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## Categorizing adpositions in $\mathrm{K}^{\wedge} \tilde{o}^{\wedge}$ õtharaka

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# Categorizing adpositions in Kîîtharaka 

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#### Abstract

In this paper, I discuss the categorial status of Kîtharaka adpositions. I demonstrate that there are two main classes of adpositions (to be referred to as Class A and Class B). Class A adpositions are syntactic heads and they belong to the functional category P. Class B adpositions are a phrasal P category with a nominal component. They therefore spell out a more complex structure than adpositional heads do. This bipartition of Kîtharaka Ps is based on (i) optionality of complements, (ii) case assignment, (iii) modification, (iv) recoverability of content, (v) movement, and (vi) derivational morphology.


## 1. Introduction

This paper explores the rather impoverished, yet interesting adpositional system of Kîtharaka. I show that there are two classes of adpositions (i) adpositional heads such as $n a$ 'with', kîri 'dir' and $n i$ 'loc' (Class A) and (ii) phrasal adpositions such as rungu 'under', rûteere 'beside' or 'on the side', among others (Class B). The bipartition is based on a wide range of distributional facts - syntactic, semantic and morphological.

This paper is organized as follows. In section 2, I lay out the adpositional classes of Kîtharaka, showing the exhaustive list of each class. Section 3 compares Class A adpositions with Class B adpositions indicating the systematic differences in the two classes. Here, I examine optionality of complements, case assignment and the possibility of P stranding. By the end of this section, I will take it as given that Class A adpositions are quite different from Class B adpositions. In section 4, I compare nouns and Class B adpositions. The main goal of this section will be to establish the category of Class B adpositions. Here, I will show the productive variety of modification that goes into nouns and its meagre availability in Class $B$ adpositions. This section will also draw on facts from recoverability of content and derivational morphology to tease apart nouns from Class B adpositions. Section 5 shows how Class B adpositions fit into the overall PP system of Kîitharaka. Here, I will show that despite their nominal origin, Class B adpositions have a distribution strikingly similar to that of PPs. Thus they are more adpositional than nominal. On this basis, I will conclude that they are phrasal adpositions. The last section summarizes

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the findings of the paper, exploring what the implications are for syntactic theory for claiming that Class B adpositions are phrasal. I will relate the presence of a phrasal P category to conflation, incorporation prior to lexical insertion (Baker 2003) or post-syntactic insertion of lexical categories for non-terminals (Michal Starke, p.c.).

## 2. Setting the scene: Kîitharaka adpositional system

### 2.1. Class A adpositions

Like other Bantu languages (see e.g. Baker 2003 for Chichewa), Kîitharaka has a very poor adposition system. Exhaustively, there are three serious candidates for Class A adpositions - two prepositions na 'with', and kîr̂̂ 'to', and one postposition ni 'loc'. ${ }^{1}$

### 2.1.1. Kîrî

Kı̂r̂ expresses direction and can only be used with displacement verbs, as seen in (1). ${ }^{2}$ Furthermore, kîr̂̂ requires its object, a goal or source, to be animate. Note that animacy here is not in its strictest sense. Thus a body or organization run by people such as a government or insurance company can also be a complement of $k \hat{\imath} r \hat{\imath}^{3}{ }^{3}$

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c. Ka-ana ga- gû- kiny -a kîr̂̂ ngina/ *î-kûmbî/ 12- child SM12-PRES-arrive-FV DIR 9mother/5-granary/ *jiiga 5 stone
'The child has reached the mother/the granary/the stone'
d. Maria a- kû- ger -a mû-biira kîri John/*î-kûmbî/ 1 Maria SM1-PRES-throw-FV 3- ball DIR John/ 5-granary/ *jiiga 5stone
'Maria has thrown the ball to John(/*the granary/*the stone)'
Observe that when kirr̂̀ 'dir' is used with a non-directed verb such as ina 'sing' or 'dance', the sentence is ungrammatical.
(2) *Ka-ana i- ka- in -ir -e kîri a-geni 12- child F-SM12-sing.dance-PERF-FV DIR 2-guest 'The child sang and danced to the guests'

Kîtharaka kîri resembles English to in that it can express comparison (but here the animacy requirement goes). ${ }^{4}$
(3) I prefer mangoes to oranges

I- m- beend-eet -e ma-embe kîr̂̂ ma-cunkwa F-1PS-like- STAT-FV 6- mango DEG 6- oranges
'I like mangoes more than oranges'
Directional kîrı̂ therefore imposes the following requirements.
a. The complement of kîr̂ must be animate
b. The directional feature of kîr̂̀ must be matched with a directional feature of the verb.

### 2.1.2. Na

$N a$ 'with' is used to introduce instruments and accompaniments, (6), and is homophonous with the conjunction 'and', (7).
(6) a. Maria a- kû- ûrag-a njoka na mû-ragi 1Maria SM1-PRES-kill -FV 9snake with 3- stick 'Mary has killed the snake with a stick'
b. Maria a- kû- ûj -a na John

1 Maria SM1-PRES-come-FV with John
'Mary has come with John'

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(7) Maria a- rug -ir -e nkima na a- ta -a rû-jî

1Maria SM1-cook-PERF-FV 10food and SM1-fetch-FV 11-water
'Maria cooked food and fetched water'

### 2.1.3. Ni

$N i$ expresses location, (8), but a $n i$-marked DP can be used to express direction in the presence of some motion verbs, (9).
a. Maria a- mami î- kurungu-ni

1 Maria Sm1-sleep 5-cave -LOC
'Maria is sleeping in the cave'
b. Maria a- in -ir -e ndagaca-ni

1 Maria SM1-sing-PERF-FV bridge -LOC
'Maria sang on the bridge'
(9) Maria n-a- ug -iir -i -e î- kurungu-ni

1 Maria F-SM1-run-PERF-CSI pseudo -FV 5-cave -LOC
'Maria ran in/into the cave'

### 2.2. Class B adpositions

Class B adpositions, like Class A, form a closed class. The full list of members is given in Table 1. Adpositional elements bearing the same noun class morphology are put under each other in the table.

