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Literal and metaphorical usages of Babanki EAT and DRINK verbs

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Abstract
In Babanki, a Grassfields Bantu language of North-West Cameroon, two of the numerous consumption verbs, namely the generic verbs ʒɨ́ ‘eat’ and ɲʉ́ ‘drink’, constitute a major source of metaphorical extensions outside the domain of ingestion. Setting out from a characterisation of the basic meanings of these two lexical items as they emerge from their paradigmatic relations within the semantic field of alimentation processes, this paper explores the figurative usages of the two verbs and their underlying semantic motivations. Semantic extensions that radiate from EAT can be subsumed under two closely related structural metaphors, i.e. APPROPRIATION OF RESOURCES IS EATING and WINNING IS EATING. The first metaphor construes the acquisition and exploitation of non-food items such as material possession as eating, while the second metaphor casts the acquisition of immaterial advantage in the mould of eating. Both metaphors have further entailments, i.e. the derivation of pleasure from consumption of resources, the depletion of resources via consumption and the deprivation of a third party from access to these resources. Semantic extensions that radiate from DRINK can be accounted for in two structural metaphors, i.e. INHALATION IS DRINKING and ABSORPTION IS DRINKING. Remarkably, some metaphorical extensions of consumption verbs attested in other African languages, such as extensions of EAT for sexual intercourse and for killing, and the extensions of DRINK for undergoing trouble and enduring painful experiences are absent in Babanki.

Keywords: consumption verbs, metaphor, metonymy, Babanki

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1 Introduction

In Babanki, a Grassfields Bantu language of North-West Cameroon, the consumption verbs ʒɨ ‘eat’ and ɲʉ́ ‘drink’ constitute a rich source of metaphorical extensions similar to what is seen crosslinguistically (Williams 1991, Newman 2009, Jaggar & Buba 2009, Song 2009, Næss 2009, Ye 2010, Næss 2011). This is because both concepts relate to very basic human activities which have been recognised to participate actively in metaphorical extensions, and which Newman (1997, 2009) identifies as internalisation and transformation of food and drinks. Eating and drinking are basic activities of all human beings required for survival and growth as well as sources of pleasure and sociability. So both concepts seem to be universally lexicalised as consumption verbs that denote the process of taking solid or liquid food into the body through the mouth. More specifically, eating involves “(a) intake of food into the mouth, (b) mastication of the food involving mainly teeth, tongue, and roof of the mouth, (c) swallowing of the masticated food, and (d) sensory experiences on the part of the consumer” (Newman & Aberra 2009: 225). For its part, drinking involves “(a) intake of liquid into the mouth, (b) swallowing of the liquid, and (c) (usually positive) sensory experiences on the part of the consumer.” Although these activities are universal, they are not performed in the same way in all communities (Næss 2011). Their universality lies only in the physiological aspects of eating and drinking, i.e. the concept of taking food or drinks from outside into the body using the mouth as a passage (Agyepong, Amfo & Osam 2017: 63). As Ye (2010: 375) observes, “recent cross-linguistic investigation has pointed to both the regularities and variations in the way humans conceptualise the activities of eating and drinking”. Languages distinguish between consumption verbs based on the characteristics of an object and/or the manner of its consumption. The distinction in Navajo is based on the characteristics of the object (Rice 2009), while in English, the manner of consumption tends to be considered in the first line. In languages such as English, there is a clear interrelation between the characteristics of the object and the manner of its consumption, i.e. the characteristics, especially the texture entails how an object is consumed. English verbs such as ‘crunch’, ‘munch’, ‘gnaw’, ‘grind’, ‘slurp’ refer to the manner of eating, while necessarily also referring to the quality of the object that is
eaten. In Babanki the primary criterion of distinguishing between consumption verbs is the texture of the object which, in turn, determines the manner of consumption.

In this study we explore the semantics of the consumption verbs and examine the connection between the literal and metaphorical uses of the generic consumption verbs ʒɪ́ ‘eat’ and ɲʊ́ ‘drink’. The data reveal that the metaphorical extensions that radiate from eat cover the appropriation of non-food items such as material possessions, emotions such as pleasure derived from exploiting them and their subsequent depletion, while those that radiate from drink refer to processes which involve the internalisation of aeriform or gaseous materials by animate agents and the absorption of liquids into various types of porous substances. To properly explore the uses of these two consumption verbs, ʒɪ́ ‘eat’ and ɲʊ́ ‘drink’, this study proceeds in section 2 to present and characterise their basic meanings as they emerge from their paradigmatic relations within the semantic field of alimentation processes at large before discussing their metaphorical and metonymical extensions in section 3. This is followed by a conclusion in section 4.

2 Consumption verbs

Manners of taking food and drinks into the body through the mouth can be expressed in Babanki by various consumption verbs such as ʒɪ́ ‘eat’, ɲfɪ́ʔ ‘eat by chewing’, ɲʊ́ ‘drink’, ɲʊ́ ‘drink’, mì ‘swallow’, ʃwɔ́ŋ ‘suck’, and ɲʊ́ ‘drink’. As will be shown in section (3) below, only the verbs ʒɪ́ ‘eat’ and ɲʊ́ ‘drink’ are singled out from this list in undergoing metaphorical extension. This is because ʒɪ́ ‘eat’ and ɲʊ́ ‘drink’ are the prototypical verbs for the ingestion of

2 The data presented and analysed here come from two sources. The first author had five WhatsApp consultation sessions in December 2020 with five other native speakers of Babanki during which they produced most of the examples adapted and presented in this paper. All sessions taken together have the duration of approximately two hours. One session was dedicated to talking about the consumption of food and drinks while the other four focused on the use of the verbs ʒɪ́ ‘eat’ and ɲʊ́ ‘drink’ in any context participants could think of. The consumption verbs and metaphorical usages of ‘eat’ and ‘drink’ were later extracted and analyzed. The first author also generated examples based on his native speaker competence. Many thanks to Vivian Ba-ah, Regina Phubong, Cornelius Wuchu, Stanley Amuh, and Benjamin Nkwenti for sharing their knowledge of Babanki with us.
solid food vs. liquids, as reflected in their default usage in contexts where neither the object nor its texture nor the manner of eating (1) or drinking (2) is specified.

(1) a. **Búŋ yì ʒìɣɔ̄ láyn á**
    Bung P1 eat what today QUES
    ‘What did Bung eat today?’

    b. **Búŋ ə́ yî ʒì nántô**
    Bung DJ P1 eat much
    ‘Bung ate a lot.’

(2) a. **Búŋ yì jùŋ ɣɔ̄ láyn á**
    Bung P1 drink what today QUES
    ‘What did Bung drink today?’

    b. **Búŋ ə́ yî jùŋ nántô**
    Bung DJ P1 drink much
    ‘Bung drank a lot.’

Any of the other, semantically more specialised, verbs can be used in these contexts with the effect that the texture of the food and the manner of eating it are specified according to the verb’s meaning.

Each of the consumption verbs listed above denotes the texture of the object consumed, i.e. hard or soft, depending on whether it is raw, properly or partially cooked, or fried, as well as encoding the specific manner of eating or drinking. An overview of the distinctions is visualised in table (3) where the food items are grouped according to the verbs that typically collocate with them specifying their texture and the way they are consumed.

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3 The L tone on the verb is due to Low Tone Spread (LTS) from the preceding L tone. LTS dislodges the H of the verb which joins the L of a following noun prefix to form a HL falling tone, which is subsequently simplified to M. In the absence of a following prefix the dislodged H is deleted (Akumbu, Hyman & Kießling 2020).
Overview of consumption verbs and food items

| Verbs | Food items |
|-------|------------|
| ʒɪ́ ‘eat’ | ƙɔbɔyn ‘fufu’, ndù ‘koki’, ƙɔlɔŋ ‘achu’, ƙɔkwɛ́n ‘beans’, ƙɔkwɛ́n ɔ mə̄ŋkɔlɔ ‘rice’, ƙɔlɔŋ kɔ mə̄ŋkɔlɔ ‘cocooyam’, ƙɔlɔŋ kɔ kɔkɔ ‘taro’, ndɔŋ ɔ mə̄ŋkɔlɔ ‘potato’, ndɔŋ ɔ lɔm ɔ ‘sweet potato’, kɔsɔ ‘cassava’, ŋbù ‘pumpkin’, kɔʒə ‘yam sp.’, ɗlɛ́m ‘yam sp.’, mbɔsɔ ‘vegetable’, kɔʒə ‘bitterleaf (vernonia amygdalina)’, tɔwɔs ‘peas’, ɗŋɔm ‘banana, plantain’, mbù ‘peanut pudding’ [...] |
| pfɪʔ ‘eat by chewing’ | ɲɔm ‘meat’, ɲù ‘fish’, bɔlɔ ‘peanuts’, ɗŋɔʔsɔ ‘egusi (CPE)’, ɔsșɔ ‘maize’, fɔŋwɔlɔ ‘mango’, ɲwɔbɔŋ ‘guava’, kɔnsəŋsəŋ ‘pineapple, sugar cane’, ɔbí ‘kolanut’, mbvɛn ‘grasshopper’, kɔntsi ‘cricket’, fɛnfi ‘beetle’ [...] |

4 Fufu is the most popular staple food among the Babanki made from corn flour. After grinding dried maize, water is boiled and the flour cooked and stirred in the water to obtain a semi-solid paste which is shaped into loaves using a calabash bowl and eaten with a vegetable or sauce.

