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| RESEARCH ARTICLE

Lexical Shortening and Blending: An Innovative Word Formation Process in Arabic

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ABSTRACT

A corpus of 170 partial Arabic blends in which the first and/or second constituents are shortened was collected from several Arabic resources and subjected to further analysis to explore the structure of Arabic partial blends; blend types (attributive/headed); which constituents and which part is shortened; the kind of relation that exists between the constituents of Arabic blends; and the contexts or registers which favour the formation of lexical blends. Blends consist of two or more words merged into one new word. Blending involves shortening of one constituent or both. It involves creating new words by omitting part of the original word but retaining its original meaning. Partial blends consist of a splinter, i.e. shortened constituent (ترکو) جمهو ,Saudi سع ,security القرو-وسطى , أمنو ,biology أحيه ,Jewish يهو,Euro أورو ,Iberian ايبرو ,Afro فطر ,Afro افرو ,Ango انجلو republic) and a head (full constituent) that combines with it. Data analysis showed the following: (i) compounds with multiple أن المُعْمَس ،فَسْكُر ،فَحْسك ، فَحْكَر < carbon+sugar فَحْم السكر); (ii) blends with different splinters from the same lexical items with a final reduction in the first constituent (کهرمغنیطیسی) electromagnetic(; (iii) blends with a splinter as a first constituent+the combining vowel /o/ تركوخليجي Turkish+Gulf; هندو إيراني Indo-Iranian); (iv) three-and four-constituent blends (الأنجلو-صهيو-,pre-historic; فيتاريخ) Anglo+Zio+ Persian+American); (v) Blends with prefixes that are shortened particles/adverbs فارسي-أمريكي undersea); (vi) blends with initial reduction in the second غِبْلُوغ ,ultraviolet فوبنفسجي ;interlinear بيسطري constituent resulting in the suffix {el} (امریکائیل) America+el last syllable in Israel); (vii) splinters with initial reduction in the second constituent (بيروتشيما Beirut +Hiroshima; عبقريشتاين (genius+Einstein); (viii) imperfect blends with final reduction of first Algeria+Palestinian); (ix) technical جزائسطينية ;algeria+Palestinian) متشائل) acid+vinegar); and (ix) blends with overlapping consonants (نفمی freeware, مُمْضَلُون acid+vinegar); and (ix) blends with overlapping consonants (عربيزي nose+mouth; عربيزي Arabic+English; (قببلوغ (قبل+بلوغ Sudan people). Syntactically and semantically, the relation between constituents of a blend containing a prefix/suffix is exocentric and syntagmatic but it is endocentric and paradigmatic in blends in most of the categories. Recommendations for testing the Arabic blend recognition, comprehension and interpretation by translation students are given.

KEYWORDS

Partial blends, full blends, initial reduction, final reduction, back reduction, overlapping consonants, combining vowel, Arabic compounds, complex reduction, word formation processes

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1. Introduction

Blending¹ is a word formation process in which two or more words are merged into one new word. Blends are a subtype of compounds because they are formed of two (or sometimes more) content words. The word "camcorder" combines parts of "camera"+"recorder", joining a full word with a portion of another word (called a splinter) as in "motorcade" which combines "motor"+a portion of "cavalcade." The blended constituents are either shortened as in brunch > breakfast+lunch, motel > motor+hotel or blizzaster > blizzard+disaster), or partially overlap or combine phonemes at segments that are phonologically

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¹ Blending in Morphology

or graphically identical as in *stoption* > *stop+option* and *Spanglish*, which is an informal mix of spoken *English+Spanish*. Blends can also be formed through the omission of phonemes as in *Eurasia*, that combines *Europe* and *Asia*. This blend is formed by taking the first syllable of "*Europe*" and merging it with the word *Asia*.

More exotic examples of blends include formations like *Thankshallowistmas* (*Thanksgiving+Halloween+Christmas*). The visual and audial amalgamation in blends is reflected at the semantic level. It is common to form blends that combine the meaning of two objects or phenomena, such as an animal breed (*zorse > zebra* and *horse*), an interlanguage variety as in (*franglais > français+anglaise*) meaning a mixture of *French* and *English*, or (*shress > shirt+dress*), a type of clothes having features of both (Beliaeva, 2019a)

Blend involves shortening of one constituent or both. Shortening² of words in a lexical blend involves omitting part of the original word, but retaining its original meaning. There are 4 types of shortening: (i) cutting the beginning of the word (telephone > phone; alligator > gator; parachute > chute; turnpike > pike); (ii) cutting the end of the word (rehabilitation > rehab; university > uni, professor > prof; application > app; introduction > intro; laboratory > lab, continued > cont); (iii) cutting the beginning and end (influenza > flu, pajamas > jams, Apollinaris > Polly; detective > tec); (iv) changing the spelling of the word (vegetable/vegetarian > veggie, Christmas > Xmas, bicycle > bike).

Morphologically, one of the constituents in the blend is the head and the other is the attributive³. The head is the dominant constituent, and the attributive modifies it as in the word "porta-light" in which "portable" is the attributive and "light" is the head. The attributive may display an endocentric relation with its head, as in rockumentary >rock+documentary) and Clintonomics > Clinton+economics). In rockumentary > rock+documentary, and Clintonomics > Clinton+economics, the second splinters -umentary and-(o)nomics are potential combining forms or secreted affixes for novel formations (Elisa, 2019). Beliaeva (2016) added that blends such as predictionary > prediction+dictionary and clipped compounds as finlit > financial+literacy demonstrate a more general morphological phenomenon, mainly, a continuum of word formations driven by two counteracting processes: clipping and compounding.

Blends tend to be formed from semantically and phonetically similar words in such a way that the source words remain recognizable (Gries, 2006). The semantic similarity between the two constituents reflects a conjunction of their concepts. The two constituents are either hyponyms of one of their constituents or exhibit some kind of paradigmatic relationships between the constituents, i.e., they hold the constituents of the same category but can be substituted for each other. They are nonlinear and non-simultaneous (Beliaeva, 2019b; Beliaeva, 2016; Filonik, 2014; Cook, & Stevenson, 2007). The two constituents are the split of a source word into a prefix/suffix as it contributes to the blend and the remainder of the word occurs at a syllable boundary or immediately after the onset of the syllable (Def Pasari, 2015). Syntactically, the two constituents are content words such as Noun+Noun or Adjective+Noun.