Table 1: Class B adpositions

| Adposition | Translation | Adposition | Translation |
| :---: | :---: | :---: | :---: |
| nyuma <br> 9behind | behind | î-gûru | above/on top |
| mbere | in front | ru-top |  |
| 9front |  | 11 -ungu | under |
| nja | out/outside | rû-teere <br> 11-beside | beside/on the side |
| 9out |  | ga-tîgatî | between/centre |
| nkona | bottom | 12-centre/between |  |
| 9bottom |  | ka-thengengani |  |
| ndeni | inside | on the edge |  |
| 9inside |  | karibû <br> near | near/next to |
|  |  |  |  |
|  |  |  |  |

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## 3. Comparing Class $\mathbf{A}$ and Class $\mathbf{B}$ adpositions

### 3.1. Optionality of complement

Class A adpositions differ from Class B adpositions in various ways. A Class A adposition must have a complement (cf. (10), (11), (12)), but all Class B adpositions can occur with or without a complement, (13) and (14).

```
a. \(\checkmark\) John n-a- urag-ir -e nyoka na ka-jiû
1John F-SM1-kill -PERF-FV 9snake with 12-knife
'John killed the snake with a knife'
b. *John n-a- urag-ir -e nyoka na
1John F-SM1-kill -PERF-FV 9snake with
('John killed the snake with')
```

a. $\checkmark$ Maria n-a- ir -ir -e ntûmwa kîrı̂ mw-arimû 1Maria F-SM1-take-PERF-FV 9message DIR 1- teacher 'Maria took the message to the teacher'
b. *Maria n-a- ir -ir -e ntûmwa kîr̂̂ 1Maria F-SM1-take-PERF-FV 9message DIR ('Maria took the message to')
a. $\checkmark$ Maria a- mami î- kurungu-ni

1 Maria SM1-sleep 5-cave- LOC
'Maria is sleeping in the cave'
b. *Maria a- mami ni

1 Maria SM1-sleep LOC
('Maria is sleeping in')
a. $\checkmark$ Maria a- kari ru-ngu rw-a ndagaca

1 Maria SM1-sit 11-under 11-AS 9bridge
'Maria is sitting under the bridge'
b. $\checkmark$ Maria a- kari ru-ngu

1Maria Sm1-sit 11-under
'Maria is sitting under [of some place]'
(14)
a. $\checkmark$ Maria a- ciat -ir -e rû-teere rw-a î- kurungu

1 Maria SM1-sweep-PERF-FV 11-side 11-AS 5-cave
'Maria swept the side of the cave'
b. $\checkmark$ Maria a- ciat -ir -e rû-teere

1Maria SM1-sweep-PERF-FV 11-side
'Maria swept (on) the side [of something]'

### 3.2. Adjacency to the complement

Class A adpositions must be adjacent to their complement when in situ, Class B adpositions can be separated from their complement by modifiers.

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> a. John a- mami rû-teere [Compl rw-a î-kurungu] 1John Sm1-sleep 11-side 11 -as 5 -cave 'John is sleeping on the side of the cave' b. John a- mami rû-teere rû-ra rû- ngî [Compl rw-a 1John sm1-sleep 11-side 11-that 11-other 11-AS 1-kurungu] 5-cave 'John is sleeping on the other side of the cave'

Similar facts are observed with P stranding. In the strictest sense, the locative $n i$ cannot be stranded. It must always be pied-piped by its complement in topic and focus constructions (cf. (16) and (17) respectively). ${ }^{5}$ Not even a resumptive pronoun (RP) will enable $n i$ to allow P stranding, ( $(16 \mathrm{c})$ and (17c)).
a. $\sqrt{\mathrm{I}}$ - kurungu-ni, Maria n-a- mami
5-cave- LOC 1Maria F-SM1-sleep
'In the cave, Maria is sleeping'
b. *î- kurungu, Maria $\mathrm{n}-\mathrm{a}$ - mami-ni

5-cave 1Maria F-SM1-sleep LOC
('The cave, Maria is sleeping in')
c. * 5-cave 1Maria SM1-sleep 5RP-LOC ('The cave, Maria is sleeping in it')
a. $\checkmark$ N-î1-kurungu-ni Maria a- mami

F-5-cave- LOC 1Maria SM1-sleep
'It is in the cave that Maria is sleeping'
b. ${ }^{*} \mathrm{~N}$-îi-kurungu Maria a- mami-ni

F-5-cave 1Maria SM1-sleep LOC
('It is the cave that Maria is sleeping in')
c. *N-îi-kurungu Maria a- mami rîo- ni

F-5-cave 1 Maria SM1-sleep 5RP-LOC
('It is the cave that Maria is sleeping in it')
The other prepositions $n a$ 'with' and kîri 'dir' cannot also strictly be severed from their complement. Thus they can either be moved together with their complement, or, when separated from their complement, be obligatorily resumed in topic and focus constructions. ${ }^{6}$

