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Cross-National Study on the Perception of the Korean Wave and Cultural Hybridity in Indonesia and Malaysia Using Discourse on Social Media

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Abstract: In the era of globalization, due to the prevalent cultural exchange between countries, inflows of foreign cultural products can enrich local culture by hybridizing local and global culture together. Although there have been numerous studies on cultural hybridity using qualitative interviews with recipients of foreign cultural products in single countries, cross-national studies that examine the national characteristics that facilitate or impede cultural hybridity remain scarce. The purpose of the present study is to identify the factors that promote or hinder cultural hybridity between the Korean Wave and Muslim culture by probing the similarities and differences in social media data on Korean cultural products between Indonesia and Malaysia using a semantic network analysis. The results of the study uncovered the three factors that promote cultural hybridity ('Asian identity', policies emphasizing 'unity in ethnic diversity', and 'local consumers xenocentrism') and the two hindering elements ('a conservative nature of religion' and 'discrimination between ethnic groups'). Theoretical contributions and practical implications are also provided for promoting cultural hybridity.

Keywords: cultural hybridity; Korean Wave; Indonesia; Malaysia; social media data

1. Introduction

Cultural products are visible and invisible commodities, such as cultural content and multimedia content, which reflect cultural elements and identities [1]. Because cultural products act as mediators that deliver one's culture and value to another, the reception of cultural products involves the acceptance of cultural elements from the origin country [2]. A shift in cultural elements has gained momentum in recent times through globalization, which has been precipitated by the rapid penetration of digital technology [3,4]. Although globalization entails the risk of losing the unique identity and value of the local culture, it produces a hybridized culture by mixing the sociocultural characteristics of the local heritage with those of the imported culture [4]. According to Kraidy [5], cultural hybridity is transnational cultural dynamics where disjuncture and mixture of culture co-exist. The interplay of cultural, economic, and political forces is constitutive of this hybridization in the international context [5]. This process of cultural hybridity, known as glocalization, involves a combination of local and global culture that leads to a rich and diverse culture in the importing countries [6,7]. In other words, cultural hybridity promotes and strengthens cultural diversity as a means of achieving cultural sustainability by receiving global culture while simultaneously maintaining local cultural codes [3]. Therefore, identifying what expedites or hinders cultural hybridity, which ultimately leads to sustainable culture, becomes necessary [3].

One of the most successful examples of cultural hybridity is South Korean (hereafter Korean) cultural products, such as popular music (K-pop), drama, and movies, which combine Korean traditions,

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Confucian culture, and western popular culture [8]. Recently, the Korean Wave, which describes the international phenomenon of the spread and consumption of diverse Korean cultural products [9], has rapidly spread through international markets. Thus, it should be noted that Korean cultural products, as a type of hybridized culture, again have the potential to generate a significant hybridized culture within the importing country via the process of cultural trade.

Numerous studies have been conducted on the Korean Wave and its impact on cultural hybridity in importing countries by employing qualitative semi-structured interviews conducted in a single country. The researchers conducting these studies typically asked questions related to Korean cultural products and examined participants' perceptions and preferences toward Korean cultural products [2,10–12]. Although this qualitative approach is useful for exploring the interpretations and meanings that each individual generates, it has led to the following two knowledge gaps in the literature. First, research comparing consumers' responses to Korean cultural products across countries is scant. In addition, the literature has mainly focused on the individual recipients' interpretations of the reception of Korean cultural products. This limitation prevents researchers from identifying these countries' ethnic, cultural, socio-economic, political, and/or historical characteristics that facilitate or hinder cultural hybridity. In particular, research that compares consumers from neighboring countries with the same religion is helpful because it may enhance the validity of findings on why consumers from countries with similar religious backgrounds react differently or similarly to the same cultural products.