Moreover, lexical blending is a highly productive word-formation process by which new words enter a language (Mierzwińska-Hajnos, 2017). Every year, hundreds of new lexical items are coined or borrowed. They express various concepts and phenomena in the fields of politics, science, technology, healthcare, space research, agriculture, aviation, transport, language and linguistics, art, social phenomena, everyday life, finance and economics sports, education, etc. Due to their unusualness and expressiveness, they are widely used in the media.

In English, lexical blending is a highly predictable and productive process. It is an important source of neologisms, although derivation and compounding are probably much more frequent processes. In English, (Def Pasari, 2015; DiGirolamo, 2012; AlJarf, 2010b).

Although Arabic is mainly a derivational language, it has other word formation processes such as blending, which is a subtype of compounds. Arabic has total blends and partial blends. Total blends may be (i) fully Arabic (الجوفضائية Birzeit; الجوفضائية Birzeit; الموادئة الموادئة a person who acts on behalf of another خصْرَموت a person who acts on behalf of another in his position; الماوراء words and actions; معديكرب (ii) fully borrowed (social media; coffee shop) or (iii) hybrid (حمض الهيدروكلويك). Similarly, partial blends can be (1) fully Arabic (نفسجسمي بيخلوي); (2) fully borrowed اسلاموفوبيا، جيوسياسي) Islamophobia, Francophonie); or (3) hybrid اسلاموفوبيا، جيوسياسي)

² Shortening

³ en.wikipedia.org/wiki/Blend_word

parts of speech can be blended such as (A) particles and adverbs: الله (not to; إلم إuntil when, to what; إما , either; وينما , either; إلم المرابعة والمرابعة والمرابعة والمرابعة والمرابعة المرابعة والمرابعة والمراب whenever; اب نمبي 'Abahussein; اب نمبي 'then; (B) compound proper nouns: أبا حسين 'Abahussein; ابا نمي 'Abahussein; ابا نمي بوعلي ;Bou-azizi البوعزيزي ;Bingirdan بنكيران ;Binsaleh بنقردان ;Balqasem بنصالح ;Baleid بلقاسم ;Baleid بلعيد ;Balhareth بأحارث metal الفلز عضوية amphibian برمائي ;Gulf-Iranian خليجي-إيراني ;Ramallah رام الله ;Middle Eastern شرق اوسطي ;ISIS-Picot بيكو organic'(D) pre-Islamic blends as in names of some tribes بهشمي Bahshami (from Bani Hashem); عبقسي Abgasi (from Abd Qays); from Abd Shams); (E) ancient Islamic expression; some of) عبدريّ (Abdari (from Abduddar); عبدريّ which are still used: استرجع الاسترجع الاسترجع lto say to Allah we belong and to Him we shall return. بسملة بَسْمَل to say in the name of Allah; حوقل ;to say Thank God حمدلة حمدل ;Allah is sufficient for us and He is the best trustee حسبل الحسبلة to say Glory be to God; سمعلّة سَمْعَل There is no might or power except with Allah; حولقة حولق حوقلة مشكن ;(to say there is no god but Allah مشأل مشألة ;to say ma shaa Allah (this is granted by Allah مشكن (to say there is no god but Allah مشكن (to say ma shaa Allah (this is granted by Allah); مشكن to say what Allah wills, will be, i.e., will happen); (F) shortening and blending common in Colloquial spoken Arabic nouns and عبد السميع ; Ab-Aziz عبعزيز < عبد العزيز ; tangerines سفندي<يوسف افندي ; مساء الخير Ab-Aziz عبد العزيز in my life; (G) blends used in Standard and فحياتي ;Absalam عيسلام ;ab-Majeed عيمميد < عيد المجيد ;Ab-Samme عيسميع< colloquial Arabic, and general and technical language which are the focus of the current study (Nasser, 2008; Al-Jarf, 2015b; Al Jarf, 2011b; Al-Jarf, 2010a; Al-Jarf, 2004; Al-Jarf, 1996; Al-Jarf, 1994a; Al-Jarf, 1994b; Al-Jarf, 1994c; Al-Jarf, 1990).

2. Literature Review

Numerous studies in the literature explored lexical blending in a variety of languages such as Italian lexical blends: From language play to innovation (Cacchiani (2015; Renner, 2015); unfamiliar Italian lexical blends from names and nouns (Cacchiani, (2011); borrowings, hybridity, adaptations, and native word formations in Italian lexical blends (Cacchiani, 2016); lexical blending from zero to hero in Romanian (Vasileanu, Niculescu-Gorpin, & Radu-Bejenaru (2022); blend formation in Modern Greek (Ralli & Xydopoulos, 2012); an optimality-theoretic analysis of lexical blends in Korean (강은경 Eunkyung Kang (2013); evidence from German, Farsi, and Chinese for blending grammar and universal cognitive principles (Ronneberger-Sibold, 2012); an elicitation paradigm and a structural analysis of Ukrainian blends (Borgwaldt, Kulish& Bose, 2012); lexical blending in Ukrainian: System or sport (Winters, 2017); borrowing word-formation: -ing suffixation and blending in Bulgarian (Stamenov, 2015); lexical blending in Polish as a result of the internationalization of Slavic languages (Konieczna, 2012), a combinatory logic and formal-semantic account of lexical blending and others (Bassac, 2012), Word formation of blends (Čolić, 2015) blending words found in social media (Giyatmi, Wijayava & Arumi, 2017) and others.

Another line of research focused on lexical blending in English such as new lexical blends in English (Hosseinzadeh, 2014; Šomanová & Vogel, 2017); the innovation and adoption of English lexical blends (Connolly, 2013); merging as a way of forming lexical units in the modern English language (Orazbekova & Muldagalyieva (2017); a corpus-based analysis of new English blends such as *glamma* (*glamour+grandma*), eatertainment, irritainment, shoppertainment, from the splinter -tainment in entertainment (Elisa, 2019); English lexical blends on social media as *crasins* > *cranberries+raisins*, *mocial* > *mobile+social*, neature (neat+nature), Piloga > pilates+yoga, perthonality > personality+Perth (Cook, 2012); cognitive constraints in English lexical blending with a data collection methodology and an explanatory model (Kjellander, 2018); lexical blends and a reanalysis of morphemization (Frath & Hamm (2005); the automatic identification of source words in English lexical blends (Cook & Stevenson, 2010); a contrastive study of English and Thai compounding and lexical blending (Charernwiwatthanasri (2022); a contrastive analysis of French and English lexical blends (Renner, 2019; the phonological and orthographic constraints that shape blended words, such as preference for complex onsets, maintenance of stress placement, phonological and orthographic overlap and comparison with lexical neighbors to evaluate their phonotactic acceptability, orthographic transparency and interaction of many layers of representation (DiGirolamo, 2012) and others.

