

Shu‘bah ‘an ‘Āṣim – Lexical Parsing: Seven Aḥruf Mapping to Seven Language Aspects

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Abstract

This study sheds light on the lesser-known fact that the Qur’ān was revealed in seven aḥruf (letters), with the wisdom to accommodate the diverse dialects of the contemporary Arab tribes. The detailed preservation of these recitations through a chain of reciters traced back to the Prophet Muḥammad (peace be on him) emphasizes their enduring importance. In this research work, we categorize the words with differences into the Seven Arabic Language Aspects framework for the riwāyah (narration) of Shu‘bah ‘an ‘Āṣim. During the process of corpus development, we focus on preserving the ‘Uthmānī Muṣḥaf syntax during Arabic text modifications, utilizing calculated token count and root word count fields to address subsequent occurrences of each word in the Qur’ān systematically. This research also introduces a distinct approach by categorizing variations according to Seven Arabic Language Aspects rather than the conventional method found in qirā’āt literature, which typically focuses on emphasizing differences in ḥarakāt (vowel sounds) and letters when contrasting with the riwāyah of Ḥaḥṣ. This provides a deeper understanding of the reasons behind such changes, including shifts in meaning or morphological forms. Additionally, this methodology enables the quantification of specific words, facilitating targeted practice by identifying verses where particular linguistic features appear most frequently.

Keywords

Shu‘bah ‘an ‘Āṣim, ten qirā’āt, seven aḥruf, lexical parsing, tokens.

1. Introduction

The Qur’ān was revealed in classical Arabic about fourteen centuries ago. Its ancient language may be traced back to 1600 years and is classified as an ancestor of the Modern Standard Arabic.¹ It is not widely known that the Qur’ān was revealed in seven aḥruf (letters) as an ease for the contemporary Arab tribes and to cover their various

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¹ Kais Duke, *Statistical Parsing by Machine Learning from a Classical Arabic Treebank* (Leeds: University of Leeds, 2013), 2.

dialects. This is reported in the famous incident between ‘Umar b. al-Khaṭṭāb and Hishām b. Ḥakīm, where the Prophet (peace be on him) said, “Indeed, the Qur’ān was sent down in seven *aḥruf*. So, recite what seems easy therefrom.”² Al-Makkī b. Abī Ṭālib says,

The narrators of the imams of the *qirā’āt* in the second and third eras were many in number, many in difference, so people in the fourth era wanted to limit the *qirā’āt* that corresponded to the Qur’ān to what is easy to memorize, so they looked at famous imams who had trust and honesty in transmission, good religion, and perfection of knowledge. The imam’s command on the *qirā’ah* was to be well-known and the people of his region should have agreed on his justice in the transmission, the knowledge of what he recited, and that his *qirā’ah* did not depart from the handwriting of the Qur’ān attributed to them. Consequently, they singled out an imam with such characteristics in every region where ‘Uthmān had sent out a *muṣḥaf* and a *qāri’*. Ultimately, their faithfulness and long period in the field of *qirā’āt* were well established, and people travelled to them from various countries to seek this knowledge.³

Thus, these various *qirā’āt* (recitations) got organized into the ten *qirā’āt*, a subject of Qur’ānic sciences, which enlightens another miraculous nature of the Qur’ān, proving that even the various recitations are preserved with the chain of reciters connected back to the Prophet Muḥammad.

Abū Bakr Shu‘bah b. ‘Ayyāsh b. Sālim al-Kūfī was born in 95 AH. He was a wheat seller by profession. He read the Qur’ān to ‘Āṣim more than once and was one of the imams of Ahl al-Sunnah. Among his students was Abū ‘l-Ḥasan al-Kisā’ī. Shu‘bah died in 193 AH.⁴ He is reported to have completed the recitation of the Qur’ān about eighteen thousand times.⁵

The *riwāyah* of Shu‘bah has one main teacher (‘Āṣim al-Kūfī), two *rāwīs* (Shu‘bah and Ḥafṣ), and a *ṭarīq* (Yaḥyā b. Ādam). On the other hand, the *riwāyah* of Ḥafṣ has one main teacher (‘Āṣim al-Kūfī), two *rāwīs* (Ḥafṣ and Shu‘bah), and a *ṭarīq* (‘Ubayd b. al-Ṣabbāḥ). Shu‘bah is the first *rāwī* of ‘Āṣim al-Kūfī, the fifth in the sequence of the ten *qirā’āt*. He has priority over Ḥafṣ, though the *riwāyah* of Ḥafṣ is the most read one in the Muslim world. Thus, in the case of *jam’* (combination) of the two *riwāyāt* together, it is prescribed to read the

² Muḥammad b. Ismā‘īl al-Bukhārī, *Ṣaḥīḥ*, kitāb faḍā’il al-Qur’ān, bāb man lam yara ba’san an yaqūl sūrat al-Baqarah wa sūrat kadhā wa kadhā, ḥadīth no. 5041, <https://sunnah.com/bukhari/66/65>.

³ Amānī bint Muḥammad ‘Āshūr, *al-Uṣūl al-Nayyirāt fī ‘l-Qirā’āt* (Riyadh: Madār al-Waṭan, 2016), 47.

⁴ Ibid., 259.

⁵ Tawfīq Ibrahīm Ḍamrah, *Aḥsan al-Ṣuḥbah fī Riwāyat Shu‘bah* (Amman: Al-Maktabah al-Waṭaniyyah, 2007), 16.

riwāyah of Shu'bah first and then that of Ḥafṣ wherever one encounters differences. For instance, in the third verse of sūrat al-Qārī'ah “أَذْرَبْكَ” would be read with an *imālah* of *rā'* and *alif* as “أَذْرَبْكَ” first for the *riwāyah* of Shu'bah and then the verse would be repeated without the *imālah* for the *riwāyah* of Ḥafṣ.⁶

The scholars differed about what is meant by *sab'at aḥruh* (seven letters) referred to in the above-mentioned Prophetic tradition, with some scholars citing up to forty different interpretations. However, most of these opinions are overlapping or have severe weaknesses. So, we will suffice here to refer to some of these opinions, with a focus on the opinion that was favoured by many scholars of the *qirā'āt* science as mentioned by Sha'bān b. Muḥammad Ismā'īl.⁷

One of the opinions is that the term *sab'at aḥruh* refers to the seven dialects (*lughāt*) of the Arabs. Scholars have differed in determining these seven dialects. It is said that they are the dialects of the following seven Arab tribes: Quraysh, Hudhayl, Thaqīf, Hawāzin, Kinānah, Tamīm, and Yemen. Another categorization provides the following names: Quraysh, Hudhayl, Hawāzin, Tamīm, al-Azd, Rabī'ah, and Sa'd b. Bakr; with four names common with the first categorization.

Another opinion explains the term *sab'at aḥruf* as seven speech acts, which play a crucial role in understanding the pragmatics of the language. These are as follows: *amr* (command); *nahy* (prohibition); *wa'd* (promise); *wa'id* (threat); *jadāl* (argument); *qīṣaṣ* (stories); and *mathal* (example). Some scholars presented another categorization, with three common categories from the earlier list, as follows: *amr* (command); *nahy* (prohibition); *ḥalāl* (permissible); *ḥarām* (forbidden); *muḥkam* (precise); *mutashābih* (unspecific); and *amthāl* (examples).

According to another opinion, the number mentioned in the Prophetic tradition is not literally meant. Instead, it symbolizes what the Arabs would use to indicate abundance just as the word seventy is used for tens and seven hundred for hundreds without intending a specific number. Similarly, *sab'at aḥruf* should be considered several *aḥruf*.

A common perception is that the term *sab'at aḥruf* refers to the seven *qirā'āt*. However, this perception is wrong as the *qirā'āt* are much more than seven.

Another opinion is of Abū Shāmāh al-Maqdisī who categorized it into the following seven *awjuh* (different ways) or fundamental rules: *mīm al-jam'* (*mīm* indicating plurality); *hā' al-ḍamīr* (pronominal *hā'*);

⁶ Ḥāzim Ḥamādah al-Bardūnī, *Muṣḥaf al-Taysīr bi Qirā'at 'Āṣim bin Abī 'l-Najūd* (n.p.: Maṣāḥif al-Taysīr, 2019), 600.