5 Koki is also made from corn. Fresh corn is ground and mixed with taro leaves, palm oil, and salt. The mixture is then tied up into plantain leaves and cooked. When ready it can be eaten with sweet potatoes, cassava, or plantains.

6 Achu is popular among the people of North-West Cameroon and is made by pounding cocoyam and/or taro into a paste using a pestle. It is generally eaten with what is popularly known as yellow soup.

7 “Vernonia amygdalina, a member of the daisy family, is a small shrub that grows in tropical Africa.” (Wikipedia, s.v. “Vernonia amygdalina”, last modified December 3, 2021, 00:08, https://en.wikipedia.org/wiki/Vernonia_amygdalina). It is called bitter leaf because of the bitter taste of the leaves.

8 Egusi is the Cameroon Pidgin English name of the seeds of pumpkins, one of the cucurbitaceous plants. (Wikipedia, s.v. “Egusi”, last modified September 12, 2021, 14:40, https://en.wikipedia.org/wiki/Egusi). After drying and grinding the seeds are used as a major ingredient in various soups, as well as for making egusi pudding.

9 Crickets and beetles are roasted in ashes and eaten directly or deep fried in palm oil, while grasshoppers can be eaten raw or fried without oil before eating.
| Verbs        | Food items                                                                 |
|--------------|-----------------------------------------------------------------------------|
| ló ‘eat by licking’ | lâmsə̀ ‘orange’, kɔmbàmbàyn ‘passion fruit’, byɔ̀ ‘avocado’, kànwi:tə ‘black nightshade’, ådzə̀ ‘plum (dacyrodes edulis)’, ìbyì ‘shell butter nuts’, əlyù ‘honey’, mbàsò ‘soup’, kə́zú ‘bitterleaf (vernonia amygdalina)’, təwàs ‘peas’, ɲgwɔ̀lə̀ ‘okra’, kə̀nvìʔtə̀ ‘mushroom’, fə̀sés ‘pepper’, fə̀mbváŋ ‘salt’, fə̀nɔ́ʔ ‘tomato, garden egg’, ə́nɔ̀s ‘onion’, ɡàlìk ‘garlic’, mə́nʃíʔ ‘oil’ [...]
| bwólə́ ‘eat noisily’ | ìsà́n ‘corn’, ɲɛ́ŋgwɔ̀lə̀ ‘mango’, ɲgwɔ̀bàn ‘guava’, ə̀bì ‘kola-nut’, ɲdòŋ ə́ lyìmà ‘sweet potato’, mbɔ̀mbɔ̀nh ‘bonbon’ [...]
| ʃwɔ́ŋ ‘suck’ | lâmsə̀ ‘orange’, kɔmbàmbàyn ‘passion fruit’, kə̀nsánsáŋ ‘pineapple, sugar cane’, kànwi:tə ‘black nightshade’, ådzə̀ ‘plum’, ìbyì ‘shell butter nuts’, mbɔ̀mbɔ̀nh ‘bonbon’ [...]
| ʃwɔ́ŋ ‘suck’ | ìsà́n ‘corn’, ɲɛ́ŋgwɔ̀lə̀ ‘mango’, ə̀sàn ‘kola-nut’, ɲdòŋ ə́ lyìmà ‘sweet potato’, mbɔ̀mbɔ̀nh ‘bonbon’ [...]
| lèm ‘bite’ | fə̀nɔ́ʔ ‘garden egg’, jàm ‘meat’, ʃu ‘fish’, ɲɛ́ŋgwɔ̀lə̀ ‘mango’, ìsàn ‘corn’, ʃà́làŋ kò mə̀ŋkàlò ‘cocoym’, kə́làŋ kò kàkà ‘taro’, ɲdòŋ ə̀ mə̀ŋkàlò ‘potato’, ɲdòŋ ə̀ lyìmà ‘sweet potato’, kàsà ‘ cassava’, ə́bú ‘pumpkin’, kə́zú ‘yam sp.’, ŋ́lèm ‘yam sp.’, ɲgwɔ̀bàn ‘guava’, kə̀nsánsáŋ ‘pineapple’, ɲɛ́ŋgòm ‘banana, plantain’ [...]

The verb ʒɪ̀ encodes the meaning ‘eat’ in general but it is used specifically when the food eaten has a soft texture and is easy to break down even for babies and older people who may lack strong teeth. When sufficiently cooked, some food items are soft enough to be easily tackled by an act of ʒɪ̀ ‘eat’, e.g. àkwɛ̀n ‘beans’ (4a) and ɲdòŋ ə́ lyìmà ‘sweet potato’ (4b).

10 The passion fruit is mostly called ‘Adam fruit’ in North-West Cameroon.

11 “Dacyrodes edulis is native to Africa, sometimes called safou (in Cameroon), atàngà (in Equatorial Guinea and Gabon), ube (in Nigeria), or African pear, bush pear, African plum, nsafu, bush butter tree, or butterfruit.” (Wikipedia, s.v. “Dacyrodes edulis”, last modified January 10, 2022, 06:18, https://en.wikipedia.org/wiki/Dacyrodes_edulis).

12 To eat oranges in Cameroon a small lid can be cut away and the juice is sucked out. It is also common for the skin to be peeled off using finger nails or a knife and then breaking little pieces to eat.

13 In order to eat sugarcane in Cameroon, the skin is first peeled off using one’s teeth or a knife before breaking the softer inner part into little and chewing to squeeze the juice into the mouth and swallow.
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(4) a. \( Búŋ \ yì \ ʒɨ̀ \ ā-kwɛ́n \ á \ bòŋgə̀ŋ \)
Bung P1 eat 6-beans PREP morning
‘Bung ate beans in the morning.’

b. \( Búŋ \ yì \ ʒɨ̀ \ ndɔ̄ŋ \ ə́ \ lyɨ̀mə́ \)
Bung P1 eat 1.potato 1.AM be(come) sweet
‘Bung ate sweet potato.’

The verb \( pfɨ́ʔ \) ‘eat by chewing’ rather describes the act of using a little more effort to masticate items such as \( ɲàm \) ‘meat’ (5a), \( ə̀sáŋ \) ‘corn’ (5b) and others listed in table (3) above. This is due to their relatively hard texture even when these items are cooked or fried.

(5) a. \( Búŋ \ yì \ pfɨ́ʔ \ ɲàm \ á \ bòŋgə̀ŋ \)
Bung P1 chew 9.meat PREP tomorrow
‘Bung ate meat in the morning (by chewing).’

b. \( Búŋ \ yì \ pfɨ́ʔ \ tà \ ə̀-sáŋ \)
Bung P1 chew only 5-corn
‘Bung ate only corn (by chewing).’

The semantic distinction between \( ʒɨ́ \) ‘eat’ and \( pfɨ́ʔ \) ‘eat by chewing’ can express the difference in the texture of the consumed object, i.e. whether the object is raw or cooked. This is seen when \( pfɨ́ʔ \) ‘eat by chewing’ rather than \( ʒɨ́ \) ‘eat’ is used to describe the eating of food items when they are not properly cooked, or are eaten raw or unripe, e.g. \( ɲə̀lə̀ \ ká \ mə̀ŋkə́lə̀ \) ‘cocoayam’, \( ɲə̀lə̀ \ ká \ kə̀kə̀ \) ‘taro’, \( ndɔ̀ŋ \ ə̀ \ məंkə́lə̀ \) ‘potato’, \( ndɔ̀ŋ \ ə̀ \ lyɨ̀mə́ \) ‘sweet potato’, \( kə̀sə̀ \) ‘cassava’, \( kə̀zə́ \) ‘yam sp.’, \( ə̀lɛ́m \) ‘yam sp.’, \( mbə̀sə̀ \) ‘vegetable’, \( ɲgwɔ̀bə̀ng \) ‘guava’ and \( ə̀ŋgɔ̀m \) ‘banana, plantain’. Thus, the selection of the verb \( pfɨ́ʔ \) ‘eat by chewing’ in (6) rather than \( ʒɨ́ \) ‘eat’ as in (4) indicates that the consumed items, i.e. beans (6a) and sweet potato, are not properly cooked or even raw\(^\text{14}\) rather than well cooked as entailed when used in collocation with \( ʒɨ́ \) ‘eat’ in (4).

(6) a. \( Búŋ \ yì \ pfɨ́ʔ \ ā-kwɛ́n \ á \ bòŋgə̀ŋ \)
Bung P1 chew 6-beans PREP tomorrow
‘Bung ate beans in the morning (by chewing).’

\(^{14}\) Babanki people do eat raw \( ndɔ̀ŋ \ ə̀ \ lyɨ̀mə́ \) ‘sweet potato’, but not raw \( ndɔ̀ŋ \ ə̀ \ mə̀ŋkə́lə̀ \) ‘potato’. 
b. **Bǔŋ yì pfi? ndɔ̄ŋ ə́ lyɨ̀mə́**
Bung P1 chew 1.potato 1.AM be(come) sweet
‘Bung ate sweet potato (by chewing).’

In other cases the manner of eating certain objects can be expressed only by a single verb. For example, the way **kɔ̀báyn** ‘fufu’ is eaten can only be encoded by **ʒɨ** ‘eat’ because there is only one way to prepare it, that is, the corn flour must be cooked thoroughly to produce a paste that is made into loaves and then eaten with a vegetable or soup. The way of eating **jiùm** ‘meat’, **fù** ‘fish’, **bëlə̀** ‘peanuts’, **ɔsáŋ** ‘corn’, **fɔŋgwɔ̀lɔ̀** ‘mango’, **kɔ̀nsánsáŋ** ‘pineapple/sugarcane’ can only be described by **pfi?** ‘eat by chewing’ since they do not become completely soft even after cooking (where applicable) and still require some effort to masticate. If peanuts are ground to make **mbúʔ** ‘peanut pudding’ then the verb **ʒɨ** ‘eat’ is used.

