Building a Corpus of Qatari Arabic Expressions

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Abstract

The current Arabic natural language processing resources are mainly built to address the Modern Standard Arabic (MSA), while we witnessed some scattered efforts to build resources for various Arabic dialects such as the Levantine and the Egyptian dialects. We observed a lack of resources for Gulf Arabic and especially the Qatari variety. In this paper, we present the first Qatari idioms and expression corpus of 1000 entries. The corpus was created from on-line and printed sources in addition to transcribed recorded interviews. The corpus covers various Qatari traditional expressions and idioms. To this end, audio recordings were collected from interviews and an online survey questionnaire was conducted to validate our data. This corpus aims to help advance the dialectal Arabic Speech and Natural Language Processing tools and applications for the Qatari dialect.

Keywords: Qatari Dialect, Lexical Resources, Multiword Expressions, Corpus Annotation

1. Introduction

Language and nationalism are strongly connected. In the 1950s, a revival movement called Pan-Arabism or Arabism founded by Jurji Zaydan, encouraged the unification of the Arabs who extend from North Africa, West Asia, and the Atlantic Ocean to the Arabian Sea. Arabism aims to strengthen Arab countries' alliances against outside forces. This had an implication which resulted in adopting the Standard Arabic as the unified official language of the Arabic countries instead of the dialectical Arabic (Rubin, 1991). This led to the production of numerous studies about the Modern Standard Arabic (MSA) in different countries.

On the other hand, there is a lack of studies focusing on the peculiarities of the numerous Arabic dialectal varieties such as the Qatari Gulf dialect.

The Qatari dialect contains many expressions borrowed from other languages such as Turkish, Farsi, Hindi and English. Furthermore, another factor that is believed to have impacted the Qatari dialect is the country’s globalization. This has made from English to be the first used language in different sectors of the country; hence, it may put the local dialect and especially the traditional words at risk of being lost in the short future if there aren’t any preservation attempts yet to face the problem.

Currently, Qatari traditional expressions are available in limited resources, mainly in the oral form such as traditional TV shows, interviews, and some printed books. Several Qatari idioms and expression are no longer used by the new generation and the only way to document such expression is by conducting surveys and interviews with the older generation in Qatar and create a digital historical archive of such expressions. Furthermore, with the rapid development in Qatar, Doha became an international city where the Arabic language became less used when compared to English. In fact, Al-Attiyah (2013) revealed that there is a high probability of vocabulary loss from the Qatari dialect, especially the traditional expressions and idioms. Furthermore, Dialectal Arabic is typically not used on official platforms such as media, education, and others. As mentioned by Bouamor et al. (2018), while the MSA is the commonly used Arabic variety in public and official events, such as culture, media, and education in the middle east. But the MSA is not used by any speaker of Arabic in his or her everyday interactions.

Dialectal Arabic become a hot topic recently and building dialectal linguistic resources are needed to improve the current situation of Dialectal Arabic processing and applications such as dialectal Machine Translation application covering a large number of Arabic dialects given that each region has its own Arabic dialect, such as Egyptian, Gulf, Yemeni, or sub-regionally (e.g., Tunisian, Algerian, Lebanese, Syrian, Jordanian, Kuwaiti, Qatari). Moreover, the Dialectal Arabic (DA) differs from region to region and more precisely from city to city in each region phonologically, lexically, and morphologically.

Given this context and the lack of resources dedicated to the Qatari Arabic, we created a pilot corpus of 1000 Qatari traditional expressions and idioms1 from various sources. The expressions collected are single word or Multiword Expressions (MWEs). The initial version of corpus is made freely available for the research community. The corpus was collected from transcribed natural spoken recordings and written dialect material collected from various online and written sources. In the next sections, we will present the related work and the corpus collection methodology, the survey questionnaire design, and the corpus details.

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1 In this paper, the term expression refer to single words as to Multiword Expressions (MWEs)
2. Related Work

Recent years have witnessed a surge in the availability of corpora and resources for the Arabic Natural Language Processing, the Modern Standard Arabic (MSA) variety has received most of the attention as presented in the surveys of Rosso (2015) and Zaghouani (2014). There are many parallel and monolingual data collected and annotated such as the Arabic Treebank (Maamouri et al., 2010) and the Arabic Propbank as in Palmer et al. (2008), Diab et al. (2008) and Zaghouani et al. (2012). Other corpora focused on building an error annotated corpus or an Arabic diacritized corpus such as in Bouamor et al. (2015) and Zaghouani et al. (2014). Moreover, we observed a growing interest in collecting and processing Arabic user-generated content from social media sources as in the projects discussed in (Rangel et al., 2019a; Rangel et al., 2019b; Atanasova et al., 2018; Barron-Cedeno et al. (2018).