⁷ Sha'bān b. Muḥammad Ismā'īl, *al-Madkhal ilā 'ilm al-Qirā'āt* (Mecca: Dār Ṭaybah al-Khaḍrā', 2016), 17.

idghām; *izhār*; *madd*, and *qaṣr* (*tawassuṭ* could also be additionally considered here); *imālah* and *fath* (*taqlīl* could also be additionally considered here); and *tafkhīm* and *tarqīq* (*taghlīz* could also be additionally considered here). However, with our appreciation for his venerable work, this lacks the concept of the second important factor of *qirā'āt*, which the scholars name *farsh*. These are specific word differences apart from the *uṣūl* (fundamental rules) of a particular *riwāyah*.

A more appropriate and convincing opinion favoured by Sha'bān b. Muḥammad is that the term *sab'at aḥruf* refers to the Seven Arabic Language Aspects in which the differences occur. Considering that the Qur'ān was revealed in the language of the Arabs, it must be a collection of the Arabic styles, individually and in combination. This is the opinion preferred by the scholars of *qirā'āt* like Abū 'l-Faḍl al-Rāzī and Ibn Qutaybah. These seven aspects are as follows:

1. Noun forms: The difference due to nouns variations between singular, dual, plural, masculine, or feminine forms, such as the word “لَأْمَانَتِهِمْ” (their trusts) is recited in the plural form as well as singular form (لَأْمَانَتِهِ) in verse 22:8 and both are valid recitations.
2. *I'rāb*: The difference in *i'rāb*, which provides information about the syntactic function of words in a sentence. It helps in identifying the subject, object, and other grammatical relationships within the sentence, such as in verse 2:37, the word (مَدِّ) is in the nominative state, and the word (كَلِمَاتٍ) in the accusative state in all *qirā'āt* except that of Ibn Kathīr al-Makkī, in which the word (مَدِّ) is in the accusative state, and the word (كَلِمَاتٍ) is in the nominative state, thereby shuffling the subject and object.
3. *Taṣrīf*: The difference in *taṣrīf* (the morphology) of the verbs encompasses the rules and patterns that dictate how Arabic verbs change forms according to different grammatical contexts, such as in verse 2:125, the word (اتَّخِذُوا) with a *kasrah* under *khā'* is an imperative verb (*amr*) meaning “take (you all).” However, when it is read with a *fathah* on *khā'* (اتَّخَذُوا), it is converted to a past verb (*māḍī*) meaning “they took.” In such morphological changes, most of the time, the meaning also changes.
4. *Taqdīm/ Ta'khīr*: The difference in *taqdīm* (the advancing) and *ta'khīr* (the delaying) where the order of two words is interchanged, such as in verse 9:111, the word (فَيُقْتُلُونَ) has *fā'*, which is the prefixed resumption particle, then third person masculine plural past verb. The second word (وَيُقْتَلُونَ) starts with the prefixed conjunction *wa* (and), followed by third person masculine plural *passive* imperfect verb. It is read in the reverse order in the *qirā'ah* of Ḥamzah and al-Kisā'ī.

5. *Ibdāl*: The difference by *ibdāl* (substitution) could be with a replacement of a letter with another one or a complete word with another one, such as in verse 26:217, the word (وَتَوَكَّلْ) is read with a replacement of *wa* with *fā'* (فَتَوَكَّلْ).
6. *Ziyādah/Nuqṣān*: The difference in either *ziyādah* (addition) or *nuqṣān* (removal) could also be in terms of adding or removing a complete word or particular letters, respectively, such as in verse 9:100, the majority read it without the preposition (مِنْ), whereas Ibn Kathīr al-Makkī read it with *min* (مِنْ). This is the example of the addition of a complete word, whereas an example of a letter is verse 3:133, in which the word (وَسَارِعُوا) is read by Nāfi', Ibn 'Āmir, and Abū Ja'far with the dropping of the letter *wāw* (و) as (سَارِعُوا).
7. *Lahjāt*: The difference of *lahjāt* (dialects) mainly includes everything that is known to the scholars of *qirā'āt* as *uṣūl* (fundamentals) and is frequently repeated in the Qur'ān. This covers most of the *qurrā*'s differences and would usually not affect the meaning. A person needs to be well versed in the subject of *tajwīd* and *qirā'āt* to have a grip on these concepts, which are grouped below as per their relevance:
 - *Izhār, idghām, ikhfā'*
 - *Qaṣr, tawassuṭ, madd*
 - *Ikhtilās, rawm, ishmām, iskān*
 - *Fath, taqlīl, imālah*
 - *tafkhīm, tarqīq, taghlīz*
 - *taḥqīq, tashīl*
 - *sakt*

Sha'bān b. Muḥammad concludes this opinion with reference to the book *al-Aḥruf al-Sab'ah li 'l-Qur'ān* by Abū 'Amr al-Dānī that the Prophet used to recite all of these, except that the Companions took these differently from him. Some of them took a *ḥarf*, whereas some took more. Later they dispersed to various regions, and their followers took it from them. Consequently, the transmitters of the *qirā'ah* differed.⁸

The opinion that *sab'at aḥruf* means Seven Arabic Language Aspects is the most convincing one and carries weight. In this research work, we will take this view and categorize the differences in the words of the *qirā'āt* based on them. If all the words get categorized in one of the above-mentioned seven categories, we may conclude this to be the most favoured opinion with evidence. This is summarized in Figure 1 and would be taken as a guide for the categorization and codification of words in this research work.

⁸ Ibn Muḥammad Ismā'īl, *al-Madkhal ilā 'Ilm al-Qirā'āt*, 18-22.

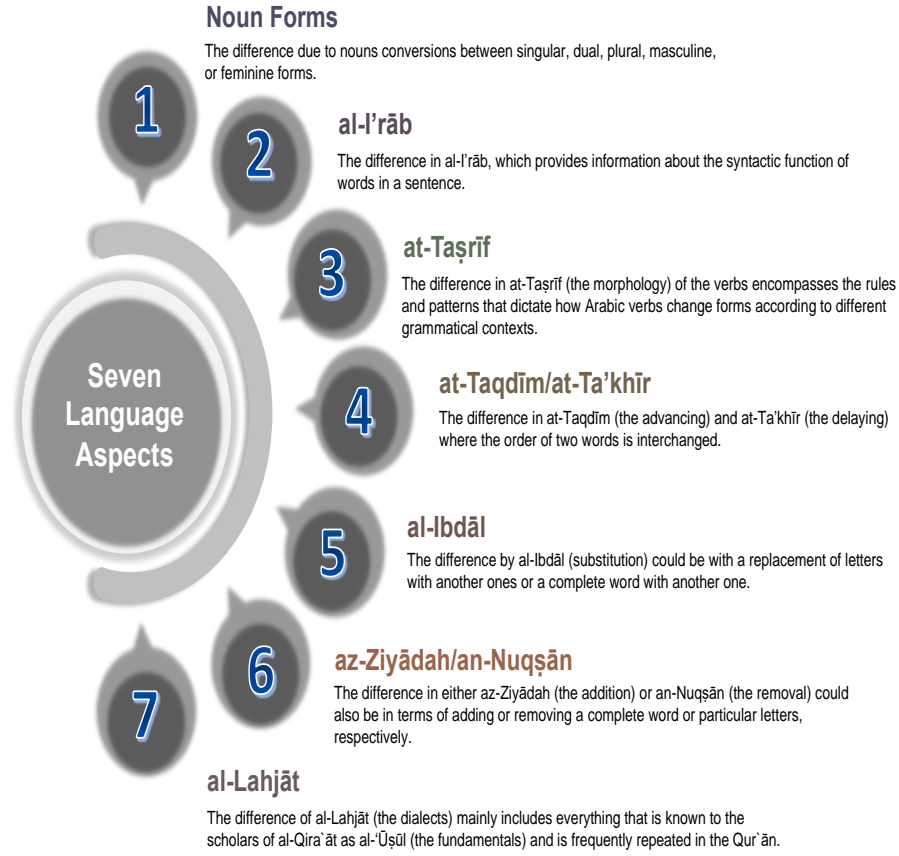


Figure 1, Seven Language Aspects⁹

2. Research Methodology

The development of the corpus for these ten *qirā'āt* would require a systematic approach. We will use the work that is available for the *riwāyah* of Ḥafṣ 'an 'Āṣim by Kais Dukes,¹⁰ which he presented in his PhD dissertation at Leeds University. This is a classical work used by dozens of researchers in various machine-learning models. Furthermore, considering the ten *qirā'āt* is what will be a true enhancement and may benefit future generations. Thus, we required enrichments in this work, starting from the Buckwalter Transliteration symbol additions, JQuran API enhancements, and various other aspects, focusing on *riwāyah* of Shu'bah 'an 'Āṣim. Consequently, the enhancement to the Buckwalter Transliteration would be able to address such issues and would be of great benefit to researchers exploring the Qur'ānic text for various Natural Language

⁹ Adapted from *ibid*.