The manner of consuming food items that are liquid or soft is encoded by **ló** ‘eat by licking (using tongue)’, as illustrated in (7).

(7) a. **Bǔŋ yì ló byə̄ láyn**
Bung P1 lick 1.avocado today
‘Bung ate avocado today.’

b. **Bǔŋ yì ló ʒə-ʃʉ̀ ɔ̃gɔ̀wɔ̀lɔ̀**
Bung P1 lick 19-pepper with 1.okra
‘Bung ate pepper and okra.’

Some fruits such as **lâmsə̀** ‘orange’, **kɔ̀mbámbáyn** ‘passion fruit’, **kɔ̀nwìʔtə̀** ‘black nightshade’, **ə̀byɨ́** ‘shell butter nuts’, and **byə̂** ‘avocado’ become soft or contain a high amount of juice when ripe, which justifies the conceptualisation of their consumption as eating by licking. This is also true of various kinds of vegetables such as **kɔ̀ʒɨ́ŋ** ‘bitterleaf (**vernonia amygdalina**), **tə̀wás** ‘peas’, **ŋgwɔ̀lɔ̀ʔ** ‘okra’, **kɔ̀vúʔ** ‘mushroom’, **fə̀sɛ́s** ‘pepper’, **fə̀ɲɔ́ʔ** ‘garden egg, tomato’, **dŋɔ̀s** ‘onion’, and **gālik** ‘garlic’ which become soft when cooked. Other items actually come in liquid form, e.g. **mbàsə̀** ‘soup’, **mə̀nʃíʔ** ‘oil’, and **ə̀lyʉ̀** ‘honey’, but are not consumed by drinking, but rather in small quantities, i.e. by licking or by sips. **Fə̀mbváŋ** ‘salt’ comes in granular form, but can be consumed by licking in small quantities by dissolving either in liquid food or by saliva, just like **mbɔ̀ŋmbɔ̄ŋ** ‘bonbon’.
Búŋ yì lò fə̄-mbváŋ nàntô
Bung P1 lick 19-salt much
‘Bung ate a lot of salt.’

Apart from objects that are mostly liquid, i.e. lámsà ‘orange’, ə́lyù ‘honey’, mbàsə̀ ‘soup’, mə́nʃíʔ ‘oil’, the rest of the objects in this category, e.g. byə̂ ‘avocado’ (7a) and fə́sɛ́s ‘pepper’ (7b) can also be chewed when not well-cooked, not properly ripe or even raw, as illustrated in (8a–b).

(8) a. Búŋ yì pfɨ̀ʔ byə̄ láyn
Bung P1 chew 1.avocado today
‘Bung ate avocado today (by chewing).’

b. Búŋ yì pfɨ̀ʔ fə̄-sɛ́s nə̀ ŋgwɔ̀lɔ̀ʔ
Bung P1 chew 19-pepper with 1.okra
‘He ate pepper and okra (by chewing the pepper).’

The verb ló ‘eat by licking’ can also be used if someone eats any type of food, e.g. ‘fufu’ extremely fast (9a). The other verb that also refers to the act of licking, i.e. lɨ̀ŋ ‘lick (using fingers)’ describes the act of cleaning up a plate with fingers and licking them (9b). It is also used if someone finishes up the soup or vegetable before the carbohydrate, which could be ‘cocoyam’ or ‘fufu’ (9c), an act which is reprehensible and blameworthy.

(9) a. Búŋ yì lò kə̄-báyn ə́ n-lū
Bung P1 lick 7-fufu CONJ N-leave
‘Bung hurriedly ate the fufu and left.’

b. Búŋ yì ʒɨ́ ə́ n-ló kə̄-káŋ
Bung P1 eat CONJ N-lick 7-plate
‘Bung ate and then licked the plate.’

c. Búŋ yì lò mbàsə̀ n-kyé kə̄-báyn
Bung P1 lick 1.soup N-allow 7-fufu
‘Bung finished up the soup and left the fufu.’

The verb bwólə́ ‘eat noisily, crunch’ encodes the manner in which objects that have a hard texture are eaten, e.g. ə́sáŋ ‘corn’, fə́ŋgwɔ̀lɔ̀ ‘mango’, ŋgwɔ̀bàŋ ‘guava’, ə́bí ‘kolanut’, ndɔ̀ŋ ə́ lyɨ̀mə́ ‘sweet potato’, and mbɔ̀ŋmbɔ̄ŋ ‘bonbon’. Apart from ‘kolanut’ and ‘bonbon’, the rest of the items listed above can be eaten noisily only under certain
conditions, e.g. corn should be dried and fried (10b) and sweet potato should be raw or not properly cooked (11b–c) for *bwólọ* ‘eat noisily, crunch’ to be applicable.

(10) a. Búŋ yì pfè ə̄-sáŋ ə́ m-pfɨ́ʔ
Bung P1 boil 5-corn CONJ N-chew
‘Bung boiled corn and ate it.’

b. Búŋ yì kàŋ ə̄-sáŋ ə́ m-bwólọ
Bung P1 fry 5-corn CONJ N-crunch
‘Bung fried corn and crunched it.’

(11) a. Búŋ yì pfè ndɔ̀ŋ ə́ n-ʒɨ́
Bung P1 boil 1.sweet_potato CONJ N-eat
‘Bung boiled sweet potato and ate it.’

b. Búŋ yì pfɨ̀ʔ ndɔ̀ŋ ə̄-kú
Bung P1 chew 1.sweet_potato 1-raw
‘Bung ate raw sweet potato.’

c. Búŋ yì bwòlọ ndɔ̀ŋ wàyn ə́ n-tʃə́ʔ
Bung P1 crunch 1.sweet_potato 1.child DJ N-laugh
‘Bung crunched raw sweet potato and the child laughed.’

As seen in table (3) above, corn, mango, guava, kolanut, and sweet potato primarily collocate with the verb *pfɨ́ʔ* ‘eat by chewing’. The application of *bwólọ* ‘eat noisily, crunch’ instead of *pfɨ́ʔ* ‘eat by chewing’ in (10b) and (11c) highlights an unusually hard texture and an extraordinary amount of noise that accompanies the consumption, due to the hard texture of the object.

The verb *mì* ‘swallow’ describes possible ways of eating and drinking, since it can refer to the eating of food without chewing properly (12a), or eating rapidly without taking time to masticate (12b). The verb *mì* can also be used when someone keeps water in their mouth for a while before swallowing (12c).\(^\text{15}\)

\(^{15}\) Keeping the water in the mouth for a while is a necessary precondition since *jñù* ‘drink’ is used for gulping down water or any other liquid immediately.
(12) a. Būŋ yì mì à-kwɛ́n mtí
    Bung P1 swallow 6-beans swallow-SFX\(^{16}\)
    ‘Bung swallowed the beans.’

    b. Būŋ yì mì ndɔ̀ŋ ə́ n-lú
    Bung P1 swallow 1.sweet_potato CONJ N-leave
    ‘Bung swallowed the potato and left.’

    c. Būŋ yì káʔ ə́ m-mì múmù myì
    Bung P1 turn CON N-swallow 6a.water DEM
    ‘Bung finally swallowed the water.’

The verb is also used to reprimand a greedy person who wishes to eat more food than is available. In this case, the person expected to provide the food can give ironic encouragement to the greedy person to swallow any object (13).

(13) a. mtí Būŋ
    swallow-IMP Bung
    ‘Swallow Bung!’

    b. mtí ŋguʔ
    swallow-IMP 9.stone
    ‘Swallow the stone!’

The verbʃwɔ́ŋ ‘suck’ is used to talk about the consumption of food items like fruits that are liquid in nature when properly ripe, e.g. fɔŋgwɔlə̀ ‘mango’ or items that need sucking in the mouth before swallowing, e.g. mbɔ́ŋmbɔ́ŋ ‘bonbon’, as in (14a–b).

(14) a. Būŋ yì ʃwɔ̀ŋ fɔ-ŋgwɔlə̀
    Bung P1 suck 19-mango
    ‘Bung sucked the mango.’

    b. Būŋ ə́ ʃwɔ̀ŋ-ə́ mbɔ́ŋmbɔ́ŋ
    Bung DJ suck-PROG 1.bonbon
    ‘Bung is sucking the bonbon.’

Fɔŋgwɔlə̀ ‘mango’ normally collocates with pfiʔ ‘eat by chewing’, and if it becomes soft and someone uses their mouth to peel and eat

\(^{16}\) This suffix has been glossed simply as SFX for lack of a satisfying functional label since its presence is solely to specify the context of the occurrence of the repeated verb.
it, then only ʃwɔ́ŋ ‘suck’ is used. As will be seen below, to break off a little piece of an unripe mango with the teeth before chewing is denoted with the verb lɨ́m ‘bite’. Mbɔ̀ŋmbɔ̀ŋ ‘bonbon’ collocates with ló ‘eat by licking’ whereas fəŋgwɔ̀lə̀ ‘mango’ does not since ló ‘eat by licking’ usually applies to items which can be dissolved by saliva. Regarding other kinds of fruits such as lâmsɔ̀ ‘orange’, kə̀mbámbáyn ‘passion fruit’, and kə̀nwiʔtə̀ ‘black nightshade’ it is not clear what kind of contrast ensures that only ló ‘eat by licking’, not ʃwɔ́ŋ ‘eat by sucking’ is applicable with them.