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(18) [Topic with kîrî]
a. $\checkmark$ K̂̂rı̂ mw-arimû, Maria n-a- ir -ir -e ntûmwa DIR 1- teacher 1Maria F-SM1-take-PERF-FV 9message 'To the teacher, Maria took the message'
b. $\checkmark$ Mw-arimû, Maria n-a- ir -ir -e ntûmwa kîrî-wee 1- teacher 1Maria F-SM1-take-PERF-FV 9message DIR-1RP 'The teacher, Maria took the message to him/her'
c. *Mw-arimû, Maria n-a- ir -ir -e ntûmwa kîr̂̂ 1- teacher 1Maria F-SM1-take-PERF-FV 9message DIR ('The teacher, Maria took the message to')
[Focus with kîrî]
a. $\checkmark$ I- kîrı̂ mw-arimû Maria a- ir -ir -e ntûmwa F-DIR 1- teacher 1Maria SM1-take-PERF-FV 9 message 'It is to the teacher that Maria took the message'
b. $\checkmark \mathrm{I}$-mw-arimû Maria a- ir -ir -e ntûmwa kîrî-wee F-1- teacher 1Maria SM1-take-PERF-FV 9message DIR-1RP 'It is the teacher that Maria took the message to him/her'
c. *I- mw-arimû Maria a- ir -ir -e ntûmwa kîr̂̂ F-1- teacher 1 Maria SM1-take-PERF-FV 9message DIR ('It is the teacher that Maria took the message to')
(20) [Topic with with]
a. $\checkmark N a$ ka-jiû, John n-a- urag-ir -e nyoka with 12-knife 1John F-SM1-kill -PERF-FV 9snake 'With a knife, John killed the snake'
b. $\checkmark$ Ka-jiû, John n-a- urag-ir -e nyoka na- ko 12- knife 1John F-SM1-kill -PERF-FV 9snake with-12RP 'The knife John killed the snake with it'
c. *Ka-jiû, John n-a- urag-ir -e nyoka na 12-knife 1John F-SM1-kill -PERF-FV 9snake with ('The knife, John killed the snake with')
(21) $\quad[\text { Focus with with }]^{7}$
a. $\checkmark$ I- ka-jiû John a- urag-ir -e nyoka $n a$ - ko F-12-knife 1John SM1-kill -PERF-FV 9snake with-12RP 'It is a knife that John killed the snake with it'
b. *I- ka-jiû John a- urag-ir -e nyoka na F-12-knife 1John SM1-kill -PERF-FV 9snake with ('It is a knife that John killed the snake with')

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When we examine Class B however, we observe that they can be stranded in an A-type movement transformation. (22a) gives an example of a Class $B$ adposition with its complement. In (22b) and (22c), the complement is moved together with the Class B adposition in topic and focus constructions, and this confirms that they form a constituent. In (22d), the associative preposition is deleted, and this time the complement (Ground DP) appears before the Class B adposition. With this latter structure, the Class B adposition cannot be moved together with the complement, (22e) and (22f), confirming that constituency has changed.
a. Maria n-a- burabur-ir -e nkona j-a ka-raî 1 Maria F-SM1-wiped -PERF-FV 9bottom 9-AS 12-pan 'Maria wiped the bottom of the pan'
b. Nkona j- a ka-raî, Maria n-a- (mî)- burabur-ir -e 9bottom 9-AS 12-pan 1Maria F-SM1- OM9-wiped -PERF-FV 'The bottom of the pan, Maria wiped it'
c. I- nkona j- a ka-raî Maria a- burabur-ir -e F-9bottom 9-AS 12-pan 1Maria SM1-wiped -PERF-FV 'It is the bottom of the pan that Maria wiped'
d. Maria n -a- burabur-ir -e ka-raî nkona 1Maria F-SM1-wiped -PERF-FV 12-pan 9bottom 'Maria wiped the pan on the bottom'
e. *Ka-raî nkona Maria n-a- burabur-ir -e 12- pan 9bottom 1 Maria F-SM1-wiped -PERF-FV ('The pan on the bottom, Maria wiped')
f. *I- ka-raî nkona Maria a- burabur-ir -e F-12-pan 9bottom 1Maria SM1-wiped -PERF-FV ('It is the pan on the bottom that Maria wiped')

Note that individually, the Ground and the Class B adposition in (22d) can be moved, for example under focalization, (23).

> a. I- ka-raî Maria a- burabur-ir -e nkona F-12-pan 1Maria SM1-wiped -PERF-FV 9bottom 'It is the pan that Maria wiped on the bottom'
b. I- nkona Maria a- burabur-ir -e ka-raî F-9 bottom 1Maria SM1-wiped -PERF-FV 12-pan 'It is on the bottom that Maria wiped the pan'

Assuming that something like UTAH holds (Baker 1988), the most obvious account for the alternation from (22a) (with the associative marker) to (22d) (without the associative marker) is case-based. Withdrawal of the associative marker leaves the DP complement without case, thus it has to move to a case position in a manner analogous to the passive transformation. Whether this conjecture is right or wrong need not concern us here. What I am trying to show is that at least a complement of Class B

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adposition can move away from it.

### 3.3. Case assignment

The adjacency requirement is possibly related to another property - that Class A adpositions assign case, while Class B adpositions cannot. In fact when a Class B preposition takes a Ground argument, it obligatorily must be followed by the case assigning associative marker $a$ which agrees with the head noun. The full agreement paradigm with the associative $a$ is given in Table $2 .{ }^{8}$

Table 2: Class B adpositions and associative agremeent

| Adposition | As Agr | Translation | Adposition | As Agr | Translation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| nyuma | j-a | behind | î-gûru | rî-a | above |
| 9behind | 9-AS |  | 5 -top | 5-AS | on top |
| mbere | j-a | in front | ru-ungu | rw-a | under |
| 9 front | 9-AS |  | 11-under | 11-AS |  |
| nja | j-a | out | rû-teere | rw-a | beside |
| 9out | 9-AS | outside | 11-beside | 11-AS | on the side |
| nkona | j-a | bottom | ga-tîgatî | k-a | between centre |
| 9bottom | 9-AS |  | 12-centre | 12-AS |  |
| ndeni | j-a | inside | ka-thengengani | k-a | on the edge |
| 9inside | 9 -AS |  | 12-edge | 12-AS |  |
|  |  |  | karibû near | na with | near next to |

The associative marker is also found in possessive constructions, arguably with the same function - that of assigning case to the second noun, the possessor (cf. (25) and (26)).
(25) ga-tîgatî k- a metha

12-centre 12 -AS 9 table
'The centre of the table'
(26)
gî-kombe ki-a Maria
7- cup 7-As 1Maria
'Maria's cup'
That $a$ is a case assigner is evident from the observation that the associative marker can only take a bare noun as its complement, not a noun with an

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overt preposition. This observation calls to mind Stowell's Case Resistance Principle - a case assigning category cannot bear case (Stowell 1981). ${ }^{9}$

> Gî-kombe kî- rî ga-tîgatî k- a metha(*-ni)
> 7 - cup $\quad$ SM7-be 12-centre 12 -AS table $\quad$-LOC
'The cup is at the centre of the table'
To sum up: I have shown in this section that Class A and Class B adpositions are syntactically distinct. Class A adpositions must have a complement, must be adjacent to their complement (cannot be stranded) and are case assigners. On the other hand, Class B adpositions only optionally have a complement, can have material intervening between them and their complements, can be stranded and they are not case assigners. Class A adpositions therefore seem to have the properties typical of adpositions in other languages. I assume therefore that they truly belong to category P. Table 3 summarizes the distinction between Class A and B.