¹⁰ Duke, "The Quranic Arabic Corpus," 2021, <https://corpus.quran.com>.

Processing projects. The code has been uploaded to GitHub¹¹ for anyone to benefit from this.

2.1 Categorization of the Differences

As mentioned in the earlier section, the sixth opinion (seven language aspects) is an area that could be further explored in this research work. Thus, in Table 1, we introduce a difference flag that would identify a verse/word having no change or a change categorized among the seven main groups of this opinion.

Table 1, Tokens Differences Type Flags

Difference Flag	Category
0	No Change
1	Noun Forms
2	<i>I'rāb</i>
3	<i>Taṣrīf</i>
4	<i>Taqdīm/Ta'khīr</i>
5	<i>Ibdāl</i>
6	<i>Ziyādah/Nuqṣān</i>
7	<i>Lahjāt</i>

2.2 Change in Meaning

During categorizing the differences, it would be of utmost importance to analyse the words for any changes in their meanings. For this, we will keep recording such words by turning the flag to 1 wherever they appear. The flag values to be used for this purpose are mentioned in Table 2.

Table 2, Meaning Type Flags

Meaning Flag	Category
0	No Change
1	Changed

2.3 Dependency on the Word's State:

A difference could depend on joining (*waṣl*) a word with the next one or stopping (*waqf*) on it. Thus, we would require to create a continuation flag to highlight this. The flag values to be used for this purpose are mentioned in Table 3.

Table 3, Continuity Type Flags

Continuation Flag	Category
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¹¹ Haroon Rashid Lone, "TheTenCorpora," August 2, 2023, <https://github.com/haroonlone/theTenCorpora>.

0	During both cases (<i>waṣl</i> + <i>waqf</i>)
1	During <i>waṣl</i> (combining) only
2	During <i>waqf</i> (stopping) only

2.4 Corpus Development

The corpus development involved several steps, and it would be beneficial to present this procedure in subsequent sections to help readers understand this research work.

2.4.1 Fields Identification

As an initial step, the skeleton of the corpus is prepared by having the below fifteen fields. A special calculation was made, using a Python program for calculating fields 11 and 12, which counts the respective occurrences of the Token and Root Word, respectively.

1. Chapter: Sūrah number with the range of 1-114
2. Verse: Āyah number of the sūrah with 0 assigned for *Basmalah* apart from Sūrat al-Fatiḥah
3. Token: Word number as per the sequence in the āyah (verse) considering a space or end of the verse as a closing point of it
4. Token Ḥafṣ: Qur'ānic Arabic word of the mentioned location in the *riwāyah* of Ḥafṣ 'an 'Āṣim
5. Buckwalter Ḥafṣ: Buckwalter Transliteration of the Qur'ānic Arabic word in the *riwāyah* of Ḥafṣ 'an 'Āṣim
6. Diff Flag: Difference Flag set as per the categorization mentioned in Table 1 with a default value of 0 wherever there is no change as compared to the *riwāyah* of Ḥafṣ 'an 'Āṣim
7. Meaning Flag: The default value is 0 for no change, and in case of a change in meaning, it is set to 1, as specified in Table 2.
8. Continuation Flag: The default value is 0 for the difference function in both *waṣl* (joining) and *waqf* (stopping) cases. In the case of *waṣl*, only the value would be 1; in the case of *waqf*, only the value would be 2.
9. Token Shu'bah: Qur'ānic Arabic word of the mentioned location in the *riwāyah* of Shu'bah 'an 'Āṣim
10. Buckwalter Shu'bah: Buckwalter Transliteration of the Qur'ānic Arabic word in the *riwāyah* of Shu'bah 'an 'Āṣim
11. Token Count: The word occurrence counts in the Qur'ān with the same diacritics
12. Root Word Count: The root word count covers all *taṣrīf* forms in the Qur'ān.
13. English Ḥafṣ: English Translation of the word for the *riwāyah* of Ḥafṣ 'an 'Āṣim.
14. English Shu'bah: English Translation of the word for the *riwāyah* of Shu'bah 'an 'Āṣim.

15. Root Word: The root word from which the word is constructed.

2.4.2 Flags Marking

For the identification of words where there are differences in the *riwāyah* of Shu'bah 'an 'Āṣim below sources were used mainly from Sūrat al-Fatiḥah till Sūrat al-Nās:

1. *Al-Riyāsh fī Riwāyat al-Imām Shu'bah bin 'Ayyāsh* by Muḥammad Nabḥān b. Ḥusayn Miṣrī¹²
2. *Aḥsan al-Ṣuḥbah fī Riwāyat Shu'bah* by Tawfīq Ibrahīm Ḍamrah¹³
3. *Taysīr al-Ghaḥūr al-Wadūd fī Tawjīh Qirā'at al-Imām 'Āṣim bin Abī 'l-Najūd* by Sayyid Lāshīn Abū 'l-Faraj¹⁴
4. *Bridge's Translation of the Ten Qira'at of the Noble Qur'an* by Fadel Soliman¹⁵

Further verifications were carried out from the following *masāḥif*:

1. *Al-Qur'ān al-Karīm bi Riwāyat Ḥafṣ 'an 'Āṣim wa bi 'l-Hāmish Riwāyat Shu'bah* by Tawfīq Ibrahīm Ḍamrah¹⁶
2. *Muṣḥaf al-Taysīr bi Qirā'at 'Āṣim bin Abī 'l-Najūd* by Ḥāzim Ḥamādah al-Bardūnī¹⁷

Once the word was identified to be different, its Difference Flag was set as per its kind, which was taken from the sixth opinion of the meaning of the *sab'at aḥruh* section. Furthermore, the word was to be analysed for any meaning changes. The Meaning Flag was set to 1 if there was a meaning change.

2.4.3 Group-based Modification Algorithm

To avoid rework of similar words, a group-based modification algorithm was developed for the words that differed in the *riwāyah* of Shu'bah 'an 'Āṣim. Firstly, the modified Arabic text was ensured to stay in the *'Uthmānī Muṣḥaf* syntax. Using the calculated Token Count and Root Word Count fields, at the first occurrence of the word, all reoccurrences of that word in the Qur'ān were considered for the required change in Arabic, Buckwalter Transliteration, as well as English meaning.

For each word in the Qur'ān, repeat the following steps:

¹² Muḥammad Nabḥān b. Ḥusayn Miṣrī, *al-Riyāsh fī Riwāyat al-Imām Shu'bah bin 'Ayyāsh* (Mecca: n.p., 2014).

¹³ See n. 6.

¹⁴ Sayyid Lāshīn Abū 'l-Faraj, *Taysīr al-Ghaḥūr al-Wadūd fī Tawjīh Qirā'at al-Imām 'Āṣim bin Abī 'l-Najūd* (Medina: Dār al-Zamān, 2008).

¹⁵ Fadel Soliman, *Bridge's Translation of the Ten Qira'at of the Noble Qur'an* (Bloomington: AuthorHouse, 2020).

¹⁶ Tawfīq Ibrahīm Ḍamrah, *al-Qur'ān al-Karīm bi Riwāyat Ḥafṣ 'an 'Āṣim wa bi 'l-Hāmish Riwāyat Shu'bah* (Amman: Dār al-Fikr, 2008).

¹⁷ See n. 7.

Step 1 - In case of difference, mark the Difference Flag as per the type (1-7); If the Difference Flag is not equal to 0 (i.e., 1-7), modify the Arabic following the 'Uthmānī Muṣḥaf syntax and use the Ten Corpora Application to modify the Buckwalter Transliteration.

Step 2 - In case of meaning difference, mark the Meaning Flag as 1 if the Meaning Flag is not equal to 0 (i.e., 1) and modify the English meaning.