The act of sucking does not only apply to human agents but to non-human animates such as fəmbúm ‘mosquito’ (16a) and kə̀kúf ‘tick’ (16b) as well.

(15) a. fə-mbúm fə́ yì ʃwɔ̀ŋ Búŋ ɣə̀ ə́
19-mosquito DJ P1 suck Bung 3SG DJ
η-kwáʔá
N-be(come)_ill
‘A mosquito sucked Bung (’s blood) and he fell ill.’

b. kə̀-kúf kə́ ʃwɔ́ŋ lí mə̀-nlyùŋ fá ə̄-wèn ə̀
7-tick DJ suck P0 6a-blood PREP 5-body 5.AM
ɲàm
9.animal
‘A tick has sucked the animal’s blood.’

This meaning can be construed as an extension from the meaning of a person consuming something. Stinging and biting by insects are as concrete as humans biting food (Newman & Aberra 2009), implying that this meaning is not particularly figurative. In this regard, it is important to note that the eat verbs listed above can have nonhuman animate agents, e.g. ʒɪ ‘eat’ is used when dogs, cats, or pigs eat solid food such as kə̀báyn ‘fufu’; pfíʔ ‘eat by chewing’ describes how cattle and goats eat grass or how dogs and cats eat meat; and ló ‘eat by licking’ is used when dogs and cats eat liquid food.

The verb lɨ́m ‘bite’ is used when a hard object needs to be broken down into little pieces before chewing, as in the case of mango (16a) and meat (16b). Objects in this category also include fəŋɔ́ʔ ‘garden egg’, kə̀lāŋ kə́ kə̀mə̄ŋkàlə̀ ‘cocoyam’, kə̀lāŋ kə́ káká ‘taro’, ndɔ̀ŋ ə̀ mə̀ŋkàlə̀ ‘potato’, ndɔ̀ŋ ə̀ lyımá ‘sweet potato’, kâsà ‘cassava’, ḣbúʔ ‘pumpkin’, kə̀zúʔ ‘yam sp.’, ḳlém ‘yam sp.’, ḳŋɔ̀m ‘banana, plantain’, ḳu ‘fish’, ḳsánj
‘corn’, ŋgwọ́bàŋ ‘guava’, kònsánsáŋ ‘pineapple/sugarcane’, as listed in table (3) above.

(16) a.  Búŋ  yì  lim  fọ-ŋgwọ́lọ̀  ə́ ŋ-kú  wāyn
    Bung  P1  bite  19-mango  CONJ  N-give 1.child
    ‘Bung took a bite from a mango and shared it with the child.’

b.  Búŋ  yì  lim  ñàm  ə̀ wāyn
    Bung  P1  bite  9.meat  9.AM  1.child
    ‘Bung took a bite of the child’s meat.’

As with sucking, the act of biting does not only apply to human agents but to non-human animates, e.g. fə̀mbúm ‘mosquito’ (17a) and kə̀kúf ‘tick’ (17b), as well.

(17)  a.  fə̀-mbúm  fọ  yì  lim  Búŋ  yà  ə̀
       19-mosquito  DJ  P1  bite  Bung 3SG DJ
       ə̀ kwáʔá
       N-be(come)_ill
    ‘A mosquito bit Bung and he fell ill.’

b.  kə̀-kúf  kó  lim  lí  ñàm
    7-tick  DJ  bite  P0  9.animal
    ‘A tick has bitten an animal.’

Drinking involves the movement of liquid through the mouth and down the throat facilitated by the tongue and the palate. The verb ɲʉ́ ‘drink’ describes the process of drinking múú ‘water’, mə̀nly̩ùʔ ‘wine (i.e. palm wine, soft and alcoholic drinks)’, and ŋkáŋ ‘cornbeer’, as in (18).

(18)  a.  Búŋ  yì  ɲʉ́ múú  nántô
       Bung  P1  drink  6a.water  much
    ‘Bung drank a lot of water.’

b.  Búŋ  ə́  ɲʉ́-ʉ́  tà  mə̀-nly̩ùʔ  mə́
    Bung DJ  drink-PROG only  6a-wine  6.AM
       m-ṣị́fẹ̀  mə̀
       N-white 6a
    ‘Bung drinks only palmwine.’
3.1 Semantic extensions of eat

In general, semantic extensions that radiate from eat are based on the process of getting food into the mouth and eventually swallowing it. They reflect the tendency for the internalisation of food to provide the agent with certain sensory experiences such as taste, satisfaction, pleasure or displeasure (Newman 2009). As for Babanki, all semantic extensions of the generic verb ʒɨ ‘eat’ build on two closely related overarching structural metaphors, i.e. APPROPRIATION OF RESOURCES IS EATING (3.1.1) and WINNING IS EATING (3.1.2), and a metonymical extension that links mutual agreement with commensality (3.1.3). The first metaphor construes the internalisation

17 The shorthand notation of conceptual metaphors by using small capitals follows conventions adopted in cognitive linguistics, most notably Lakoff & Johnson (1980) and Kövecses & Benczes (2010).
of non-food items such as material possessions as ingestion of food, which in itself is based on another structural metaphor RESOURCES ARE FOOD. The second metaphor casts the acquisition of immaterial advantage gained in a competition in the mould of eating. The metaphor APPROPRIATION OF RESOURCES IS EATING has two major entailments which derive from correspondences between source and target concepts on the level of individual aspects and sub-components. Thus, the insertion of food into the mouth as the initial phase in the act of eating simply corresponds to the appropriation of possessions itself. The act of swallowing corresponds to the eventual spending of the resources as enabled by appropriation. The act of spending typically entails two further effects, i.e. pleasure on the consumer’s side which corresponds to the derivation of positive feelings from the pleasant taste of food and the sensation of satiation in the course of eating (3.1.1.1) and reduction and depletion on the side of the consumed item which corresponds to the decrease of available food in the course of the meal (3.1.1.2).

In contrast to APPROPRIATION OF RESOURCES IS EATING (3.1.1), the structural metaphor WINNING IS EATING (3.1.2) rather highlights two additional aspects, i.e. the benefit gained does not reside in the appropriation of some material possession, but rather in some advantage gained in the course of a competition and at the expense of some other participant. In addition, the metaphor WINNING IS EATING is also linked to the first metaphor APPROPRIATION OF RESOURCES IS EATING by virtue of the negative effect of deprivation which the appropriation inevitably has on the prior owner of the resource in question. Such negative corollaries of autobeneficiary effects will be referred to as altrimaleficiary in the following.

The semantic extension ACHIEVING MUTUAL AGREEMENT IS EATING TOGETHER (3.1.3) is motivated by the cultural practice of sealing an agreement with the shared consumption of kolanuts.

3.1.1 Appropriation of resources

Taking over possession of something is often conceptualised via the structural metaphor APPROPRIATION OF RESOURCES IS EATING, which is based on yet another metaphor, namely, RESOURCES ARE FOOD. The applicability of both metaphors is motivated by the positive sensory experiences that are linked to the internalisation of food items being mapped onto the pleasant feelings that an individual
experiences as a result of taking over ownership in general (19a–c) and in specific cases such as collecting a bribe (19e). While the case of inheritance (19d) may predominantly involve negative feelings such as sadness about the loss of the deceased person, the inheritor may still be seen to gain a certain amount of satisfaction from inheriting the deceased person’s property. Beside mere appropriation, the metaphor also includes the notion of profit or benefit on the side of the agent and detriment to the former owner or some third participant. In contrast to ordinary expressions of possession and appropriation via verbs such as zɛ́n ‘buy’ in (20) and lyɨ̀ ‘take’, bɔ́ŋ ‘pick’ and kíʔí ‘have’ (28), the expressions based on the metaphor APPROPRIATION OF RESOURCES IS EATING include an additional notion of irretrievability, i.e. the items consumed in (19) become completely inaccessible to anyone else with no chance of retrieval. It is the semantics of the framing verb ‘eat’ that brings out this particular notion.\footnote{We owe this observation to one of the anonymous reviewers to whom we are grateful.}

(19) APPROPRIATION OF RESOURCES IS EATING
\begin{itemize}
\item[a.] Búŋ ṣé ʒí ŋlí nsé ọγ-ọm
Bung DJ eat P0 1.land 9-POSS
‘Bung has seized my piece of land.’
\item[b.] Búŋ ṣé ʒí ŋlí tfṣ̣̃
Bung DJ eat P0 1.njangi
‘Bung has collected the njangi money.’\footnote{The term \textit{njangi} is commonly used in Cameroon to refer a group of individuals who meet on a regular basis to contribute money and give it to one or more members at a time. During subsequent meetings previous benefactors refund the exact amount the current beneficiary had contributed and those who are still to benefit contribute an amount equal to or greater than an agreed minimum. Whatever they contribute will eventually be refunded to them when their turn to benefit comes.}
\item[c.] Búŋ ṣé ʒí-i ọγ-lyʉ̀
Bung DJ eat-PROG 3-honey
‘Bung is collecting honey.’
\item[d.] Búŋ ṣé ʒí ŋlí kə̀-bọ́ŋ ká tị̀̃
Bung DJ eat P0 7-compound 7.AM 1.father
\end{itemize}
The structural metaphor APPROPRIATION OF RESOURCES IS EATING has the following entailments: (a) the agent acquires some material item or gain, (b) the agent derives a positive effect from taking over ownership of the item or gain (profit or benefit), (c) the agent’s ownership of the item or gain is to the detriment of the prior owner (19a, c, e) or a third party, i.e. the other njangi candidates (19b) and other potential inheritors who go away empty-handed (19d). The agent willfully takes over possession of items, preventing some other participant(s) from doing so. In (19a, e), the victims are deprived of their items such that they actually lose it against their will. Elsewhere, the agent’s new possession may be endorsed or approved by others. In (19b) in particular, the choice of the beneficiary is always a consensus between the njangi members, whereas in (19c) only the owner of a beehive has the right to collect honey from it, and in (19d) inheriting property is usually based on the deceased person’s will.21 In all the cases in (19), the agent enjoys and gains satisfaction from appropriating a resource. The metaphor, therefore, includes the notion of profit or benefit on the side of the agent, showing that it is not simply a transfer of possession, but rather that the agent is actively involved in controlling the transfer. Even in the case of inheritance, which is patrilineal in Babanki, the agent is not passive as he has to prepare for and undergo the rituals involved. Implicit in the metaphor is the understanding that the material item or gain is not only appropriated by the agent, but it diminishes or vanishes from the perspec-

20 There is no negative connotation here at all, although the one who inherits would not say he has “eaten” his father’s property but would simply say he is the successor.