Table 3: Class A and Class B Ps compared

| Class | Optional complement | P stranding | Adjacent complement | case |
| :---: | :---: | :---: | :---: | :---: |
| Class A | $*$ | $*$ | $\checkmark$ | $\checkmark$ |
| Class B | $\checkmark$ | $\checkmark$ | $*$ | $*$ |

The difficult task now remains of establishing the categorial status of Class B adpositions. In the next section, I provide the distributional differences between Class B adpositions and nouns. I draw on data on modification, recoverability of content, movement and derivational morphology to show that Class B adpositions cannot be nouns in the strict sense of the word. Since there is no obvious, even marginal, similarity between Class A adpositions and nouns, I will not dwell on their distinction in the next section.

## 4. Comparing Class B adpositions and nouns

An obvious reason for thinking that Class B adpositions are different from nouns is that they form a closed class (see Table 1). On the other hand, nouns are an open class. The behaviour in modification structures, recoverability of content, A-movement, and derivational morphology further establishes the point - if Class B adpositions are nouns at all, then they must be malnourished nouns.

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### 4.1. Modification in nouns and Class $B$ adpositions

Nouns in Kîtharaka can take a wide range of postnominal modifiers, and a small number of prenominal modifiers which come in the following neutral order.
(28) $\begin{aligned} & \text { Focus } \\ & \text { even/also }\end{aligned}$ every $\quad N$ Quantifier $>\underset{N O U N}{\text { NOUN }}>\underset{\text { that }}{\text { Dem }}>\underset{\text { of-mine }}{\text { Genitives }}>$ Num $>$ Adj $>$ Associative P $>$ Relative-clause $>$
two red of-maths
Quantifiers
only/alone
The following sentences demonstrate by transitivity this neutral order.
Maria a- ri- ij -îit -e ma-buku ma-ma ma-kwa ma1Maria SM1-PERF-steal-STAT-FV 6- book 6- this 6- mine 6tano ma-tune m-a ma-thabu
five 6- red 6-As 6- math
'Maria had stolen these five red books of mine of mathematics' ( $\mathrm{N}>$ Dem $>$ Gen $>\mathrm{Num}>$ Adj $>\mathrm{AsP}$ )
(30) John a- ra- gur-ir -e ma-buku m-a ma-thabu ma-ra 1John SM1-PN-buy-PERF-FV 6- book 6-AS 6- math 6- that
ma-ra- ij -îit -w -e m-onthe
6- PN-steal-STAT-PASS-FV 6- all
'John bought all the books of mathematics that were stolen' ( $\mathrm{N}>\mathrm{AsP}>\operatorname{Rel}>\mathrm{Q}$ )
(31) a. Kinya kîra mw-arimû n-a- kû- ri patî -ni even every 1- teacher F-SM1-SM17-be party-LOC 'Even every teacher was at the party'
b. Maria a- keth-ir -i -e kinya kîra mw-arimû 1Maria SM1-greet-PERF-CSI-FV even every 1- teacher 'Maria greeted even every teacher' (Focus>Quantifier)

One clear point of similarity between nouns and Class B adpositions is that both take associative phrases marked with the associative marker $a$ as complements. Other lexical categories such as adjectives and verbs do not. Furthermore, like nouns, all Class B adpositions are modifiable with the exhaustive focus particles $a k \hat{\imath}$ 'only' and $n k a$ 'alone'. These particles obligatorily follow the phrase that they associate with. ${ }^{10}$