Second, because most studies included the use of semi-structured interviews with a small number of consumers, few studies on cultural hybridity included consumers' opinions on the Korean Wave on social media, even though the social media are interactive avenues through which consumers freely share their opinions and experiences [13]. The social media have played a critical role in spreading Korean cultural products. With the development of smart technology, global audiences encounter these products through social media such as Facebook, Twitter, and YouTube. These media are not only distribution channels for Korean cultural products but also provide an interactive avenue for the audience [13]. Young fans, in particular, actively participate in online forums related to Korean artists, create secondary content, and deliver their content to others through social media [2]. Thus, social media offer valuable sources of colorful discourse on the Korean Wave, which may complement the limitations of interview-based studies because of the use of small-sized samples. A few studies based on social media such as Twitter [13] and YouTube [14] have been conducted. Their foci, however, involved deducing the diffusion patterns of the Korean Wave, rather than interpreting the hidden meanings behind the audience's discourses.

To fill the knowledge gap in the existing literature, the purpose of the present study is to probe the roles of a nation's ethnic, socio-economic, and historical backgrounds in promoting or impeding cultural hybridity. We employ Kraidy's [5] conceptualization on cultural hybridity that underlines the formative roles of those backgrounds in cultural hybridization. To this end, we compare social media data on Korean cultural products across countries by using semantic network analysis. This is a useful technique for identifying the hidden themes and framing patterns within text data [15]. We focus on the Muslim consumers in two Southeast Asian countries, Indonesia and Malaysia, because these two countries have historically had few interactions with Korea; thus, consumers in these countries were unfamiliar with Korean culture until Korean cultural products were introduced through the Korean Wave [16]. Malaysia consists of three distinctive ethnic groups: Malay, Chinese, and Indian Malaysian. In this study, we specifically focus on Malay Malaysians who are Muslims and occupy 69% of its population (referred to as Malaysians hereafter).

Islam is the dominant religion in both of these countries, but they have different ethnic, socio-economic, and historical backgrounds. Because an individual uses one's local culture as the lens through which imported culture is received, Indonesians and Malaysians who encounter Korean cultural products are affected by their own local cultures [17]. In this regard, shared and different responses on Korean cultural products between the two cultures are anticipated, even though the two countries are neighbors in the Southeast Asian region and have the same religion. These results will

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further enable us to identify the roles of a nation's ethnic, socio-economic, and historical backgrounds in cultivating or inhibiting cultural hybridity. Specifically, the present research presents two research questions as follows.

Research question 1. What are the similarities and differences in the social media discourse on the Korean Wave between Indonesians and Malaysians?

Research question 2. What factors contribute to promoting or impeding cultural hybridity based on the findings of the similarities and differences in the social media discourse on the Korean Wave between Indonesians and Malaysians?

The present study will contribute to the existing literature on cultural hybridity by identifying the national characteristics that promote or inhibit cultural hybridity in the context of the hybridization of the Korean Wave with Muslim culture by comparing of Indonesian and Malaysian social media data on the Korean Wave. This study will also reveal how semantic network analysis using discourse on social media is useful for cross-national studies on cultural hybridity. Furthermore, this study will have practical implications for local consumers, educators, policy makers, and the entertainment industry regarding how to pursue constructive cultural hybridity, which is inevitable in globalization. We expect that the findings of this research will help both cultural-product importing and exporting countries that are impelled to exchange their culture by highlighting the importance of understanding each other's backgrounds.

The rest of the present study begins with reviewing the literature on cultural hybridity, the Korean Wave, and the general cultural backgrounds of Indonesians and Malaysians. After explaining the research methods, a results section is provided. Then, the first and second research questions are probed in the discussion section. This article concludes with theoretical and practical implications related to promoting cultural hybridity by respecting each contributing culture.

2. Literature Review

2.1. Cultural Hybridity in the Era of Globalization

The concept of culture is complex and can be defined in broad or narrow terms [18]. The UNESCO Universal Declaration of Cultural Diversity provides a broad definition of culture as a "set of distinctive spiritual, material, intellectual and emotional features of society or a social group, and that it encompasses, in addition to art and literature, lifestyles, ways of living together, value systems, traditions and beliefs" [19] (p. 12). Because we focus on the Korean Wave, the definition of culture is narrowed to include cultural artifacts, heritage, and the shared knowledge of social groups or countries [20].