21 Inheritance which is not in the deceased person’s will is said to have been taken forcefully, as expressed in the following example.

Búŋ ə́ ʒɨ́ ³ŋ kə̀-bə́ŋ kə́ tíʔ ə́ wɛ́n á ŋāŋ
Bung DJ eat P0 7-compound 7.AM 1.father 1.AM 3SG by 9.force
‘Bung has usurped his father’s property.’

There is no negative connotation here at all, although the one who inherits would not say he has “eaten” his father’s property but would simply say he is the successor.
tive of the prior owner as a consequence of their loss of access to it. Although the appropriation of a resource from a prior owner is done with the intention of spending the resource for oneself, the notion of spending alone does not license the application of the metaphor of eating. Thus, when agents simply spend their legitimately earned money on buying some commodity, the metaphor of eating cannot be used; only the verb $z\text{ɛ́n}$ ‘buy’ (20) is available in this context.

(20) Lack of emphasis on appropriation of resources

a. $B\text{ǔn}\ y\ ə\ z\text{ɛ́n}\ ə\lí\ á-f\text{òg}\text{ívə}\ ə\ s\text{àn}\$  
$B\text{ung}\ DJ\ buy\ P0\ 8\text{-food}\ 8\text{.AM}\ 1\text{.month}$  
‘Bung has bought food for the entire month.’

b. $B\text{ǔn}\ y\ ə\ z\text{ɛ́n}\ ə\lí\ m\text{óntù}\ tá\ k\text{̑d}\text{íŋ}$  
$B\text{ung}\ DJ\ buy\ P0\ 1\text{.car}\ like\ 7\text{-many}$  
‘Bung has bought several cars.’

Using $z\text{ɛ́}\ ‘eat’ \text{ here would either produce the prototypical meaning}$

(21a) or another metaphor, i.e. WINNING IS EATING (21b) elaborated in (3.1.3).

(21) Lack of emphasis on appropriation of resources

a. $B\text{ǔn}\ y\ ə\ z\text{ɛ́}\ ə\lí\ á-f\text{òg}\text{ívə}\ ə\ s\text{àn}\ á$  
$k\text{̑d-t\text{í}}\ k\text{̑d-m\text{ù}}\?$  
7-day 7-one  
‘Bung has eaten a month’s food supply in a single day.’

b. $B\text{ǔn}\ y\ ə\ z\text{ɛ́}\ ə\lí\ m\text{óntù}\ tá\ k\text{̑d}\text{íŋ}$  
$B\text{ung}\ DJ\ eat\ P0\ 1\text{.car}\ like\ 7\text{-many}$  
‘Bung has won several cars.’

When money is spent, two different situations can license the use of the EAT metaphor. The first is illegitimate acquisition, i.e. the process of acquiring the money spent is inappropriate, e.g. using someone else’s money without their consent or in a way the owner disapproves of (22a), and the second is when the acquisition is legitimate but the money is misused or squandered, e.g. spending children’s school fees on alcohol or women (22b).
(22) Using the eat metaphor for spending money

a. Búŋ ə́ yî ʒɨ̀ ə̄-kó ə̄ɣ-ɔ́mə́
   Bung DJ P1 eat 5-money 1-POSS
   ‘Bung consumed/squandered my money (without my consent).’

b. Búŋ ə́ yî ʒɨ̀ ə̄-kó ə́ wɛ́n
   á mə̀-nlyʉ̀ʔ
   on 6a-wine
   ‘Bung misused his money on drinking.’

Additional remarks about some of the constructions in (19) are in order here. The meaning of (19a) includes the lack of consent on the side of the prior owner of the possession. Transfer verbs such as lyɨ̀ ‘take’ (23a) and ꩟ ‘receive’ (23b) would be used if the object(s) were willingly offered to or properly obtained by the agent.

(23) Willful transfer of possession

a. Búŋ ə́ lyɨ́ɨ̀ lí nsé ə̄ɣ-ɔ́m
   Bung DJ take P0 1.land 9-POSS
   ‘Bung has accepted a piece of my land.’

b. Búŋ ə́ ꩟ ꩟lí kə̀-mbó ə̄k-ɔ́m
   Bung DJ receive P0 7-bag 7-POSS
   ‘Bung has taken/received my bag.’

The situation in (19c) can be compared with the meaning of consuming honey which is expressed by the verb ló ‘eat by licking’ (24).

(24) Búŋ ə́ ló-ó ə̄-lyʉ̀
   Bung DJ lick-PROG 3-honey
   ‘Bung is eating honey.’

Therefore, “eating” honey refers to “collecting” and ʒɨ̀ ‘eat’ is not applicable for its actual consumption, due to the nature of the substance, but rather ló ‘eat by licking’ is applied, as laid out in the section on the semantic field of ingestion of food in section two and illustrated in (25) where the two activities of collecting and eating honey are done consecutively in that order.
Búŋ ə́ ʒɨ́-ɨ́ ə̄-lyʉ̀ ló-ó
Bung DJ eat-PROG 3-honey lick-PROG
‘Bung is collecting and eating honey.’

The eat metaphor for taking a bribe (19e) is widespread in Cameroon and Nigeria, as can be seen from its occurrence in Cameroonian Pidgin English (CPE), Cameroonian French (Meutem Kamtchueng 2015), and Nigerian Pidgin (Naija). In CPE, for example, it is common to hear the expression in (26) uttered by a service provider who intends to make the beneficiary understand that they have to give a bribe for the service provided.

(26) na thank you I di chop
COP thank 2SG 1SG AUX eat
‘Do I eat appreciation?’

P-Square’s big music hit of 2011 “Chop my money” illustrates the use of this metaphor in Naija.22 The eat metaphor for taking a bribe is prevalent in those African societies where bribing is conceptualised as feeding or as a (food-)gift, as pointed out by Polzenhagen & Wolf (2007).

The solid nature of the consumed item is crucial in the conceptual transfer of the structural metaphor APPROPRIATION OF POSSESSION IS EATING, since in none of the expressions in (19) above the verb ʒɨ́ ‘eat’ can be replaced byɲʉ́ ‘drink’, as shown by the ungrammatical constructions in (27a–b).

(27) a. *Búŋ ə́ ɲʉ́ lí nsé ə̄ɣ-ɔ́m
Bung DJ drink P0 1.land 9-POSS
‘Bung has *drunk my piece of land.’

b. *Búŋ ə́ ɲʉ́ lí tʃɔ́ʔ
Bung DJ drink P0 1.njangi
‘Bung has *drunk the njangi.’

As mentioned above, the EAT metaphor always includes the notion of benefit on the agent’s side which works to the detriment of some other participant(s). To express the transfer or acquisition of possession but without any additional ethical connotations, transfer verbs

22 NaijaPrey, s.v. “P-Square – Chop My Money Remix ft. Akon, May D”, last modified October 12, 2021, https://www.naijaprey.com/p-square-chop-my-money-remix-ft-akon-may-d/.
such as lyɨ ‘take’ (28a) and bóŋ ‘pick’ (28b) or the possession verb kíʔí ‘have’ (28c) are used.

(28) Other expressions of transfer and acquisition of possession

a. Búŋ á lyâ .handleClick 7-bag 7-POSS 7
   Bung DJ take P0 7-bag 7-POSS 7
   ‘Bung has taken my bag.’

b. Búŋ á bóŋ .handleClick 5-money 5-my 5
   Bung DJ pick P0 5-money 5-my 5
   ‘Bung has picked up my money.’

c. Búŋ á kíʔí .handleClick 5-money
   Bung DJ have P0 5-money
   ‘Bung has made money / become rich.’

While the agent acquires possession of the items in (28) and may derive profit or benefit from them, there is no indication that they consume the items nor that they acquire the items to the detriment of some other participant(s). In (28a), for example, the agent might have simply taken the bag to hand it over to the owner, just as in (28b) where the agent may also hand over the money to the owner. In (28c) the agent has become rich probably by working hard without preventing others from doing the same. This contrasts with the specific meaning of acquisition of property for one’s own benefit and consumption to the exclusion and detriment of other participants obtainable by replacing the central verbs in (28a–c) by ʒɪ ‘eat’, as in (29).