Step 3 - Mark Continuation Flag in case of difference occurring only during *waṣl* or *waqf* if the Token Count is greater than 1 and the Difference Flag is 5 (*ibdāl*), 6 (*ziyādah/nuqṣān*), or 7 (*lahjāt*), perform Step 1 for all occurrences and perform Step 2 for all occurrences. If the Root Word Count is greater than 1 and the Difference Flag is 5 (*ibdāl*), 6 (*ziyādah/nuqṣān*), or 7 (*lahjāt*), perform Step 1 for all occurrences and perform Step 2 for all occurrences.

Though this approach has immensely reduced reworking on the same words, however, this methodology also required supervised modifications to consider the exceptions. In summary, once the difference is marked, the supervised modification follows the following essential parts:

1. 'Uthmānī Muṣḥaf Syntax: The Arabic syntax after the modification needs to maintain 'Uthmānī Muṣḥaf syntax.
2. Buckwalter Transliteration: For each modified word, the transliteration would also be generated using the tool that would be developed for this.
3. Difference Type: Following the preferred opinion mentioned in Section 1 that differences in *sab'at aḥruf* are inclusive of the Arabic styles, both individually and in the syntax, the difference would be marked from 1-7, with 0 presenting as no difference.
4. Meaning Difference: Each marked word with a difference needs to be analysed for a meaning change, with 1 depicting a difference and 0 as no difference.
5. Continuation Type: The value would inform whether the difference occurs during *waṣl* (joining), *waqf* (stopping), or both.

2.4.4 Sūrah Samples

After applying the above-mentioned methodology to all word differences in the *riwāyah* of Shu'bah 'an 'Āṣim on the complete Qur'ān the result file was prepared. Due to space limitations, only the first two chapters (Sūrat al-Baqarah and Sūrat Āl-Imrān) have been mentioned below for reference. It is interesting to note that both the Sūrahs have 30 differences in the *riwāyah* of Shu'bah 'an 'Āṣim. Consequently, they are observed to be paired up regarding the count of differences for this *riwāyah* too.

In Sūrat al-Baqarah, out of the 30 words with differences, only five words result in meaning changes. Out of these, four of them are due to *al-taṣrīf*, and one is due to *ziyādah/nuqṣān* changes. On the other side, Sūrat Āl-'Imrān got nine words with meaning differences, and all of them are due to *taṣrīf* changes. These differences in the meaning are marked by the “Meaning Flag” and have been highlighted with red in Table 4 and Table 5.

On analysing the verses which got the meaning changes, it was confirmed that none of these resulted in any contradiction in the meanings. Rather, it creates another dimension for one to ponder over the verse.

Table 4, Shu'bah 'an 'Āṣim Copora – Sūrat al-Baqarah¹⁸

Token ID	Token Ḥaṣṣ	Buckwalter Ḥaṣṣ	Diff Flag	Meaning Flag	Token Shu'bah	Buckwalter Shu'bah
2-51-7	أَتَّخَذْتُمْ	{t~axa*otumu	7	0	أَتَّخَذْتُمْ	{t~axa*t~umu
2-67-13	هَزُّوْا	huzuwFA	5	0	هَزُّوْا	huzu&FA
2-80-9	أَتَّخَذْتُمْ	>at~axa*otumo	7	0	أَتَّخَذْتُمْ	>at~axa*t~umo
2-85-49	تَعْمَلُونَ	taEomaluwna	3	1	تَعْمَلُونَ	yaEomaluwna
2-92-6	أَتَّخَذْتُمْ	{t~axa*otumu	7	0	أَتَّخَذْتُمْ	{t~axa*t~umu
2-97-5	جَبْرِيلَ	l~ijiboriyla	5	0	جَبْرِيلَ	l~ijabora}ila
2-98-7	وَجَبْرِيلَ	wajiboriyla	5	0	وَجَبْرِيلَ	wajabora}ila
2-98-8	وَمِيكَائِيلَ	wamiykaY`la	6	0	وَمِيكَائِيلَ	wamiyka_`^}iyla
2-124-18	عَهْدِي	EahodiY	2	0	عَهْدِي	EahodiYa
2-125-18	بَيْتِي	bayotiYa	2	0	بَيْتِي	bayotiY
2-140-2	تَقُولُونَ	taquwluwna	3	1	تَقُولُونَ	yaquwluwna
2-143-44	لَرَّوْفٌ	lara'uwfN	6	0	لَرَّوْفٌ	lara&ufN
2-168-11	خُطُوتٍ	xuTuwa`ti	7	0	خُطُوتٍ	xuTowa`ti
2-177-2	الْبِرِّ	{lobir~a	2	0	الْبِرِّ	{lobir~u
2-182-4	مُوصٍ	m~uwSK	3	0	مُوصٍ	m~uwaS~K
2-185-36	وَلْيَتَكَلَّمُوا	walitukomiluwA@	3	0	وَلْيَتَكَلَّمُوا	walitukam~iluwA@
2-189-13	الْبَيُوتِ	{lobiyuwta	7	0	الْبَيُوتِ	{lobiyuwta
2-189-21	الْبَيُوتِ	{lobiyuwta	7	0	الْبَيُوتِ	{lobiyuwta
2-207-10	رَّءُوفٌ	ra'uwfN[6	0	رَّءُوفٌ	ra&ufN[
2-208-10	خُطُوتٍ	xuTuwa`ti	7	0	خُطُوتٍ	xuTowa`ti
2-222-14	يَطْهَرْنَ	yaTohurona	3	1	يَطْهَرْنَ	yaT~ah~arona
2-231-25	هَزُّوْا	huzuwFA	5	0	هَزُّوْا	huzu&FA
2-236-17	قَدَرُهُ	qadaruhu,	7	0	قَدَرُهُ	qadoruhu,
2-236-20	قَدَرُهُ	qadaruhu,	7	0	قَدَرُهُ	qadoruhu,

¹⁸ Based on Miṣrī, *al-Riyāsh fī Riwayāt al-Imām Shu'bah bin 'Ayyāsh* and Ḍamrah, *Aḥsan al-Ṣuḥbah fī Riwayāt Shu'bah*.

2-240-6	وَصِيَّةٌ	waSiy~apF	2	0	وَصِيَّةٌ	waSiy~apN
2-245-14	وَيَبْصُطُ	wayaboS:uTu	5	0	وَيَبْصُطُ	wayaboSuTu
2-260-30	جُزْءًا	juzo'FA	7	0	جُزْءًا	juzo'FA
2-271-4	فَنِعَمًا	faniEim~aA	7	0	فَنِعَمًا	faniEom~aA
2-271-13	وَيُكْفِرُ	wayukaf~iru	3	1	وَيُكْفِرُ	wanukaf~iru
2-279-4	فَأَذْنُوتُ	fa>o*anuWA@	6	1	فَأَذْنُوتُ	fa}aA*inuWA@

