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# The Motivations for the Semantic Change in the Category Green in Arabic: A Synchronic and Diachronic Corpus-Based Analysis

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## **Abstract**

The present article analyses the semantic structure of the colour term (aḫḍar) (green) in Arabic to establish whether it has undergone a change in terms of meanings and prototypes and to identify the motivating factors for its semantic change. The current study compares and contrasts the polysemy of الفضر (aḫḍar) (green) in premodern texts and modern texts. To explore the meanings of the word الفضر (aḥḍar) (green) and to identify its most frequent collocates and thus most prototypical meanings, the study employs the ArabicCorpus (Arabic Corpus Search Tool). The data collected on the term are analysed in accordance with Rosch's [1] [2] prototype theory, and Lakoff and Johnson's [3] conceptual metonymy and conceptual metaphor. The results show that الفضر (aḥḍar) scores highly in its average occurrence in both premodern texts and modern texts and maintains its favourable meaning despite the variance in its prototypical meanings across the selected subcorpora. Its semantic expansion is motivated by conceptual metonymy, conceptual metaphor and loan translation respectively.

# **Keywords**

Colour Terms, Conceptual Metaphor, Conceptual Metonymy, Conceptualization, Polysemy, Prototype, Semantic Change

# 1. Introduction

Colour stands for the psychological explanation of retinal and neuronal sensation of reflected light, comprising three attributes, namely hue (*i.e.*, sensation of wavelengths), brightness (*i.e.*, sensation of luminance) and saturation (*i.e.*, sensation of purity of a dominant wavelength) [4] [5] [6]. However, people concep-

tualize colours differently across cultures despite the existence of several notable affinities [7]. The lexical units that humans use to express colour concepts may also differ. People from different cultural contexts may have the same colour experiences, but they may vocalize these experiences differently [6].

The present paper analyses the polysemy of the Arabic colour term (aḥḍar) (green), one of the basic colour terms [8]. In spite of the fact that languages may vary in the number of terms they use for colour concepts, there exists a universal list of eleven basic colour terms: black, white, red, yellow, green, blue, brown, purple, pink, orange, and grey. Languages range in the number of colour terms from two to eleven across languages [8]. For example, English consists of eleven colour terms. For another instance, Arabic, like English, comprises eleven colour terms [9]. Humans may see the same colour, but they may interpret it differently based on their bodily, social and cultural experiences. Colour categories spring from the world, human biology, a cognitive mechanism possessing some of the properties of fuzzy set theory, and a culture-specific selection of the basic colour categories [10].

Language is a communication system that mirrors human beings' understanding of the world around them [11]. Words are not containers of meaning, but rather they provide access to a cognitive network [12]. The senses that words have are not fixed or restricted, but they evoke a variety of cognitive domains based on context [13]. They are not discrete but fall into a continuum along which they overlap and share some common properties. The meanings that exhibit more common attributes are typical while those that show less common attributes are peripheral. Within this approach, a semantic change takes place when a peripheral sense becomes the core meaning of a lexical unit, or a typical meaning is excluded from the prototype structure of the word [14].

The literature on colour categorization and semantic extension of colour terms across cultures show that there are commonalities and variations in meanings of colour terms and in the ways individuals categorize colours across languages [15] [16] [17]. This diversity is mostly the usual outcome of semantic change. In general, language change is a result of intrinsic features of the human mind and social interaction [18]. Despite considerable literature on colour terms and polysemy across languages, research on the semantic change in colour terms across languages in general and in Arabic in particular is lacking.

The current study compares and contrasts the prototype structure of the word أَخْصَرَر (aḥḍar) (green) in premodern Arabic texts and modern Arabic texts. This is to determine whether the prototype structure of the lexical category under investigation went through a semantic change, and to find the motivations for the possible semantic change. This will, in turn, provide a greater insight into Arab users' conceptualization of green. The green colour was chosen for this study because it is one of the most symbolic colours in Arabic culture. It is more associated with positive connotations like nature, paradise and goodness [19].

Thus, the following research questions guide the present study:

- 1) Does the polysemy of the term أَخُصَر (aḫḍar) in premodern texts differ from its polysemy in modern texts?
  - 2) What motivates the semantic extension of the term أُخْضَر (ahḍar)?

## 2. Literature Review

As mentioned before, there is a considerable amount of literature on categorization, lexicalization and semantic expansion of colours across languages and cultures. This literature showed that colour terms, including *green*, compare and contrast across languages and cultures in terms of meaning and preference. As the focus of the current study is on the semantics of the green colour, only the findings related to the term *green* are discussed.