Since the twentieth century, cultural hybridity has been noted across various disciplines, such as sociology, anthropology, and history, especially in studies on migration in urban contexts [21]. From a postcolonial critique perspective, hybridity has been investigated as an expression of the power relations between the periphery and the center [5]. According to Kraidy's [5] conceptualization of cultural hybridity, the continuous dynamics that occur in the cohesion and dispersal of culture are what is captured in communication across countries. His concept of cultural hybridity underlines the cultural, economic, and political forces that drive culture to become hybridized. Therefore, based on Kraidy's [5] conceptualization, we consider cultural hybridity in the international context as transforming one's culture into a new culture based on an active exchange between cultures that is influenced by national backgrounds [22].

In the era of globalization, cultural hybridity is considered a by-product of the transcultural dynamics between local and global context [6], which are accelerated in the form of glocalization, in which globalization is combined with localization through the process of constant change, adaptation, and convergence [6,23]. Specifically, accepting heterogeneous culture by globalization is facilitated by the movement of cultural products across regions [4,24]. When consumers consume imported cultural

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products, such as foreign music and visual content, the foreign culture embedded in these cultural products is introduced to another culture. In this process, the imported cultural products contribute to producing a hybridized culture by creatively adapting to the local culture [25]. The hybridized culture then develops according to the recipients' tastes, values, and needs [26]. At the same time, it keeps the local cultural ethos alive [3]. For example, several Korean cultural products have been produced via a hybridization between Korean culture and Western culture. Through diffusion to other Asian countries, such as Japan, China, and Taiwan, this process also facilitates the cross-fertilization of pop culture of these other countries [4]. Therefore, glocalization and the resulting cultural hybridization produce more diverse cultures through the exchange of cultural products [23].

To build a constructive novel hybridized culture by adapting the imported culture to the local culture, the requirements for the recipients do not entail an uncritical reception of imported culture or ethnocentrism but instead involve accepting non-exclusive and non-judgmental notions of culture [27]. To protect a country's traditional heritage, the inflow of foreign culture provokes reactionary movements to reduce ethnic or religious diversity [28]. Ethnocentrism, which is a lack of acceptance of cultural diversity and an intolerance for outgroups, has a strong tendency to lead to negative stereotypes, negative prejudices, and negative behaviors towards other cultural group members [29,30]. This tendency is based on differences in culture, language, religion, family structure, and the clothes worn or the food eaten [31]. Because ethnocentrism is involved in the xenophobic rejection of external influence, it interrupts intercultural communication. Therefore, it is vital to acknowledge the principle of 'learning to live together' by promoting the peaceful co-existence of cultures rather than homogenization or cultural imperialism [11,32].

2.2. Diffusion of the Korean Wave as Cultural Products

The Korean Wave, or the Hallyu, refers to the popularity of Korean cultural products, such as drama, movies, and popular music (K-pop) and was first used as a term in China during the 1990s [9]. Cultural products are visible and invisible commodities where cultural elements are accumulated and create economic value [1]. The recent Korean Wave is considered an aspect of cultural globalization because Korean cultural products have successfully entered into various countries and dominated global pop-culture markets [33].

The success of the Korean Wave is attributed to the increasing transnational and hybrid aspects of pop culture [8]. It is acknowledged that the Korean Wave carries the unique cultural products that adapt Western pop culture, mixed with Asian culture but packaged in a modern way [2,33]. For example, K-pop artists are popular in European countries because of their polite attitudes towards their fans, which are based upon Confucian values, making fans feel respected [23]. At the same time, the lyrics of K-pop songs mix both Korean and English, which enables global audiences to easily access the songs [23]. Analyzing the success of K-pop, Seo [34] adopted Griswold's [35] cultural diamond model, which notes four key points that are helping to globalize K-pop: preparation, content, delivery, and consumers. For the preparation point, Korea's major management agencies have developed and applied systematic training management systems to take their artists overseas. From a content perspective, K-pop artists have a talent to fascinate their music fans by captivating them with melodies adopted from a western style popular music. In addition, the artists wear unique fashions and styles. For delivery, K-pop management agencies utilize social media for worldwide exposure and promoting their artists. K-pop fans, who are mostly young, enjoy K-pop content delivered through social media using smart devices.