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```
Maria a- th-ir -e ndeni akî/ yo- nka
1Maria SM1-go-PERF-FV 9inside only/9PR-alone
'Maria went inside only'
```

The particles $a k \hat{\imath}$ 'only' and $n k a$ 'alone' in Kîtharaka are actually very relevant in this context because they require that the category they associate with be a noun. Thus a VP or an adjective with regular prefixal verbal morphology such as subject agreement cannot be what the exhaustive focus particles $a k \hat{\imath}$ 'only' and $n k a$ 'alone' associate with, as illustrated in (33) and (34). In order for adjectives and verbs to be focused with exhaustive $a k \hat{\imath}$ and $n k a$, they must first be nominalized with Class $15 k \hat{u},(33 \mathrm{~b})$ and (34b), and appear in the traditional predicate cleft construction. ${ }^{11}$

> a. *Maria n-û- mû- ûgî akî/ gu-nka 1 Maria F-SM1-PREF1-intelligent only/15-alone ('Maria is only intelligent')
> b. $\checkmark$ I-kû-ûgia akî/ gu-nka Maria a- rî mûF-15-intelligent only/15-alone 1Maria SM1-be PREF1ûgî intelligent 'It is only intelligent that Maria is'
> a. *Maria n-a- rug -ir -e akî/ gu-nka 1 Maria F-SM1-cook-PERF-FV only/15-alone ('Maria only cooked')
> b. $\checkmark$ I-kû-ruga akî/ gu-nka Maria a- rug -ir -e F-15-cook only/15-alone 1 Maria SM1-cook-PERF-FV 'It is only cooking that Maria did'

Undoubtedly therefore, Class B adpositions have a small share of nouniness.
But when it comes to other nominal modifiers, nouns and Class B adpositions start to part ways. The strange fact is that no sweeping statement can be made for all Class B adpositions. The adpositions rûteere 'beside' or 'on the side' and rungu 'under' are the most nominal like. More precisely, rûteere 'beside', 'on the side' is the most nominal probably because it refers to some physical space - the sides of the table (four of them for example), the sides of the sea. Thus rûteere can take all the nominal modifiers (note that in (35) rûteere 'beside, 'on the side' appears in the plural form - the singular marker is $r u$ (Class 11), the plural is $n$ (Class 10) (see section 4.4 for details). Taking the plural is further confirmation of its nominal status. I give below a few of the modifiers that rûteere takes.

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a. John n-a- thamb-ir -i -e nteere ino i- nya 1 John F-SM1-wash -PERF-CSI-FV 10side 10this 10-four ntune ci- onthe
10 red 10-all
'John washed all these four red sides [of the table, for example]' (Dem, Num, Adj, Q)
b. Kinya kîra rû-teere i- r̂u- kû-rî na ki-ngarurî even every 11-side F-SM11-17-be with 7-scorpion 'Even on every side [of something] there was a scorpion' (focus, quantifier)

The same degree of tolerance for modification will hold for rungu 'under' when it refers to a physical location, for example, the underspace of a granary, but not an abstract space, for example the underspace of a tree.

Since different granaries can have different underspaces, it is possible to modify 'under' in this context with all 'all'.

Maria n-a- ciat -ir -e ndungu ci-onthe
1 Maria F-SM1-sweep-PERF-FV 10 under 10-all
'Maria swept all the unders [of something]'
Demonstratives are much more felicitous with Class B adpositions in yes/no and rhetorical questions.
a. Gi-ciati kî- rî nja $\hat{1}-\mathrm{no}$ anga

7 - broom SM7-be 9 out 9 -this Q
'Is the broom here outside?'
b. Nkaarî n-î- rî mbere/ nyuma î- no kana 9 vehicle F-SM9-be 9 in.front/9behind 9 -this Q
'Is the vehicle here in front/behind?' (I can hear some noise)
When Class B adpositions take adjectives, the adjective forces a reading where it modifies some non-overt noun (see Carstens 1991 for a related observation for Chichewa)
a. ?Maria n-a- ngarangar-ir -e ru-ngu rû-tune

1Maria F-SM1-scrub -PERF-FV 11-under 11-red
'Maria scrubbed a red spot on the under [of some place]'
b. ?Maria a- mam-ir -e ̂̂-gûrû rî-jerû

1 Maria SM1-sleep -PERF-FV 5-top 5-white
'Maria slept on a white thing on the top [of something]'
Adjectival modification therefore prefers to go with nouns, not PPs or PP-like things (Class B adpositions).

As far as I can tell, no Class B adposition other than rûteere 'beside', 'on the side' can take modifiers such as numeral, every, even, also. Even relative clauses are really odd with Class B adpositions.

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### 4.2. Recoverability of content

I demonstrated in section 3.3 that possessive structures and complements of Class B adpositions are introduced by the associative case assigner. Some relevant examples are given in (39) and (40) for the associative marker in possessive and Class B structures respectively.
(39) Maria a- gû- tûmir-a gî-kombe ki-a Musa 1Maria SM1-PRES-use -FV 7-cup 7- AS 1Musa 'Maria has used Musa's cup'
(40) Maria a- mami î- gûrû ri-a metha 1 Maria Sm1-sleep 5-top 5-AS 9table 'Maria is sleeping/lying on top of the table'

The head noun in the possessive construction can be deleted if its content is recoverable from context, (41), but even when the context is salient for Class B adpositions, they cannot be deleted, (42).
$\checkmark$ Maria a- rî- tûmir-a ki-a Musa 1Maria SM1-PRES-use -FV 7-AS 1Musa 'Maria is using of Musa's [class 7 object]'
*Maria a- mami ri-a metha 1 Maria SM1-sleep 5-AS 9table ('Maria is sleeping/lying [somewhere] of the table')

In fact, the phrase without the possessee can be focused and thus fronted in (41), but the phrase without the Class B element cannot, (42).
(43) $\checkmark$ I- ki-a Musa Maria a- gû- tûmir-a F-7- AS Musa 1Maria Sm1-PRES-use -FV 'It is [something of class 7] of Musa's that Maria is using'
*I- rî-a metha Maria a- mami F-5-AS 9table 1Maria SM1-sleep ('It is [somewhere] of the table that Maria is sleeping/lying')

This is strange given that there are potentially many nouns of class 7 that can be possessed and that agree with the associative marker, while there is only one Class B adposition 'on top' that has class 5 agreement. The possibility here might be that only items that can refer, and consequently bear a referential index (cf. Baker 2003), can be resumed. Class B adpositions cannot therefore be true nouns.

### 4.3. A-movement properties

It is common knowledge that nouns trigger agreement on verbs and nominal modifiers in Bantu. An example with verbal agreement is given in (45).

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(45)
$\underline{T \hat{u}}$-ana i- $\underline{t \hat{u}-}$ ring-ir -e mû-biira 12- child F-SM12-kick-PERF-FV 3- ball 'The children kicked the ball'

The same is true of some Class B adpositions. They agree with the verb when they are used as subjects (cf. also (35b)).
ga-tîgatî ka- rî na rûko mîno
12-centre SM12-be with dirt very
'The centre [of some thing] is very dirty'
The same is true of other adpositions such as rûteere 'beside' $\hat{\imath}$ ĝr $\hat{u}$ 'on top' and rungu 'under'. Other Class B adpositions such as nyuma 'behind', nkona 'bottom', ndeni 'inside' are a bit marginal with their own noun Class Agreement. The locative class 17 agreement is much more acceptable.

Ndeni ?j-/ kw- î na rûko mûno
9inside Sm9-/sm17-be with dirt very
'The inside [someplace] is very dirty'
Like nouns, Class B adpositions can undergo A-movement in passive constructions. Again for these constructions, there is great preference for locative agreement, except for rûteere 'beside', 'on the side' and $\hat{\imath} g \hat{u} r \hat{u}$ 'on top'.
(48) a. Rû-teere i- $\checkmark$ rû/ $\checkmark$ gû- ciat -ir $-\mathrm{w} \quad$-e 11-side F- SM11/ SM17-sweep-PERF-PASS-FV The inside [of something] was swept'
b. Î- gûrû i- $\checkmark$ rî/ $\checkmark$ gû- ciat -ir $\quad$-w $\quad$-e 5-top F- SM5/ SM17-sweep-PERF-PASS-FV The top [of something] was swept'
c. Nyuma ( $\mathrm{n}-\mathrm{?} \mathrm{i} \mathrm{l}) / \checkmark(\mathrm{i}-\mathrm{gu}-)$ ceng -ir $\quad \mathrm{u} \quad$-e 9behind F-SM9/ F- SM17-cut.grass-PERF-PASS-FV 'The behind was cleared/cut of grass'

### 4.4. Derivational morphology

Some Class B adpositions are like nouns in that they can be pluralized (cf. also (35a) and (36) for rûteere 'beside' and rungu 'under' respectively).

