experiential basis of the metaphor.

In (11) below, the time during which Mben was cooking dinner is referred to in explicit spatial terms and then repeatedly indexed with locative fi throughout the sentence. The underlined locative expressions in (11) are all used metaphorically in that they refer to a time and not a place.

(11) Diggante fi mu taal-e reer ak fi mu noppeg, between where 3.SBJT light-LOC dinner and where 3.SBJT finish:LOC
Mbeen toj na fi leket, duma fi doom ji,
Mben smash PERF.3 here gourd slap here child the,
dëgg fi fib cuuj ba mu dee.
step.on here:INDEF chick to.the.point.of 3.SBJT dead

“Between where she started dinner and where she finished, Mben smashed a gourd here, slapped her child here, and stomped a chick to death here.”

In example (1) at the beginning of the paper, the brief period of time in which Musaa entered and exited the room is indexed as fi ‘here’. (The form is fee in the example because the -i of fi has coalesced with the following a ‘VC’; i.e., fee = fi+a.) In (12) below, the period of time during which the tea got cold is referred to as fi ‘here’. According to my consultant, Mr. Sow (who uttered the sentence spontaneously), fi has temporal and not spatial reference in this example. However, metonymy cannot be entirely ruled out, since the place of utterance (which presumably could be referred to with fi ‘here’) is also the place where the tea got cold.

(12) Ma tångalaat ko ndax jot na fee sedd.
1.SBJT be:hot:CAUS:again 3.OBJ because reach PERF.3 here:ve be.cold

“I’ll heat it up again because it has reached to be cold here.”

The examples in (1), (11), and (12) show that A TIME IS A PLACE is more productive in Wolof than in English, at least in the observed (linguistic and physical)
contexts. In the next section, we will see evidence that the metonymy A PLACE FOR A TIME is also more productive in Wolof.

2.3. The Metonymy A PLACE FOR A TIME in Wolof

This section begins with examples that show a kind of metonymy-to-metaphor continuum from A PLACE FOR A TIME to A TIME IS A PLACE in Wolof. The metonymy is evidence for the experiential basis of the metaphor (cf. Grady & C. Johnson 2002; C. Johnson 1999; Lakoff & Johnson 1980, 1999). The continuum also suggests that the metonymy may have contributed to the conventionalization of the metaphor, since this kind of continuum is characteristic of semantic change, which has been observed to occur via gradual shifts that are supported by context (Heine et al. 1991; Hopper & Traugott 1993). Indeed, various scholars have hypothesized that metaphor (at least in some cases) develops from metonymy (see for example Barcelona 2002; Dirven & Pörings 2002; Radden 2002). However, I do not have spontaneous data supporting a role for metonymy in the conventionalization of A TIME IS A PLACE.

Example (13a) below simultaneously means that the rain began to fall on a person at a particular place where she was thinking about her home and that it began to fall on her as she was thinking about her home (cf. Emanatian 1992; C. Johnson 1999; Norvig 1988). In (13b) a spatial reading of the locative fa is not prominent, but metonymy cannot be ruled out entirely. Example (13c), which does not allow a spatial reading of fa, represents the metaphor end of the continuum (Moore 2000:195).

(13) a. (Metonymy)

\[
\begin{align*}
\text{Få} & \text{ mu } \text{ toog-e } \text{ di } \text{ fâttaleku } \text{ dëkkam} \\
\text{where} & \text{ 3.SBJT} \text{  sit-LOC IMPF  remember home:GEN} \\
\text{la} & \text{ NONSBJT.FOC.3  3.OBJ rain the become.co-located.with} \\
\text{ko} & \text{  taw } \text{ bi } \text{ fekk.}
\end{align*}
\]

"Where she sat thinking of her home is where the rain became colocated with her." ‘The rain found her at the spot where she sat thinking about her home.’ ‘It began to rain on her where/as she sat thinking of her home.’ [APS, 021899. Constructed]

b. (More metaphoric than metonymic)

\[
\begin{align*}
\text{Få} & \text{ mu } \text{ toog-e } \text{ di } \text{ fâttaleku } \text{ dëkkam la} \\
\text{where} & \text{ 3.SBJT} \text{  sit-LOC IMPF  remember home:GEN NONSBJT.FOC.3} \\
taw & \text{ bi } \text{ tâmbale.}
\end{align*}
\]

rain the start

"Where she was sitting thinking of her home is where the rain started.” ‘As she was sitting thinking of her home, the rain started.’ ‘It was at a moment when she was sitting thinking of her home that the rain started.’ [APS, 021899. Constructed.]
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c. (Metaphoric and not metonymic)
... weer wi fim teroo ak fim dee-ee.
moon the where:3.SBJT appear:LOC and where:3.SBJT die-LOC
“the moon, where it appears and where it dies.”
‘when the moon appears and when it disappears.’ (The speaker is saying that there is a calendar that gives this information on the moon/month.) [s V tape]

Next are more examples of A PLACE FOR A TIME. In the first example the speaker refers directly to the place where he is talking and metonymically to the time when he is talking.