Korean drama has gained popularity in the Asian region since the early 2000s due to its beautiful cinematography, original soundtracks, romantic storylines, and Confucian values [9]. For Confucian values, Korean drama usually presents a traditional patriarchal system with respect for elders, which are cultural foundations in China and Japan [10]. These dramas also attract audiences because of the exoticness preserved in their visual elements, such as costumes [36,37]. The costumes and styles in Korean movies also depict Western trends but are distinguished from those of Hollywood movies [3].

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Cultural products deliver a nation's perception of its own identity [2]. In this regard, the Korean Wave can expand the possibility of distributing Korean culture at a global level by transcending the limits of national borders and reconstructing their country's image [9]. This phenomenon increases the familiarity and favorability of Korean culture, such as the character of its people, Korean heritage, the Korean language, and the lifestyle of the Korean people [2,38]. Specifically, Korean drama and K-pop highlight Korean fashion, food, language, and games [39,40]. Hsu [39] found that the motivation to purchase clothing among young female Taiwanese individuals is affected by the presentation of fashion in Korean dramas. Jeong [40] showed that a preference for Korean drama and K-pop induced a preference for Korean fashion and food. Moreover, recipients of Korean cultural products consume them as a means to assess and critique their own circumstances [41]. This implies that these cultural products allow their recipients to access foreign culture to compare and criticize their own culture.

Research found that the reception of Korean cultural products extensively influences and enriches the importing countries' cultures, especially in Asian countries [33,42,43]. Kim [42], who studied the influence of the reception of Korean drama on Southeast Asian countries, revealed that the Korean culture presented in these dramas becomes integrated into the recipient's personal life. For example, watching a Korean drama visualizes the daily life of a family, and the recipients follow the Koreans' lifestyle presented in the drama. In addition, the reception of Korean cultural products affects the formation and management of the local cultural products of the host countries. For example, after the introduction of K-pop to Indonesia, the Indonesian music industry has learned from the growth factors of K-pop to help develop its local cultural content [2]. The Indonesian music industry has been increasingly crowded with local boybands and girlbands that emulate K-pop artists, which has resulted in the emergence of I-pop [33]. These Indonesian groups sing and dance in a K-pop style, but their songs are in Indonesian [11]. In addition, a few Korean dramas (e.g., Coffee Prince and Boys Over Flowers) and their theme songs were remade in Malaysia, thereby demonstrating the influence of Korean cultural products in the Malaysian entertainment industry.

Fans of Korean culture assume an important role in the process of recreating local culture. Such fans are considered active participants with their own ability to decode Korean culture and build their own cultural content with high levels of attachment [2]. Due to their special interest in Korean culture, these fans participate in online forums and gather information about their favorite artists to share to others. These activities are extended to sociocultural events, such as donating to charity and volunteering in emergencies to enhance their star's image [2].

Moreover, the Korean Wave rapidly diffuses through online media, such as Facebook and Twitter, which enable recipients of the Korean Wave to participate in creating secondary content, such as fan fiction and dance clip covers [40]. Recently, YouTube has provided a unique ecosystem for cultural diffusion by giving its users a means of collective viewing, commenting, and fostering an online community based on the peer interactions related to video clips [43]. These media facilitate the transnational circulation of Korean cultural products in countries with a lack of cultural affinity or geographical proximity to Korea, such as Latin America [44]. Hybridized cultural content also appears in Europe. European fans show off their own dances combining K-pop's style with that of their own countries in related competitions [23].

2.3. Indonesian and Malaysian Culture

Indonesia and Malaysia are two of the closest neighbors in Southeast Asia and share many similarities. These countries use similar languages, and both are Muslim countries [45]. They both employ more-or-less the same language, Bahasa (i.e., Indonesian Bahasa and Malaysian Bahasa), but both countries feature slight differences in their grammar, pronunciation, vocabulary, and spelling. They can understand each other as their languages are mutually intelligible [45]. Moreover, people aged 15–24 account for 16.76% and 16.74% of the total population in Indonesia and Malaysia [46]. People in these age groups are "digital natives" who are widely exposed to the Internet and social media [33].