Table 5, Shu‘bah ‘an ‘Āšim Copora – Sūrat Āl-‘Imrān¹⁹

Token ID	Token Ḥaṣṣ	Buckwalter Ḥaṣṣ	Diff Flag	Meaning Flag	Token Shu‘bah	Buckwalter Shu‘bah
3-15-19	وَرَضُونَ	wariDowa`nN	7	0	وَرَضُونَ	waruDowa`nN
3-20-5	وَجْهِي	wajohiYa	2	0	وَجْهِي	wajohiY
3-27-12	الْمَيِّتِ	{lomay~iti	7	0	الْمَيِّتِ	{lomayoti
3-27-14	الْمَيِّتِ	{lomay~ita	7	0	الْمَيِّتِ	{lomayota
3-30-25	رَأَوْفٌ	ra'uwfN[6	0	رَأَوْفٌ	ra&ufN[
3-36-11	وَضَعْتُ	waDaEato	3	1	وَضَعْتُ	waDaEotu
3-37-9	زَكَرِيَّا	zakariy~aA	6	0	زَكَرِيَّا	zakariy~aA^a
3-37-13	زَكَرِيَّا	zakariy~aA	6	0	زَكَرِيَّا	zakariy~aA^u
3-38-3	زَكَرِيَّا	zakariy~aA	6	0	زَكَرِيَّا	zakariy~aA^u
3-49-37	بُيُوتِكُمْ	buyuwtikumo	7	0	بُيُوتِكُمْ	biyuwtikumo
3-57-6	فَيُؤَيِّسُهُمْ	fayuwaf~iyhimo	3	1	فَيُؤَيِّسُهُمْ	fanuwaf~iyhimo
3-75-8	يُؤَدِّهِ	yu&ad~ihi.^	7	0	يُؤَدِّهِ	yu&ad~iho
3-75-16	يُؤَدِّهِ	yu&ad~ihi.^	7	0	يُؤَدِّهِ	yu&ad~iho
3-81-22	وَأَخَذْتُمْ	wa>axa*otumo	7	0	وَأَخَذْتُمْ	wa>axa*ot~umo
3-83-4	يَبْعُونَ	yaboguwna	3	1	يَبْعُونَ	taboguwna
3-83-14	يُرْجِعُونَ	yurojaEuwna	3	1	يُرْجِعُونَ	turojaEuwna
3-97-13	حَجُّ	Hij~u	7	0	حَجُّ	Haj~u
3-115-2	يَفْعَلُوا	yafoEaluWA@	3	1	يَفْعَلُوا	tafoEaluWA@
3-115-6	يُكْفِرُوهُ	yukofaruwhu	3	1	يُكْفِرُوهُ	tukofaruwhu
3-140-3	قُرْخٌ	qaroHN	7	0	قُرْخٌ	quroHN
3-140-7	قُرْخٌ	qaroHN	7	0	قُرْخٌ	quroHN
3-145-15	نُؤْتِيهِ	nu&otihi.	7	0	نُؤْتِيهِ	nu&otiho
3-145-21	نُؤْتِيهِ	nu&otihi.	7	0	نُؤْتِيهِ	nu&otiho
3-154-55	بُيُوتِكُمْ	buyuwtikumo	7	0	بُيُوتِكُمْ	biyuwtikumo
3-157-14	يَجْمَعُونَ	yajomaEuwna	3	1	يَجْمَعُونَ	tajomaEuwna

¹⁹ Based on Miṣrī, *al-Riyāsh fī Riwayāt al-Imām Shu‘bah bin ‘Ayyāsh* and Ḍamrah, *Aḥsan al-Ṣuḥbah fī Riwayāt Shu‘bah*.

3-162-3	رَضُونُ	riDowa`na	7	0	رَضُونُ	ruDowa`na
3-172-9	الْفَرْحُ	{loqaroHu	7	0	الْفَرْحُ	{loquroHu
3-174-10	رَضُونُ	riDowa`na	7	0	رَضُونُ	ruDowa`na
3-187-8	لَتَبَيِّنَنَّ	latubay~inun~ahu,	3	1	لَيُبَيِّنَنَّ	layubay~inun~ahu,
3-187-11	تَكْتُمُونَهُ	takotumuwnahu,	3	1	يَكْتُمُونَهُ	yakotumuwnahu,

3. Analysis

We have 114 chapters in the Qur'ān with 6,236 verses and 77,426 words, as shown in Figure 2. There are 85 chapters where Shu'bah differs with Ḥafṣ, constituting 75% of the overall chapters of the Qur'ān. There are 552 verses spread across these 85 chapters, with some of the verses having multiple words with differences. In total, we have 642 words where the difference occurs.

These different words, once categorized into the seven categories, are the most occurring in *lahjāt* (39%). Following it are the words that differ due to *taṣrīf* (27%), where mostly the meaning of the words also changes. Moreover, *i'rāb* constitute 16% of the differed words, followed by *ibdāl* (8%), noun forms (4%), and *ziyādah/nuqṣān* (6%).

Furthermore, if we concentrate on the words where the meaning changes, it is to be noted that 227 words have meaning changes in 211 verses and 63 chapters.

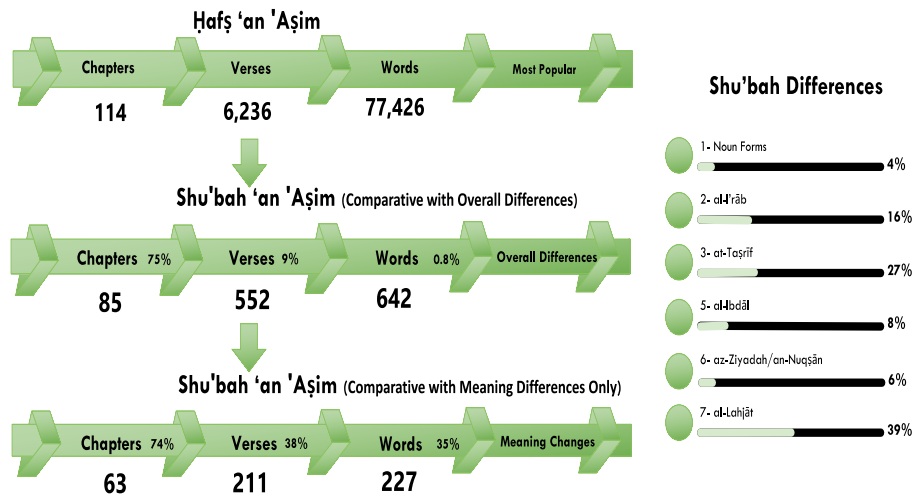


Figure 2, Corpus Analysis – Shu'bah 'an 'Āṣim²⁰

3.1 Tokens Reoccurrences

Out of the 642 words marked as different in the *riwāyah* of Shu'bah 'an 'Āṣim, we may now group up the specific tokens that have the same diacritics and are repeated. Figure 3 illustrates the topmost

²⁰ Developed by the authors.

reoccurring words that are different in this *riwāyah*. So, أَذْرَبَكَ، تَذَكَّرُونَ، and هُزُّوا are the top 3 most reoccurring words (tokens) with an occurrence of 17, 13, and 11 respectively. However, we know that Arabic words are rich in forms where the grammar and morphological forms could vary, and it is not easy for the machine to identify the identical types. So, we have also placed the root words in consideration of reoccurrences. This is illustrated in Figure 4, where we see the root word (ب ي ت) having a reoccurrence of 40. In terms of tokens, there are 16 various forms of this root word presented in Table 6. In summary, there are 425 distinct words in terms of similar *ḥarakāt*.

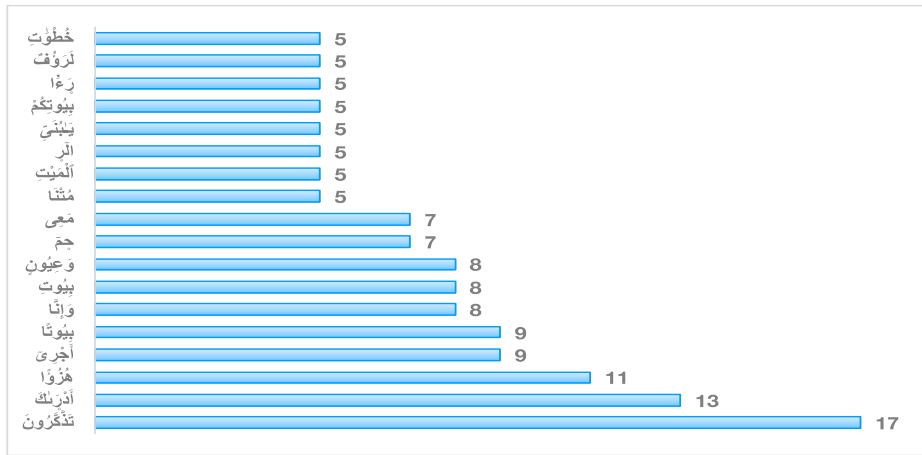


Figure 3, Tokens Reoccurrence – Shu‘bah ‘an ‘Āṣim

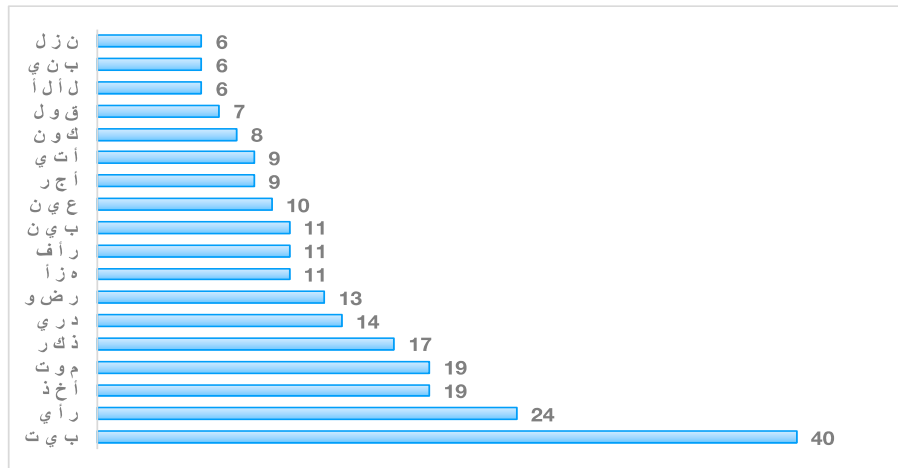


Figure 4, Root Words Reoccurrence – Shu‘bah ‘an ‘Āṣim

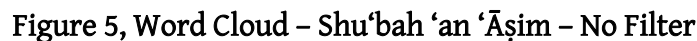
Table 6, Token Reoccurrences – Root Word (ب ي ت)