Unlike English, Italian, Ukrainian, Polish, German, Farsi, Chinese, Modern Greek, Korean and others, studies that explore blending as a word formation process in Arabic are very few. A study by Khasara (1998) gave a detailed historical review of lexical lending as a word formation process and its impact on terminology development. He discussed blending as a spontaneous activity, standardization of blends, contemporary blending, and blending rules and conditions. He gave many ancient as well as new lexical blends created until the 1990's. He gave example and set rules for acceptable and unacceptable Arabic blends and some Arab lexicographers' position of newly-created blends before the 1990's.

Another study by Mohsin (2020) examined Arabic blends in the light of three blend formation tendencies in English: (i) the cutoff point in the source words, (ii) the proportional contribution of source words to the blend, and (iii) the stress pattern in the blend. Mohsin (2020) added that blends in Classical Arabic are generally formed by joining the first two root consonants of each source word and imposing the prosodic pattern CaCCaC on them as /Sabdar(ij)/ 'someone from the family of Abdul Dār' < /Sabd/ 'slave'+/da:r/ 'house', /Sabqas(ij)/ 'someone from the family of Abdul Qays' < /Sabd/ 'slave'+/qajs/ 'a male name', and /Sabʃam(ij)/ 'someone from the family of Abdi Shams' < /Sabd/ 'slave'+/ʃams/ 'sun'. Such names of Arab tribes appeared the 6th Century AD. Mohsin identified 3 main tendencies in Arabic blend formation: (1) the general tendency for the cut-off points in source words that occurs at syllabic joints with the majority occurring between syllabic constituents; (2) the tendency for the greater proportional contribution to come from the shorter source word, and for source words of equal phonemic lengths to contribute equal proportions to the blend; and (3) the general tendency for the stress pattern of the blend to be identical to that of the source word that has identical syllabic size as that of the blend.

Recent blends coined in the past decade or so and other aspects of lexical blending in Arabic have not been the focus of any study in the Arabic word formation literature as lexical blending in Arabic is a rather novel but fast-growing word-formation process especially in the political field. Therefore, the purpose of this study is to explore (i) the formation of lexical blends in Arabic, i.e., the structure of blends in Arabic; (ii) blending types (attributive/headed); (iii) Which of the two constituents of the blend and which part is shortened; (iv) whether there are any formal, semantic, and syntactic regularities in the formation of Arabic blends; (v) identifying the contexts/registers which favour the formation of lexical blends, ranging from slang/colloquial registers to specialized domains; (vi) the kind of relation that exists between the constituents of Arabic blends semantically and/or morphologically. This study will focus on partial blends in Arabic, where one or both constituents of a compound is/are shortened and then blended. Total blends, i.e., full compounds will not be included in the current study as they were investigated by other studies by Al-Jarf (2023c), Al-Jarf (2023g), and Al-Jarf (2022b). The stress pattern in partial blends in the sample is not the focus of the current study. The stress pattern of Arabic blend will not be the focus of the current study,

3. Significance of Study

Findings of the present study are significant for gaining a better understanding of the latest innovative word formation processes in Arabic with a focus on lexical blends to provide new information based on the linguistic investigation done, and to provide an explanation for the driving force behind the occurring changes in this Arabic word formation process.

Moreover, this study is part of a series of studies on some innovative linguistic phenomena in Arabic such as clipping of borrowings in spoken Arabic (Al-Jarf, 2023a); hybrid compounds consisting of a foreign lexeme and a native Arabic lexeme (Al-Jarf, 2023g); hybridized lexical items that combine native Arabic lexemes and borrowed affixes (Al-Jarf, 2023d); Arabic word formation with borrowed affixes (Al-Jarf, 2014); derivation from foreign words borrowed in Arabic for which no derivatives exist in the source language (Al-Jarf, 2021); derivation from native and loan acronyms used in Arabic (Al-Jarf, 2023b) English spelling of Arabic compound personal names by educated Arabs on Facebook (Al-Jarf (2023c); the semantic and syntactic anomalies of Arabic-transliterated compound shop names in Saudi Arabia (Al-Jarf, 2023f); translating English and Arabic common names of chemical compounds by student translators (Al-Jarf, 2022); and neologisms (Al-Jarf, 2010b); It is also part of a series of studies about innovative word formation processes that appeared during the Arab Spring such as emerging political expressions (Al-Jarf, 2022a; Al-Jarf, 2014); the expressions and vocabulary used in sectarian language that describe the "other" (Al-Jarf, 2022c), and those that are politically incorrect (Al-Jarf, 2023e).

4. Data Collection & Analysis

A corpus of 170 Arabic partial blends in which the first constituent, second constituent or both are shortened was collected from social media. Technical blends were collected from the Arabic Language Academy publications, some Arabic references such as Khasara (1998) and the author's own collection. The sample includes general and technical blends, and those used in Standard and Colloquial Arabic. All the partial blends in the sample are used in Standard and/or colloquial Arabic, and all have Arabic constituents. All the partial blends in the sample were subjected to further analysis.

Total blends that are colloquial, compounds consisting of two full words, compound proper nouns, borrowed compounds that consist of two full words, compounds consisting of an Arabic word+a borrowed suffix, compound particles and adverbs, pre-lslamic blends and ancient Islamic expressions were excluded.

In each blend, the *head* which is the full word or full constituent and the *splinter*, i.e., the shortened word or constituent, were identified. Then all partial blends were categorized as follows: Technical blends; blends with final reduction in the first constituent; blends with final reduction in the first constituent; blends with initial reduction in second constituent; second constituent with Initial reduction; blends with initial reduction in the second constituent with; 3-and-4 constituent blends with 2 combining vowels; complex blends with a final reduction in first constituent and initial reduction in the second constituent, i.e., reduction in both constituents; blends in which the two constituents overlap at segments that are phonologically or graphically identical; and () blends where both constituents retain their form as a result of the overlap; blends with a split of a source word into a prefix/suffix; blends with a semantic or a syntactic relation between its constituents; blends with a paradigmatic and syntagmatic relationships between its constituents; and blends with an endocentric or exocentric relation between the head and the attributive.

Partial blends and their classification were verified by 2 colleagues with a Ph.D. in linguistics. The percentage of partial blends in each category was calculated. In addition, the data were analyzed and described qualitatively.