Recently, the dialectal Arabic has attracted a considerable amount of research given the availability of social media data such as the MADAR project Bouamor et al. (2018) and Habash et al. (2018) and the ARAP-Tweet project (Zaghouani et al. 2018). Khalifa et al. (2016) built a large scale Gulf Arabic lexicon covering various Gulf dialects while Laoudi et al. (2018) created a Moroccan Arabic lexicon of words and idioms. On the other hand, Carmen Berinches (2019) focused on building a Syrian Arabic idioms corpus.

Regarding the Gulf dialects, there are multiple studies conducted by Al-Fahad (2013) who published three books about the traditional Kuwaiti expressions and sayings.

Moreover, the Lahajat website lists the dialectal Arabic of various Gulf States and other Arabic regions. Similarly, Al-Badawi created the Alhewar Almotamadin website which includes different Arabic words taken from Persia, India, Turkey, and the West (English) created by Al-Badawi (2013).

Furthermore, there are several studies related to Qatar. For instance, Professor AlMuhannadi’s (2006) study examined traditional Qatari idioms and their equivalent English idioms. Similarly, Al-Malki (2005) wrote a book about Qatari idioms with the purpose of use and meanings.

Also, another Qatari author Al-Malki (2015) published a book about camels and expressions relevant to different types of camels. His other book, published in (2005), investigated the pearl diving industry (tools and manes of pearls) and the related expressions. Moreover, Al-Kuwarri (2014) published an extensive study about marine life in Qatar as well as the GCC region, in general.

Another Qatari contribution comes from AlNaama (2012) who documented the stories, expressions, and events that took place during the Oil discovery era. Recently, Georgetown University in Qatar created the “Qatari phrasebook”; a smartphone application that includes 1,500 traditional Qatari words and phrases and explains the meaning of each in English.

The pilot experiment described in this paper focused only on the Qatari dialects given the lack of dedicated electronic resources for the Qatari dialect.

3. Corpus Description

To build our corpus and given the lack of resources of relied on several scattered online sources listing some Qatari idioms and expressions and also some printed books.

Moreover, we conducted, recorded and transcribed several interviews to enrich our corpus. We used multiple primary and secondary sources to increase the corpus coverage and the credibility of the acquired data (Liaquat, 2016). Finally, to validate and annotate our data into semantic categories, we used a crowdsourcing approach based on volunteers who filled a survey questionnaire to validate our corpus.

3.1 Corpus Collection and Annotation

The created corpus consists of 1000 colloquial Qatari traditional expressions (single and multi-word expressions). The corpus was mainly collected from various sources such as five printed books, online articles, and eight online sources such as the Mojam2, the AlArab newspaper lexicon3, ElBadi message board4, the AlHewar website5 and the Mufradat online lexicon6.

We automatically collected all the entries from the online sources above and a performed a manual cleaning process to remove the duplicates and the non relevant entries. Once, we are done with data cleaning process, we compiled around 600 expressions from those sources and we added 400 expressions from the transcribed recorded interviews.

As explained in Burnard (2004) “data about data” or metadata is essential to be provided for a corpus since it makes the corpus more useful. In our corpus, metadata annotation information has been added to each entry. First of all, the corpus entries were organized by 11 metadata themes or categories as described below:

1) Category or Theme that groups the expressions into different buckets and these words share a common characteristic, such as Kitchenware related items are objects that can be found only at

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2 https://en.mo3jam.com/dialect/Qatari
3 https://bit.ly/3dFhNrw
4 http://elbadi.ahlamontada.net/t72-topic
5 http://www.ahewar.org/debat/show.art.asp?aid=360683&r=0
6 http://www.hostingangle.com/mufrdat/415%D9%85%D8%A7-%D9%85%D8%B9%D9%86%D9%89-%D8%A7%D9%84%D9%82%D9%84%D8%A7%D9%81%D8%9F
the kitchen and probably used for cooking purposes.