Soriano and Valenzuela [15] studied the connotative structures of *red*, *blue*, *green* and *yellow* in Spanish with regard to Osgood's semantic dimensions, namely Evaluation (good-bad), Activity (excited-relaxed) and Potency (strong-weak) to explore the reasons behind the association between colour terms and emotion words. They showed that *green* has positive evaluation and low activity despite its conventional association with envy by means of metonymy.

Allan [20], examining the orthophemistic, euphemistic and dysphemistic connotations of *black*, *white*, *grey*, *brown*, *yellow*, *red*, *green*, *blue* and a few miscellaneous colours in English, found out that *green* is associated with living vegetation and illness or jealousy. Ogarkova [21] investigated the conceptual metaphors of the concepts of jealousy and envy in Modern English. This study found that the term *green* is the third most frequent collocate of *envy* in the *Leipzig Corpus* and that the most significant metaphorical mapping is being envious is becoming green in complexion in the *BNC*. Because humans look pale or green when they are sick and green unripe fruits cause stomach ache, envy is understood by means of disease.

Another study by Xing [16] studied the meaning functions of white, black, red, yellow, green, blue, and purple in Chinese. It showed that the meanings of green in Chinese compare with their equivalents in English in terms of the meanings "natural" and "jealousy/adultery", but they contrast in terms of the meaning "coarse", which is only used in Chinese, and "inexperienced", which is only used in English.

A study by Al-Adaileh [22], which investigated the connotations of *black*, *white*, *yellow*, *red*, *green* and *blue* in Jordanian Arabic in terms of Allan and Burridge's (2006) X-phemisms, found that *green* has both euphemistic and dysphemistic connotations. For example, it euphemistically connotes "health", as in *green-toothed*, and dysphemistically connotes "immaturity and inexperience", as in *green-wood*.

Colour has also proved to be a very significant means of influencing the feelings and responses of customers. Colour choices across cultures appear to converge for certain products thanks to globalization. However, they may also vary due to cultural, religious and experiential dissimilarities [17]. In this study, for

example, which investigated colours in college students' selection of products in the USA, India, China and Turkey, green was found to be associated with nature and health in China, India and Turkey, and nature, Christmas and good luck in the USA.

The literature on colour terms discussed above shows the rich variety of colour meanings and choice across the world. As Grossman and Wisenblit [23] assert, the senses and preferences of colours are learned and may change over the years. Thus, it is pertinent to identify the changes and establish the factors that motivate them.

# 3. Methodology

The current paper aims to identify the semantic change that may have occurred in the prototype structure of the term أُخْصَر (aḥḍar). To this end, the study employs Rosch's [1] [2] prototype theory to explore the polysemy of the term under study. It also uses conceptual metonymy and conceptual metaphor [3] to establish the cognitive mechanisms that motivate change in meaning.

The data on the term الْخُصَرَّ (aḫḍar) was compiled from the ArabiCorpus (Arabic Corpus Search Tool). The ArabiCorpus (173.600.000 words) comprises newspapers, pre-modern texts, modern literature and non-fiction. The current article utilizes three subcorpora: premodern, mainly the "Adab Literature" (2,073,071 words), the "Grammarians" (1,210,614 words) and the "Medieval Philosophy and Science" (1,576,860 words), modern texts, i.e., literature (1,026,171 words) and nonfiction (27,945,460 words), and newspapers (135,360,804 words). These subcorpora were selected to explore the polysemy of the colour term المُخَصَرُ (aḥḍar) because they reflect the language used in different eras.

The corpus data analysis uses frequency and concordance to identify the most frequent collocates, meanings and examples of the term المُخْصَر (aḥḍar). This is to compare its prototype structure in premodern texts and modern texts. To collect all the data on the adjective أَخُصَر (aḥḍar) from the ArabiCorpus, all the different forms of the term were individually searched in the corpus. Adjectives in Arabic grammar inflect for grammatical gender, number, case and definiteness [24]. The adjective (aḥḍar) has different forms, i.e., المُخَصَر (aḥḍar) (masculine, singular), خَصَر (ḥuḍr) (masculine, plural), خَصَر (ḥaḍrāwāt) and خَصَر (ḥuḍr) (feminine, plural). All these adjectives can be definite or indefinite based on whether the definite article المُخْصَر (aḥḍar). It is worth noting that no examples of the adjectival form خَصَر اوات were found in premodern texts or modern literature. Instead, many instances of the noun form خَصَر اوات (haḍrāwāt) (vegetables) were found.

