Vowel Serialization: A Derivation Contextualized Phenomenonin Yorùbá Morphology

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Abstract

The paper argues against the linguistic contextualisation of vowel serialization as basic phenomenon in the appraisal of Yorùbá concatenation morphology. Its findings are based on lexical derivation hypothesis of the lexical morphology theory to be able to account for the phonology and etymology of specified examples of vowel sequence in the language. Primary and secondary data were collected and subjected to analysis. Two sequence of vowel serialization as a morpho-phonological process in the word formation are identified: the VVCV, VCVV and CVV sequence. Vowel serialization frequently occurs consequent on the deletion of the first intervocalic segment and assimilation process between V1 and V2 in Yorùbá VVCV word sequence. Ideophonic words like gbòò, fòò, sàà, wàà and so on also undergo the similar processes. Also, functors such as kì í. má à, and tí ì comprise two seperate syntactic units each which mark two different functional categories in the language. Therefore, they are to be written seperately.

Keywords: Vowel sequence, transformation, Yorubá, lexical morphology, syllabic structures

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Introduction

Ordinarily, little efforts had been made in the literatures on the preponderance of vowel serialization in the language (see Awóbùlúyì 1978, 2008; Adékúnlé 2006). Although, the aforestated works give a brief analysis of the study, each of the literatures however, failed to present a clinical and disetting analysis of the incursion of the vowel serialization in the language. Many of these extant works only cited related examples of vowel serialization when discussing morpho-phonological processes^{‡‡}. This study therefore, presents the basic origin of vowel serialization in the language. Our findings focus on lexical derivation hypothesis of the lexical morphology theory. The study explores some aspects of descriptive derivational hypothesis of the theory. This is necessitated due to our efforts to account for the etymology and phonology of some specified examples as deemed fit in the study. The aspect of the theory contains some specifications and explanations that can express our candid opinion to solve some seemingly intractable problems on the phono-morphological explanation of the issue of vowel serialization in Yorùbá language as well as many other languages in the world. The study is divided into three sections: section one is the general introduction, in section two, the analysis is carried out while the conclusive remarks are drawn in the third section.

Analysis

Three sequences of vowel serialization as a morpho-phonological process in the word formation are identified in this study. These are VVCV, CVV and VCVV.

The VVCV Sequence

This type features two vowels at the surface structure as the first two syllables. Identified below are examples of VVCV sequence after transformational processes (elision, assimilation) are applied on them.

Item	gloss
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[†] The following abbreviations are used in this paper: NEG= Negation marker; IMP= Imperative marker; PROG= Progressive aspect marker; FUT= Future tense marker; HAB= habitual aspect marker; POT = Potential mood marker; 3pl = Third person plural pronoun; C = Consonant; V = Vowel; $\emptyset = Empty category$

(1) àánú (àrínú) mercy Eégún (egígun) masgurade eegun (egigun) bone aáyán (ayíyán) cocroach oògùn (ogùngùn) charm òógùn òrígùn) sweat òòló (òlìlò) grinder ààbò (àbìbò) a half òórò (òwúrò) morning

A cursory look at the above data shows that vowels [a], [e], [o] and not [i], [5] and [û] do not function as vowel serialization in the word-initial position of polysyllabic words in standard dialect of Yorùbá. Such a rule does feasible in Central Yorùbá dialects of Ifè and Ijèsà where [5] can be duplicated at the word-initial position as shown in words like *òór*ỳ "morning", *òót*ọ "truth" and so on (see; Adékúnlé, 2018; Oláńrewáju, 2022). This is not included in Awóbùlúyì's (1998) characteristics features of Central Yorùbá dialects. This sub-categorial account has been well spelt out in many literatures in the language as a product of VCVC basic phonological alternants (Owólabí 2011, Bámgbósé, Oyèláràn, 1971). Some of the postulated examples are shown below where the vowel serialization frequently occur due to the deletion of the first intervocalic segment and the operation and the occurrence of assimilation process between V1 and V2. The V1 obligatory maintains the unmarked status in the process. That is, the V1 is constantly retained.