2) The Word or the traditional expression in Arabic.

3) The Meaning in Standard Arabic (MSA); the Arabic translation is required as many of the expressions are time bounded and aren’t used currently.

4) The English Translation.

5) The Borrowing status; this column indicates if the traditional expression is borrowed from another language, such as English or western, Persian, Indian, or Turkish.

6) The Part of speech (POS) 7; which determines whether the word is a noun, verb, adjective or a pronoun...

7) Word forms (inflection), this column identifies the other word forms such as the verbs inflected in the various tenses and nouns inflected in the plural.

8) Example of a sentence that contains the traditional expression

9) Pronunciation of the traditional expression.

10) Synonyms; in this column, all the synonyms of the traditional expression are listed.

11) The reference column identifies the source from which the traditional expression is obtained.

The expressions categorized as borrowing were categorized separately into four main categories that represent the countries or regions from which it was borrowed to the Qatari language and these categories are: Indian, Turkish, Persian, and Western. The reason for choosing those four source countries or regions of borrowing specifically is due to the fact that the majority of the Qatari loaned words came from these languages considering the quantity of the loaned words.

The themes that were added to the metadata of the corpus are Kitchenware, House equipment, Gold, Marine life, Adjective, Occasions, Verb, Food, Clothes, Traditional Game, Occupation, Personal items, Plant, Device, Medical, Hairstyle, Transportation, Education, Old currency, Animal, Family, Shop, Building, Oil, and Gas. The full listing of the corpus themes is listed in table 5 of the Appendix 1 following the references. The above metadata will be extremely useful to study the Qatari dialects as in most of the the corpus linguistics studies, linguists usually rely on the corpus metadata to answer important research questions as explained by (Burnard, 2004) “without metadata, the investigator has no way of answering such questions. Without metadata, the investigator has nothing but disconnected words of unknowable provenance or authenticity”.

Indeed, corpus linguistics is an empirical science, and the identification of patterns of linguistic behavior is the goal of the researcher through inspecting, studying, and analyzing the targeted aspect of the language.

3.2 The Recorded Interviews

Braber and Davies (2016) identified the advantages of the recorded interviews by discussing the relationship between the reminiscence, narrative, and identity. It helps us link the personal to the social and historical, setting a speaker’s use of language and dialect within a wider cultural context (Braber & Davies, 2016)

In order to increase the coverage of our corpus, we conducted eight interviews. The targeted population are Qatari citizens with an age range of 40-80 years old, and both genders were considered. We used a snowball sampling approach to recruit our participants, in which one participant is interviewed from the targeted population and based on the interviewee’s suggestion for other applicable participants, the next interviewee is selected for the study (Babbie, 2010).

The recorded interviews are considered a useful research approach as it will provide more information than intended, which can result in more accurate analysis and outcomes (Babbie, 2010). This data was recorded and transcribed from the interviews forms the basis of this experiment. The interviews were given a list of topics and we explicitly asked them not to be limited to the provided topics. This approach made them generate a larger set of Qatari expressions and idioms as they narrated some traditional Qatari stories behind the expressions.

Accordingly, the recorded oral information supported the creation, categorization, and the analysis of the corpus. Additionally, the audio recordings helped in maintaining the proper pronunciation of the traditional expressions. The participants also explained the meaning of these expressions, while others mentioned examples of the borrowed expressions. When we interviewed our speakers and we gave them some technical guidelines to ensure high recording quality and recording best practices such as recording in a quiet environment. We used an external microphone and to maintain a fixed distance from the microphone while speaking. The audio recording was anonymized and stored in an MP3 format.

3.3 The Data Validation Survey Questionnaire

To validate and verify the data collected in our corpus, a survey questionnaire was designed and conducted to verify

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7 We used MADAMIRA Part of Speech tag set (Pasha et al. 2014)
a sample of the collected expressions and assest the understanding on the idioms and expressions collected by the general population. An online survey questionnaire was created using Google forms and distributed to several Qatari participants. The age range of the survey participants ranged from 18 until 40 years old, and both genders answered the survey. Some participants helped in recruiting more participants from their family and friends circle using the snowball sampling methodology that was considered for approaching the targeted subjects. In total, 50 participants answered the survey and helped validate the corpus as illustrated in table 3.