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The religion Islam acts as the core of both Indonesian and Malaysian identity, forming the normative and cognitive behaviors of the two countries [47]. Although there are diverse religions in these countries, Islam has an extensive influence on Indonesian and Malaysian cultures because people are expected to follow some Islamic rules regardless of their religion. Muslim consumers are known to have a strong connection to each other even though they come from different social statuses and countries [45]. For example, they are not allowed to eat pork or drink alcohol. One of the important concepts that influences Muslims is Halal, which means "something permissible by Islamic law", [48] and especially concerns food consumption. Muslims are permitted only to consume Halal foods that follow Islamic principles in the process of manufacturing, preparing, packaging, and distribution [49]. Indonesia and Malaysia developed their own Halal certification systems. Furthermore, they follow Islamic values in their advertising: the use of sexual appeal, deceptive promotions, or advertisements that exploit or provoke the basic instincts of consumers is strongly discouraged [50]. Islam also influences consumers to consume and spend moderately and ethically [51,52].

However, the two countries are different in their ethnicities, economic indices, and attitudes towards foreign products. Although the population of Malaysia is a ninth of Indonesia's population, Malaysia has a 2.5 times larger GDP per capita than that of Indonesia [47]. Both Indonesia and Malaysia are multicultural countries, but they show differences in their ethnic policies. Indonesia pursues 'unity in diversity,' but Malaysia is more likely to distinguish and preserve each ethnic group [47]. More than 300 ethnic groups construct the Indonesian population, the largest of which is Javanese, who occupy 40% [53]. The government has tried to overcome the ethnic division since 1945, when Indonesia gained independence from the Dutch [53]. Moreover, Indonesians are united as Muslims, as almost 90% of Indonesians believe in Islam. This united identity has resulted in ethnocentrism, which has led Indonesian consumers to refuse foreign brands to protect the local economy [45,47].

On the other hand, Malaysia consists of three major distinctive ethnic groups: Malay (62%), Chinese (22%), and Indian Malaysian (7%). After independence from the British in 1963, the Malaysian government struggled to overcome the economic inequality between Malay and Chinese Malaysians. The government developed a radical solution of implementing affirmative programs, called the New Economic Policy, in 1969 [54]. This socio-economic policy favored the Malays, referred to as Bumiputra, over non-Malays, especially over the Chinese who occupied the majority of the country's wealth, to enhance the Bumiputras' social status over others [47]. Bumiputra includes Malay Malaysians, indigenous people such as the Iban and Kadazan (in Borneo), the descendants of Portuguese Eurasians in Melaka, and a few other minority groups, although Malay Malaysians comprise the majority of the Bumiputra [55]. The government developed this socio-economic policy because the Malays feared that their political power was being threatened by the Chinese [54]. Due to these policies, the distinctiveness between the ethnic groups has been accentuated, leading to coexistence among the groups, rather than a mix [47]. On the other hand, in 2009, the government introduced the concept of '1Malaysia' to accept the differences within the country and develop a more inclusive national image [56]. Although the government has since promoted various national unity programs and moderated the Malay-centric policies of the New Economic Policy, there remains skepticism towards these measures, which have not appeased all ethnic groups. Right-wing Malay Malaysians believe that these revised policies undermine their rights, while some non-Malays have regarded them not as a genuine effort of the government to unite the various groups but as a political ploy to win votes, leaving many challenges for resolving the distinctiveness between the groups [54,56,57].

2.4. Reception of Korean Cultural Products in Indonesia and Malaysia

Although Korea, Indonesia, and Malaysia are located in Asia, few cultural interactions have occurred between these countries. Compared to China and Japan, Indonesia and Malaysia are geographically distant from Korea, which has hindered active diffusion of Korean cultural products [16]. The linguistic and religious differences between Korea and Southeast Asian countries have also produced cultural difference among them [16]. The differences in religion can especially intensify

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cultural differences because a shared religious identity has a formative role in shaping how people think, feel, and behave [58]. Furthermore, the political, economic, and historical exchanges between Southeast Asian countries and Korea have been scarce [42]. Therefore, the Korean culture transmitted by Korean cultural products has been novel to Indonesian and Malaysian consumers.

The popularity of Korean cultural products began to increase in Southeast Asia starting in the 2000s. Korean drama is the driving force of the Korean Wave in this region. More recently, K-pop has experienced an elevated importance in Korean pop-culture. This popularity has facilitated the purchasing desire for, and quality satisfaction of, various Korean products featured in movies or dramas, such as cars, mobile phones, and electrical home appliances [1].