(2)→ èèyàn (human beeing) ènìvàn → àárè (sickness) àrírè → àánú (mercy) àrínú → eégún (masqurade) egígún egigun \rightarrow eegun (bone)

 $\partial t it \phi \longrightarrow \partial ot \phi \text{ (truth)}$ $\partial ab ib \phi \longrightarrow \partial ab \phi \text{ (half)}$ $\partial ar ir in \longrightarrow \partial ar in \text{ (middle)}$ $\partial ar ir in \longrightarrow \partial ar in \text{ (morning)}$

The CVV Sequence

Data from Yorùbá language reveal that some words in the lexicon take the CVV sequence at the interface level. Such examples are: yìí (this), náà (the), gbòò, fòò,sàà, wàà. These`words are encapsulated into many examples of ideophonic words in Awóyale's works; most especially Awóyalé (1989)

To smoothen our analysis, we shall try to consider in-depthly the morphological composition of some related examples of words with CVCVV such as $m\not\in s\grave{a}n$ - $\acute{a}n$ (nine), $m\not\in w\grave{a}\acute{a}$ (ten) and so on. Then we divide our explanation into two categories: the first category occurs for adjectives such as $y\grave{i}i$ (this), $m\not\in s\grave{a}n$ - $\acute{a}n$ (nine), $m\not\in w\grave{a}\acute{a}$ (ten) and so on. Our analysis shall take the sequence as aforestated.

CVCVV Sequence (Mésàn-án, Méwàá)

Yusuf (1995) attest to the morphological derivation of many adjectives through verbs or nouns. The analysis below will provide the morphological account of the above-stated three words.

(3)
$$m\acute{u} + \grave{e} w\acute{a} \rightarrow m\acute{e} w\check{a} \rightarrow m\acute{e} w\grave{a}\acute{a}$$
 (ten) $m\acute{u} + \grave{e} s\acute{a} n \rightarrow m\acute{e} s\grave{a} n \rightarrow m\acute{e} s\grave{a} n$ (nine)

Awóbùlúyì (2008) demonstrates many examples of the countable nouns derived through the latest morphological process.

CVV Sequence (Gbòò, Fòò Wàà, Sàà)

One of the phonological characteristics of the ideophones in Awóyalé work is the preponderance of vowel sequence. He stressed that ideophones attain that linguistic phenomenon through deletion or permutation of either the identical consonant or the second consonant (C2). Based on such claim, we can trace the base forms of the above-stated examples to:

The process of second consonant C2 deletion as shown in the ideophones above is unattested in the nominal group of the language. Instead, the first consonant C1 in the disyllabic or trisyllabic nouns are only allowed to be deleted such as in:

(5)
$$\partial t it \phi \longrightarrow \partial ot \phi$$
 (truth)
$$eg un \longrightarrow eeg un \text{ (masqurade)}$$

$$egigun \longrightarrow eeg un \text{ (bone)}$$

$$aririn \longrightarrow aarin \text{ (middle)}$$

We observed from the forgoing examples reflect occurence of assimilation process after the deletion of the inter-vocalic consonants in V¹CV²CV³ sequence. That is, the first word always stays at the output. The peculiarity of the process of C2 deletion attested in the ideophones like gbògbòlgbòrò \rightarrow gbòò, fòfòlfòrò \rightarrow fòò, wàwàl wàrà → wàà(Awóyalé, 1995) and so on is therefore, one of the distinctive features of adverbs in the language.

On the issue of CVV sequence, there are few recondite lexical items that obtain their sequence vocalisation through phonosyntactic processes. These words occur in aspectual or tensual sentences. They occur in má à, kì í, tí ì, mòó mò, déédé, seése and so on. They occur in close-ended syntactic position: aspect and tense. Our analysis would be sub-divided into two based on their phonological sequence

Pre-modifiers (Kì í, má à, tí ì)

These words have two basic syntactic units ki or i is the basic negative introducer in standard dialect of Yorùbá (Fábùnmi, 2012; Adékúnlé, 2018). We will try to expand upon each of them sequencially as follow:

Kì í

Kí: a negative marker

i: progressive aspect marker

Let us consider these two syntactic units as used in a string of sentence in each of the examples below:

- (6) Olú kì í jà.Olú NEG PROG fight.'Olú does not fight'
- (7) Wọn kì í wá sí ibí.

 They NEG PROG come to here

 'They do not come here.'

Má à

Má: imperative marker

à (ì): a negative marker

As identified above, these two basic syntactic units (má, à) mark different functional categories (imperative and negation). For a clearer understanding, let us consider them in the examples below.

(8) Ø má à wá.

IMP NEG come

'Do not come.'

Má ì sùn. (9)IMP NEG sleep 'Do not sleep.'

