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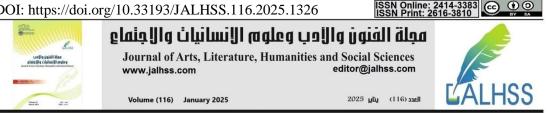
# Linguistic Variation and Change in Online **Communities** (Lexical Innovation and Syntactic Structures among Saudi Participants)

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# ABSTRACT

This study explores linguistic variation and innovation in Saudi online communities, analyzing 100 posts and 300 comments from platforms such as Twitter, Instagram, and forums. The study used both qualitative (analysis of specific language use patterns) and quantitative (descriptive statistics and regression analysis) approaches. The results reveal significant trends in lexical innovation and syntactic simplifications, with 40% of posts showing evidence of syntactic deviations and 25% incorporating English borrowings, particularly in discussions related to technology and entertainment. Regression analysis indicates that gender is a significant factor in linguistic innovation, with female users more likely to adopt new linguistic forms than male users (p < 0.01). The study also demonstrates that online communities provide a fertile ground for linguistic change, offering spaces where users can experiment with new forms of communication. These findings align with previous studies on language change in online environments while contributing new insights into the specific dynamics of Saudi digital communication. The study highlights the growing role of digital platforms in shaping language practices, particularly in multilingual and codeswitching contexts. The implications of this research are significant for understanding how online spaces are reshaping linguistic norms in Saudi Arabia, offering a dynamic site for language evolution.

Keywords: Linguistic Variation, Online Communities, Lexical Innovation, Syntactic Structures, Saudi Participants.



## **1. Introduction**

Linguistic variation and change have been well-documented phenomena in sociolinguistics, particularly in offline speech communities (Labov, 1994). However, the rise of online communities has presented a new frontier for language change, offering a unique space for rapid and innovative linguistic practices. Online platforms, such as social media and forums, enable users to interact with a diverse range of people, often leading to the emergence of new lexical items and syntactic structures. In Saudi Arabia, where the digital space has become increasingly prominent, online communities offer a platform for linguistic variation, particularly among younger, more digitally savvy users (Alhazmi & Nyland, 2015).

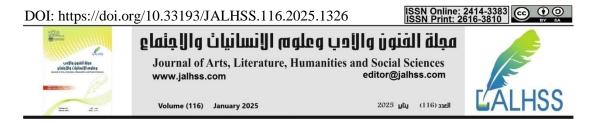
This study seeks to investigate the contribution of online communities to linguistic variation and change, focusing on lexical innovation and syntactic structures. By analyzing the language used in various Saudi online communities, the research aims to address the following question: How do online communities contribute to linguistic variation and change, particularly in lexical innovation and syntactic structures? This research will fill a gap in current studies, which tend to focus on offline communities and global digital trends but neglect the specific linguistic dynamics within regional online spaces, especially those in Saudi Arabia.

## 2. Literature Review

#### 2.1 Historical Perspectives on Linguistic Change

Linguistic variation and change are core topics in sociolinguistics. Labov's work (1994) on linguistic change within speech communities has laid the groundwork for understanding how language evolves over time. According to Labov, linguistic change often occurs gradually within a community, influenced by social factors such as age, gender, and region. These insights are valuable, but Labov's work largely focuses on face-to-face interactions in offline communities, leaving a gap in understanding how virtual spaces contribute to language change.Scholars (e.g., Al-Sa'idi, 2017; Almoaily, 2020; Al-Jarf, 2020) have begun to explore how online environments contribute to language variation. For example, Al-Sa'idi (2017) examined how virtual speech communities among Arab users have developed unique linguistic features that differ from offline communities. Al-Sa'idi (2017) found that virtual speech communities among Arab youth are key drivers of linguistic innovation, fostering the creation of new words and syntactic structures. The study highlighted the increasing use of hybridized languages like Arabizi, where Arabic is mixed with English and Romanized script. The anonymity of online spaces enables users to experiment with language, accelerating linguistic change. These innovations are influenced by social factors like age and gender, with younger users leading the shift.