Several studies on the Korean Wave determined how Indonesians and Malaysians accept and respond to Korean cultural products. Using the Q methodology, Suh et al. [12] developed four perspectives on the Korean Wave of its Asian recipients (including Japanese, Chinese, Vietnamese, Thai, and Uzbek): (1) economic perspectives, (2) cultural appropriators, (3) ethnocentric perspectives, and (4) global perspectives. Recipients within the economic perspective focus on the economically and culturally positive impact of the cultural Wave in their own countries. These recipients believe that the Korean Wave enriches their own culture. Cultural recipients are more involved in the Korean Wave and are active recipients of the Wave. Their interest in the Korean Wave expands to other aspects of Korean culture, such as food, language, and traditions. On the other hand, recipients with an ethnocentric perspective perceive the Korean Wave as a temporary phenomenon with poorer quality than their own culture. Lastly, recipients with a global perspective focus on the success of the Korean Wave. They attribute its success to the systematic support of the Korean government. In addition, they note the economic power of Korea in Asia, who admire Korea's fast-growing economy but only passively accept the country's cultural products.

Jeong [40] focused on Indonesian consumers and found that they positively accept Korean dramas, K-pop, Korean fashions, and foods as they acknowledge the similarities between Korean content and Indonesian content. At the same time, a discriminatory perception between these two types of content also exists, which contributes to both the positive and negative attitudes of Indonesians aged 10–39 during the Korean Wave [40]. Anwar and Anwar [33] showed that some young Indonesians negatively perceived other young Indonesians' admiration of Korean culture because they considered such admiration to have negative impacts on the development of their own cultural products, such as Indonesian music, TV drama, and film [33].

On the other hand, Ruslan and Latif [59] addressed how Malaysian women enjoy Korean drama. Focusing on individuals who read media-based texts according to their sociocultural backgrounds, the authors found that Malaysian women found various meanings in Korean drama, such as a male-centric dynamic, parasocial relationships, and a cosmopolitan lifestyle and family. Khai and Wahab [60] suggested that the beautiful men appearing in Korean drama are one of the reasons that Malaysians sustain a high level of consumption of Korean dramas. Cho and Jang [61] also demonstrated the diverse responses of Malaysian consumers. The authors identified that some Malaysians recognize that well-organized storylines and trendy fashions contribute to the popularity of Korean movies. However, the interviewees older than 40–49 were worried about a crisis in their local culture due to the Korean Wave. These consumers worried that their local industry would retreat because of Malaysian youths following Korean culture [62].

A review of the literature indicates that although numerous studies have examined how the Korean Wave has been received by Indonesian and Malaysian consumers, the majority of these studies have employed qualitative method interviews conducted in a single country. This calls for cross-national research using social media data to identify the roles of a nation's ethnic, socio-economic, and historical backgrounds in promoting or prohibiting cultural hybridity.

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2.5. Social Media Use

Social media refers to a collective category of Internet-based applications that enable the creation and exchange of user-generated content; such applications include Facebook, Twitter, blogs, Instagram, and other online communities [63]. These media deliver information online about products or services, spreading the information beyond traditional offline media [13].

The literature on social media use has demonstrated that people use social media to fulfill their various individual needs [64]. People use these media for not only practical motivations (e.g., obtaining useful information [65,66]), but also for their psychosocial wellbeing, such as gaining affection [67,68], emotional intimacy [69], and building strong interpersonal relationships [70,71]. The social media also provide an avenue for establishing online brand communities where consumers interact with each other over a specific brand, satisfying social and hedonic needs for social enhancement and playfulness [64]. In addition, Alhabash and McAlister [72] revealed that the self-expression of one's identity motivated people to use Twitter.

Large amounts of user-generated data on social media reflect public opinion, thus offering accurate insights into the public mind [73]. Previous research has included the use of these opinions to discover topics in various contexts, such as global warming concerns [74], rumors surrounding public events [73], mental disorder experiences [75], and comments on gender issues [76]. Because social media users tend to share freely their opinions about their product experiences in the media [77], the user-generated opinions on these media would also be useful for examining the diverse and genuine responses on Korean cultural products. To this end, we have conducted cross-national research to identify how a nation's background facilitates or inhibits cultural hybridity by using consumers' opinion on the Korean Wave from Indonesian and Malaysian social media.

