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THE PHONOLOGY OF WEAK VERBS A SIMPLE DIAGRAM OF RULES

by

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The conjugation of Arabic verbs whose second or third radical is weak differs from the conjugation of strong verbs according to a small number of precise phonological rules. This article presents those rules in the form of a diagram. The diagram is easily memorized, and enables the student to produce from a knowledge of the strong verb the correct form for any weak root. It may be used as an aid or even an alternative to the memorization of the dozen or more paradigms of hollow and defective verbs. It also explains the formation from weak roots of participles, masdars, and defective nouns.

The diagram adopts the terminology used in Elementary Modern Standard Arabic (Michigan, 1976) and parts of it simply reorganize some of the rules presented there. All Arabic letters are transliterated, because the presence of vowels (which determine the fate of the weak consonant) is clearer in transliteration.

The examples given below illustrate how the rules of the diagram apply, first for defective verbs, then for hollow verbs, and finally for nominal forms. Each of the five notes included with the examples covers a point or exception not mentioned explicitly in the diagram. The diagram is explained as follows.

When one of the two weak letters W ($\mathfrak I$) and Y ($\mathfrak I$) occurs as the second or third radical of a verb, conjugating that verb according to the paradigms of the strong verb would place the weak radical amid various combinations of preceding and following vowels. Indicating the weak radical by the term "glide" ($\mathfrak I$) and the vowels by $\mathfrak I$ when short and $\mathfrak I$ when long, these hypothetical combinations are:

These sequences are listed down the left-center of the diagram which appears on the next page. There are two other possible sequences which, for reasons explained below, do not appear on the diagram:

The sequences of vowels and glide produced according to the strong verb pattern are unstable in all except a few cases. The stable exceptions, where the glide behaves as a strong consonant, are listed down the left-hand side of the diagram. In all other cases, the hypothetical strong form is altered according to the three steps indicated on the right-hand side of the diagram to produce the correct form for the weak verb: first, the glide drops out; second, the vowels which preceded and followed the glide combine as shown to form one long vowel; and third, in closed syllables (i.e., when followed by a vowelless consonant) this long vowel becomes short.

Illustration for Defective Verbs

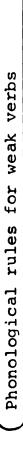
1. vGv

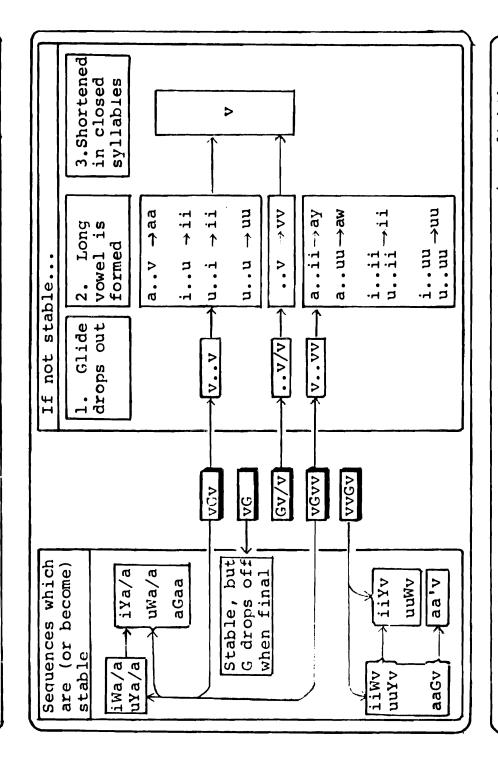
(a) Stable exceptions: The diagram shows that a glide preceded and followed by a short vowel is stable only when followed by /a/ and preceded by the vowel to which it is homogeneous: /iYa/ ($\frac{1}{2}$) and /uWa/ ($\frac{1}{2}$). However, when followed by /a/ and preceded by the vowel to which it is heterogeneous--/uYa/ ($\frac{1}{2}$) or /iWa/ ($\frac{1}{2}$) -- the weak radical survives, but only by the transformation of the /u/ or/W/ into /i/ or /Y/ respectively, to produce the homogeneous sequence /iYa/ ($\frac{1}{2}$). That is, when 'u-sound' and 'i-sound' are mixed, the 'i-sound' prevails. Examples.

Strong pattern	'i-sound' prevails	Becomes	
BaQ <u>iYa</u>		-stable	(3ms Perf Act I)
بقيُ yaNDuWa		-stable	(3ms Subj Act I)
RaDiWa	iYa	RaDiYa	(3ms Perf Act I)

Note. Once /Y/ has been substituted for /W/ in this manner as the third radical in the third person masculine singular of the perfect, the radical remains /Y/ throughout the inflection (though it may, of course, be elided, as illustrated below). Similarly, final radical /W/ becomes /Y/ throughout all the derived forms of the defective verb.

- (b) In all other cases /vGv/ is unstable, and the form for the weak verb is produced according to the three steps shown on the right of the diagram.
- (i) The glide drops out, leaving /v..v/ (the vowels which preceded and followed it).