5. Results and Discussion

5.1 Blends with multiple splinters from the same lexical items

Some compounds (سمُ القَأَر ,قلم الحبر ,فَحْم السكر) have multiple blends depending on which vowel, consonant or syllable is deleted from the first or second constituent. In these cases, each word in the compound consists of 3 consonants. The head can be the first or second constituent of the compound and splinter can be the first or second constituent as in:

- o (carbon+sugar, i.e., carbohydrate): (i) فحم+س) full first constituent+first consonant of the second constituent; (ii) فَحْم السكر) first consonant of the first constituent+full second constituent; (iii) فح+كر) فَحْكَر (iii) فح+كر) first 2 consonants of the first constituent+last 2 consonants of the second constituent; (iv) فحسك) first two consonants of the first constituent+first 2 consonants of the second constituent.
- o العبر (pen+ink, i.e., fountain pen) : (i) قلم حرى قَلْمَع (gen+ink, i.e., fountain pen) : (ii) قلم العبر (gen+ink, i.e., fountain pen) : (iii) قلم العبر) final consonant deletion in the first constituent + first consonant deletion in the second constituent; (iii) قلبر) final consonant deletion in the first constituent and in the second constituent; (iv) قَلْبَر (gi) final consonant deletion in the first consonant deletion in the second constituent.
- o اسمُ الفَأْر (poison+mouse): (i) سم الفَأْر (سم + فر) the final consonant deletion in the first constituent +middle consonant deletion in the second constituent; (ii) سخأر (iii) أرس المغأر (iii) أرس المع المعالى final consonant deletion in the first constituent +; (سم + ف) سم المعالى المعال

Compounds with multiple blends are very few in Arabic. Semantically, the relation between the splinter and head in each is syntagmatic as both are collocations. Syntactically, the relationship between both constituents is exocentric as the splinters and heads have a different function. Each blend consists of a noun + an appositive. Both constituents cannot be reversed as changing their order would result in a meaningless structure.

5.2 Blends with a final reduction in the first constituent

In 7% of the examples in the sample, the first constituent in the blend is shortened and the second remains intact. Several splinters (shortened forms) are used as a first constituent. The following is a description of each:

- 1) The splinter اور/أورو (Euro/Eur) is the shortened form of أوروبي أوروبي European, where the second half of the words is deleted and the first one is retained. It is used as the first constituent of blends as أوروبي+متوسطي > أوروبا+آسيا (Euro-Mediterranean); and أور+اسيا > أور+اسيا > أور+اسيا (Euro-Mediterranean)
- 2) The splinter كهر (electric) is the shortened form of electricity/electric, where the second half of the word is deleted and the first one is retained as in كهربائي+ذرية > كهربائي+ذرية > كهربائي+ضوئي > كهربائي+ضوئي > كهربائي+ضوئي > كهربائي+خوئي > كهربائي+ضوئي > كالمربائي+ضوئي > كالمربائي+ضوئي

- 3) The splinter اجزائر+برس < جزائر+برس < جزائربرس > جزائربرس > جزائربرس > جزائربرس > جزائربرس > جزائربرس > (Alg) is used with the head noun press to form the blend جزائربرس > جزائربرس > (Algeria+press). In جزائربرس > نفسی+جسمی > نفس+جسمی > نفسی+جسمی > (Psycho somatic), the final consonant in the first constituent is deleted and the second constituent remains intact. In قرون+وسطی > (Middle+Ages), the final consonant was deleted in the first constituent .
- 4) The splinter **اه (ma)** which is the reduced form of ماء water, and the final glottal stop is deleted. It is used as the first constituent in ما+زهر > مازهر/مزهر ماء+زهر ماء+زهر مازهر/مزهر ماء+زهر ماء+زهر (water+rose, i.e., rose water) and ما+زهر > مازهر/مزهر ماء+زهر ماء+زهر

In all the blends herein, the splinter is the attributive that describes the head Semantically, the splinter and the heads $|e|_{ell}|$ (Euro/Eur), $|e|_{ell}|$ (Euro/Eur), are hyponyms as they belong to the same semantic category, whereas the relation between the two constituents of القرو-وسطي Middle Ages, rose water & Orange blossom water is syntagmatic and exocentric as the order of the constituents cannot be reversed.

5.3 Blends with a final reduction in the first constituent + a combining vowel /o/

In 42% of the bends in the sample, a combining vowel is used between the splinter and the head. Data analysis showed numerous splinters that are used before the combining vowel. The most common is صهيو (Zio) which is used in 22% of the blend. It is used as a splinter in the first constituent of the blend in 17% and in 5% of the blends it is used as a head in the second constituent as in the following examples:

- صهيوني +مسيحي < صهيومسيحية ;(Zio+Nigerian) صهيوني+نيجرية < صهيونيجرية ;(Zio+Farsi) صهيوني +فارسي < صهيوفارسي (Zio+Christian) صهيوصليبية ;(Zio +Christian) صهيوصليبية ;(Zio +Christian) صهيوني +صهيوني +صفوي (Zio +Crusaders) صهيونية +صليبية خصليبية (Zio+Salafist) صهيونية+داخلية < صهيو-داخلية زران حهيوامريكي خصهيوامريكي خصهيوامريكي (Zio+American) صهيوني + محووي خصهيوامريكي خصهيوامريكي خصهيوامريكي خصهيوامريكي (Zio+Arabian) صهيوني +محوسي < صهيو مجوسي (Zio+Atlantic) صهيوني +اطلسي < صهيواطلسي (Zio+Fatahawi) بأعرابي حصهيو مجوسي خصهيو متحاوي (Zio+Masonism) صهيوني + ماسوني < صهيوماسوني خصهيو رافضي (Zio+Rawafidi) حمهيونية +افريقية < صهيواماسوني (Zio+Rawafidi) صهيونية +افريقية < صهيواماسوني (Zio+Rawafidi) صهيونية استعمارية < صهيو استعمارية خصهيو استعمارية خصهيواماسوني (Zio+ African)) حمهيونية +الحوانية </rr>
 Brothers). The constituents in the majority of the blends are agglutinated.
- (ii) صهيوني (**Zionist/(Zionism** is used in full as a head in the second constituent of the blend as in ماسونية حماسوصهيوني (Masonic+Zionist); ترکو (Persian+Zionist); فرانکو صهيوني (Franco+(Zionist; فرانکو صهيوني) فرس+و+صهيوني (Turko+Zionist); مريکو صهيوني (Americo+Zionist).
- (iii) هندية+صينية (Indo+Chinese); هندية+صينية هندوصينية (Indo-American); هندية+امريكية (Indo-American); هندية+امريكية (Indo-Iranian); هندية+أوروبي< هندو أوروبي (المام-Indo-Iranian)) هندي+أوروبي< هندو آرية (Indo-Arian).
- (iv) كهربائي +مغناطيسي <كهروطيسي ;(electro+water) الكهربائية +مائية < الكهرومائية على (electro+magnetic) كهربائية + مغناطيسي <electro+magnetic) كهربائية + ضوئية < كهروضوئية ;(electro+magnetic) كهربائية + ضوئية < كهروضوئية ;(electro-atomic) كهربائية + ذرية
- امريكي +عربي < أمريكو عربي); (Americo + Fatah); امريكي +فتحاوي < أمريكو فتحاوي (أمريكو عربي); (Americo + Gamerico + Arab); أمريكو صهيوني < أمريكو صهيوني < أمريكو داعشية < أمريكو داعشية < أمريكو داعشية < أمريكو انجيلية < أمريكو انجيلية < أمريكو انجيلية < أمريكو استعمارية (Americo + Biblical); أمريكية + استعمارية (Americo + colonialism).
- (vi) Other splinters (combining forms) are used in 7.6% such as:
 - خليجي+تركية ; (Turko+Zionist) تركي+صهيوني < تركو صهيوني ; (Turko+Qatari) تركي+قطري <تركو-قطري (Turko عليجو تركية (Turko + Zionist) تركية (Turko + Zionist) خليجو تركية