The Yorùbá folk song below also elucidates better on má ì the underlying form of má à.

(10) Lílé: *Ìyá má ì lọ* (Lead:Mother, do not go)

Ègbè: Àiàn tièlè (Chorus: Àiàntièlè)

Lílé: Bàbá má ì lo (Lead: Father, do not go)

Ègbè: Àiàntièlè (Chorus: Àiàntièlè)

The implication borne out of identifying má in (8) and (9) as an imperative marker while \dot{a} and \dot{i} in (8) and (9) respectively mark negation, a diffferent functional category just like a (with a midtone) preceded by the same imperative marker in (6) below functions as a progressive marker.

(11) \emptyset $m\acute{a}$ a bò ní ibí. IMP PROG come at here 'Come to this place (Come here).'

It is discovered that the underlying form of a in (11) above is i before regressive assimilation applies on it. With our position above, it is equally important to note the following:

The future marker *máa* (in 12)below has different a. orthography and feature properties as má identified as an imperative marker, and therefore, must be written together.

(12) Olú máa wá. Olú FUT come 'Olú will come.'

In a nutshell, má à (má ì) comprises two syntactic units of different functional categories (imperative and negation) while máa is a future tense marker. This resolution to the best of our knowledge is novel in the literature of Yorùbá Grammar.

- b. Máa n, an aspectual marker in Yorubá behaves dissimilarly to má à and má a discussed above although it has its items (máa, ń) written seperately. These two items only function as a syntactic unit; it is just a functional head as clarified in the examples below.
 - (13) (a)Ovè máa ń ké. Oyè HAB shout Oyè (always) shout.'
 - (b) ?Oyè máa í ké. Oyè FUT PROG shout Oyè (always) shout.'

The glossing in 13b above is counter-intuitive because máa does not mark tense in *máa ń*.

c. Both syntactic units (má, à) are classified as pre-modifiers in this work. Whenever they precede a monosyllabic lexical verb bearing a high tone, the negative marker behaves' similarly to what Bamgbose (1990) refers to as assimilated low tone shown below:

(14) (a) oni apá
$$\rightarrow$$
 alápá
 Prefix arm arm's owner

(b) oni àpá
$$\rightarrow$$
 alá `pá \rightarrow alápàá

Prefix scar owner of a scar (a person with a`scar)

(Bamgbose, 1990:43-

44)

 $\downarrow\downarrow$

E má à wá. (vowel assimilation

3pl IMP NEG come

 $\downarrow\downarrow$

E má wá. (assimilated low tone)

3pl IMP NEG come

 $\downarrow\downarrow$

E má wáá.

3pl IMP NEG come

'Do not come.'

Tí ì

tí: imperative aspectual marker

i: negative marker

Reference to the above analysis, it is evident that vowel serialization occurs in the afore-mentioned examples as a product

of phonological, morphological and syntactic processes. The negative aspectual marker ti in ti i is an allomorph of ti, the perfect apectual marker operated in affirmative sentences. Therefore, they are both mutually exclussive with respect to positive and negative polarity as shown below. Double negative markers are attested whenever ti (as a negative variant) is operated in the language as shown (in 16b) below:

- (16) (a) $\dot{a} ti lo r\dot{e}$ Prefix PERF go his'his going/his to'
 - (b) $\dot{a} ti b\dot{\phi} r\dot{\psi}$ Prefix – PERF – come – his 'his going/his to'
- (17) (a) $\hat{a}\hat{i} t\hat{i} \hat{i} l\phi r\hat{e}$ Prefix PERF NEG go his 'his not going yet'
- (18) (a) Olú ti lọ.
 Olú PERF go
 'Olú has gone.'

(b) Olú kò ti ì Olú NEG PERF NEG go 'Olú has not gone.'

Negation can still be retained in a derivation even without $k\partial/\partial$ 'not', particularly in a rhetorical question form as shown below:

(19) Èyín tí ì $m \circ ?$ You PEF NEG know 'Have you known'

(You have not (really) known)

Therefore, identifying kì il má àl tí ì as a syntactic unit and having them written together in the orthography of the existing literature is still not in line with the intuition of the native speakers of the language based on the following syntactic facts:

- Two (or more) functional heads are allowed to collocate in a ล. single clause in the language, however, they are written as seperate syntactic units as depicted in the examples below:
 - (20) (a) Ògá kò níi wá ní òla Master NEG FUT come at tomorrow 'The master wikll not come tomorrow.'
 - (b) Won kò tí ì lè máa lo sí ibè. 3pl NEG PERF NEG POT FUT GO to there

'They cannot be going there now.'