=diphthongs aw/ay any long or short vowel any long vowel II ij > any short vowel Glide (W or Y) II H დ >

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(ii) These two vowels combine to form one long vowel, /vv/. If they are different, they form /aa/ if the vowel that preceded the glide was /a/, and otherwise /ii/. (As usual, /i/ prevails over /u/.)

(iii) If the long vowel thus produced is within a closed syllable, it becomes short. Examples:

Strong	(i) Glide	(ii) /vv/ is	(iii) In closed					
pattern	drops out	formed	syllables	Becom	es			
NaDaWa تسکو	aa	аа		NaDaa	(3ms	Perf	Act	I)
yaRMiYu	iu	ii		yaRMii	(3ms	Impf	Act	I)
NaDaWat 2. vGvv	aa	aa	а	NaDat 	(3fs	Perf	Act	I)

Strong	'i-sound'		
pattern	prevails	Becomes	
RaMaYaa		-stable	(3md Perf Act I)
رَمُیکُ yaNDuWaani پینسٹدوان yaRMiYaani		-stable	(3md Impf Act I)
yáRMiYaani		-stable	(" " ")
يُومِيكُانِ inQiwaaDun انقسسواد	iYaa	inQiYaaDun انْقىسساد	(vn VII hollow)

(b) In all other cases /vGvv/ is unstable and the glide drops out, the remaining vowels combining to form a long vowel as shown on the bottom right of the diagram: /a/ combines with the /uu/ or /ii/ that follows to form the diphthong /aw/ () or /ay/ (); otherwise the long vowel formed is simply /uu/ or /ii/, according to the long vowel which originally followed the glide. Examples:

Strong	Glide	Long vowe	1			
pattern	drops out	formed	Becomes			
yaBQaYuuna	auu	aw	yaBQawna	(3ms	Impf	Act I)
يَبْقَيُـونَ			يَبْقُــوْنَ			
taBQaYiina	aii	ay	taBQayna	(2fs	Impf	Act I)
تَبْقُييَ			تبقيسن			
yaJRiYuuna	iuu	uu	yaJRuuna	(3ms	Impf	Act I)
يَجْرِيبُ ونَ			ر			
taNDuWiina	uii	ii	taNDiina	(2fs	Impf	Act I)
1 101			• /			
تندويــن			تنديسنُ			

3. Note: \underline{vG} This sequence does not appear on the diagram, because when the glide carries no vowel it acts naturally, not as a consonant but as a vowel lengthener. E.g.:

Strong		
pattern		
RaMaYtu	RaM <u>ay</u> tu	(ls Perf Act I)
رمیت NaDaWtu شکرو	NaD <u>aw</u> tu	("")
BaQiYtu بقيست	BaQ <u>ii</u> tu	("")
yaNDuWna	yaND <u>uu</u> na	(3fp Impf Act I)

But in the jussive and imperative forms, when no consonant or vowel follows the glide the signification of the form requires a short, not a lengthened vowel ending, so the glide simply drops off. Examples:

Strong pattern	Becomes	
yaRMiY	yaRMi	(3ms Juss Act I)
يَرُّمَي uNDuW انگذو	uNDu L	(2ms Impv Act I)
Illustration for H	lollow Verbs	i i

- 1. Hollow verbs are conjugated like strong verbs in forms II, III, V, and VI (and with some roots, indicated in the dictionary, in forms IV and X also). In the remaining forms the rules of the diagram apply just as for defective verbs, with one additional rule and one exception.
- 2. The sequence Gv, which occurs when the first radical of a hollow verb carries no vowel, is unstable. It is transformed as usual: the glide drops out, the vowel becomes long, and is shortened in closed syllables. Examples:

Strong	(i)	(ii)	(iii)	
pattern	G drops	Vowel is	In closed	
	out	lengthened	syllables	
aJWaZa	a	aa		aJaaZa (3ms Perf Act I)
أَجْ ۖ وَرَ				أُجَـــازُ
'aJ <u>Wa</u> Zta	a	aa	а	YaJaZta (2ms Perf Act I)
أجْــوْرْت				أُجُـــــــــــــــــــــــــــــــــــ
y aSYi Ru	i	i i		yaSiiRu (3ms Impf Act I)
<u>.</u>				

3. Note: vGv The same rules apply as for defective verbs (e.g., QaWaLa

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becomes QaaLa) but with one exception. In the perfect active of form I hollow verbs, the long vowel /aa/ shortens in closed syllables not to /a/ but to the vowel corresponding to the elided glide (e.g., QaWaLta becomes Qa.aLta then QuLta, not QaLta). But if the first-form hollow verb is one whose hypothetical strong form has /i/ in the perfect stem (indicated by the presence of /a/ as the vowel of the imperfect stem), this i-sound prevails over a middle-radical /W/. Therefore the /aa/ of open syllables shortens in closed syllables not to /u/ but to /i/. E.g., NaaMa (أحاء) (from NaWiMa) shortens to NiMta (احاء), KaaDa (احاء) (from KaWiDa) shortens to KiDta (احاء) (from XaWiFa) shortens to XiFta (احاء) (from YaWiFa) shortens to XiFta (احاء) (from YaWiFa) shortens altogether, however, by conjugating as strong verbs (e.g., 'aWiRa (اعاء)), and HaWiSa (اعاء) *