(14) a. Mënuleen ko, ngeen ni coww ñibbi, te du tax ma yöbbu Ndeela,
‘If you can’t do it [i.e. keep quiet], then go straight home, but that won’t make me take Ndela’

ndax ba fii may wax-e, jabari
because as.far.as here 1.SBJT:IMPF talk-LOC wife:of
jaambur la
someone.else 3.NONSBJT.FOC
“because all the way to here where I am talking at, she is someone else’s wife”. ‘because up to this point as I speak, she is still someone else’s wife’ [Jëf 1992:32]

In the next example, the place where the speaker smokes stands for instances of smoking.

b. Musuloo gis fu ma tux-e,
have.ever.experience:NEG.2 see where 1.SBJT smoke-LOC
“You have never seen where I smoke at.” ‘You have never seen me smoke anywhere.’ ‘You have never seen me smoke.’ [APS, Hai:33]

A PLACE FOR A TIME and A TIME IS A PLACE both seem to be more productive in Wolof than in English. This can be related to a more general phenomenon in which (literal) locative marking is productive in Wolof.

2.4. Linguistic Coding of Location in Wolof
The pervasiveness of locational marking in Wolof may contribute to an explanation of the productivity of A PLACE FOR A TIME and A TIME IS A PLACE in this language if “frequent use of forms directs attention to their functions” as suggested by Slobin (2003) (cf. Whorf 1956). The data in (15) below suggest that location is highly codable and frequently mentioned in Wolof (cf. Slobin ibid). To be codable is to be accessible and easy to process/express. For example a notion that is expressed by inflection (such as number in English) is highly codable. Below
we see that the same locational morphemes that play a role in the metonymic and
metaphoric expressions we studied above also occur in a wide variety of other
locational contexts, sometimes several per sentence.

In (15a) below we see a form in locative f- as the relative pronoun in a “headless”
relative clause.

(15) a. Bu toollo     fu   sore   ñu   xàmme     ko ndax  koll  bi.
   if measure:COND where be.far they recognize OBJ because paunch the
   “If one is located where is far, they recognize him because of the pot
   belly.” ‘He is recognizable from a distance because of his pot belly.’
   [Fal et al. 1990 under koll (b)]

In (b), the -e suffix on the verb lekk ‘eat’ marks the fact that the verb is taking a
locative argument fa ‘there’, in addition to the expected agent and patient.

   b. Waaw, fa   laa       lekk-e  ceebujën
      yes there NONSBJT.FOC:1 eat-LOC rice:of:fish
      ‘Yes, there is where I ate rice with fish.’ [Church 1981:325]

Example (c) below has an “extra” locative expression fi in a context in which an
English speaker would not mention location. (Munro & Gaye 1997:33 list dàq fi
“be better here” as an idiom meaning ‘be good at’.)

   c. Tenee           fi    dàq    dow!
      cheetah:SBJT.FOC here be.better run
      ‘The cheetah is better at running here”
      ‘The cheetah is really fast!’ [Fal et al. 1990 under tene (m)]

The next example, which is an idiom, shows the locative f- being repeated for
emphasis in a construction that exploits the existence in Wolof of the more
emphatic fìi and the less emphatic fi (both meaning ‘here’).

   d. Fìi, wund du      fi    naan-e   ñeex.
      here cat  IMPF:NEG here drink-LOC sauce
      ‘A cat doesn’t drink sauce here.’ (I.e. ‘You are in my element; you
don’t have the power.’) [Cissé et al. 1982:58]

The next sentence exemplifies the fact that it is possible to code location multiple
times in a Wolof sentence. Each locational morpheme is underlined. The under-
lined a’s mark distal deixis.
The data in (15) above suggest that Wolof grammar encourages speakers to pay attention to location. Many of the linguistic constructions in these data, such as those that employ locative \(-f\), deictic \(-i\) or \(-a\), and the locative-argument marking \(-e\), are the same as the ones that are involved in A TIME IS A PLACE and A PLACE FOR A TIME. It is thus plausible that Wolof grammar plays a role in facilitating the use of these metaphoric and metonymic structures. Obviously, more languages need to be examined before this claim can be evaluated satisfactorily.

2.5. Summary

I have argued that linguistic expressions in which temporal relations are spoken of in terms of static location instantiate the metaphor A TIME IS A PLACE. In this metaphor contrasting places map onto contrasting times. The argument for the experiential basis of A TIME IS A PLACE appealed to the metonymy A PLACE FOR A TIME. I claimed that the assumed productivity of the metonymy and the metaphor in Wolof may have to do with locational morphosyntax and codability of location in that language.

References


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Kevin Moore
Linguistics and Language Development
San José State University
1 Washington Square
San José, CA 95192-0093

kmoore3@email.sjsu.edu