The survey questionnaire included two different sections, in which the first section consisted of 10 different questions about 10 various Qatari traditional expressions. The second section consisted of two questions and these questions were about grouping 26 Qatari traditional expressions into several groups using a crowdsourcing approach to annotate the data. The 36 expressions were mentioned in multiple sources as traditional expressions and currently, most of these words are rarely used in colloquial communication. The survey questionnaire was conducted using the Arabic language as the targeted subjects are Qataris. Furthermore, as Buchanan & Hvizdak (2009) revealed that the survey questionnaire is one of the commonly used research tools in the social sciences researches.

3.4 Corpus Download

The corpus is made freely available for research purposes as per the Creative Commons license using the URL in the footnote.8

3.5 Corpus Illustration

In this section, we illustrate a sample of data collected from the survey questionnaire. In Table 4 of Appendix 1, we listed a sample of the Corpus Entries for the various corpus themes. While, the second section of the survey questionnaire is about loaned expressions, in which the participant has to select the correct origin from which the expression was borrowed.

| Expression | Meaning |
|------------|---------|
| Darbeel | Telescope |
| Teejory | Locker |
| Dakhtar | Doctor |
| Desheha | Window |
| Qertas | Paper |
| Tasah | Container |
| Dayram | Lipstick |
| Daftar | Notebook |
| Bethyan | Eggplant |
| Baranda | Ground floor balcony |

Table 1: The outcomes of the survey questionnaire’s second section

| Arabic sentence | English translation | Percentage of answers |
|-----------------|---------------------|-----------------------|
| آللتي عطاك في جفير | Who gives you in jafeer (a container made of Palm fronds with two handles) gives us in qartalh (a container made of Palm fronds with two handles, which is smaller than the jafeer) | 39.3% chose the right definition. 25% chose I don’t know The rest chose one of the three wrong answers. |
| للي عطاك في جفير يعطينا في قرطله | This boy is jumbazy (fraud) | 83.9% chose the right definition. 1 participant chose I don’t know |
| هلصبي جمبازي | Alzibarah (The high place of the desert land) Fortress is one of the famous historical castles | 35.7% chose the right definition. 30.5% chose I don’t know |
| انْمَزَنْ بِسْبايْلِ بِنْتِهْ | How beautiful is your daughter’s besaiyl (hair) | 87.5% chose the right definition. 3 participants (5.4%) chose I don’t know. |

Table 2: The outcomes of the survey questionnaire’s first section

8https://data.world/saraalmulla/qatari-heritage-expressions
4. Conclusion

We created a corpus of Qatari expressions and idioms and we made it available on the Data World repository. The corpus consists of 1000 Qatari traditional expressions grouped into different themes and every word is linked to a theme and the user can go directly and filter the corpus based on the preferred theme in order to display all the related expressions listed with their detailed information. Also, the themes have hyper links to the glossary of themes’ descriptions.

Soon, we plan to release the audio files and the transcription files as well.

We would like to mention that the small size of the participants in the interviews is due to the fact that several potential participants declined the interviews as they were uncomfortable with this method. This has resulted in having a limited sample; i.e. only 8 participants were involved in the study. Furthermore, the process of audio transcription was time-consuming. We believe that the data collected in this initial pilot experiment is still small and a larger dataset with more interviews would be needed to have a more representative corpus.

This research has several future directions, thus, in the future, more expressions will be added using different methodologies to increase the corpus coverage. Likewise, audio recordings will be released to help address the lack dialectal Arabic speech data.

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| No. of participants | Age   | Ave. Age | Correct answers |
|---------------------|-------|----------|-----------------|
| 6                   | 18-22 | 20       | 16              |
| 9                   | 23-26 | 24.5     | 59              |
| 8                   | 27-30 | 28.5     | 40              |
| 8                   | 31-34 | 32.5     | 42              |
| 1                   | 35-38 | 36.5     | 7               |
| 18                  | 39 and above | 39 | 129              |