## 4. Results

Before collecting data on the collocates and senses of أُخْصَر (ahdar), it was neces-

sary to examine its average occurrence across the selected subcorpora, as listed in **Table 1**.

Table 1 shows that the word الْخُصَرَ (aḥḍar) scores highly in its average occurrence in both premodern texts (0.65/ten thousand) and modern texts (0.67/ten thousand) and that its average occurrence is slightly higher in modern texts as portrayed in Figure 1. This suggests the constant usage of this colour term in Arabic texts.

As outlined in Table 2, the most frequent collocate of أخضر (aḫḍar) in premodern texts is غير (ṭayr) (birds), which refers to the birds that carry the souls of martyrs in paradise. The Prophet Muhammad (peace be upon him) said, "the souls, of the martyrs live in the bodies of green birds who have their nests in chandeliers hung from the throne of the Almighty. They eat the fruits of Paradise from wherever they like and then nestle in these chandeliers" [25]. Thus, green in this sense is associated with paradise, being a quality of these birds. This mental connection with paradise and religion also applies to the third top collocate (rawda) (garden) in several of the concordance lines where green co-occurs with (rawda) (rawda). It is worthy of note that وضة (rawda) is an analogy for paradise. The second top collocate the trees indicates the metonymic extension of green as the green part of the tree stands for the whole tree. The

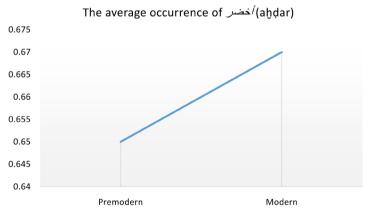


Figure 1. The average occurrence of خضر (aḥḍar) in premodern and modern subcorpora.

Table 1. The frequency of أَخْضَر (ahḍar) in the selected subcorpora.

	Subcorpus		Total number of occurrences	The average number per ten thousand words
Premodern	Adab Literature	148	315	0.65/ten thousand
	Grammarians	89		
	Medieval Philosophy and Science	78		
Modern	Modern literature	129		
	Nonfiction	339	11,065	0.67/ten thousand
	Newspapers	10,597		
	·			·

Table 2. Collocate frequency of اخضر (ahḍar) in premodern texts.

Collocate	Collocate frequency
(ṭayr) (birds) طيور	10
(aš-šajar/al-ašjār) (the trees) الأشجار/ الشجر	7
(rawḍa) (garden) روضة	7
(al-ard) (the earth) الأرض/ (al-ġabrāʾ) الغبراء	6
(al-jilda) (the skin)	5
(al-layl) (the night)	5
(al-baql) (the herbs)	4
(al-waraq) (the leaves)	4
يابس (yābis) (dry)	4
(aswad) (black)	4

fifth and sixth most frequent collocates of أخضر (aḥḍar) are associated with the black colour, as in peoples' dark skin and the colour of the night. Arabs sometimes used *green* to refer to the black colour of the skin [26] [27] and to describe the blackness of the night [27]. Generally, there used to be an overlap between *green* and *black* in old Arabs' categorization of these colours. For instance, Arabs described the rural areas in Iraq, when Muslims conquered it, as black because of the dark green colour of its fields and trees [26]. The overlap between *green* and *black* is further supported by the tenth most frequent collocate أسود (aswad) (black). In the context of the concordance lines, the ninth most common collocate of بالمناب (aḥḍar), i.e., بالمناب (yābis) (dry), refers to the variation in herbs: fresh or dry, as in بالزيائي (rāziyānaj) (fennel). The meaning of the term *green*, that is, "the colour of the living plants" in this context is metonymically extended to "green herbs", which are freshly cut and ready for use.

In modern literature, as shown in **Table 3**, the most frequent collocate of أُخْضَر (ahdar) is earth, which metonymically extends "green plants" to "being covered with plants or vegetation". This meaning is supported by many following collocates: الحشيش (al-ḥašīš) (grass) and البصل (al-baṣal) (onions), parts of green plants, (wāḥa) (oasis), حقول (ḥuqūl) (fields) and تونس (tūns) (Tunisia), which are metonymic extensions from "green plants" to "being covered with grass or vegetation". The second most frequent collocate زريية (zarbiyya) (carpet) highlights the meaning of green as a visual attribute, being a quality of the carpet. The sixth most frequent collocate اليابس (al-yābis) (the dry), in contrast to its use in premodern texts, marks the creation of the idiomatic expression, preceded by (atā ʿalā) (finish or destroy) and conjoined with اليابس (al-yābis) (the dry), meaning "to destroy completely/everything". The most concrete meaning of (aḥḍar wa l-yābis) in this context would be in a scenario where fire eats everything from green living plants to dead plants. The semantic projection is then metonymic as green and dry stand for all the living plants and dead plants affected by fire respectively. However, this meaning is metaphorically generalized to everything, including humans and buildings, as in the case of war.