(29) Appropriation with detrimental side-effect entailed by the EAT metaphor

a. Búŋ á ʒɪ handleClick 7-bag 7-POSS
   Bung DJ eat P0 7-bag 7-POSS
   ‘Bung has confiscated my bag.’

b. Búŋ á ʒɪ handleClick 5-money 5-my 5
   Bung DJ eat P0 5-money 5-my 5
   ‘Bung has taken my money, i.e refused to refund it me.’
As illustrated in section 2, the generic verb ʒɨ́ ‘eat’ can undergo the metaphorical extensions in (19) but closely related consumption verbs like pfɨ́ʔ ‘eat by chewing’ (30a), ló ‘eat by licking’ (30b), bwólə́ ‘eat noisily’ (30c), mì ‘swallow’ (30d), lɨ́m ‘bite’ (30e), and ʃwɔ́ŋ ‘suck’ (30f) cannot. Their use in this context actually produces humorous effects.

(30) Inappropriateness of consumption verbs other than ʒɨ́ ‘eat’ for expressing appropriation

a. *Búŋ ə́ pfɨ́ʔ ə̄-ŋlí nsé ə̄ɣ-ɔ́m  
Bung DJ *chew P0 1.land 9-POSS  
‘Bung has chewed my piece of land.’

b. *Búŋ ə́ ló ə̄-ŋlí tfɔ́ʔ  
Bung DJ lick P0 1.njangi  
‘Bung has *licked the njangi.’

c. *Búŋ ə́ bwólə́ ə̄-lyʉ̀  
Bung DJ eat noisily.PROG 3-honey  
‘Bung is eating honey *noisily.’

d. *Búŋ ə́ mìì ə̄-ŋlí kə̀-bə́ŋ kə́  
tíʔ ə́ wɛ́n  
Bung DJ swallow P0 7-compound 7.AM 1.father 1.AM 3SG  
‘Bung has *swallowed his father’s compound.’

e. *Búŋ ə́ lɨ́m ə̄-ŋlí ŋkùf  
Bung DJ bite P0 1.bribe  
‘Bung has *bitten a bribe.’

f. *Búŋ ə́ ʃwɔ́ŋ ə̄-ŋlí ŋkùf  
Bung DJ suck P0 1.bribe  
‘Bung has *sucked a bribe.’
3.1.1.1 Enjoying resources

Metaphorical entailments under this subgroup are based exclusively on EAT and express pleasurable emotional states agents derive from spending a resource such as ə̄ɣɔ́ʔ ‘wealth’ in (31a). Since we prefer food which procudes an agreeable taste and avoid food which is not pleasant to taste, “there is an experiental bias towards enjoyable gustation” (Song 2009: 201). This bias actually motivates the metaphor ENJOYING RESOURCES IS EATING as an entailment of the structural metaphor APPROPRIATION OF RESOURCES IS EATING.

(31) ENJOYING RESOURCES IS EATING

a. Búŋ ə́ ʒɨ́-ɨ́ ə̄-ɣɔ́ʔ ə́ wɛ́n
   Bung DJ eat-PROG 5-wealth 5.AM 3SG
   ‘Bung is enjoying his wealth (e.g. by drinking beer, hiring labour, etc).’

b. wàyn ə́ ʒɨ́-ɨ́ ə̀-wɛ́n ə́ wɛ́n
   1.child DJ eat-PROG 5-body 5.AM 3SG
   ‘A child is enjoying himself (e.g. by playing, eating, dancing, etc).’

c. víʔí ə́ ʒɨ́-ɨ́ mbyí
   2.people DJ eat-PROG 9.world
   ‘People are enjoying life (e.g. by traveling, playing, eating, dancing, etc).’

Example (31a) reflects the linkage of the metaphor ENJOYING RESOURCES IS EATING to the metaphor APPROPRIATION OF RESOURCES IS EATING, since the wealth Bung enjoys is something he must have acquired by prior transfer, either by personal achievement or by inheritance. By contrast, examples (31b–c) show that the metaphor ENJOYING RESOURCES IS EATING also works independently, since in those instances the pleasure is derived from a resource for which prior appropriation is hard to conceive. The situation in (31b) can be interpreted as enjoying oneself by drawing on one’s own body as a resource in all types of physical activities which create pleasure. In (31c) eating the world is equated to enjoying life by drawing on resources available to anyone who is capable of taking them for themselves. The actors may manifest physical evidence of what has
been internalised through bodily gestures or other forms of expression of satisfaction.

Using DRINK in these expressions, as in (32), makes the metaphor collapse.

(32) a. *Búŋ ə́ ɲʉ́-ʉ́ ə̄-ɣɔ́ʔ ə́ wɛ́n
Bung DJ drink-PROG 5-wealth 5.AM 3SG
‘Bung is *drinking his wealth.’

b. *wàyn ə́ ɲʉ́-ʉ́ ə̀-wɛ́n ə́  wɛ́n
1.child DJ drink-PROG 5-body 5.AM 3SG
‘A child is *drinking himself.’

c. *víʔí ə́ ɲʉ́-ʉ́ mbyí
2.people DJ drink-PROG 9.world
‘People are *drinking life.’

3.1.1.2 Depleting resources
A crucial entailment of the structural metaphor APPROPRIATION OF RESOURCES IS EATING is depletion, i.e. the resource is diminished markedly in quantity, content, or value after appropriation as the new owner starts spending it. In other words, the resulting metaphor DEPLETION OF RESOURCES IS EATING is linked to the basic metaphor APPROPRIATION OF RESOURCES IS EATING via an intermediate metonymical step, i.e. SPENDING OF RESOURCES IS EATING. This entailment is motivated by the effect of eating on the patient, i.e. food that is consumed. As the consumer takes food into their mouth and breaks it down into digestible particles, the transformation is considered to be depletive, i.e. time and resources referred to are not simply spent, but rather used up to an extent which is commonly felt to go beyond the prototypical limit, as illustrated in (33).

(33) DEPLETION OF RESOURCES IS EATING

  a. ə̀-ʃēʔ yɛ́n ə́ ʒɨ́-ɨ́ ə̄-ʒʉ́
5-work DEM DJ eat-PROG 5-time
‘This job consumes time.’

  b. ə̀-ŋgə̀ŋ yɛ́n ə́ ʒɨ́ kə̀-tsɔ́ʔ
5-house DEM DJ eat P0 7-brick
‘This house has taken too many bricks to build.’
c. tósà yén ʒɨ̀ ndjísó
   1.trousers DEM DJ eat P0 10.fabric
   ‘This trousers has consumed a lot of tissue.’

d. fə̀-kɔ̄ʔ fə́ kə̀-ʃí
   19-tree DJ eat P0 7-place
   ‘A tree has occupied a lot of space.’

e. Búŋ ʒɨ̀ ə̄-kó ə̄ɣ-ɔ́mə́
   Bung DJ P1 eat 5-money 1-POSS
   ‘Bung squandered/consumed my money.’

The examples in (33) illustrate how certain resources, i.e. ə̀ʒʉ́ ‘time’ (a),
kə̀tsɔ́ʔ ‘bricks’ (b), ndjísó ‘fabric’ (c), kə̀ʃí ‘space’ (d), and ə̀kó ‘money’
(e) are depleted. In each case a greater amount of the resource is used
whereas the desire is that a lesser quantity should have been suffi-
cient. In (a), the job takes up too much time, just like the building that
requires more bricks for its construction (b), the dress that takes up more
fabric (c), the tree that takes up more space than is desired (d), and the
human agent who uses up money in a way that is not expected (e).

Although the agent derives pleasure from using someone else’s
money in (33e), the metaphor’s entailment is categorised as deple-
tion rather than pleasure from the perspective of the speaker who
regrets and disapproves of the action, as discussed above in (3.1.1.1).
The speaker regrets that the agent has used up the money either
without authorisation or in a way that was not expected.

That depletion entailments are limited to EAT is confirmed by the
fact that any attempt to replace the verb ‘eat’ in (33) with ‘drink’ pro-
duces only ungrammatical constructions, as illustrated in (34).

(34) a. *ə́-ʃēʔ yén ɲʉ́-ʉ́ ə̄-ʒʉ́
     5-work DEM DJ drink-PROG 5-time
     ‘This job is *drinking time.’

b. *ə́-ŋgə̀ŋ yén ɲʉ́ kə̀-tsɔ́ʔ
     5-house DEM DJ drink P0 7-brick
     ‘This house has *drunk too many bricks.’

Babanki extensions categorised under “depletion” are classified as
“destruction” extensions in a number of languages, e.g. Akan (Agye-
pong, Amfo & Osam 2017), Amharic (Newman & Aberra 2009),
Korean (Song 2009). The classification is based on what happens
to the patient, i.e., food, when taken whole or piecemeal into the mouth, crushed and chewed (i.e., masticated) by means of the teeth, tongue and palate and then swallowed. The reduction of food into small particles is considered to be “destruction”, and the metaphorical extensions are based on the destruction or transformation of the patient. In Babanki, however, the patient is not really “destroyed” and the target meaning is rather something like “use up beyond a prototypical limit”, and is better described as “depletion”.

3.1.2 Winning
Immaterial gains are conceptualised as eating, motivated by the structural metaphor WINNING IS EATING. In contrast to the metaphor APPROPRIATION OF RESOURCES IS EATING, the benefit gained does not reside in the acquisition of some material possession, but rather in some advantage gained in the course of a competition and at the expense of some other participant. Both metaphors are also linked by virtue of the altrimaleficiary effect of deprivation which the appropriation inevitably has on the prior owner, just as the triumph of winning has for the loser. The applicability of this metaphor is motivated by the positive sensory experiences that are linked to the internalisation of food items being mapped onto the pleasant feelings that an individual experiences as a result of winning, as in the following examples.