Token-Shu‘bah	Count
بَيُّوتًا	9

يُوت	8
يُوتُكُمْ	5
بَيْتِي	3
أَلْيُوت	2
أَلْيُوت	2
يُوتُكُمْ	2
يُوت	1
يُوت	1
يُوتُكُمْ	1
يُوتُنَا	1
يُوتُهُمْ	1
يُوتُهُمْ	1
يُوتُهُنَّ	1
لِيُوتُهُمْ	1
وَلِيُوتُهُمْ	1

3.2 Word Cloud Presentation

To have a more interactive analysis of the identified differences in the *riwāyah* of Shu'bah 'an 'Āṣim, a dashboard has been developed that would show the count of the words (tokens) and the count of root words as per the selected filters of Difference Flag and Meaning Flag. Additionally, the words and root words are presented in the form of Word Cloud, where the size of words is as per the occurrence count. Thus, the top reoccurring words would have the maximum font size, the next to it, and so on. This would further help an analyst explore the differences by linking up the words and root words. Of course, it is known that there would be nouns where the root words are not available. Although the developed dashboard has several filtering combinations, for illustrative purposes, a few have been presented below.



Having gone through the features of this dashboard, the following examples would be focused on the *riwāyah* of Shu‘bah ‘an ‘Aṣim by applying the Differences Flag and Meaning Flag.



The above Figure 6 shows 642 words where the *riywāyah* of Shu'bah 'an 'Āṣim differs from Ḥafṣ 'an 'Āṣim. Among them, 425 are distinct words where the size of the word shows the intensity of its reoccurrence. On the other side of the page, the root words are

المائدة	5-67-14	رِسَالَتُهُ	رِسَالَتِهِ	His Message	His Messages	Singular-Plural
المائدة	5-107-14	أَلَوَيْنِ	أَلَوَيْنِ	the former two	the former people	Dual-Plural
الأنعام	6-124-18	رِسَالَتُهُ	رِسَالَتِهِ	His Message	His Messages	Singular-Plural
الأنعام	6-135-5	مَكَانَتِكُمْ	مَكَانَتِكُمْ	your position	your positions	Singular-Plural
التوبة	9-24-8	وَعَشِيرَتُكُمْ	وَعَشِيرَتِكُمْ	and your relative	and your relatives	Singular-Plural
التوبة	9-103-11	صَلَوَاتِكَ	صَلَوَاتِكَ	your invocation	your invocations	Singular-Plural
هود	11-87-3	أَصْلَوَاتُكَ	أَصْلَوَاتُكَ	Does your prayer?	Does your prayers?	Singular-Plural
هود	11-93-4	مَكَانَتِكُمْ	مَكَانَتِكُمْ	your position	your positions	Singular-Plural
هود	11-121-7	مَكَانَتِكُمْ	مَكَانَتِكُمْ	your position	your positions	Singular-Plural
الأنبياء	21-104-6	لِلْكِتَابِ	لِلْكِتَابِ	for records	for a record	Plural-Singular
المؤمنون	23-14-10	عِظَامًا	عِظَمًا	(into) bones	(into) bone	Plural-Singular
المؤمنون	23-14-12	الْعِظَامِ	الْعِظَمِ	the bones	the bone	Plural-Singular
الفرقان	25-74-8	وَدُرِّيَّتِنَا	وَدُرِّيَّتِنَا	and our offspring(s)	and our offspring	Plural-Singular
العنكبوت	29-50-5	ءَايَاتٍ	ءَايَاتٍ	(the) Signs	(the) Sign	Plural-Singular
الروم	30-50-3	ءَاثَرٍ	ءَاثَرٍ	(the) effects	(the) effect	Plural-Singular
سبا	34-15-5	مَسْكَنِهِمْ	مَسْكَنِهِمْ	their dwelling place	their dwelling places	Singular-Plural
فاطر	35-40-24	بَيِّنَاتٍ	بَيِّنَاتٍ	a clear proof	clear proofs	Singular-Plural
يس	36-67-5	مَكَانَتِهِمْ	مَكَانَتِهِمْ	their place	their places	Singular-Plural
الزمر	39-39-5	مَكَانَتِكُمْ	مَكَانَتِكُمْ	your position	your positions	Singular-Plural
الزمر	39-61-5	بِمَقَارِهِمْ	بِمَقَارِهِمْ	to their place of salvation	to their places of salvation	Singular-Plural
فصلت	41-47-8	ثَمَرَاتٍ	ثَمَرَاتٍ	Fruits	fruit	Plural-Singular
الزخرف	43-38-3	جَاءَنَا	جَاءَنَا	he comes to Us	they both come to Us	Singular-Dual
الزخرف	43-53-4	أَسْوَرَةٍ	أَسْوَرَةٍ	bracelets	bracelets (bunch)	Plural-Plural (group)

12 reoccurring words constitute 41% of the *i'rāb* conversion category that are presented in Table 8. The remaining 59 words are distinct. After the conversion, the *mudūd* are also considered. For instance, the word *مَعِيَ* occurs 8 times in the *riwāyah* of Ḥafṣ. In the *riwāyah* of Shu'bah, the *fatḥah* on *yā'* is converted to a *sukūn* in all cases. Additionally, in the first occurrence of this word in Sūrat al-Tawbah, verse 83, a *hamzah* precedes it, which creates a *madd munfaṣil*, and thus we place a *madd* symbol (مَعِيَ) on it. Similarly, the word *مَعِيَ* with a *tashdīd* on *mīm* occurs thrice with once in Sūrat al-Mulk, verse 28, having a *hamzah* preceding it, resulting in a *madd* placed (مَعِيَ) on it.

Table 8, *I'rāb* Reoccurring Words

Token-Ḥafṣ	Token-Shu'bah	Count
أَجْرِي	أَجْرِي	9
مَعِيَ	مَعِيَ	7
يَبْنِي	يَبْنِي	5
أُفِّ	أُفِّ	3
بَنِي	بَنِي	3
وَلِي	وَلِي	3
مَعِيَ	مَعِيَ	2
لِي	لِي	2
وَجْهِي	وَجْهِي	2
كُلِّ	كُلِّ	2
سَوَاءً	سَوَاءً	2
أَلِيمٌ	أَلِيمٌ	2

Words with Difference Flag 3 (*Taṣrīf*): This difference is related to the morphology of the verbs encompassing the rules and patterns that dictate how Arabic verbs change forms according to different grammatical contexts. After *lahjāt*, this is the top word category for the words with differences with a percentage of 27. It includes 173 words with 134 of them distinct. All words under this category can be

seen in Figure 11 with the root word details included on the right side of the dashboard.