- b. Each of these functors are written seperately when they are in their underlying forms as shown below:
 - (21) (a) \mathcal{O} $m\acute{a}$ i $l\rlap{o}$ IMP NEG go 'Do not go.'
 - b. $?\mathscr{O}$ $m\acute{a}$ \grave{i} $l\rlap{o}$. $\mbox{IMP-NEG go}$ 'Do not go.'
 - (22) (a) \emptyset $k\grave{o}$ \acute{i} $j\grave{a}$. NEG PROG fight. 'He does not fight'
 - (b) $?\emptyset$ $k\grave{o}$ \acute{i} $j\grave{a}$. NEG-PROG fight. 'He does not fight'

Déédé, mộómò, seése

Syllabicity decomposition of the above words reveals that the second syllable takes a high tone. Also, the first and the third syllables possess the same phonologically identical characteristics. They behave like echo verbs in Yorùbá (Awóbùlúyì, 978: 54-55). Our analysis for this observation goes thus:

- i. There is a pre-specified i (with high tone) in he basic formation. This i was assimilated before the merger (Awóbùlúyì, 1978).
- ii. The flank verb occur as echo verbs in adverbial syntactic position.
 - iii. The pre-specified *i* may be a reduction form of *mi* or an anaphor. This paper does not intend to clarify this. Future researches may work into the clarifications

The inferences of the high tone syllable has therefore, served as the basis of the attestation of vowel serialization in the aforestated words.

Now, let us provide the anatomical and phonological description of some di-syllabic verbs of CVV sequence, such as *jeun* "eat food", seun "do something" and so on. The basic segemental sequence of the forgoing examples is CVCV. These two examples appear as jerun "eat food" and serun "do something" in Ìjèbú dialect (Kújoórè, 2018). The C2 sequence got deleted in transistion, Also, Táíwò (2011: 14) listed an example of zerun (eat) from Ào dialect of Yorùbá as shown below:

(23)Onikóni rhín zerun Nobody is 'Nobody is eating.'

The phonological differences between zerun (Ao), jerun and zerun ((Ìjèbú), and jeun and seun (Standard Yorùbá) can be acounted for. Meanwhile, previous studies have ractified the susceptibility of liquids and glides (r, h, w, y) to deletion or permutation through phonological processes in the language (Bámgbóse, 1990; Owólabí, 2011).

Before we round it off, we want to look into the manifestation of vowel serialization in-between poly-morphic personal personal names such as Adéèboyèjé, Fáàsòràntì, Awóòsìkà, Omóòlayòlé and so on. Before we proceed to the basic morphological description

of the forgoing examples, We wish to note that the forgoing examples are mis-spelt (as Adéboyèjé, Fáṣòràntì, Awóṣìkà, Ọmólayòlé and so on) in the contemporary usage. Also, that the names are frequent if not indegenously Ondó, Ìkálè, Ìlàje and Àkúré. The personal names above are all sentential in status as shown below:

- (24) (a) Adé è ba oyè jé.
 Crown NEG hit chieftaincy respond
 'A crown does not spoil chieftaincy.'
 - (b) Ifá à ṣe ọ ràn tì
 Ifá NEG do case fail
 Ifá never fails to solve a problem.'
 - (c) Awo ò ṣe ìkà.

 Priest NEG dowickedness

 'A priest is not wicked.'
 - (d) *Omó ò ní ayò-lé*Child NEG have joy-add

 'No gift exceeds that of a child'

The V2 in the CVV sequence in each of the examples above is a negative marker with $(k)\dot{o}$ as its underlying form before phonological process (assimilation) and sentence nominalisation are applied on the clause.

Conclusion

In this study, we have presented the basic origin of vowel serialization in Yorùbá. Words in CVVCV, VCVV and CVV forms in the language occur consequent upon the morpho-phonological processes like merging of two distinctive linguistic units, influences of vowel assimilation, influences of high tone syllable, tonal configuration or phonological imbalances and so on. Word like *kì í*, *má à* and *tí ì* comprise two different functional categories. Therefore, they are to be written separately in the language. Also, manifestation of vovel serialization in-between polymorphic personal nouns could also be accounted for based on their morphosyntactic processes.