- (Anglo-American) أنجلو+امريكي انجلو امريكي (Anglo-Saxon); انجلو+سكسوني <انجلوسكسوني (Ango. ا**نجلو**
- .(Afro -Asian) إفريقي+آسيوي افرواسيوي/أفرو آسيوي ;(Afro+Arab) افريقية +عربية <افروعربية <Afro **افرو**
- .(Qatari+Muslim Brothers) قطري+اخواني <القطرواخواني <Qatar **قطرو**
- ايبيريا+امريكا اللاتينية <ايبرولاتينية | Iberian | ايبريا
- .(Saudi+American) سعودي+أمريكي > سعو امريكي Saudi سعو •
- Euro+mediterranean). أوروبي+متوسطي <أورو متوسطي (Euro + mediterranean).
- Republic + جمهورية + سلطنة جمهوسلطنة /Republic جمهورية + سلطنة مهوسلطنة /
- Jewish > يهود + مسيحية (Jewish + Christian).
- احياء+مائية <الاحيومائية biology+water).
- Security+TV). أمن+تلفزيون الأمنوتلفيزيونية <security أمنو

The combining vowel /o/ is added to connect the splinter and the head that begins with a consonant and facilitate pronunciation.

In all of the above examples, the splinters (combining forms) هندو zio, صهيو zio, هرو zio, هرو zio, هرو Afro, افرو Afro, افرو squar, البيو Ages, أمريكو Ages, أورو Euro serve as roots which can be combined with full lexemes to form blends. All the roots herein are the attributive and the second constituents that follow them are the head. Syntactically, those attributives display an endocentric relation with the heads that combine with them. In each example, the blend has the same function and the same part of speech as the head, i.e., a noun or an adjective. Both constituents have the same part of speech as the full blends. The order of the two constituents in each blend can be substituted for each other (reversed) without any change in the meaning of the blends. However, the full form, not the shortened form, should be used.

Semantically, the relationship between these attributives and the heads that follow them is paradigmatic as the first and second constituents are hyponyms that belong to the same semantic category such as countries or type of energy.

The splinters (roots) mentioned above (فرو ميه Index) افرو Ango, قطر Afro, قطر (Afro, قطر Jewish) قطر (Iberian, أورو Berian, أورو Zio and others) are widely used in the media and on social media. They can be used to coin new partial blends in Arabic.

5.4 Three-and four-constituent blends

Five percent of the blends in the data consist of three and four constituent blends with one or two splinters with the combining vowel /o/ as in نجلو سكسوني صهيوانجلو امريكي (Anglo+ Saxon + Zionist); صهيوأمريكو جندرية (Zio+Americo+gender); صهيوانجلو امريكي (Anglo+American); انجلو صهيو أمريكية (Anglo + Zio + American) انجلو صهيو أمريكية (Anglo+Zio+Saxon); الأنجلو-صهيو-فارسي-أمريكي (Afro-Eurasian; الفريقيا+أوروبا+إيا) أفرو-أوراسيا (Anglo+ Zio+ Persian+ American); فارسى-أمريكي-أنجلو-صهيوني (Persian + American + Anglo + Zionist).

Unlike the majority of partial blends described in the previous sections, some of the three-and-four constituent blends here are hyphenated, others are agglutinated, and one is spelled with blanks in between the constituents.

Syntactically, the words in each complex blend can be rearranged without affecting the meaning of the whole blend. The acceptable word order in each blend is not necessarily the same as the English equivalent of each blend owing to the differences in word order between English and Arabic in which the modifier follows the modified noun whereas in English it precedes it.

Semantically, the relation between the three or four constituents of the blend is paradigmatic as they are all names of countries (Proper Nouns) or attributive adjectives derived from the names of those countries. Syntactically, the relation among the constituents is endocentric as all the constituents are the same part of speech as the the whole blend, i.e., all are either nouns or adjectives.

All of the blends are used in political contexts, in Standard as well as Colloquial Arabic on social media.

5.5 Blends with prefixes as splinters

In blends containing adverbs/particles functioning as a prefix in each blend, the final consonant is deleted and the second constituent which is a noun, or an adjective, remains intact. Thus, the adverb/particle is the splinter and the noun/adjective in the second constituent is the head. This kind of prefixation in Arabic is a transfer from English. However, they are not as prolific as prefixes and prefixed lexical items in English. The Arabic adverbs/particles used as prefixes are عنب inter, فوق post; تحت ;sub/under as in the following are examples of each.