Table 3. Collocate frequency of أَخْضَر (ahdar) in modern literature.

Collocate	Collocate frequency
(al-arḍ) (the earth) الأرض	4
(zarbiyya) (carpet) زربية	3
(at-ṭāir) (bird) الطائر	2
(al-baṣal) (onions)	2
(al-ḥašīš) (grass)	2
(al-yābis) (the dry)	2
(wāḥa) (oasis) واحة	2
(ḥuqūl) (fields) حقول	2
(Tunisia) <b>تونس</b>	2
(al-ašjār) (the trees)	2

As seen in **Table 4**, the sixth most frequent collocate البيابس (al-yābis) in modern literature is the most frequent collocate in nonfiction texts. The second most frequent collocate النبيا (ad-dunyā) (the world) is generally used with reference to the Prophet's hadith, "the world is sweet and green (alluring) and verily Allah is going to install you as vicegerent in it in order to see how you act. So avoid the allurement of women: verily, the first trial for the people of Isri'll was caused by women" [25]. The semantic extension in this context is metaphorical as the world, compared with fruit, is fresh, sweet and attractive. The third most frequent collocate (ال) (ad-daw') (the light), forming an idiomatic expression, is extended to the meaning of "permission to start or proceed with something". Thus, the green light, the traffic light that signals permission to go, is metaphorically extended to authorization for doing something. The fourth, sixth, seventh, eighth and ninth most frequent collocates: (العلم (ين) (al-'alamayn) العلم (ين) (al-maylayn), the marker (s) between which running is designated in performing as-sa'y during the ritual pilgrimages of Hajj and Umrah, خنة (ال) (al-janna) (heaven), طير (tayr) (birds) (in paradise), سندس (sundus) (fine silk) (worn in paradise), and as-sa'y are associated with positive religious concepts. The tenth most frequent collocate الخط (al-hat) (the line) is an element of the compound noun the Green Line, referring to the boundary between pre-1967 Israel and the Occupied Palestinian Territories. This border marks the land that Israel captured in 1948 [28]. The border was named after the green ink used to draw the line on the map demarcating the 1949 Armistice Agreements [29].

Table 5 indicates that the third most frequent collocate of خضر (aḫḍar) in nonfiction texts, *i.e.*, (على) (aḍ-ḍawʾ), is the most frequent collocate in newspapers. The second most frequent collocate is *spaces*, meaning "land covered with plants which are undeveloped". This sense is a metonymic projection from green plants. Conceptual metonymy also motivated the extension of خضر (aḥḍar) in the contexts where it frequently co-occurs with *area* (s), *mountain*<sup>1</sup>

<sup>&</sup>lt;sup>1</sup>The Green Mountain refers to the name given to mountainous plateaus in different places, especially in Oman and Libya.

Table 4. Collocate frequency of اَخْضَر (ahdar) in nonfiction.

Collocate	Collocate frequency
(al-yābis) (dry)	95
(ad-dunyā) (the world)	42
(ال) (aḍ-ḍawʾ) (the light)	41
(al-maylayn) (the marker (s)) العلم (ين) (al-ʿalamayn)	41
(al-gabrāʾ) (the earth) الغرض	41
(ال) (al-janna) (heaven)	35
(ṭayr) (birds) طير	28
(yasʾā) يسعى/(al-masʾā) (لا)سعي	21
(sundus) (fine silk)	16
(al-ḫaṭ) (the line)	15

Table 5. Collocate frequency of أَخْضَر (ahdar) in newspapers.

Collocate	Collocate frequency
(ال)ضوء (aḍ-ḍaw') (the light)	1344
(al-musaṭṭaḥāt) (spaces) المسطحات	517
(al-ḫaṭ) (the line)	506
(ال) <u>ب</u> ابس (al-yābis) ((the) dry)	325
(al-minṭaqa) (the zone)	292
(ال)مستطيل (al-mustaṭīl) ((the) rectangle)	253
(al-jabal) (the mountain)	251
(minṭaqa)/ (ال) مناطق (al-manāṭeq) ((the) area (s))	202
(al-ḥizām) (the belt)	107
(tawra) (revolution) ٹورة	72