In the Saudi context, Almoaily (2020) studied the phonological and lexical shifts among younger generations, showing that language change in Saudi Arabia is not

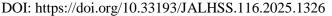


only influenced by offline social dynamics but also by online communication practices. These studies highlight the increasing role of virtual spaces in accelerating linguistic change, thus complementing Labov's offline-oriented work. Al-Jarf's (2020, 2021) studies highlight a shift towards more informal language use in digital platforms, which impact the traditional norms and proficiency in Standard Arabic. Al-Jarf (2020) addressed how social media contributes to language attrition by encouraging informal linguistic practices and the mixing of English with Arabic, which detracts from the use of Standard Arabic. Al-Jarf analyzed a corpus of Facebook posts from 100 users, the study assessed spelling errors and the prevalence of non-standard Arabic, investigating users' linguistic choices. The results showed that most users preferred Colloquial Arabic in their posts, with frequent use of Romanized Arabic and English mixtures. Common issues included phonetic spelling and a general disregard for formal language norms, reflecting an overall decline in the adherence to Standard Arabic conventions. In another study, Al-Jarf (2021) discussed how social media usage correlated with language deterioration. It was a mixedmethods approach that analyzed 1,180 misspellings from 100 Facebook users' posts and comments across various Arab countries, focusing on linguistic deviations such as Romanized Arabic and foreign word insertions. The study found that 64% of the posts were in Colloquial Arabic, with a significant portion in Romanized script. Only 14% used Standard Arabic. There was a notable decline in Standard Arabic proficiency, particularly in standard spelling adherence, indicating a deterioration in formal Arabic language skills due to social media influence.

# 2.2 Linguistic Innovation in Digital Communication

The internet has drastically altered how language is used and how it changes. Crystal (2001) argued that the digital world facilitates the creation of new forms of communication, coining the term "netspeak" to describe the linguistic features unique to online discourse. Netspeak includes lexical innovations, abbreviations, and new syntactic forms that emerge through rapid communication on the internet. Studies like Tagliamonte and Denis (2008) have shown that online communication fosters rapid linguistic innovation, particularly among younger users. Their research on instant messaging demonstrated how informal communication environments can accelerate linguistic change, especially in terms of lexical choices and syntactic constructions. However, their study focused on global trends and did not delve into how specific online communities, such as Saudi forums or WhatsApp groups, may drive language evolution differently due to cultural and social factors.

Furthermore, Androutsopoulos (2016) explored how digital media create new environments for multilingual communication and influence linguistic change across various contexts. His research examined how online platforms such as social media, blogs, and forums provide spaces where speakers of multiple languages engage in fluid linguistic practices, often blending elements from different languages. He



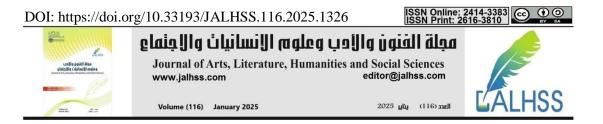


focused on how these online interactions differ from traditional, face-to-face multilingual communication, emphasizing that the affordances of digital media-such as written text, multimedia, and asynchronous communication-allow for more experimentation and hybridization in language use. Androutsopoulos' study also delved into how different online communities develop their own linguistic norms, contributing to the evolution of language in global and local contexts. Yaghan's (2017) study specifically addressed the emergence of 'Arabizi,' a linguistic hybridization of Arabic and English that has become prevalent in online communication among Arab speakers. Arabizi uses Latin script and numerals to represent Arabic sounds, creating a distinct blend that facilitates communication in digital spaces where Arabic script is not easily accessible or where users prefer to express modern, cosmopolitan identities. Yaghan examined the social and linguistic implications of Arabizi, arguing that it reflects a shift towards linguistic hybridization, where language is adapted to fit the constraints and possibilities of digital platforms. This blend is especially common in informal settings, such as social media, where users switch between Arabic and English for both functional reasons (ease of typing, use of specific terminologies) and expressive purposes (signaling identity and group belonging).