Table 3: The survey questionnaire participants Age groups
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| No. | Theme        | Description                                                                                                                                 |
|-----|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Adjective   | This theme includes adjectives that describe a person, object, or situation using traditional expressions, such as annoying (Sindara)           |
| 2.  | Animal      | This theme includes animals’ traditional names, the majority of these names still exist, such as camels’ different names (Mathaya)              |
| 3.  | Body Parts  | This theme includes the human’s body parts’ colloquial Qatari traditional names, such as mouth (Halj)                                      |
| 4.  | Building    | This theme includes expressions that describe Qatar’s old building, construction, infrastructure, or any construction related items, such as street (Rastah). |
| 5.  | Transportation | This theme includes colloquial Qatari expressions that are related to automobiles, boats and the related spare parts and accessories, such as Tire (Tiyer) |
| 6.  | Clothes     | This theme includes the names of the Qatari traditional clothes for both men and women, such as the black Abaya of women.                     |
| 7.  | Device      | This theme includes expressions describing electronic devices that were used in the past, such as telescope (Darbeel)                       |
| 8.  | Education   | This theme includes expressions related to education, school’s building, and stationary in old Qatar, such as notebook (Daftar)              |
| 9.  | Family      | This theme includes expressions that describe different kinships in the Qatari family since the old days, such as mother (Youmah)           |
| 10. | Food        | This theme includes the Qatari traditional food items, that mostly exist until now, such as the crispy crepe bread (Regag)                  |
| 11. | Gold        | This theme includes the different names of various Qatari traditional styles of gold. as different styles of necklaces have different names, such as (Meaznat) which is a choker that is a close-fitting necklace worn around the neck |
| 12. | Hairstyle   | This theme includes the different names of the various old Qatari hairstyles for men and women, such as braid (Achfaa)                      |
| 13. | House equipment | This theme includes any object that can be found at the old Qatari houses, such as furniture (Afish)                                        |
| 14. | Kitchenware | This theme includes the expressions related to the old Qatari kitchen items such as stirring spoon (Millas)                                |
| 15. | Marine life | This theme includes the various expressions related to the sea creatures, sea activities, and tools used in performing the different activities in the sea, such as king fish (Chanad) |
| 16. | Medical     | This theme includes the expressions related to diseases, medical treatments, and medical equipment that used in the past, such as: Hospital (Aspitar) |
| 17. | Nature      | This theme includes the names of natural phenomena, such as storm (Daloob)                                                                      |
| 18. | Noun        | This theme includes expressions that refer to old names of objects, such as: part of something (Hessa)                                         |
| 19. | Occasions   | This theme includes the names of various traditional Qatari occasions, such as: mid Ramadan’s celebration (Garangaoo)                        |
| 20. | Occupation  | This theme includes the names of the various old occupations that mostly doesn’t exist anymore, such as water supplier (AlKendry)           |
| 21. | Oil and Gas | This theme includes the expressions that are related to Oil and Gas tasks and tools such as Rig (Rik)                                          |
| 22. | Old currency | This theme includes the old Qatari currencies, such as Rupees (Rubyah)                                                                            |
Table 4. Description of themes in the corpus of Qatari traditional expressions

| Category       | Word       | English Meaning | Standard Arabic Translation | Word origin | Inflection (forms) | Synonym          | Example (sentence) from reliable source |
|----------------|------------|-----------------|-----------------------------|-------------|--------------------|------------------|----------------------------------------|
| Animals        | متوه       | Matoh           | Parrot                      | -           | -                  | -                | أبي أكثر متوه بوته                        |
|                | بروغ       | yarbou          | Rodent                      | -           | -                  | -                | البريروع يعيش في الصحرا              |
| Household      | الكرفية    | kerfayah        | Bed                         | -           | -                  | -                | وين كرفائي                            |
|                | سبيل      | spare           | Spare                       | باليد/القطعية/المحتفظة | English       | -                | ضاع مفتاحي أبي سبيل                      |
| Kitchen/Food   | علي وليم   | Aliwalam        | Potato                      | بطاطس      | English            | -                | حطى في الاكل علي وليم                      |
| Personal items | كشمة       | Kashma          | Glasses                     | -           | -                  | -                | بشتري كشمة                            |
| Professions    | كهرجي      | Kahrabchi       | Electrician                 | الكهربائي   | -                  | -                | الكهربائي قاعد يصلح                     |
| Appearance     | بسايل      | Besayl          | Hair                        | شعر         | -                  | -                | حلات البنات بسايلها                      |
| Adjective      | سندارة    | Sindara         | annoying                    | -           | -                  | -                | ولد سندري                            |

Table 5. A Sample of the Corpus Entries of various themes