and belt, to "being covered with vegetation". The compound green belt denotes "a land around a city in which building is not allowed", and so it is associated with conservation. The tenth most frequent collocate further supports this association as the green revolution conveys the change in agriculture to increase food production. The fifth most frequent collocate المنطقة (al-mintaqa) (the zone) projected the meaning to "the International Zone of Baghdad", cordoned off for protecting it from attacks during the war. Thus, green is metaphorically extended to "secure". The sixth collocate المنطقل (al-mustatīl) ( (the) rectangle) shows another metonymic extension of green as المنطقل الإخضر (الله) (al-mustatīl l-aḥḍar) (the green rectangle) means "the football pitch". Thus, green, the first element of the compound, stands for the turf that covers the field, and rectangle, the second element of the compound stands for the marked-out field.

<sup>&</sup>lt;sup>2</sup>Despite its popular use in sports, there is no reference of this compound in Arabic dictionaries possibly because it is a very new neologism.

## 5. Discussion

Based on the corpus data, the term أَخْضَر (ahdar) showed its constant frequency over time as both premodern and modern subcorpora score highly in their average occurrence for أُخْضَر (ahdar). The collocates of أُخْضَر (ahdar), in contrast, vary in frequency over time. The collocate الأرض (al-ard) maintains its frequency rank in modern nonfiction and is the most frequent collocate in modern literature. The sixth and seventh highest collocates of أخضر (ahdar) in premodern texts, that is, الجدة (al-jilda) (the skin) and الليك (al-layl) (the night) are not available anymore in modern texts. This suggests that this meaning has vanished. The association of نخضر (aḥḍar) with nature has an equivalent high frequency in both premodern and modern texts. New frequent collocates that are connected with religion appear in modern nonfiction: (العلم (ين) (al-'alamayn)/ سندس (al-maylayn) (the marker (s)), الميل (الـ) (al-janna) (heaven) and سندس (sundus) (fine silk). The third most frequent collocate (dd-daw) (the light) in modern nonfiction scores the highest frequency in newspapers. This subcorpora also marks a change in prototypical meanings as it introduces new frequent collocates, e.g., ثورة (tawra) (revolution) (in agriculture), الخط (al-hat) (the line) and المنطقة (al-mintaga) (the zone) (in politics), and المنطقة (al-mustatīl) (the rectangle) (in sports). Etymologically, the term خضر (ahḍar) refers to "fresh living plants", which means that the term is historically associated with grass. This agrees with Wierzbicka's [7] postulate that the closest rendering of the English term green in numerous languages of the world is "either morphologically or etymologically related to words for grass, herbs, or Vegetation in general" [7]. Thus, it is suggested that vegetation is the prototype of green, from which most of the other senses developed. Most of the semantic extensions of خضر (ahdar) were motivated by conceptual metonymy, and some meaning extensions were motivated by conceptual metaphor. However, some of these extensions may be the equivalents of words or phrases from other languages, especially English. For example, the compound الخط الاخضر (al-hat l-ahdar) (the Green Line) was named by the Israelis [29]. For another example, the compound المنطقة الخضراء (al-minṭaqa l-ḥaḍrāʾ) (The Green Zone) was created by some US security personnel [30]. These compounds are deemed to be translated into Arabic. In addition, with the awareness of environmental issues worldwide, the formation of numerous meanings and words is the result of loan translation and thus language contact; some instances are the green revolution and the green belt.

## 6. Conclusion

The results show that there is a slight increase in the frequency of occurrence of  $\hat{j}$  (aḥḍar) in both premodern texts and modern texts, indicating the constant usage of the term in Arabic over time. They also indicate that the most common prototypical meanings of  $\hat{j}$  (aḥḍar) vary from premodern texts to modern texts. However, the term  $\hat{j}$  (aḥḍar) in general maintains its positive conno-

tation and favourable status. This can be attributed to the fact that أخضر (aḥḍar) is conventionally associated with religious and cultural concepts like paradise, peace and oasis. In addition, most of the new common meanings that the term concerned developed through loan translation from other languages as an outcome of language contact, affected by globalization, global issues, and so on, are positive. The results also indicate that conceptual metonymy and metaphor are highly active in the semantic expansion of أَخْصَر (aḥḍar) and that metonymy is even a more active semantic projection of أَخْصَر (aḥḍar). The findings of the current study are believed to have critical implications for translation and education. The study also contributes to the field of cognitive linguistics with new knowledge on the universal and culture-specific use of conceptual metaphor and metonymy in the polysemy of Arabic colour terms.

# **Conflicts of Interest**

The author declares no conflicts of interest regarding the publication of this paper.

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