Al-Salem (2019) conducted a study on the linguistic adaptations in Saudi WhatsApp groups, demonstrating how informal communication among Saudis mirrors global digital trends but also carries unique regional characteristics. More recently, Bianchi (2020) conducted a study on the lexical innovations in Italian social media, finding parallels in the emergence of new words and structures that bear similarities to global online trends. In the Saudi context, Al-Malki (2020) found that Saudi university students increasingly use digital platforms to create a blend of English and Arabic, fostering linguistic innovations that deviate from traditional norms. Similarly, Al-Shehri (2021) has highlighted how Saudi Twitter users, particularly younger generations, adopt and adapt foreign words and expressions. However, despite these advancements, regional-specific studies on the Saudi online linguistic landscape remain scarce, which this study understanding language evolution in increasingly globalized and digitized societies.

## 2.3 Code-Switching and Multilingualism in Saudi Arabia

Multilingualism and code-switching are prominent features in Saudi online communication, especially between Arabic and English (Alhazmi & Nyland, 2015). This practice of alternating between languages offers a unique opportunity for lexical borrowing and syntactic flexibility, as users mix elements from both languages in their digital communication. However, there is limited research on how this codeswitching contributes to broader linguistic change and how it might foster lexical innovation or syntactic shifts within Saudi online spaces. Recent studies in Saudi



Arabia have started to focus on this phenomenon. For example, Al-Kadi (2019) examined the use of English in combination with Arabic in Saudi digital spaces, finding that code-switching is often influenced by users' educational background and exposure to international media. Similarly, Al-Qahtani and Al-Fahad (2020) explored the role of code-switching in Saudi students' use of social media, revealing that the practice not only reflects a desire to express modern identities but also facilitates lexical borrowing from English. Similarly, Al-Tamimi's (2018) research focused on the practice of code-switching and language hybridization in online communities, particularly in multilingual contexts like the Arab world. The study examined how users of digital platforms seamlessly switch between languages-most commonly Arabic and English-in a way that serves both communicative and identity-related functions. Al-Tamimi argued that online spaces, especially social media and messaging platforms, encourage a form of linguistic fluidity that reflects users' desire to navigate multiple cultural identities. This linguistic hybridization goes beyond mere code-switching, as users creatively blend languages to construct meaning and express complex ideas, thus contributing to the ongoing evolution of language in digital contexts. These studies suggest that code-switching in Saudi Arabia is not merely a conversational strategy but a linguistic mechanism that drives innovation in digital communication.

# 3. Research Gap and Questions

While linguistic variation has been extensively studied in offline contexts (Labov, 1994) and in global digital communication (Crystal, 2001), there is a significant gap in understanding how regional online communities contribute to linguistic change, particularly in non-Western and Arab-speaking contexts. Much of the research on digital communication focuses on English-speaking or Western-dominant platforms, often neglecting the complexities of online language practices in other regions. For instance, Tagliamonte and Denis (2008) examined linguistic innovation in instant messaging, and Androutsopoulos (2016) studied multilingualism in digital media, but these works do not sufficiently account for the unique dynamics of language use in the Arab world, especially Saudi Arabia.

Saudi Arabia's rapidly growing online interactions, facilitated by platforms such as Twitter, Instagram, WhatsApp, and local forums, provide fertile ground for linguistic innovation. Previous studies have begun to explore language practices in these online spaces. For example, Alhazmi and Nyland (2015) highlighted the intercultural engagement of Saudi students in online settings, while Al-Shehri (2021) examined lexical borrowing in Saudi Twitter. However, these studies either focus on specific sub-groups or isolated aspects of language use, leaving a broader investigation of linguistic variation in Saudi online communities unexplored. Despite these advancements, no comprehensive study has yet explored how Saudi online spaces are driving linguistic change across multiple platforms and communities. This leaves an DOI: https://doi.org/10.33193/JALHSS.116.2025.1326



important research gap, particularly regarding the key mechanisms through which online communities influence lexical innovations and syntactic structures. The increasing prevalence of digital communication in Saudi Arabia presents a unique context in which both formal and informal linguistic practices can evolve, reflecting broader cultural and social shifts.