(35) WINNING IS EATING

a. **Búŋ ə́ ʒɨ́ lí (wàyn á) kə̀-ɲɨ́ŋ**
   Bung DJ eat P0 1.child in 7-running
   ‘Bung has won (beaten the child) in the race.’

b. **Kàmàlún ə́ ʒɨ́ lí (fə̀lāns á) bɔ̄**
   Cameroon DJ eat P0 France in 1.ball
   ‘Cameroon has won (beaten France) in the football game.’

c. **Búŋ ə́ ʒɨ́ lí (wàyn á) ntáŋ yì**
   Bung DJ eat P0 1.child in 9.quarrel DEM
   ‘Bung has won (defeated the child) in that quarrel.’

d. **Búŋ ə́ ʒɨ́ lí (ndʒìʔsə̀ á) nsɔ́ʔ**
   Bung DJ eat P0 1.teacher in 9.court_case
yì
DEM
‘Bung has won (defeated the teacher) in that court case.’

e. Bún ə́ ʒɨ́ lí ndɔ́ŋ
Bung DJ eat P0 9.cup
‘Bung has won the cup (trophy).’

f. Bún ə́ ʒɨ́ lí ə̄-kó
Bung DJ eat P0 5-money
‘Bung has won a lottery.’

The optional mention of the opponents in (35a–d) suggests that either the “competition”, i.e. kàɲàŋ ‘race’, bɔ̀ ‘football game’, ntáŋ ‘quarrel’, or the nsɔ́ʔ ‘court case’, or the opponent in the competition could be conceptualised as the patient and appear as direct object of ʒɨ́ ‘eat’. The following entailments are included in this structural metaphor WINNING IS EATING: (a) the agent acquires some immaterial gain, which (b) secures him or her an advantage (profit, gain, or benefit), (c) the agent derives a positive effect from winning, (d) the agent’s winning is to the detriment of some other participant.

3.1.3 Mutual agreement
Agreement between individuals or groups of people is lexicalised in the verb stem ʒɨ́mə́ ‘agree with each other’ (used only with plural subjects), as exemplified in (36) below. The verb stem ʒɨ́mə́ is derived from the root ʒɨ́ ‘eat’ by the associative extension -mə (Hyman 2018: 182) which expresses a social stem, i.e. the notion of cooperation of two or more participants. The semantic link which connects the source meaning ‘eat’ and the derived meaning ‘agree’ resides in the conventional practice of sealing an official agreement by both parties breaking and eating kolanuts together. The semantic transfer which derives the notion of mutual agreement from the notion of eating thus seems to be metonymical in nature in that shared consumption of kolanuts is taken to refer to the agreement that it seals.23

23 In addition, one might also argue that the metonymy ACHIEVING MUTUAL AGREEMENT IS EATING together also supports and strengthens the structural metaphor APPROPRIATION OF RESOURCES IS EATING, due to their convergence in the concept of pleasure. The mutual agreement achieved between two parties is a source of pleasure in that both gain mutual benefit from each other which is equal to the pleasure gained in a shared meal. And this corresponds to the pleasure a new owner
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(36) ACHIEVING MUTUAL AGREEMENT IS EATING TOGETHER

a. və̀wé ʒɨ́-mə́ ə́ ʒɨ́lí
   3PL DJ eat-ASS P0
   ‘They have agreed.’

b. və́ɣə́ŋ ə́ kó ʒɨ́-mə́ (bwɛ́n)
   1PL.INCL DJ NEG eat-ASS NEG
   ‘We are not in good terms with them.’

The associative verb ʒɨ́mə́ is specialised for the derived meaning ‘agree with each other’. The original meaning of its source ʒɨ́ ‘eat’ is no longer available in ʒɨ́mə́. In order to express the sharing of a meal one has to resort to periphrastic means, e.g. with the adverbial ámũʔú ‘together’ (37).

(37) a. və̀wé ʒɨ́ ə́lí kə̀-bán ámũʔú
   3PL eat P0 7-fufu together
   ‘They have eaten fufu together.’

b. və̀wé pfɨ́’ ə́lí ə̀-bí ámũʔú
   3PL chew P0 5-kolanut together
   ‘They have not eaten kolanut together.’

3.2 Semantic extensions of DRINK

Semantic extensions that radiate from DRINK are based on two structural metaphors, namely, ABSORPTION IS DRINKING and INHALATION IS DRINKING. The two stages of getting drinks into the mouth and eventually swallowing which are included in the meaning of the source verb ɲʉ́ ‘drink’ motivate its metaphorical extension to express absorption and inhalation. The metaphor ABSORPTION IS DRINKING (3.2.1) is based on the construal of the inanimate locus of absorption as personified agent of a drinking action while the metaphor INHALATION IS DRINKING (3.2.2) is based on the extension of eligible patients from liquids to aeriform or gaseous materials.

may derive from appropriating and spending a new resource as entailment from the metaphor APPROPRIATION OF RESOURCES IS EATING.
3.2.1 Absorption

In the process of absorption, a liquid substance such as mə̀nʒíʔ ‘oil’ (38a–b) or múfù ‘water’ (38c–e) penetrates a locus, i.e. infiltrates some porous or permeable material such as ə̄ŋgɔ̀m ‘plantain’ (38a), pwɔ̀fpwɔ́f ‘puff puff’ (CPE) (38b), nsé ‘soil’ (38c), kə̀báyn ‘fufu’ (38d) and ndʒísə́ ‘dress’ (38e) up to the point of soaking or satiating it. This process is conceptualised via the metaphor ABSORPTION IS DRINKING in Babanki. The semantic transfer underlying this metaphor resides in the construal of the locus of absorption as a metaphorical agent which actively initiates and willingly controls the process of taking in a liquid. At the same time, the theme role in the intrusion process is construed as a patient which undergoes reduction.

(38) ABSORPTION IS DRINKING

a. Búŋ káŋ ə̄-ŋgɔ̀m ɣə́ ɲ-ɲʉ́ mə̄-nʒíʔ
Bung fry 5-plantain DJ N-drink 6a-oil
‘Bung fried plantain and it absorbed oil.’

b. pwɔ̀fpwɔ́f ə́ ɲʉ́ lí mə̄-nʒíʔ
1.puff_puff DJ drink P0 6a-oil
‘The puff puff has absorbed oil.’

c. nsé ə́ ɲʉ́ lí múú myì
9.soil DJ drink P0 6a.water DEM
‘The soil has absorbed that water.’

d. kə̀-báyn kə́ ɲʉ́ lí múú wàyn ə́
7-fufu DJ drink P0 6a.water 1.child DJ
ŋ-kʉ́ʔsə́
N-add
‘The fufu has absorbed water and the child has added more.’

e. wàyn tʃʉ̀ ndʒí-sə́ sə́ ɲ-ɲʉ́ múfù
1.child soak dress-10 DJ N-drink 6a.water

24 Puff puff is the Cameroonian Pidgin English name of a popular West African fluffy and slightly crunchy doughnut made by deep frying dough in oil.

25 The noun class marker appears as a suffix since the noun ndʒí-sə́ ‘dress’ is from class 10 which is marked by the –sə́ suffix in Babanki as opposed to the rest of the classes which are marked by prefixes.
mw-ɔ̀mə̀
6a-POSS
‘The child soaked dresses and they absorbed my water.’

The construal of the liquid as patient in a metaphorical drinking process entails the notion of its depletion, i.e. as more liquid comes to be soaked in, the amount remaining outside decreases markedly in quantity. In (38a–b), the quantity of oil that would have been used to fry more plantains, puff puff or other items is depleted by the item fried and in (38c–e) the water is soaked up by the item involved requiring more water to be supplied.

Absorption metaphors in other languages, e.g. Amharic (Newman & Aberra 2009) are mapped from the positive benefits derived from drinking to the effect the absorbed liquids have on the receiving objects. As in Akan (Agyepong, Amfo & Osam 2017), what is evident in Babanki is “internalisation” rather than “entity benefit” since not all absorption/internalisation of liquids is beneficial to the consumer. As is well known, some liquids may provide the consumer with the desired positive sensory feeling, but may not be beneficial. The focus, therefore, is on the absorption, not the benefits.

Absorption metaphors are restricted to DRINK and using eat leads to the collapse of the metaphor, as exemplified in (39).

(39) a. *Búŋ káŋ ə̄-ŋgɔ̀m ɣə́ n-ʒɨ́ mə̄-nʒíʔ
Bung fry 5-plantain DJ N-eat 6a-oil

b. *pwɔ̀fpwɔ́f ə́ ʒɨ́ lí mə̄-nʒíʔ
1.puff_puff DJ eat P0 6a-oil

3.2.2 Inhalation
The extensions in this subgroup are restricted to DRINK and describe the smooth, continuous, unimpeded intake of stimulants through the nasal-oral tract. As noted by Song (2009: 205) “gas and gas-like substances are akin to liquid in that they have a volume but no (definite) shape. They can also be inhaled through the nose - or the mouth if required - without interruptions, just as liquid is taken through the mouth into the stomach and intestines with virtually no interruption”. It is this smooth, continuous, uninterrupted intake that motivates the metaphorical extensions. The inhaling or smoking interpretation is obtained by collocating nụ ‘drink’ with kə̀bhìʔ ‘dust’ (40a) or ndɔ̀bɔ̀ʔ
‘cigarette’ (40b), kə̀fʉ́ ‘medicine’ (40c), kə̀táʔ ‘cold’ (40d) fə̀lɨ́ʔ ‘smoke’ (40e), kə̀fwɔ̀s ‘fart’ (40f), and kə̀lɛ̀m ‘smell’ (40g).