- o تبلوغ > قبل + تاريخ > قبتاريخ > قبتاريخ > قبتاريخ > قبتاريخ > قبتاريخ > قبل + تاريخ > تاريخ > قبل + تاريخ > تاريخ >
- o بين العضل < بيعضلي ;(interdental); بين+الأسنان < بَيْسِنّي ;(interlinear)) بين العضل < بيعضلي ;(inter: بين+الأسنان < بَيْسِنّي (inter); بين+سطري ;(inter cellular)) بين+جبلي <بيجبلي (بيخلوي ;(Intermountain)) بين+جبلي <بيجبلي
- o **فوق ultra:** فوصوتي > فونفسجي (ultraviolet); فوق+السوي > فَوْسَوِي (extra-normal); فوق +صوتي (ultrasonic); فوطبيعي (supernatural) .
- .(subconscious) تح+شعور < تحشعوري & تح+شعوري > ٿخشتعور ;(undersea) بحري+ تح < تحبحري & تحشعوري & تح+شعوري د
- o **post:** غب +مدرسي < غِبْمَدْرَسي) غب +جليدي > غِبْجَليدي (post puberty); غب +مدرسي < غِبْمَدْرَسي (post+ice age); غب +مدرسي > غِبْمَدْرَسي (after-school);
- outside school). خارج+مدرسي < خامدرسي **خارج خارج**

In each blend in this category, the relationship between the shortened particles + head that co-occur in each is syntagmatic as it affects the meaning of the blend. The relationship between them gives a particular meaning to the blend. The shortened particle + head in each function is differently. The two constituents are irreversible, and the particles used are not interchangeable. Each is used with a specific noun or adjective.

In each blend, the shortened particle and head have an exocentric relationship as each constituent in the blend does not function like the complete blend, as the splinter is a particle, and the head is a noun or adjective. The two constituents in each blend function differently from the whole blend, i.e., no constituents are functionally equal to the blend as whole. So, there is no definable head inside the group or the middle phrase that signifies the head.

Blends containing shortened prefixes in this section are from different subject areas such as psychology, dentistry, education, biology, chemistry, history and others.

5.6 Blends with an initial reduction in the second constituent resulting in a suffix

In 6.5%, the first constituent in the blend is the head (intact word) and the splinter is the second constituent of the blend. The splinter is the reduced form of *Israel* (el & ael) where the initial part is deleted and then it is merged with some countries, beliefs and other proper nouns as in: مصرائيلي (Egypt + ael from Israel); مصر + ئيل > مصرئيلي (Egypt + el from Israel); مصر + ائيل > قطر (Qatar+ael); قطر + ائيل > قطر (Syria + el); مصرائيل (Arab + ael); اسلامائيل (Islam+el).

In the above examples, /el/ is functioning as a suffix as many words/compounds in Arabic contain the Aramaic suffix /el/ as in Samuel, Gabriel, Michael Mikael, Raphael, Jibrael, Israfel, Jibrael which occurred in the Holy Quran; شرحبيل Sharhab-el, Sharh-el, Karb-el, Yeda-el, Zabad-el, عزائيل Azrael, Wahbel, Aws-eel that were mentioned in the Torah (Al-Jarf, 2023d).

Some cynics (politicians, activists, social media users) added {-el} to Proper Nouns (some countries or agreements) to refer to the alliance between those countries and Israel during the Arab Spring to as in عرابئيل (Qatarael (Qatar +Israel), عرابئيل (Arabs + Israel), قطرائيل (Egypt + Israel), مصرائيل/مصرئيل (America-el (America + Israel), المدائيل (Ira-el (Iran + Israel), حماسئيل (Ira-el (Iran + Israel), سايكس ئيل (Sykes-el (Sykes-Picot treaty + Israel), سايكس ئيل (Syria + Israel), مسرائيل (Syria + Israel), صبرا ئيل (Sabra-el (Sabra Massacre in Lebanon + Israel). These hybrids were coined by some journalists and activists during the Arab Spring and are used in political contexts in Colloquial Arabic. {-el] underwent a change in pronunciation as it is pronounced with the long vowel /i:/ (Al-Jarf, 2023e).

The lexical blends that contain the suffix {el} are unusual and expressive. They are widely used in political context in the media and on social media.

5.7 Blends with initial reduction in the second constituent

In 7% of the blends in the sample, the first constituent (head) in each blend is intact and the initial second constituent (splinter) المروت المروت

The relationship between the constituents is paradigmatic and endocentric as the constituents in each are hyponyms or cohyponyms. They belong to the same semantic category (names of countries or cities and chemical. In their full form, the two constituents in each blend have the same part of speech as the whole blend. In their full form, the 2 constituents are interchangeable and reversible. Most of blends are political and are used on social media.

5.8 Imperfect blends with final reduction in the first constituent + initial reduction in the second constituent

In 16% of the blends in the sample, parts of the first constituent and the second constituent are deleted as in:

- 1) The deletion of the final syllable /el/ in the first constituent and the deletion of first syllables in the second constituent اسراطین (Israel+Palestine), then combining both splinters. The last syllable is deleted in Israel and the first two syllable are deleted in Palestine and the final syllable is retained.
- 2) In ايرا+ئيل ايرائيلي | ايرا+ئيل (*Iran+Israel*) ايرا+ئيل ايرائيلي | (*Iran+Israel*), the first syllable in *Emirates* and Iran (first constituent) is retained and the last part is deleted, but the first syllable in the second constituent Israel is deleted.
- 3) In سعو+طانیا > (Algeria+Palestinian), and سعو+طانیا > بریطانیا > سعودیة +بریطانیا (Saudi+Britain), the first syllable in Algeria and Saudi is retained, whereas the initial syllable of the second constituent Britain and Palestine is deleted.
- 4) In سو+رانية < سوريه+إيرانية < سوريه+إيرانية < سوريه+إيرانية < سوريه+إيرانية < سوريه+إيرانية > Surian+Iraqi) and سو+رانية < سوريه > Surian+Iranian), the first syllable in the first constituent Syria is retained whereas the initial syllable in the second constituent is deleted.
- 5) فلسط+وري< فلسطيني+سوري< **فلسطوري:** «the first consonant of the second constituent, both are merged.
- 6) مغ+زائري < مغربي+جزائري < مغرائري < مغرائر
- 7) سعودي + برس > سعودي + برس (*Saudi+Press*): the final syllable in the first element is deleted + the initial consonant in the second constituent.
- 8) **In** عربي+زي < عربي+انجليزي **< عربيزي** (Arabic+Latin) and عربي+زي < عربي+انجليزي > عربي+انجليزي < عربي+انجليزي > عربي+انجليزي (Arabic+English), deletion of the final vowel in the first constituent + deletion of the initial syllable in the second constituent.
- 9) زمان > رومان + مکان > رومان (space+time), the words زمان & مکان are the same length and rhyme. Here the last syllable is deleted in the first constituent زمان and the initial syllable is deleted from the second constituent مکان . Several derived forms have been derived from the new blended such as تَمْكُنَ (transitive past verb); تُرَمْكُنَ (transitive past verb)) تَرَمْكُنَ (past participle); تَرَمْكُنَ (intransitive past verb)) تَرَمْكُنَ (action noun derived from the intransitive verb)) الزَّمْكَنَة (adjective).
- 10) Historically, سامراء حسُّرٌ من رَأَى المعاراء (Samarra from Please+viewer), the name of the city of Samarra was up made up of merging consonant taken from each word and inserting vowels.
- 11) سر+نوم < سار+نوم < سرنم (walk+sleep): the middle vowel deletion in both constituents as in walk+sleep and the derived action noun سرنمة (sleepwalking).
- net+web), t الشن**کټوتية** which is an equivalent for the *World Wide Web* was created from الشن**کټوتية** (net+web), t
- 13) متشابه + جهة < متشاجه (similar+direction/side): the final syllable is deleted in both constituents.
- 14) متشائر + متفائل (pessimist+optimist): both words have the same length. The final syllable is deleted in first constituent and the first 3 initial syllables are deleted from the second constituent. The blend is the same length as the first and second constituents and rhymes with them.
- 15) جو+نقل < جو+نقل > جو+نقل (air+bear) as a verb is a combination of the first constituent with the last part of the second constituents. The two elements have the same length. Other forms were derived form it as مجوقل (air-borne). All forms are used in the military.
- 16) نق+حر < نقل عادر (transliteration): the two constituents) نقاطره (transliteration): the two constituents نقحرة (transliteration): the two constituents نقل عادر (transliteration): the two constituents (transliteration): are verbs of the same length with the same number of consonants. The final consonant was deleted from both constituents. Other forms were derived from it such as نقحرة transliteration.
- 17) In هندرة > هندرة > هندرة ادارة > (engineering+management), the two constituents have the same length (5 consonants). The first syllable was retained from هندسة (engineering) and another was created from the consonants d+r in ادارة administration. After the merging process and the creation of an action noun, the verb هندر (engineering+manage) was derived .
- 18) کهر+طیسی < کهربائی+مغنطیسی < *electr +magnetic):* Here the *root* کهر *electr* was created by deleting the last part of *electrical* and the initial part of *magnetic.*