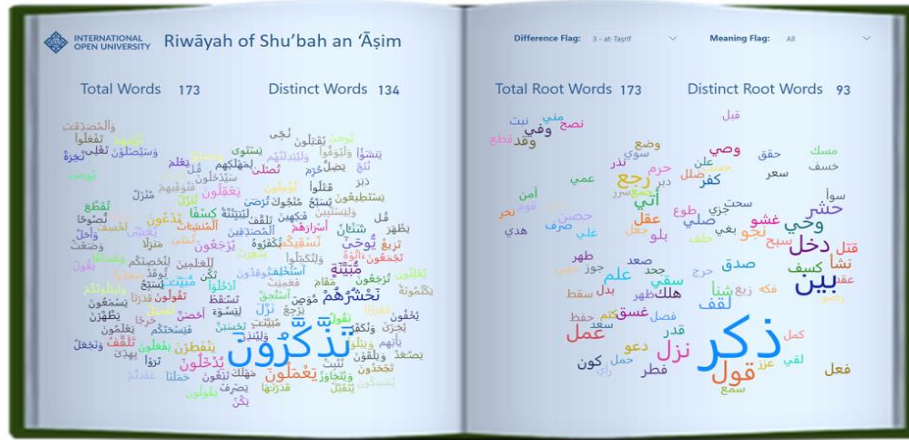


Figure 11, Shu'bah Word Cloud - Difference Flag 3 (*Taṣrīf*)

The top 17 reoccurring words of the *taṣrīf* category constitute 32% of them and are shown in Table 9. The remaining are distinct words considering the diacritics on them. In this category, most of the words have their meanings also changed. This category is the most amazing one, with the conversions happening between person forms, verb forms, and noun forms related to the verbs. A student of *qirā'āt* could make use of these dimensions to include more pondering of the verses. Usually, the related books would mention the *ḥarakāt* changes, whereas this work would explain why those changes were performed.

Table 9, *Taṣrīf* Reoccurring Words

Token- Ḥaṣṣ	Token- Shu'bah	Count	Remarks
تَذَكَّرُوا	تَذَكَّرُوا	17	The <i>tashdīd</i> on <i>dhāl</i> creates more emphasis.
تَعْمَلُونَ	يَعْمَلُونَ	4	Second-person to third-person form
يُحْشِرُهُمْ	يُحْشِرُهُمْ	4	Third-person to first-person form
مُبَيَّنَّة	مُبَيَّنَّة	3	Active participle to passive participle form
يَدْخُلُونَ	يَدْخُلُونَ	3	Active to Passive form
يُوحَى	يُوحَى	3	First-person to third-person form
شَتَانُ	شَتَانُ	2	Another form of the same verb

يَدْعُونَ	تَدْعُونَ	2	Third-person to second-person form
تَعْقِلُونَ	يَعْقِلُونَ	2	Second-person to third-person form
كَسَفًا	كَسَفًا	2	Another form of the same verb
يَنْفَطِرْنَ	يَنْفَطِرْنَ	2	Verb form V (تَفَطَّرَ) to form VII (انْفَطَرَ) conversion
تُرْجَعُونَ	يُرْجَعُونَ	2	Second-person to third-person form
تَلْقَفُ	تَلْقَفُ	2	The <i>tashdīd</i> on <i>qāf</i> creates more emphasis
يُعْشَى	يُعْشَى	2	Verb form IV (أَعَشَى) to form II (عَشَى) conversion
نَزَلَ	نَزَلَ	2	Verb form I (نَزَلَ) to form II (نَزَلَ) conversion
نُسْقِيكُمْ	نَسْقِيكُمْ	2	Verb form IV (أَسْقَى) to form I (سَقَى) conversion
مُبَيِّنَاتٍ	مُبَيِّنَاتٍ	2	Active participle to passive participle form

Words with Difference Flag 4 (*Taqdīm/Ta'khīr*): This difference is related to *taqdīm* (advancing) and *ta'khīr* (delaying) where the order of two words is interchanged. This category is the rarest in the ten *qirā'āt* and always occurs in pairs. In the whole *riwāyah* of Shu'bah, there is not a single pair of words which would fall in this category.

Words with Difference Flag 5 (*Ibdāl*): This difference is related to the substitution, which could be replacing letters with other ones or a complete word with another one. In this *riwāyah*, 50 words in this category could be placed, with 29 of them distinct, as presented in Figure 12. This constitutes 8% of the overall words with differences.



Figure 12, Shu'bah Word Cloud - Difference Flag 5 (*ibdāl*)

The top 4 reoccurring words of the *ibdāl* category constitute 50% of them and are presented in Table 10. The remaining 50% of words are distinct, and these replacements could be between a single letter, multiple, or the complete word. The word هَزُوا occurs 11 times in the Qur'ān, and Ḥaṣṣ is the only one among the twenty *rāwīs* who reads this with a *wāw*. The remaining nineteen *rāwīs* would do an *ibdāl* to a *hamzah*. Additionally, four out of nineteen would also make the *za sākin* in this word.

Table 10, *Ibdāl* Reoccurring Words

Token- Ḥaṣṣ	Token- Shu'bah	Count	Remarks
هَزُوا	هَزُوا	11	Placement of <i>wāw</i> with <i>hamzah</i>
وَأَنَا	وَأَنَا	8	Placement of <i>anna</i> with <i>inna</i>
وَأَنَّهُ	وَأَنَّهُ	4	Placement of <i>anna</i> with <i>inna</i>
وَلَوْلَا	وَلَوْلَا	2	Placement of <i>hamzah</i> with <i>wāw</i>

Words with Difference Flag 6 (*Ziyādah/Nuqṣān*): This difference is related to either *ziyādah* (addition) or *nuqṣān* (removal) where and addition or removal of a complete word or particular letters is carried out, respectively. This category constitutes 6% of the words with differences. The root words are also shown in Figure 13 for this category and they would appear for the words generated from the three letter root words only.

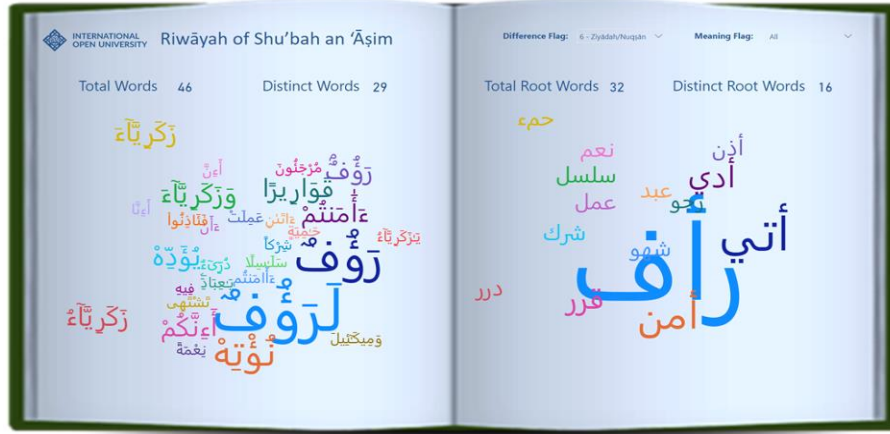


Figure 13, Shu'bah Word Cloud - Difference Flag 6 (Ziyādah/Nuqṣān)

In this *ziyādah/nuqṣān* category, the below 4 words with variations of prefixes and diacritics constitute 55% of the words, as shown in Table 11. For instance, in the word رُؤُفٌ, the *wāw* gets dropped, whereas in the word زَكْرِيَّا, *hamzah* gets appended in the end. Consequently, this category would have words where certain letters get added or removed.

Table 11, Ziyādah/Nuqṣān Reoccurring Words

Token-Ḥafṣ	Token-Shu'bah	Count
رُؤُفٌ	رُؤُفٌ	5
رُؤُفٌ	رُؤُفٌ	4
ءَامَنْتُمْ	ءَامَنْتُمْ	2
إِنَّكُمْ	ءَائِنَكُمْ	2
رُؤُفٌ	رُؤُفٌ	2
زَكْرِيَّا/زَكْرِيَّا	زَكْرِيَّا	2
زَكْرِيَّا	زَكْرِيَّا	2
وَزَكْرِيَّا/وَزَكْرِيَّا	وَزَكْرِيَّا	2
يَزَكْرِيَّا	يَزَكْرِيَّا	1

Words with Difference Flag 7 (*Lahjāt*): This difference is related to *lahjāt* (dialects), which mainly includes everything that is known to the scholars of *qirā'āt* as *uṣūl* (fundamentals) and is frequently repeated in the Qur'ān. This category is the top most with a

percentage of 39% with 244 words having several repeated words. Distinct words are only 140 and are presented in Figure 14.