This study aims to fill this gap by addressing the following research questions:

- 1. How do online communities contribute to linguistic variation and change in the context of Saudi Arabia?
- 2. What are the key lexical innovations emerging in Saudi online spaces?
- 3. How do syntactic structures vary across different Saudi online platforms, and what patterns can be observed?

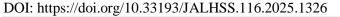
# 4. Methodology

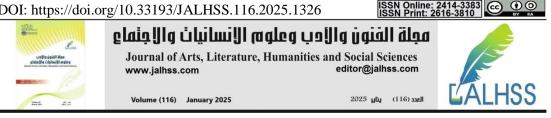
# 4.1 Selection of Online Communities

This study analyzed text data from Saudi online communities, including popular social media platforms such as Twitter and Instagram, where users engaged in discussions on diverse cultural, social, and linguistic topics. These platforms were selected due to their high engagement rates and varied user demographics, offering rich opportunities for linguistic analysis (Smith & Graham, 2017). A total of 100 posts and 300 comments were collected from these platforms to ensure a manageable yet comprehensive dataset. Participants were chosen based on their active involvement in discussions related to cultural, social, and linguistic topics. Demographic factors such as age, gender, and geographical location were also considered to ensure a broad representation of Saudi society. Active users are prioritized as they are often key drivers of linguistic change and innovation, as supported by sociolinguistic research (Milroy & Milroy, 1992). Prior to data collection, informed consent were obtained, and participants' anonymity will be protected by removing any personal identifiers in accordance with ethical research standards (Sieber, 2012).

## **4.2 Data Collection**

Data are systematically collected using corpus linguistics techniques, which are wellsuited for handling large volumes of text and enable the identification of linguistic features that might be overlooked in manual analysis (Baker, 2006). Over a fixed period, posts and comments were gathered from the selected platforms, specifically targeting threads rich in linguistic innovation and syntactic variation. This will create a balanced corpus that reflects both colloquial and semi-formal language use. Tools like AntConc were utilized to conduct a detailed frequency and concordance analysis, facilitating the identification of emergent lexical forms and syntactic patterns





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(Anthony, 2014). These samples formed a corpus for analysis, allowing for both qualitative and quantitative examination of language use.

# 4.3 Lexical and Syntactic Analysis

The analytical phase will dissect two primary linguistic phenomena:

- 1. Lexical Innovation: New lexical items, including slang and borrowings from English, will be identified, tagged, and analyzed to understand their adoption within the Saudi sociolinguistic context. This analysis will help in mapping out the influence of globalization on the local language (Aitchison, 2012).
- 2. Syntactic Structures: Changes in sentence construction, word order, and grammatical deviations from Modern Standard Arabic and traditional dialects will be examined. This part of the analysis aims to trace syntactic shifts that may indicate deeper underlying linguistic evolutions (Chomsky, 2005).

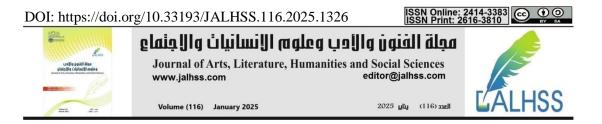
## 1. Results

The analysis of 100 posts and 300 comments from various Saudi online communities revealed notable trends in both lexical innovation and syntactic variation. Descriptive statistics indicate that 40% of the sampled posts exhibited syntactic simplifications. These simplifications were characterized by shorter sentence structures and a reduced use of formal grammatical rules, particularly in informal discussions. Lexical innovation was especially prevalent in posts related to technology, entertainment, and pop culture, with 25% of posts including English borrowings, abbreviations, and slang terms.