- 19) بر+ماجوي < برماجي (land+sea+air): the three constituents are similar in length as each consists of 3 consonants. The first constituent is retained in full, the second is shortened by deleting the final glottal stop, and the third constituents is shortened by deleting the middle consonant.
- 20) ركب+موجة < ركبب والمحقة < ركب (follow the crowd): Here the final consonant is deleted from the first constituent and the middle consonant is deleted from the second constituent.
- 21) In حي+ثومة > عيان+جرثومة (animal+germ, i.e., sporozoan), the final syllable is deleted in the first constituent and the first syllable is deleted from the second constituent. The initial syllable in the first constituent is combined with the final part of the second constituent.
- 22) أن+ركزي < أنا + مركزية < **أنركزية** (I +center, i.e., egocentrism). In the first constituent the final vowel in the pronoun is shortened.
- 23) مسل+حية مسلمة مسلحية (Muslim+Christian) was created by deleting the final part of the first constituent + and the initial part of the second constituents. Although both words contain the same consonant /s/ it was retained in the first constituents and deleted in the second.

In each example in this category, there are two splinters, one in the first constituent and another is in the second. Semantically, the relationship between the constituents in imperfect blends is paradigmatic and endocentric as both constituents are hyponyms: countries in examples 1, 2, 3, 4, 5 & 6; languages in 8 with rhyming constituents; news agencies in 7; religions in 24; antonyms in 15; areas of study in 18; ways of transportation in 16, 20, verb+noun in 11; dimensions in 9 and so on. Syntactically, both constituents in 1 to 9, 12 to 20, 22 are the same part of speech (noun or adjective) as the whole blend. In 10, 11 & 21 the constituents consist of verbs and nouns and the whole blend is a noun. In 13, the whole blend is a noun made up of a noun + adjective.

Syntactically, the two constituents are irreversible and the relation between them is syntagmatic and exocentric as the whole blend has a different part of speech from the constituents have 2 parts of speech such as V + N or N + V in 16, 17, & 21; Pro + Adj in 23. The constituents in 14, 16 & 17 are not hyponyms and do not belong to the same semantic categories.

Examples in 1 to 6 are political and are used on social media. The rest are from a variety of fields (military, linguistics, psychology, biology, transportation, physics, history, computer science and journalism and are Standard Arabic blends.

5.9 Technical blends

This category includes examples of some computer, chemistry, biology, literature technical terms and others. In some terms, the initial syllable of the first constituent is merged with the head in the second constituent as in the following:

- ال (space+time); بر+مجانی (برنامج+مجّانی ج برمجانی (برنامج+مجّانی ج برنامج+مجّانی ج برمجانی (space+time); حینبات ج مکزمانی ج برمجانی ج برمجانی ج برمجانی ج دلماً ج حلّاً الله عنه ج مجّانی ج برمجانی ج برمجانی ج دلماً ج حلّاً بابات ج حیوان+نبات ج دیوان+نبات ج دیوان+نبات ج دیوان+نبات ج دیوان+نبات ج دیوان+نبات ج دیوان
- II. In a third set, the second constituent is reduced by deleting the final syllable and merging it with the head in the first constituent as in حمض + غولید < حمض + غولید < حمض + مائیل < حمض + مائیل < مضئئیل (acid + golide) Aldehyde acid); حمض + ماغولید < حمض + ماغولید
- .lll حی+ثومة < حیوان+جرثومة < **حیثومة** (animal+germ, i.e., sporozoan).
- IV. In another set, the second constituent is reduced to the initial syllable which merges with the head in the first constituent as in عشر > عشر +غرام >**قشرغ** (acid+vinegar); حمض+لون > حمض+خلّون > عشر +غرام >عشر +غرام > عشر + لترح**قشرل**) عشر+(10+grams); عشر + مشر > عشر + لترحقشرل) عشر+م > عشر + لترحقشرل) عشر + لترحقشرل (10 meters).
- ۷. أن+ركزية < أنا + مركزية < أنركزية (egocentrism).

Other examples of technical terms are given in Sections 5.2, 5.3. 5.4 and 5.5.

The relationship between the shortened constituent + head that co-occur in each blend is exocentric. They are irreversible and the words used are not interchangeable except for مكان+ زماني < مكان+ زماني < مكان+ (space+time). Semantically, the heads

and splinters in I, II, III, & IV have a paradigmatic relationship as the constituents in each blend belong to the same semantic category and the last 3 examples in IV are units of measurement.

The blends mentioned in this section belong to the biology, chemistry, mathematics, physics, computer science and psychology fields. They are all Standard Arabic blends.