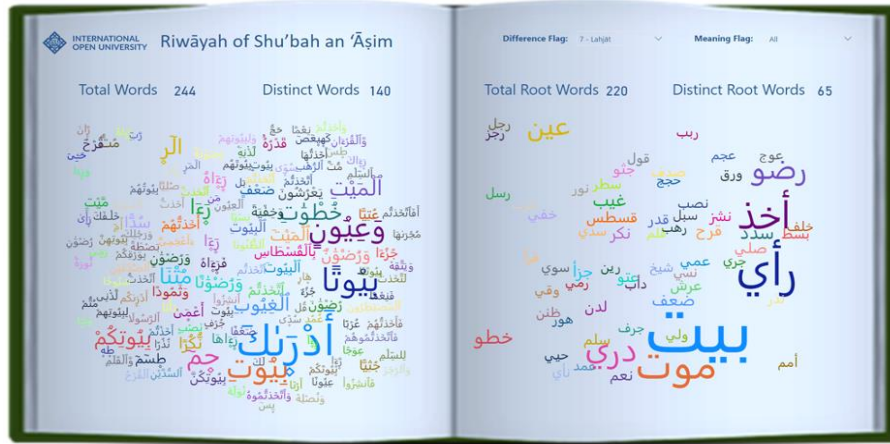


Figure 14, Shu'bah Word Cloud - Difference Flag 7 (*Lahjāt*)

The top reoccurring words in this category are shown in Table 12, where we may notice several words where the *rawī* uses *imālah* and the EmptyCentreLowStop (◌◌◌) symbol is used to present it beneath each such letter. Also, it would include words where the Arabs would differ based on their dialects with a *kasrah* instead of *ḍammah* or various other *ḥarakāt* changes.

Table 12, *Lahjāt* Reoccurring Words

Token-Ḥafṣ	Token-Shu'bah	Count
أَذْرَكَ	أَذْرَكَ	13
بُيُوتًا	بُيُوتًا	9
وَعْيُونِ	وَعْيُونِ	8
بُيُوتِ	بُيُوتِ	8
حَمَ	حَمَ	7
الرَّ	الرَّ	5
أَلْمَيْتِ	أَلْمَيْتِ	5
رَعَا	رَعَا	5
مُتَنَّا	مُتَنَّا	5
حُطُوتِ	حُطُوتِ	5
بُيُوتِكُمْ	بُيُوتِكُمْ	5

الْعُيُوبِ	الْعُيُوبِ	4
الْمَيِّتِ	الْمَيِّتِ	3
رَعَاهُ	رَعَاهُ	3
تُكْرًا	تُكْرًا	3
وَرَضُونَا	وَرَضُونَا	3
وَرَضُونُ	وَرَضُونُ	3
سَدًّا	سَدًّا	3
رَعَا	رَعَا	3
بُيُوتُكُنَّ	بُيُوتُكُنَّ	2
الْبُيُوتِ	الْبُيُوتِ	2
وَحَفِيَّةً	وَحَفِيَّةً	2
بِالْقِسْطَاسِ	بِالْقِسْطَاسِ	2
فَرْحٍ	فَرْحٍ	2
رَعَاهَا	رَعَاهَا	2
جَنِيًّا	جَنِيًّا	2
الْبُيُوتِ	الْبُيُوتِ	2
أَتَّخَذْتُمْ	أَتَّخَذْتُمْ	2
أَخَذْتُهُمْ	أَخَذْتُهُمْ	2
قَدَرُهُ	قَدَرُهُ	2
يَغْرِشُونَ	يَغْرِشُونَ	2
مِثُّ	مِثُّ	2
رَضُونَ	رَضُونَ	2
مَيِّتٍ	مَيِّتٍ	2

أَعْمَى	أَعْمَى	2
وَعُودًا	وَعُودًا	2
ضَعْفٍ	ضَعْفٍ	2
جُزْءًا	جُزْءًا	2
طَسَمَ	طَسَمَ	2
وَرُضُونِ	وَرُضُونِ	2
عَتَبًا	عَتَبًا	2
فَرَّاءُ	فَرَّاءُ	2

Words with Multiple Difference Flags: Certain words have more than one difference categorization occurring simultaneously. We have codified such words listing all occurring differences and separating them with a comma. These are listed in Table 13 and are only 14 in count. The higher difference code is placed first and the later ones are sorted in decreasing order. For instance, the word *يُؤَدِّهِ* is read as *يُؤَدِّهِ* in this *riwāyah* which has first of all removal of *ṣilah* and then 6-0-0 coding is given for the *ziyādah/nuqṣān* category. Secondly, there is an ending conversion to *sukūn* which we highlight by giving a code of 2-0-0 to capture the *i'rāb* part.

Table 13, Multiple Category Words

Surah Name	Token ID	Difference Code	Token Ḥaṣṣ	Token Shu'bah	Buckwalter Ḥaṣṣ	Buckwalter Shu'bah
آل عمران	3-75-8	6-0-0, 2-0-0	يُؤَدِّهِ	يُؤَدِّهِ	yu&ad~ihi.^	yu&ad~iho
آل عمران	3-75-16	6-0-0, 2-0-0	يُؤَدِّهِ	يُؤَدِّهِ	yu&ad~ihi.^	yu&ad~iho
آل عمران	3-145-15	6-0-0, 2-0-0	نُؤْتِيهِ	نُؤْتِيهِ	nu&otihi.	nu&otiho
آل عمران	3-145-21	6-0-0, 2-0-0	نُؤْتِيهِ	نُؤْتِيهِ	nu&otihi.	nu&otiho
الكهف	18-2-6	7-0-0, 6-0-0	لَدُنْهِ	لَدُنْهِ	l~adunohu	l~ado%nihi.
الأنبياء	21-4-1	7-0-0, 3-1-0	قَالَ	قُلْ	qaAla	Qul
النور	24-52-7	7-0-0, 2-0-0	وَيَتَّقِيهِ	وَيَتَّقِيهِ	wayat~aqohi	wayat~aqiho
لقمان	31-20-15	6-1-0, 1-1-0	نِعْمَةً	نِعْمَةً	niEamahu,	niEomapF
الشورى	42-20-15	6-0-0, 2-0-0	نُؤْتِيهِ	نُؤْتِيهِ	nu&otihi.	nu&otiho
الزخرف	43-68-1	6-0-0, 2-0-0	يُعْبَادُ	يُعْبَادُ	ya_`EibaAdi	ya_`EibaAdi.a

الصف	61-8-8	7-0-1, 2-0-0	نُورِي	نُورِي	nuwrihi.	n~uwrahu,
الإنسان	76-4-4	6-0-0, 2-0-0	سَلَسِلَا	سَلَسِلَا	sala_`silaA@	sala_`silFA
الإنسان	76-15-8	6-0-0, 2-0-0	قَوَارِيَا	قَوَارِيَا	qawaAriyraA"	qawaAriyrFA
الإنسان	76-16-1	6-0-0, 2-0-0	قَوَارِيَا	قَوَارِيَا	qawaAriyraA@	qawaAriyrFA

4. Conclusion

In this research work, we employed the Seven Arabic Language Aspects framework to classify lexical differences for the *riwāyah* of Shu‘bah ‘an ‘Āṣim. Throughout the corpus development phase, we emphasized maintaining the syntax of the *‘Uthmānī Muṣḥaf* during any alterations made to the Arabic text and included special symbols to accommodate various *qirā’āt* terms. Unlike traditional methodologies prevalent in the *qirā’āt* literature, which typically highlights differences in *ḥarakāt* and letters when contrasting with the *riwāyah* of Ḥaḥṣ, our research introduces a novel approach. We categorized variations based on the Seven Arabic Language Aspects, offering a deeper insight into the underlying reasons for such alterations, whether they involve shifts in meaning or morphological forms. Furthermore, this methodology facilitates the quantification of specific words, aiding targeted analysis by identifying verses where particular linguistic features are most prevalent. So, this may help the teachers of this qur’ānic science as they can quantify various aspects of the *qirā’āt* after having them in a digital format. The students and teachers may also explore the reason for the differences as we have codified each word and explained them collectively.

The Ten *Qirā’āt* Arabic Corpora and specifically the *riwāyah* of Shu‘bah ‘an ‘Āṣim, is an area that has never been explored before with this methodology. Having this in a machine-readable format will help knowledge-based projects move forward in this area. This would be a fruitful addition to various linguistic and Islamic applications where the Qur’ānic text could be analysed more scientifically and statistically. Above all, it would enable researchers to consider all variations and observe the beauty that lies in another miraculous area of Qur’ān. Moving forward, this methodology will be applied to the other nineteen *rāwīs* of the ten *qirā’āt* to develop corpora for each one.

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