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References

- Abímbólá, W. & Oyèláràn, O. (1975). Consonant Elision in Yorùbá. African Language Studies, XVI 37-60.
- Adékúnlé, A. (2006). An Spect of Morphology of Ìièbú Dialect. Journal of Philosophy and Development, 8(1 & 2): 129-139.
- Adékúnlé, A. (2018). Fifi Ojú Ìmó Èdá-Èdè Wo Àtúpalè Ìyísódì nínú Èka-Èdè Ifè (A Linguistic Analysis of Negation in Ifè). Unpublished PhD Thesis. Olábísí Onàbánjo University, Àgó-Ìwòyè.
- Ajóńgólò, O. 2005. Negation in the Ao dialect of Yoruba. Unpublished PhD Thesis, University of Ibadan, Ibadan.
- Awóbùlúyì, O. (1978). Essentials of Yorùbá Grammar. Oxford: University Press Ibadan.
- Awóbùlúyì, O. (2008). Èkó Ìsèdá-Òrò Yorùbá. Montem Paperbacks, Akúré. Ondó State.

- Awóbùlúyì, O. (2013). *Eko Girama Ede Yoruba*. Osogbo: ATMAN Ltd.
- Awóyale, O. (1975). Studies in Syntax and Semantics of Yorùbá Nominalizations. PhD Thesis, University of Illionois, USA.
- Awóyale, O. (1995). Vowel Assimilation and Elision in Yorùbá: The Interface of Phonology and Syntax. Ilorin: University of Ilorin.
- Bámgbósé, A. (1990). *Fonólójì àti Gírámà Èdè* Yorùbá. Ibadan. University Press PLC.
- Fábùnmi, A. (2012). Auxikiary Verbs in Ìjeṣà Dialects of Yorùbá. Ile-Ife: Obáfémi Awólówò University Press.
- Fádáiró, Y. O. (2014). Phonological Processes in Yorùbá: A Complementary Approach. *Ihafa: Journal of African Studies*, 6(1).
- Greet B. (2012). The Grammar of Words: An Introduction to Linguistic Morphology (3rd Edition). Oxford: Oford University Press.
- Kújoórè, O. (2018). Àsìkò àti Ìbá-Ìṣèlè nínú Èka-Èdè Ìjèbú (Analysis of Tense and Aspect in Ìjèbú Dialect. Unpublished MA Dissertation, Olábísí Onàbánjo University, Àgó-Ìwòyè.
- Oláńrewájú, E. O. (2022). A Syntax of Focus and Interrogatives in Central Yorùbá Dialects. Unpublished PhD Thesis, University of Ibàdàn, Nigeria.
- Oláńrewájú, E. O. (2022). Typology of Constituent Interrogatives in Central Yorùbá Dialects. *Journal of Universal Language*, 23(2): 77–108. DOI: https://doi.org/10.22425/jul.2022.23.2.77
- Olúmúyìwá, T. (2006). Àwọn Wúnrèn Onítumò Gírámà nínú Àwọn Èka-Èdè Àárín Gbùngbùn Yorùbá. PhD Dissertation, Adékúnlé Ajásin University, Akungbá-Àkókó.

- Owólabí, D. K. O. (2011). İjinle İtúpale Ede Yorubá 1; Fónetíiki ati Fonólójì. Ìbàdàn: Akadá Press.
- Oyèbádé, F. (1998). A Course in Phonology. Ijebuode: Shebiotimo Publications.
- Oyèbádé, F. (2007). Yorùbá Phonology in Yusuf. Basic Linguistics of Nigerian Language Teachers M&J. Port Hacourt: Grand Orbit Communication Ltd, 241–257.
- Oyèláràn, O. (1971). Yorùbá Phonology. Unpublished PhD Thesis. Standford University, USA.
- Pulleybank, D. (1988). Vocalic Underspecification in Yorùbá. Journal of African Languages and Linguistics.
- Spencer, A. (2001). Morpho-Phonological Operations. In A. Spencer & A. M. Zwicky (Eds.). The Handbook of Morphology, 218–285.
- Táíwò, O. (2011). Mofólóji: Àtúnse Keji. Universal Akada Book Nigeria Limited (Formaly Group Publichers) A Subsidiary of Centre for Yorùbá Language Engineering.
- Yusuff, Q. (1995). Gírámà Yorùbá Àkòtun: Ní Ìlànà Ìsípayá Onídàro. Ìjèbú-òde: Shebíotimo Publications.

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