

Word Stress and Vowel Neutralization in Modern Standard Arabic

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Abstract

Word stress in Modern Standard Arabic is of great importance to language learners, while precise stress rules can help enhance Arabic speech technology applications. Though Arabic word stress and vowel neutralization rules have been the object of various studies, the literature is sometimes inaccurate or contradictory. Most Arabic grammar books give stress rules that are inadequate or incomplete, while vowel neutralization is hardly mentioned. The aim of this paper is to present stress and neutralization rules that are both linguistically accurate and pedagogically useful based on how spoken MSA is actually pronounced.

1 Introduction

Word stress in both Modern Standard Arabic (MSA) and the dialects is non-phonemic. Whereas in English words like the noun *permit* are distinguished from the verb *permit* by stress alone, stress cannot be used to distinguish meanings in Arabic. Thus even though Cairene speakers by influence of their dialect may deviate from the standard and stress words like **كُتِبْتُ** 'I wrote it' as /ka-t**ab**-tu-hu/ rather than the standard /ka-t**a**b-tu-hu/, this difference in stress does not change the meaning of the word (with rare exceptions discussed below).

Standard MSA stress is based on the dialects spoken in the Mashriq (east of Egypt and north of the Arabian Peninsula). Some fluctuations may occur in informally spoken MSA by influence of the local vernacular. For example, Egyptians may apply dialectal stress patterns that sometimes differ from standard MSA, as in **مَدْرَسَةٌ** 'school', stressed as /mad-r**a**-sa/ rather than the standard **mad**-ra-sa/. Although on the whole stress in formal MSA (as for example in newscasts) is fairly uniform throughout the Arab world, it is important to note that MSA stress rules differ somewhat from those used in liturgical Arabic.

Arabic word stress and vowel neutralization rules have been the object of various studies, such as Janssens (1972), Mitchell (1990) and Ryding (2005). Though some grammar books offer stress rules that appear short and simple, upon careful examination they turn out to be incomplete, ambiguous or inaccurate. Moreover, the linguistic literature often contains inaccuracies, partially because little or no distinction is made between MSA and liturgical Arabic, or because the rules are based on Egyptian-accented MSA (Mitchell, 1990), which differs from standard MSA in important ways.

Arabic stress and neutralization rules are worthy of serious investigation. Other than being of great academic and theoretical interest, these rules have practical applications in pedagogy, speech technology, lexicography and the compilation of learning materials such as grammar books and textbooks. Unfortunately, the results of linguistic research in this area have hardly made their way into Arabic pedagogical materials, including dictionaries. Consequently, almost all grammar books give stress rules that are inadequate or incomplete, while vowel neutralization is rarely mentioned.

The aim of this paper is to present stress and neutralization rules and exceptions that are both linguistically accurate and pedagogically useful. The rules are presented from a pedagogical, rather than a formal linguistic, point of view. Based on considerable research of the literature on how MSA is actually spoken, and on informal interviews with informants, the rules given here aim to be unambiguous and complete.

2 Format and Definitions

Phonemic transcriptions are surrounded by slashes (except inside tables), while syllable boundaries, which do not necessarily coincide with morphemic boundaries, are indicated by hyphens. Parentheses indicate the second half of a long vowel or consonant that is not pronounced (neutralized), as in /y(a)ta**-**baam/, or possibly pronounced half-long. **Boldface** is used to indicate the stressed syllable.

Two consecutive vowels (as in CVV or CVVC) represent either a long vowel (اَءُ 'the letter noon' /naun/) or a diphthong (اَيُّ 'day' /yawna/). Similarly, two consonants (as in CVCC) represent either a double consonant, indicated by a *shadda* (حَجَّجْ 'pilgrimage' /Hajj(j)ʕ/, or distinct consonants (سُرُجْ 'lightning' /suriq/).

Dissyllabic, as is self evident, refers to words consisting of two syllables, while *polysyllabic* refers to those consisting of three or more syllables but excludes those of two syllables.

Proclitics in Arabic refer to one-letter function words such as the definite article and some prepositions attached to the beginning of a word. These include اَلْ /al/, اِ /wa/, اِنَّ /in/, اَنْ /an/, اِذْ /id/, اِذْ /id/, اِذْ /id/, اِذْ /id/, اِذْ /id/ and اِنَّ /in/ and are ignored in determining stress.

3 Syllabic Structure

To understand stress rules properly, it is necessary to understand how words are divided into syllables (syllabic structure). Arabic syllables are of six structural types that can be classified into the three categories defined below: **light**, **heavy** and **superheavy**.

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