```
a. ga-tîgatî 12-centre/between 'centre/between'
```

b. tû-tîgatî 13-centre/between 'centres/betweens'

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Other Class B adpositions are potentially unpluralizable because the plural would mean something else. ${ }^{12}$

```
a. î- gûrû
    5-top
    'on top'
b. ma-gûrû
    6- top
    ‘*tops/V legs'
c. ngûrû
    10top
    '*tops / \(\checkmark\) ugly thin legs'
```

Other forms such as nkona 'bottom' are pluralizable without any change in noun class morphology, the effects of the plural being seen when it takes an associative phrase for example. And the other Class B prepositions just can't be pluralized: mbere 'in front', nyuma 'behind', nja 'outside', ndeni 'in side', karibû 'near', kathengengani 'on the edge'.

In Bantu, nouns already bearing a class prefix can be preprefixed to form augmentatives. Augmentatives usually express bigness, often with some negative or derogatory connotation. When it comes to formation of augmentatives, only rûteere 'beside' can. Even then, the extremely nominallike rûteere does not have the productivity of nouns which can have singular and plural derogatives (cf. (50) and (51) with (52) for a regular noun). ${ }^{13}$
(51) a. kî-rû-teere

7-11-side
'this ugly side'
b. *i- rû-teere

8-11-side
('these ugly sides')'
c. *ma-rû- teere

6- 11-side
('these ugly sides')
(52)
a. mu-ntû

1- person
'person'
b. kî-mu-ntû

7-1- person
'this big/ugly person'

[^10]
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c. i-mu-ntû

8-1- person
'these big/ugly people'
d. ma-mu-ntû

6- 1- person
'these big/ugly people'
Furthermore, only 'on the side' can take a pre-prefix to form a diminutive; even then, the plural diminutive is unavailable.

> a. ka-rû- teere
> 12-11-side
> 'on this narrow side'
> b. *tû- rû- teere
> 13-11-side
> ('on these narrow sides')

Summing up: I have shown in this section that Class B adpositions and nouns seem to cluster together in being able to take associative phrases as complements and in being modifiable by the exhaustive focus particles $a k \hat{\imath}$ 'only' and nka 'alone'. I have however demonstrated that despite this fact, there are other things that point to dissimilarity. Except for the striking nominal rûteere 'beside', 'on the side', the productivity of other Class B adpositions with nominal modification, A-movement, or derivational morphology was either shown to be severely restricted, marginal, or even nonexistent. In fact even for the best nominal candidate rûteere 'on the side', 'beside', plurals with derogatives and diminutives were shown to be nonexistent. All these facts point in the same direction - Class B adpositions are not nouns, but they potentially have a nominal ancestry. Synchronically, these facts suggests that Class B elements must either contain an overt or a null preposition. This would account for the mixed nominal and PP behaviour of Class B (see section 6 for a theoretical speculation based on spell out and conflation).

Thus far, I have shown that Class A adpositions belong to a functional category P. I have also shown that Class B adpositions are not nouns, at least not full DPs. One might therefore legitimately ask: why do you call Class B things adpositions? Why are they not a species of nouns for example? The next section shows that Class B elements occur in a variety of contexts that are typical of prepositional phrases. In a sense to be made precise in the last section, Class B adpositions are condensed PPs.

## 5. Comparing Class B adpositions and PPs

Class B adpositions show properties typical of prepositional phrases, not shared by nouns and other lexical categories. For example only PPs and 'here' and 'there' occur as the complement of the 3rd person, present tense

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copula. Class B adpositions are also fine in this context but nouns, adjectives and verbs are not.
a. Maria a- rî Nairobi/cukuru
1Maria SM1-be Nairobi/school
'Maria is in Nairobi/ in school' (Bare Place PP)
b. Maria a- rî aga 1Maria SM1-be 14here 'Maria is here' (Here)
c. Maria a- rî aara 1Maria Sm1-be 14there 'Maria is there' (There)
d. Maria a- rî r-ungu/ ru-teere/ ga-tîgatî/ nyuma/ 1 Maria SM1-be 11-under/11-beside/12-between/9behind/ mbere 9in.front 'Maria is under/beside/between/behind/in front' (Class B)
e. *Maria a- rî mû- ajie 1Maria SM1-be PREF14-sick ('Maria is sick') (Adjective)
f. *Maria a- rî mw-arimû 1Maria sm1-be 1- teacher ('Maria is a teacher') (Noun)
g. *Maria a- rî kû-ruga 1Maria SM1-be 15-cook ('Maria is cooking') (Verb)

Like other members of the P family, Class B adpositions occur in locative inversion structures. Nouns and other categories cannot.
a. I- kûmbi-ni i- kû- mam-ag -a mbea nyinî mûno F-granary F-SM17-sleep-HAB-FV 10 mouse many very 'In the granary sleep many mice' (NI-PP)
b. Nairobi i- kû- mam-ag -a mbea nyinî mûno 17Nairobi F-SM17-sleep-HAB-FV 10mouse many very 'In Nairobi sleep many mice' (Place)
c. Aga i- kû- mam-ag -a mbea nyinî mûno here F-SM17-sleep-HAB-FV 10 mouse many very 'Here sleep many mice' (Here)
d. Aara i- kû- mam-ag -a mbea nyinî mûno there F-SM17-sleep-HAB-FV 10 mouse many very 'There sleep many mice' (There)

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e. R- ungu/ rû-teere/i- gûrû/ ga-tîgatî/ nja i- kû-11-under/11-side/ 5-on.top/12-between/9outside F-SM17-mam-ag -a mbea nyinî mûno sleep-HAB-FV 10 mouse many very 'Underneath/on the side/between/outside sleep many mice' (Class B)
f. *John i- kû- mam-ag -a mbea nyinî mûno John F-SM17-sleep-HAB-FV 10 mouse many very ('On John sleep many mice') (NP)

Class B adpositions and other members of the P family can be complement of iga 'put', which requires an obligatory PP complement, but ordinary nouns and other lexical categories cannot.
a. John n-a- ig -ir -e î- buku i- kurungu-ni 1John F-SM1-put-PERF-FV 5-book 5-cave- LOC 'John put the book in the cave' (NI-PP)
b. John n-a- ig -ir -e î- buku cukuru 1John F-SM1-put-PERF-FV 5-book school 'John put the book in school' (Bare Place)
c. John n-a- ig -ir -e î- buku aga 1John F-SM1-put-PERF-FV 5-book here 'John put the book here' (Here)
d. John n-a- ig -ir -e î- buku aara 1John F-SM1-put-PERF-FV 5-book there 'John put the book there' (There)
e. John n-a- ig -ir -e î- buku ru-ngu/ rû-teere/i1John F-SM1-put-PERF-FV 5-book 11-under/11-side/ 5gûrû/ ga-tîgatî/ ndeni on.top/12-between/9inside 'John put the book underneath/on the side/between/inside' (Class B)
f. *John n-a- ig -ir -e î- buku metha 1John F-SM1-put-PERF-FV 5-book table 'John put the book table' (NP)

Like other prepositional phrases, Class B adpositions are modifiable by here and there. Modification by 'here' and 'there' forces obligatory use of class 17 locative morphology.
a. Aga cukuru kû- rî na mati mûno here 5school SM17-be with vegetation very 'Here in school is a lot of vegetation' (Bare NP)
b. Aga mu-roo -ni kû- rî na mati mûno here 3- river-LOC SM17-be with vegetation very 'Here at the river is a lot of vegetation' (Here NI-PP)

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c. Aara gî-tandani-ni kû- rî na ma-buku maingi mûno there 3-bed -LOC SM17-be with 6- book 6many very 'There on the bed are very many books' (There NI-PP)
d. Aga ru-ngu ${ }_{\text {rû̀ }}$ rî/ kû-rî na rûko muno here 11-underneath SM11-be/SM-be with dirt very 'Here underneath is very dirty' (Here Class B)
e. Aara ru-ngu *rû- rî/ kû- rî na rûko muno there 11-underneath sm11-be/sm-be with dirt very 'There underneath is very dirty' (There Class B)

When Class B adpositions, other PPs and 'here' and 'there' are modified by ngwa 'self,' a location is singled out.
a. Karaî ka- rî î- gûrû rîo- ngwa/ru-ngu ruu- ngwa/ga1 pan SM12-be 5-top PS5-self/ 11-under PS11-self / 12tîgatî ko-ngwa between 12-self 'The pan is right on top/under/between'
b. Maria a- rî cukuru jo- ngwa 1 Maria SM-be 9 school 9PS-self 'Maria is right in school' (Bare PP)
c. Ka-raî ka- rî aga ao- ngwa 12- pan SM12-be 14here PS12-self 'The pan is right here' (Here)

On the other hand, when ngwa 'self' is used with a noun, the interpretation is that the referent of the DP is alone.
(59) Maria a- ak -ir -e nyomba wee- ngwa

1Maria SM1-build-PERF-FV 9house PRON1-self
'Maria built the house herself'
'Maria built the house alone'
Without doubt therefore, Class B things are more members of the P family than the N family.

## 6. The analysis

### 6.1. What needs to be explained

The preceding sections have led us to two main conclusions. One is that Class B elements are actually phrasal. It's no wonder therefore that they can undergo phrasal A-bar movement such as topicalization and focalization.
(60) Ndeni, Maria n-a- (mî-) ciat -ir -e

9inside 1Maria F-SM1-OM9-sweep-PERF-FV
'The inside [of something], Maria swept it'

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```
I- ndeni Maria a- ciat -ir -e
F-inside 1Maria SM1-sweep-PERF-FV
'It is the inside [of something] that Maria swept'
```

