مجلة الجامعي (العدد الخامس)



Foot structure



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into tect.)normal CD guarantees that all syllables will at least be grouped toot (or simply a foot). The constituent, composed of syllables is called a metrical greater than a syllable and Metrical phonology recognizes a constituent that less than a word. metrical approach

bearing elements. In other words, only the vowels, not has been assumed that stress is assigned to certain phonemes in any string of phonemes in any language. all phonemes in a string are capable of bearing stress. It In Arabic (1977), Hayes,(1981)Prince (1983), and Halle Vergnaud (1987), the basic fact about stress is that not Following studies such as Liberman and Prince only the heads of the syllable are stressand

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the reflect the facts of Arabic stress formally. framework of Halle and Vergnaud is adopted, so as to consonants, are stressable. In this paper, the

stress, for example, primary stress and secondary stress involving languages with more than one degree of the word level. In this paper, we shall discuss foot secondary However structure in Arabic and the mechanism by which stress therefore in Arabic is confined to primary stress only at as follows: in 5 assigned using foot structure. This paper is organised Halle and Vergnaud (1987) discussed examples Arabic does not have any words with stress. The stress assignment process

structure in (2). (1)monosyllabic words are discussed, followed by

those with binary

.1Monosyllabic words

major categories of speech (verb, noun, adjective) may below be realised phonetically as one of the syllables in (1) Monosyllabic words that fall into one of the

a. σ" μμ (CVVC)

b. σ " μμ (CVCC)

noun, and adjective respectively where These two types are a, b and crepresent the word categories verb, exemplified in (2)below,

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c. zeen "fine"		saw"
Feen "ugly"	bint "girl"	baat "he stayed"
Geem "cloudy"	zift "bad"	gaal "he said"

illustrated in (3) below. elements. The pattern of stress is accounted for by building the foot structure on the rime projection as The vowels of these words are stressable

	с.		ù,		:3 a
(**) (**) Zee <n> fee<n></n></n>	* *	("") Dar <s></s>	*****	Faa <f></f>	** *
(**) fee <n></n>	* *	(**) bin<⊅	÷ *	baa <t></t>	(**) **)
(**) gee <n></n>	* *	(**) zif <t></t>	*	gaa	(* * *)
strass bearer	line 2 (word)	strass bearer	line 2 (word)	strass bearer	line 2 (word) line 1 (foot)

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minimal foot structure allowed in Arabic. McCarthy maximal projection of a mora within a syllable and the The and Prince (1990) argue that "The foot is a constituent morae exclusively a light syllable ($\sigma\mu$). Functional non-lexical an unstressed syllable as well." No feet dominate composed of at least one stressed syllable and usually words (such as, bi, la, fi, etc.) do not receive stress at monosyllabic (branching rime feet of the 3 syllable). This is the above dominate two

t to one representation of monosyllabic examples. This feature consist of one complex rime, i. e. two morae and the concerned, there is a requirement that it must consist of simple rimes which are realised in Libyan dialect (LA) the vowel is lengthened to meet the loan words with of Arabic is also supported by and gas as /gaas,/ where extrametrical as complex. For example, the English word bus, minimal foot structure in Arabic. pronounced as /baas/, bar as /baar, / requirement of the surface. So far as foot structure (line 1) is complex syllable. element. This The is supported by the complex syllable will

superheavy, is determined by constructing feet in the monosyllabic in (4) below degenerate feet i.e. foot containing only one syllable as normal way consisting of two syllables, the second of which is Monosyllabic feet but allowing words. The are stress pattern of words for the not possibility restricted to <u>o</u>

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* (*) (*)(**) XiTaa
(*) (*) (**) ba na
* (*) (*) (**) ka rii <m></m>
word line foot line stress bearer

.2 Binary structure

Ŷ 'magafaat", 'salaries" and /nabataat/, "plants." heads on line 2. An example of this can be illustrated will necessitate the marking of right-headed constituent which requires the construction of more than one foot. The metrical grid for words of more than two syllables the initial representation of words such. Sa

	Ś
B * *	*
*) *)(**) a9a faa	
$\langle \widehat{\ast} \widehat{\ast} \widehat{\ast} \widehat{\ast} \widehat{\ast} \widehat{\ast} \widehat{\ast} \widehat{\ast}$	
Ar Maria	*
* *	
	*
V ~	
*-	
s to a	erf Soci
foot line stress bean	040.
s be m	nisens nisens nisens
arer	Ď
r v	

superheavy, as shown in (6) Ç regardless of its weight, if and only if, the second is not keesed keesed bisyllabic words, the first syllable) (/) stressed,

kata 	ar i		ي * *	
	**		* *	
WA A<		parang paran paran paran paran paran paran paran paran paran para	1102	,
		(foot)	(Word)	

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		Ç	2
kata 	(* *)	*	*
saafa <r></r>	(* *)	*	*
	line0	linel	line2

.*-

of stress in the example in.(6a and b). The stress foot in this case is left-headed. A bisyllabic foot would account for the placement

statement for foot structure To conclude this paper, I assume the following

a. the minimal foot structure

, ,	ii. Bisyllabic	i. Monosyllabic
	ссv <с>	(**) (**) (**) (**)
	cvc <c></c>	(* * * * *)

b. The maximal foot structure

* *

(* *) (*) cvcvcv<c>

iii. trisyllabic

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Arabic, right-headed on line 1. quantity sensitive, bounded, left-headed on line O and c. The foot structure in terms of Halle and Vergnaud (1987) is used to account for the facts of

and Vergnaud (1987). constituent structure proposed in Halle Following This paper has dealt with word stress in Arabic. the formal mechanism Of star metrical

Reverence

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