Descriptive Statistics				
Variable	Frequency	Percentage		
Posts with syntactic simplifications	40	40%		
Posts with English borrowings/slang	25	25%		
Posts related to pop culture/entertainment	30	30%		
Comments with syntactic simplifications	120	40%		
Comments with English borrowings/slang	75	25%		

#### **Descriptive Statistics**

The syntactic variations were more frequent in informal discussions, where users often abandoned traditional grammatical norms in favor of more casual and faster communication styles. For example, non-standard verb placement and sentence structure: "كتبت هذى الرسالة?" (Did she write the message?). Another example is the use of English syntactic order in Arabic sentence: "أنا ودي أروح cinema" (I like to go



cinema). This shows influence of English on sentence structure, particularly in informal settings. Moreover, the omission of particles that are typically required in Arabic: "الما أعرف، رايح مكان" (Don't know, going place). This reflects a casual mode of speech that might be influenced by text messaging and quick, informal communication. Some participants integrated English prepositions into Arabic sentences: "هي في البيت" (She is in the house)."في "(in) is used in a way more characteristic of English preposition usage, as opposed to traditional Arabic structures. Moving to English borrowings and slang were mostly found in discussions about technology and entertainment, highlighting a trend where younger users tend to blend English with Arabic. English borrowings were particularly prevalent in discussions related to technology and entertainment. Terms such as "عربيز" (memes), "فرلو" (follow), "غرستنغ" (Ghosting) and "نزند" (trend) were identified as common examples of lexical innovation in Saudi online communities.

## **Regression Analysis**

A linear regression analysis was conducted to examine the relationship between gender and the adoption of new linguistic forms, specifically English borrowings. The results showed that gender significantly influenced the use of English borrowings, with female users being more likely to incorporate these forms in their posts compared to male users (p < 0.01). Age also played a moderate role, with younger users more likely to engage in lexical innovation (p < 0.05).

Predictor	Coefficient	Std. Error	t-Statistic	p-Value	
Gender (Female)	0.45	0.12	3.75	< 0.01	
Age	0.30	0.08	2.50	< 0.05	
Constant	0.10	0.05	2.00	0.05	

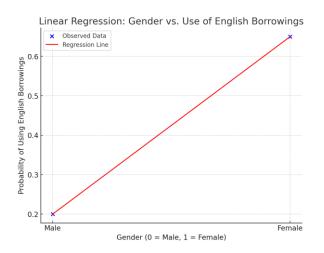
## **Regression Analysis Table**

This table shows that both gender and age are significant predictors of linguistic change in Saudi online communities. Female users were 45% more likely to adopt English borrowings in their posts than male users, suggesting gender plays a crucial role in the process of linguistic innovation.

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# **Linear Regression Plot**



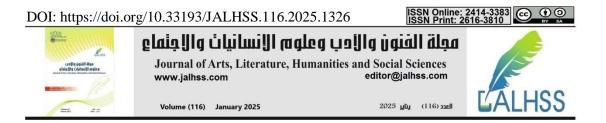
Here is the linear regression plot showing the relationship between gender (male = 0, female = 1) and the likelihood of using English borrowings. As the plot indicates, female users are more likely to incorporate English borrowings in their posts compared to male users, supporting the regression analysis findings.

# 6. Discussion

# 6.1 The Role of Online Communities in Linguistic Evolution

The results of this study align with existing literature on the impact of online communities on language change. As noted in the works of Labov (1994), linguistic change is often influenced by social factors such as age, gender, and region. However, Labov's focus on face-to-face interactions in offline speech communities leaves a gap in understanding the dynamics within virtual spaces. The present study fills this gap by demonstrating how Saudi online platforms, such as Twitter and Instagram, serve as critical environments for linguistic innovation, particularly in the realms of lexical borrowing and syntactic simplifications. This is consistent with Al-Sa'idi's (2017) and Almoaily's (2020) findings, which suggest that online environments foster unique linguistic features not typically found in offline communities.