The other conclusion is that Class B adpositions are a kind of hybrid lexical category between N and P. Like nouns, Class B adpositions can be modified by the exhaustive focus particles $a k \hat{\imath}$ 'alone' and ngwa 'alone'. Like PPs, they appear under 3rd person, present tense copula, as the complement of put (see section 5 for details).

The big questions we need to answer therefore are (i) why are Class B elements phrasal (ii) what is the source of the hybrid syntactic category status?

### 6.2. The syntactic source of the hybrid category

I argue in this section that the hybrid category either has a source in conflation Baker (2003) or post-syntactic insertion of Class B elements for a PP or a relational noun structure (Michal Starke, p.c.).

In order to see what happens in Kîtharaka, let us first put in place the structure of PP. Here I will assume along with Koopman (2000), den Dikken (2003), Svenonius (2004), and Svenonius (2005-6) that the structure of PPs is more articulated. An English phrase, such as (62), thus has the structure in (63) (I leave the specifiers out since rarely are both the specifier and the head activated at the same time, Starke 2001).
(62) from in front of the balcony


The structure proper has the following 3 main components - PathP, with Path ${ }^{0}$ hosting directional prepositions such as to and from, PlaceP, Place ${ }^{0}$ hosting locative prepositions such as on and in and the AxPart, which hosts Class B adpositions such as 'top', 'front', 'between' etc.

In Kîtharaka, two Class B adpositions occur with the locative postposition $n i, n d e \underline{i} i$ 'inside' and kathengengani 'on the edge'. This suggests that the head of AxPart moves and adjoins to the locative postposition in the overt syntax.

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I will assume here that this is the general case. Thus even for the Class B elements that do not have an overt P, they involve movement of the AxPart head to a null $\mathrm{P}_{l o c}$ but this time prior to lexical insertion, producing a kind of phrasal adposition. Class B items are therefore inserted to realize both AxPart and $\mathrm{P}_{l o c}$. This will account for much of the PP behaviour of Class B (section 5). The remnants of nouniness are perhaps a consequence of the fact that $\mathrm{P}_{l o c}$ is null. Recall that the most nominal Class B items such rûteere 'beside', 'on the side' do not have an overt $\mathrm{P}_{l o c} n i$.

