

# 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-taḥ-tu-ba/ rather than the standard /ka-taḥ-tu-ba/, 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 *مدرسة* 'school', stressed as /mad-ra-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 /ya(a)-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 (نون *nuun* /nuun/) or a diphthong (يَوْم *'day'* /yawm/). Similarly, two consonants (as in CVCC) represent either a double consonant, indicated by a *shadda* (حَج *'pilgrimage'* /Haj(j)/), or distinct consonants (بَرْق *'lightning'* /barq/).

*Disyllabic*, 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 *ال* /al/, *و* /wa/, *ف* /fa/, *ب* /bi/, *ل* /la/, *ك* /ka/, *أ* /a/ and *من* /sa/, 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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particular focus is on the interplay between the linguistic and orthographic structure of Arabic and the development of reading and writing spelling In addition the book addresses the socio cultural political and educational milieu in which Arabic literacy is embedded It enables readers to appreciate both the implications of empirical research to literacy enhancement and the challenges and limitations to the applicability of such insights in the Arabic language and literacy context The book will advance the understanding of the full context of literacy acquisition in Arabic with the very many factors religious historical linguistic etc that interact and will hence contribute to weakening the anglocentricity that dominates discussions of this topic **Proceedings of the Speech Prosody 2008 Conference , Jerusalem Studies in Arabic and Islam**

,2003 **The Phonology and Morphology of Arabic** Janet C. E. Watson,2007-11-01 This book is the first comprehensive account of the phonology and morphology of Arabic It is a pioneering work of scholarship based on the author s research in the region Arabic is a Semitic language spoken by some 250 million people in an area stretching from Morocco in the West to parts of Iran in the East Apart from its great intrinsic interest the importance of the language for phonological and morphological theory lies as the author shows in its rich root and pattern morphology and its large set of guttural consonants Dr Watson focuses on two eastern dialects Cairene and San ani Cairene is typical of an advanced urban Mediterranean dialect and has a cultural importance throughout the Arab world it is also the variety learned by most foreign speakers of Arabic San ani spoken in Yemen is representative of a conservative peninsula dialect In addition the book makes extensive reference to other dialects as well as to classical and Modern Standard Arabic The volume opens with an overview of the history and varieties of Arabic and of the study of phonology within the Arab linguistic tradition Successive chapters then cover dialectal differences and similarities and the position of Arabic within Semitic the phoneme system and the representation of phonological features the syllable and syllabification word stress derivational morphology inflectional morphology lexical phonology and post lexical phonology The Phonology and Morphology of Arabic will be of great interest to Arabists and comparative Semiticists as well as to phonologists morphologists and linguists more generally Routledge Handbook of Arabic Second Language Acquisition Mohammad Alhawary,2018-05-04 The Routledge Handbook of Arabic Second Language Acquisition introduces major current approaches in Arabic second language acquisition SLA research and offers empirical findings on crucial aspects and issues to do with the learning of Arabic as a foreign language and Arabic SLA It brings together leading academics in the field to synthesize existing research and develops a new framework for analyzing important topics within Arabic SLA This handbook will be suitable as a reference work for advanced undergraduate and postgraduate students and scholars actively researching in this area and is primarily relevant to sister disciplines within teacher training and Arabic applied linguistics The themes and findings should however also be attractive to other areas of study including theoretical linguistics psycholinguistics cognition and cognitive psychology *The Art of Grammar* Aleksandr Aïkhenval'd,2015 This book introduces the principles and practice of writing a comprehensive reference grammar

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**Verse** Dimitry Frolov, 2021-10-01 Offering a vast panorama of the history of Arabic verse in its relation to Semitic verse this work follows stages of its evolution from parallelistic pattern to the emergence of the three basic rhythms and then of the unique system of Arabic It proposes a new interpretation of the original Arabic metrical theory including the famous circles of al-Khalil as a kind of generative device and traces its relation to the grammatical and lexicographical theories of al-Khalil ibn Ahmad The monograph provides the largest so far statistical data of the metrical repertory of Classical Arabic poetry puts forward a hypothesis about the existence of the archaic Hiran metrical school side by side with the Bedouin school and describes main metrical types of Arabic poetry Bedouin Abbasid Classical Andalusian Arabic Language Kees Versteegh, 2014-05-20 An introductory guide for students of Arabic language Arabic historical linguistics and Arabic sociolinguistics Prosodic Studies Hongming Zhang, Youyong Qian, 2019-09-23 Prosody is one of the core components of language and speech indicating information about syntax turn taking in conversation types of utterances such as questions or statements as well as speakers attitudes and feelings This edited volume takes studies in prosody on Asian languages as well as examples from other languages It brings together the most recent research in the field and also charts the influence on such diverse fields as multimedia communication and SLA Intended for a wide audience of linguists that includes neighbouring disciplines such as computational sciences psycholinguists and specialists in language acquisition Prosodic Studies is also ideal for scholars and researchers working in intonation who want a complement of information on specifics

Syllable and Word Languages Javier Caro Reina, Renata Szczepaniak, 2014-10-24 This is the first volume concerned with the phonological typology of syllable and word languages based on the model of a complex multi-layered and hierarchically structured phonological system The main typological claim is that the phonetic and phonological make up of a language depends on the relevance of the prosodic categories In previous research the syllable and the phonological word have already proved to be typologically important The contributions in this volume discuss theoretical questions and address

issues such as the variable structure of the phonological word the interplay between phonetics and phonology as well as the effect of a language's phonological make up on its morphology or lexicon The volume provides detailed synchronic and diachronic analyses of Non Indo European languages which will serve as a basis for further typological research

*Encyclopedia of Arabic Language and Linguistics: (Q-Z)*, 2006 A major new multi volume reference work the Encyclopedia of Arabic Language and Linguistics A unique collaboration of over hundreds of scholars from around the world the Encyclopedia of Arabic Language and Linguistics covers all relevant aspects of the study of Arabic and deals with all levels of the language pre Classical Arabic Classical Arabic Modern Standard Arabic Arabic vernaculars mixed varieties of Arabic

**Language and Language Behavior Abstracts**, 1982

**Semitic Languages** Edward Lipiński, 2001 The first comparative grammar of the Semitic languages by H Zimmern was published a hundred years ago and the last original work of this kind was issued in Russian in 1972 by B M Grande The present grammar designed to come out in the centenary of the completion of Zimmern's work fills thus a gap Besides it is based on both classical and modern Semitic languages it takes new material of these last decades into account and situates the Semitic languages in the wider context of Afro Asiatic The introduction briefly presents the languages in question The main parts of the work are devoted to phonology morphology and syntax with elaborate charts and diagrams Then follows a discussion of fundamental questions related to lexicographical analysis The study is supplemented by a glossary of linguistic terms used in Semitics by a selective bibliography by a general index and by an index of words and forms The book is the result of twenty five years of research and teaching in comparative Semitic grammar

**Central Asiatic Journal**, 1985

*Extrinsic Ordering in Classical Arabic* Robert Hetzron, 1974

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