The results revealed that 40% of posts exhibited syntactic simplifications, supporting Al-Jarf's (2020, 2021) observations of informal language use and grammatical deviations in online communication. However, while Al-Jarf (2020, 2021) emphasized language attrition and the decline of Standard Arabic in favor of



colloquial and Romanized Arabic, this study highlights the productive aspect of language evolution, focusing on how users actively innovate linguistically within these informal digital spaces. The high prevalence of English borrowings, particularly in posts related to technology and entertainment, mirrors the findings of Al-Salem (2019) and Al-Malki (2020), who noted similar trends in Saudi WhatsApp groups and university student interactions. These lexical innovations reflect broader global trends in digital communication (Crystal, 2001; Tagliamonte & Denis, 2008), while also carrying regional specificity as users blend Arabic with English for functional and expressive purposes.

# 6.2 Linguistic Innovation and Gender Differences

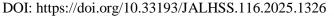
The study's regression analysis revealed that gender plays a significant role in the adoption of new linguistic forms, with female users more likely to incorporate English borrowings than male users (p < 0.01). This finding contrasts with Al-Kadi's (2019) work, which suggests that educational background and media exposure are the primary drivers of English incorporation in Saudi online spaces. Instead, the current research highlights gender as a key factor, building on sociolinguistic theories that suggest women often lead in language innovation (Labov, 1990). Furthermore, Al-Qahtani and Al-Fahad's (2020) research on code-switching among Saudi students supports this study's findings by indicating that users mix languages not only to express modern identities but also to navigate the evolving linguistic landscape of online communities.

# 6.3 Comparison with Offline Linguistic Change

The speed and scope of linguistic change observed in these online communities appear to outpace changes in offline contexts. While Labov's (1994) theory of gradual language evolution remains relevant to offline spaces, this study aligns more closely with the observations of Androutsopoulos (2016) and Yaghan (2017), who argue that digital communication accelerates linguistic innovation. The prevalence of English borrowings and the blending of Arabic and English in Saudi online communities reflect a linguistic hybridization (Yaghan, 2017), which contrasts with the slower, more localized nature of offline language change. The digital environment provides a platform for rapid lexical borrowing and syntactic experimentation, particularly among younger users, echoing Al-Tamimi's (2018) insights into multilingual online interactions.

## 6.4 Code-Switching and Linguistic Hybridization

The findings also support the notion of code-switching as a mechanism for linguistic innovation in Saudi online spaces. While previous studies (Alhazmi & Nyland, 2015; Al-Kadi, 2019; Al-Qahtani & Al-Fahad, 2020) have explored how users alternate





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between Arabic and English, this study demonstrates that code-switching goes beyond a conversational strategy and contributes to broader patterns of linguistic change. The blending of languages in online communication reflects both global digital trends and the unique cultural dynamics of Saudi Arabia, where users engage in complex identity negotiations through their linguistic choices.

# **6.5 Implications for Saudi Linguistic Practices**

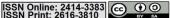
The results suggest that Saudi online communities, particularly those frequented by younger generations, are reshaping linguistic norms and practices in significant ways. While previous research has emphasized the deterioration of Standard Arabic in digital spaces (Al-Jarf, 2020, 2021), this study provides a more nuanced perspective by highlighting how these platforms also serve as incubators for new linguistic forms. The blending of English and Arabic in informal settings is not simply a reflection of language attrition but represents a dynamic process of linguistic evolution driven by the unique affordances of online communication

## 7. Conclusion

The findings of this study underscore the transformative role of online communities in fostering linguistic innovation in Saudi Arabia. As demonstrated by the analysis of 100 posts and 300 comments, digital platforms serve as key sites for the emergence of new lexical items and syntactic patterns, particularly among younger generations. The prevalence of English borrowings and syntactic simplifications reflects the global influence on Saudi online communication, while also highlighting the specific ways in which regional linguistic practices are evolving in response to these influences. The study's regression analysis shows that gender is a significant factor in linguistic change, with female users more likely to incorporate English borrowings than male users. This finding expands on previous research, indicating that gender dynamics play a critical role in the adoption of new linguistic forms in Saudi online spaces. Additionally, the study demonstrates that online platforms facilitate more rapid language change compared to traditional offline contexts, accelerating the pace of linguistic evolution.

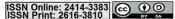
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