5.10 Blends with overlapping consonants

Overlaps are combined phonemes at segments in a blend that are phonologically or graphically identical. Data analysis has shown that 7% of the blends in the sample have overlapping consonants as in the following examples:

- o In ان+فمي< انفعه الفه فمي النه فمي النه الفه فمي النه النه فمي النه في النه
- o In سودان اناس > (Sudan+nas, i.e., Sudan people), the final consonant /n/ in the first constituent and the initial consonant /n/ in the second constituent are overlapping. The /n/ in Sudan is deleted, and /na:/ remains intact to conform with the phonotactics of Arabic. If the /n/ sound is geminated in pronunciation, the blend will be more comprehensible. But if it is pronounced with a single /n/ it will be less or not comprehensible. In both cases the phoneme /n/ is spelled as a single letter.
- o In قبل pre : قببلوغ <قبل بلوغ <قبل pre-puberty), after deleting the final consonant from the first constituent and retaining the second constituent, the overlapping consonant /b/ is geminated. Gemination of the b is mandatory to make comprehensible. But if the blend is pronounced with a single b, it will be meaningless. The same applies to غِبُّلُوغ post puberty, which is pronounced with a geminated b.
- o In کربیلاء < کَرْب+وبَلاء < کُریب وبَلاء < کُوبلاء (distress+infliction), the first constituents end with consonant b and the second begins with the same consonant, so /b/ in the first constituent is deleted in the blend due to Arabic phonotactics. Here, the overlapping /b/ is not geminated due to the syllable structure of the blend and its constituents.
- o In حماس ائيل > حماس ائيل (HAMAS+rael), there is an overlap of the consonant /s/ in HAMAS and the shortened form rael, which is the splinter. This overlap is a result of retaining the first constituent intact (HAMAS) which ends with an /s/ as the word is one syllable and deleting the initial syllable in اسرائيل, thus both constituents have the overlapping consonant /s/. Here no gemination of the /s/ sound occurs due to the syllable structure of the constituents and whole blend.
- o In ليبرالي ايبرالي was deleted rather than the last consonant as deleting the initial glottal stop in ايراني الاستاني المنافي المنا
- o In مصري+أمريكاني < **مصريكاني < مصريكاني < مصريكاني < مصريكاني < مصريكاني < مصريكاني < مصريكاني < مصريكاني < مصريكاني < مصريكاني < first two syllables in** *America***, thus the initial vowel /iy/ in "icani" is the same in Arabic as the final vowel in the first constituent (مصري) which is /iy/.**
- o امرائيلي > امارات +إسرائيلي > امرائيلي >
- o In ایرا+ئیل ایران + اسرائیل (*Iran+Israel*), after deleting the final consonant in the first constituent (*Iran*) and deleting first 2 syllables in the second constituents (Israel), one of the overlapping long vowel /a:/ is deleted from Israel.

- o In عربي+انجليزي > **عربيزي** (*Arabic+English*), there is an overlap of the /iy/ sound in عربي+زي > Arabic and the shortened form /iyzi/ in انجليزي English. As a result, the full word عربي Arabic and the final syllable in انجليزي English are retained.
- o In مسرحية +رواية < مسرحية +رواية < مسرواية > مسرواية > مسرواية > مسرواية > مسرواية > overlaps with the initial consonant of the second constituent.
- o In قروسطية < القرون+الوسطى (Middle+Ages), the two constituents are graphically blended at their word boundary as the overlapping grapheme و is a glide with 2 pronunciations. The shortened first constituent قرو merges with the full word وسطى in the second constituent.

In the above examples, the cut-off points in the first and/or second constituents in a blend result in an overlap of consonants across the word boundary. This cut-off point, and the deletion of one of the overlapping sounds is determined by the phonotactics of Arabic and the syllable structure after deletion.

Regarding the context in which these blends are used, حماسرائيل Liberal + Iranian, مصريكاني Egyptian + American, مصريكاني Iran + Israel (political); مصريكانيل pre-puberty (psychology); عربيزي pre-puberty (psychology); عربيزي pre-puberty (psychology); عربيزي play + novel (literature, art), most of them are political blends which are mostly used in informal Colloquial context whereas the rest of the blends are used in Standard Arabic.

6. Conclusion

Partial blending in Arabic, as displayed by the examples in the current study, is an emerging word formation process. Political partial blends, in particular, are spontaneously coined by journalists, activists and even common people. They are used in numerous disciplines and contexts, particularly politics. Scientific blends are often created by linguistics and subject-area specialist and are standardized by Arabic language Academies. Some partial blends are very creative as Beirutshima, عبقریشتاین, follow the crowd, الزمكان, freeware and so on.

The influence of English on the formation of Arabic partial blends is very noticeable especially in the case of adding a combining vowel between the splinter and head that starts with a consonant to facilitate pronunciation as in English blends with a combining vowel as in *Islamophobia*, *petrodollar*, *genocide*, *technophile*, *anthropology*, *democracy*, *endocrinology*, *gastrointestinal*, *cardiovascular*, *endoscope*, and others. The transfer of English blend formation to Arabic is a result of lexical borrowing and translation.

Despite the transler of the concept of partial blending from English to Arabic, being a derivational language, Arabic extends the derivational process to some partial blends as زمکان where numerous forms have been derived from it as زَمْکَنَ (transitive past verb); تَرْمُکُنَ (transitive present verb); تَرْمُکُنَ (past participle); تَرْمُکُنَ (intransitive past verb); تَرْمُکُنَ (action noun derived from the intransitive verb); الرَّمْکَنَة (adjective).

Another interesting blending issue is that some partial blends in Arabic have no equivalents and are neither used in English. Examples of these are shown in the results section, where the two constituents are joined with +.

Regarding the issue of recognizability and comprehensibility, the partial blends collected and analyzed in the current study were classified into 10 categories. Blends with final reduction in the first constituent and a full constituent that combines with it as in (المجروة المجروة المحروة المجروة المحروة المجروة الم

Finally, more scientific blends need to be created using prefixes and suffixes from existing particles and adverbs to enrich the Arabic scientific and technical terminology repertoire instead of preferring to use English technical terms by professionals and students majoring in science and technology (Al-Jarf, 2011a). Future studies can be conducted on the recognition and comprehension of Arabic lexical blends, the factors that facilitate the recognition of source words, the interpretation of meanings of Arabic partial blends and the acceptability of unfamiliar blends by student-translators. Innovative full and partial Arabic blends on social media are still open for further investigation by future research.

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