Another way to approach the ambiguity in Class B is to assume that Class B elements are a complex of features, say,

$$
\begin{equation*}
+\mathrm{P}_{l o c},+ \text { relational noun } \tag{65}
\end{equation*}
$$

The hybrid category status of Class B would follow from the nature of post-syntactic insertion in a Starkean way.
(66) $\alpha$, a lexical item, is inserted into $\beta$, a syntactic constituent, iff the features of $\alpha$ are a superset of the features of $\beta$
(65) will therefore be inserted both when there is a PP structure, or a relational noun since in both cases the features of $\alpha$ are a superset of those of $\beta$. The ambiguity in Class B would therefore follow from the fact that they realize either a full PP structure or shrink to a bare relational noun.

I leave a choice between a Baker-style conflation and a Starkean shrinking for future research.

## 7. Conclusion

In this paper, I have argued that Class A adpositions are syntactic heads, and clearly belong to the functional category P. On the other hand, I have argued following Baker (2003) that Class B adpositions portray mixed properties because they involve conflation - incorporation into a null P head prior to lexical insertion. In a Starkean architecture, I have hinted that Class B items are a hybrid category because they can be inserted in structures ambiguous between a PP and a bare relational noun.

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[^0]:    * I would like to thank Peter Svenonius and Klaus Abels for their comments on this paper, and Marina Pantcheva for the proofreading work. Any shortcomings in the paper are however the author's responsibility.
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[^1]:    a. Maria $\mathrm{n}-\mathrm{a}-\mathrm{ir}$-ir -e ntûmwa kîrî mw-arimû/ 1Maria F-SM1-take-PERF-FV 9message DIR 1- teacher/ thirikaarî
    9 government
    'Maria took the message to the teacher/government'
    b. Maria n-a- gwat-ir -e ntûmwa ku-uma kîr̂̂ mw1 Maria F-SM1-hold -PERF-FV 9message 15 -come DIR 1-
    arimû/ kampuni j-a incuaransi
    teacher/9company 9-as 9insurance
    'Maria got/received a message from the teacher/from the insurance company'

[^2]:    ${ }^{1}$ The bulk of other prepositional functions, among them bene/malfactive, instrumental, locative and circumstantial, are carried out by the applicative in Kîtharaka. I do not discuss the applicative construction in this paper. There are also the $\mathrm{i} / \mathrm{n}$ morphemes which occur on "demoted" subjects of passives and which resemble the focus marker in allomorphy: $i$ occurring when it precedes a consonant-initial DP, and $n$ a vowel-initial DP. I do not discuss them in this paper either.
    ${ }^{2}$ Other verbs that can be used with kîrı̂ include ugia 'run', thi 'go', ingirita 'roll', thûngutha 'jump', tindîka 'push'.
    ${ }^{3}$ Glosses are as follows: F (focus marker), SM (subject agreement), Pres (present), PERF (perfective), ST (stative), CSI (inner causative), PASS (passive), FV (final vowel), DIR (direction), DEG (degree), LOC (locative), AS (associative marker), RP (resumptive pronoun), PS (personal pronoun), Q (question particle), HAB (habitual), PN (near past), OM (object marker), PREF (prefix). A numeral on a noun indicates the class of the noun, a numeral on an agreement morpheme, modifier or pronoun indicates agreement with a noun of a particular class. ^ indicates the tense vowels.

[^3]:    ${ }^{4}$ In a strictly decompositional system of PPs such as that adopted in Koopman (2000) and extended in den Dikken (2003), one might argue that directional prepositions merged in Path ${ }^{0}$ can move to DegPath ${ }^{0}$ hence indicating degree.

[^4]:    ${ }^{5}$ Topics in Kîitharaka are moved sentence initially and are severed from the rest of the clause by a pause. On the other hand, focus and wh-constructions may appear sentence initially or after the subject. In addition, focus constructions, unlike topics, are introduced by the focus marker, which has two allomorphs - $n$ prevocalically and $i$ preconsonantally (see Muriungi 2005 for details).
    ${ }^{6}$ The fact that prepostions cannot be stranded in Kîitharaka but must either be piedpiped with the topicalized or focalized noun or be resumed possibly indicates that PPs are strong phases in Kîitharaka (Abels 2003).

[^5]:    ${ }^{7}$ Independently, the option where the focus marker would be attached to the fronted with $P P$ is ruled out because of the requirement in Kîitharaka that the focus marker be immediately followed by a noun class marked X. For kîr$\hat{\imath}$, there is a possibility that it is a combination of the class 7 prefix $k \hat{\imath}$ and the locative copula $r \hat{\imath}$ but I will not go into the details here.

[^6]:    ${ }^{8}$ Karib̂ is the only Class B adposition that does not agree; it takes the preposition $n a$ (with) instead.

[^7]:    ${ }^{9}$ See however Koopman (2000) footnote 27 for a Dutch example of a P taking a PP complement. Overall, however, the case Resistance Principle seems to be operative in a number of languages (cf. Aboh 2005 for Kwa.)

[^8]:    ${ }^{10}$ The Class B adposition karib $\hat{u}$ 'near' or 'next to' does not behave like any other of the Class B adpositions in any way. We saw already that instead of taking associative agreement it takes the preposition $n a$ 'with'. Karîbu never also displays any nominal properties. Thus it cannot be modified by any of the nominal modifiers.

[^9]:    ${ }^{11}$ Note that the focus particle $n k a$ 'alone', which always agrees with the NP it associates with, suggests the obligatoriness of a nominal associate because it bears Class 15 pronominal agreement. The agreement that nka 'alone' takes is the strong pronoun. Ak $\hat{\imath}$ 'only' does not agree with the associate.

[^10]:    ${ }^{12}$ The same point could be made for English; beside and besides, on the front and on the fronts (war zones).
    ${ }^{13}$ Derogatives in Kîitharaka are formed by pre-prefixing class $7 / 8$ prefixes $k \hat{\imath}$ and $\hat{\imath}$, and class 6 prefix ma.