(40) INHALATION IS DRINKING

a. Búŋ á jʉ́ kə̀-bhìʔ
   Bung F1 drink 7-dust
   ‘Bung will inhale dust.’

b. Búŋ ə́ jʉ́-ú ndɔ̀bɔ̀ʔ
   Bung DJ drink-PROG 1.cigarette
   ‘Bung is smoking a cigarette.’

c. Búŋ ə́ jʉ́ lí kə̀-fʉ́
   Bung DJ drink P0 7-medicine
   ‘Bung has taken medicine.’

d. wàyn ə́ jʉ́ lí kə̀-táʔ ə́ sə́ kwáʔà
   1.child DJ drink P0 7-cold CONJ now ill.PROG
   ‘The child has been exposed to the cold and is now ill.’

e. wàyn ə́ jʉ́ lí fə̀-lɨ́ʔ ə́ n-tʃō
   1.child DJ drink P0 19-smoke CONJ N-pass
   ‘The child has been exposed to too much smoke.’

f. Búŋ ə́ jʉ́ lí kə̀fwɔ̀s ə̀k-yə̀
   Bung DJ drink P0 7-fart 7-2SG
   ‘Bung has smelt your fart.’

g. Búŋ ə́ kó kɔ̀ŋ ə́-ɲʉ́ kə̀-lɛ̄m kə́
   Bung DJ NEG like INF-drink 7-smell 7.AM

26 While the verb jʉ́ ‘drink’ is used for both liquid medicine and tablets, mì ‘swallow’ is used only if the medicine is in the form of tablets.

27 Unlike ‘cold’, ‘heat’ is not encoded by jʉ́ ‘drink’ but by lɨ́m ‘be(come) hot’, as in the following example.

   ə̀-ʃí ə́ lɨ́m-ə̀ á ə̄-wɛ̀n ə̀ wàyn
   8-place DJ be(come) hot-PROG at 5-body 5.AM 1.child
   ‘The child feels hot.’
ɲàm
1.meat
‘Bung doesn’t want to inhale the smell of meat.’

Compared to the prototypical drinking scenario the only semantic parameter that changes in these metaphors is the patient, while the semantic characteristics of the agent role remain the same as with the prototypical meaning. Other languages in which inhalation is conceptualised via drinking include Amharic (Newman & Aberra 2009), Akan (Agyepong, Amfo & Osam 2017), Hausa (Jaggar & Buba 2009), Korean (Song 2009), Lango (Noonan 1992), Puluwat (Elbert 1972).

An attempt to use EAT in these extensions makes the metaphors collapse since the metaphors of inhaling or smoking are restricted to DRINK, as illustrated in (41).

(41) a. *Búŋ á ʒɨ́ kə̀-bhìʔ
   Bung F1 eat 7-dust
   ‘Bung will *eat dust.’

   b. *Búŋ á ʒɨ́-ɨ́ ndɔ̀bɔ̀ʔ
   Bung DJ eat-PROG 1.cigarette
   ‘Bung will *eat a cigarette.’

4 Summary

The generic consumption verbs ʒɨ́ ‘eat’ and ɲʉ́ ‘drink’ undergo various semantic extensions in Babanki, both metaphorical and metonymical. The proliferation of figurative meanings is more common with EAT than with DRINK, as recurrently observed crosslinguistically, e.g. for Amharic (Newman & Aberra 2009), Akan (Agyepong, Amfo & Osam 2017), and Korean (Song 2009). Semantic extensions of ʒɨ́ ‘eat’ are based on two closely related overarching structural metaphors, i.e. APPROPRIATION OF RESOURCES IS EATING and WINNING IS EATING. The first metaphor construes the internalisation of non-food items such as material possessions as ingestion of food, and is thus based on another metaphor RESOURCES ARE FOOD. The second metaphor casts the acquisition of immaterial advantage gained in a competition in the mould of eating. Further entailments of these metaphors have been traced along three separate lines of extension in a step-by-step fashion leading up to the target concepts, i.e. the altrimalefi-
ciary effects of appropriation of resources, the pleasure of enjoying resources and the depletion of resources, as visualised below in table (42). The conceptualisation of achieving mutual agreement by eating together must be treated separately on both formal and semantic grounds. First, it is not directly based on the verb ʒɪ ‘eat’, but rather on its social verb stem ʒɪmə. Second, the semantic transfer involved is not metaphorical in nature, but rather metonymical in that the notion of mutual agreement is derived from the conventional practice of sealing official agreements by breaking and eating kolanuts together.

Semantic extensions that radiate from ɲʉ ‘drink’ are accounted for in two structural metaphors: INHALATION IS DRINKING and ABSORPTION IS DRINKING. While the first metaphor is simply based on the extension of eligible patients from liquids to aeriform or gaseous materials, the second metaphor is rather based on the construal of the inanimate locus of absorption as personified agent of a drinking action.

(42) Babanki semantic extensions of EAT and DRINK

| Basic concept       | Steps of extension                                                                 |
|---------------------|-----------------------------------------------------------------------------------|
| EAT                 | > appropriate resources (non-food items) > consume / enjoy resources irretrievably > deprive another party from resources > derive an autobeneficiary effect from consumption |
|                     | > gain possession of resources (non-food items) > use of resources beyond prototypical limit > deprive another party from resources > reductive effect on resources > depletion |
|                     | > win competition (immaterial gain) > derive an autobeneficiary effect from winning > detrimental effect for loser |
| EAT TOGETHER        | > achieve mutual agreement                                                          |
| DRINK               | > soaking in of liquid into porous material > porose material ingests liquid > absorb (inanimate “agent”) |
|                     | > reductive effect on liquid                                                        |
|                     | > ingestion of aeriform or gaseous materials > inhale                               |

The entailments of the two basic metaphors derived from EAT in table (42) above, i.e. APPROPRIATION OF RESOURCES IS EATING and WINNING IS EATING, can be unified in a single semantic network in (43)
which exposes two crucial dimensions of the conceptual extensions branching off from the source concept EAT. First, it allows for an easy identification of areas of overlap in the metaphors’ entailments. Thus, the altrimaleficiary effect can be seen to result from both metaphors, i.e. it follows as the defeat of the loser in a competition from the fact that the winner takes the gain, according to the metaphor WINNING IS EATING; and at the same time it also follows as the deprivation of prior owners or competitors, according to the metaphor APPROPRIATION of resources is eating. The pleasure effect results from the enjoyable taste of food and the feeling of satiation on the side of the consumer under the appropriation metaphor, while it also results as the winner’s triumph from the winning metaphor.

(43) Unified model of semantic extensions of EAT
The second dimension the network aims to reveal is the matching of individual entailments with individual aspects of the source concept EAT, as explicitly detailed in the bracketed expressions. Thus, the appropriation of non-food resources and the immaterial gain acquired by winning a competition correspond to the intake of food in the mouth under the source concept. Spending the resources is paralleled by the act of swallowing the food. The pleasure the new proprietor derives from spending the resources as well as the triumph the winner experiences when winning the competition can be equated with the positive sensory experiences derived from the pleasant taste of food and the feeling of satiation on the side of the consumer. The detrimental effect on the side of the loser as well as the prior owner or competitor corresponds to their deprivation and loss of access to food. Finally, the depletion of the resource corresponds to the decrease of the food during the meal resulting from its destruction by the process of mastication and swallowing.

Crosslinguistically, metaphorical extensions of either EAT or DRINK may both present pleasant and unpleasant sensory experiences, e.g. extensions from shaa ‘drink’ in Hausa (Jaggar & Buba 2009). Although the verbs for EAT and DRINK express universal activities, since everyone eats and drinks, the activities are conceptualized differently in different cultures. As pointed out by Adjei & Atintono (2009: 192) “there will be variations in the extent to which people from different cultural settings profile the interpretations of the metaphorical expressions. There is a strong relationship between a people’s conceptual, environmental and cultural experiences and their linguistic systems which is shared across cultures”. This accounts for the remarkable absence in Babanki of some metaphorical extensions of EAT and DRINK attested in other languages, e.g. extensions of EAT for sexual intercourse, as in Akan (Agyepong, Amfo & Osam 2017), Hausa (Newman 2009, Jaggar & Buba 2009), Zulu (Newman 2009), Swahili (Sheikh & Wolff 1981) and Camfranglais (Stein 2021: 172), for kill something / someone in Amharic (Newman & Aberra 2009), Akan (Agyepong, Amfo & Osam 2017), Hausa (Jaggar & Buba 2009), Ewe and Dagaare (Adjei & Atintono 2009), and the extensions of DRINK for undergoing trouble and enduring painful experiences, as in Hausa (Jaggar & Buba 2009). On the other hand, the fact that EAT (and DRINK) activities are conceptualized differently in different cultures accounts for the presence in Babanki of the metonymy
ACHIEVING MUTUAL AGREEMENT IS EATING TOGETHER, which, to our knowledge, has not been reported for other languages.

Abbreviations

8 downstep, 3SG third person singular, 1PL first person plural, 3PL third person plural, 1…19 noun classes, AM associative marker, ASS associative, AUX auxiliary, CON consecutive, CONJ conjunction, DEM demonstrative, DJ disjoint, F1 Immediate future tense, H high tone, IMP imperative, INCL inclusive, INF infinitive, L low tone, M mid tone, N nasal, NEG negative, P0 immediate past tense, P1 hodiernal past tense, POSS possessive, PREP preposition, PROG progressive, QUES question, SFX suffix.

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