Illustration for participles, masdars, and defective nouns

1. All the above rules apply with the following addition. The sequence \underline{vvGv} is stable when the glide is preceded by the long vowel to which it is homogeneous: |uuWv/(G-)| and |iiYv/(G-)|. When the preceding vowel is heterogeneous, the sequence is made stable by the 'i-sound' prevailing: |iiWv/(G-)| and |uuYv/(G-)| both become |iiYv/(G-)|. Finally, when the preceding vowel is |aa|, the glide is replaced by hamza (f-). Examples:

Strong			
pattern	Becomes		
maNDuuWun	stable	(Passive participle I)	
maQDuuYun مُقضَّه يُ	iiYu maQDiiYun	(" ")	
iJR <u>aaYu</u> n اجْسراي	aa'u 'iJR <u>aa'u</u> n آخسر ا	(verbal noun IV)	

2. Note: Gvv This sequence occurs in three nominal forms of the hollow verb--the verbal nouns of forms IV and X and the passive participle of form I. It follows the rule for Gv: the glide is unstable and drops out, leaving a ready-formed long vowel. However, as compensation for this loss of the middle radical, the two verbal nouns are given the ta' marbūta ending, and, in verbs whose lost middle radical is /Y/, the form I passive participle is formed with /ii/ instead of /uu/. Examples:

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^{*} For an attempt to seek regular rules for XaaFa-XiFta data, see Michael Brame, "Arabic Phonology," unpublished Ph. D. dissertation, M.I.T., 1970; and Mary Mansnerus Levy, "The Plural of the Noun in Modern Standard Arabic," unpublished Ph. D. Dissertation, Michigan, 1971, esp. Chapter IV on Arabic Phonology.

Strong			
pattern		Becomes	
iQWaaMun	aa	iQaaMa(t)	(Verbal noun IV)
اقـــه ام		اقــامَـة	
'isti QWaa Mun	aa	'stiQaaMa´(t)	(Verbal noun X)
است تقو ام		إسْتِقامَـة	
maBYuu'un	ii	maB <u>ii</u> 'un '	(Passive participle I)
مُنِدُ وَ عَمِ		معر	

3. Note. In the strong verb, the verbal nouns of forms V and VI contain /u/ before the final radical. In defective verbs, the presence of /Y/ as the final radical converts this /u/ to /i/, thus allowing the verbal noun to decline according to the pattern of defective active participles (forms I to X) and defective nouns, all of which have /i/ before the weak final radical. This pattern will be illustrated in full for the form I active participle from the root J-R-Y:

Mascul:	ine	Strong	(i)	(ii)	(iii)	_
		pattern	G drops	vv is	In close	
			out	formed	syll a ble	es Becomes
Singula	ar					
Indef.	nom.	JaaR <u>iYu</u> n	iu	ii	i	JaaR <u>i</u> n
	acc.	جَــارِيُ JaaR <u>iYa</u> n جــــارِياً	(stable)			جـــار JaaRiYan جــاریاً
	gen.	JaaRiYin	ii	ii	i	ĴaaRin
Def.	nom.	جــاري al-JaaRiYu	iu	ii	(open)	جــار al-JaaR <u>ii</u>
	acc.	الجاريُ al-JaaR <u>iY</u> a'	(stable)			الجــاري al-JaaR <u>iYa</u> ِ
	gen.	ألجــاريَ al-JaaRiYi'	ii	ii	(open)	ألجــاريُ al-JaaR <u>ii</u>
Dua1		الجاري				ألجاري
Indef.	nom.	JaaR <u>iYaa</u> ni	(stable)			JaaR <u>iYaa</u> ni
a	cc/gen	جاریان JaaR <u>iYa</u> yni	(stable)			جاریان JaaR <u>iYa</u> yni
Def.	(a	جاریَیْن s 'indef.)				جاريين
Plura1		•				
Indef.	nom.	JaaR <u>iYuu</u> n	a iuu	u u	(open)	JaaRuuna
		جــاريـون				جــارُونَ
	cc/gen	JaaR <u>iYii</u> n	a iii	ii	(open)	JaaR <u>ii</u> na
Def.	(as	ن indef.)	جارِیــّــ			جساريسن

In the feminine, all cases end in /-iYa(t)../ or in /-iYaat../, and the glide is therefore stable.

The paragraphs above illustrate the diagram's application, and each of the five notes explains a point not mentioned in the diagram. Not every student finds it easier to learn complicated verb paradigms by first grasping the abstract rules which they follow. But for teaching those that do, it is hoped that this diagram may be a help.