3. Research Methods

3.1. *Data*

The research process is presented in Figure 1. This study collected consumers' opinions through cooperation with Zanroo, a local marketing company in Malaysia. Zanroo is the first company in Southeast Asia to provide market insights with comprehensive social media data [77] and is an ISO/IEC 27001:2013 certified company, where ISO/IEC 27001:2013 is an internationally recognized standard for information security [78]. Data obtained from posts on Indonesian and Malaysian social media, specifically Facebook, Twitter, and online communities, in the period between November 2018 and July 2019 were crawled using "Korean Wave", "K-pop", "Korean drama", and "Korean movie" as keywords. As a result, 51,340 postings from Indonesia and 46,513 postings from Malaysia were obtained.

The data needed to be translated because they were written in the local language of each country. We used Google Translator for our primary translation into English. By adapting the Recurrent Neural Network to improve the translation system, Google Translator has been noted for its low translation errors and high level of accuracy that almost matched that of bilingual human translators [79,80]. Then, an Indonesian translator who is proficient in both Indonesian and Malaysian corrected errors by comparing the original documents with the translated versions and transformed abbreviations and slang into formal words.

To clean the data, we conducted automated text classification with supervised machine learning to exclude documents irrelevant to our topic to minimize the amount of labor needed to classify the documents [62]. In the supervised machine learning, a small portion of documents is randomly sampled from an entire dataset. Researchers manually annotate these sample documents with numeric values according to a predetermined categorization scheme to represent classes of each document. Subsequently, the sampled documents are divided into training and test datasets. A machine learning algorithm is trained using a training dataset and their correct classes to derive the classification rules [81]. These rules are applied to the test dataset of which classes are also known through the hand coding conducted by the researchers. To evaluate the performance of this computer classifier,

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its predicted classes and the correct classes of the test dataset are compared. The well-performed rules are used for the automated classification of the remaining dataset, whose classes are unknown. The known category classes of training and test datasets are provided by a human coder with contextual knowledge, and a trained computer classifier is treated like any human coder [82].

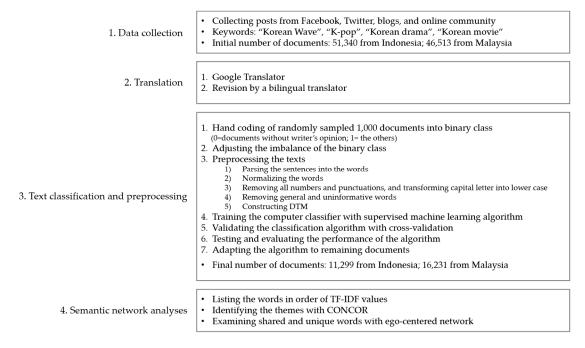


Figure 1. Overall process of the analysis.

According to this procedure, we randomly sampled 1000 documents from each country's data set. Two researchers labeled the documents under two classes: 0 = documents that do not include the writer's opinion on Korean cultural products (e.g., "Indomaret is now playing a BTS (a name of Korean idol group) song" and "Because of my exam, I rarely focus on BTS"); and 1 = the others. After hand coding, the labels were cross-checked by the researchers to enhance the reliability of text classification. Mismatched labels between the coders were revised under discussion. In total, 252 Indonesian documents and 162 Malaysian documents (out of the 1000 sampled documents) were labeled as 1, thus representing an imbalanced data set. The performance of machine learning algorithms deteriorates when the classes are not approximately equally represented [83]. In this case, such algorithms tend to classify unlabeled documents as the dominant class, resulting in a low level of classification accuracy. To address this issue, SMOTE (Synthetic Minority Over-Sampling Technique) [83], which creates extra documents in a minority class by over-sampling, was used. Using this approach, we adjusted the imbalanced dataset to have equally proportional classes; 50% of sampled documents were then labeled under each class.

To construct the training set and test set, we divided the balanced data set 80:20 (training set:test set). Then, the texts of each set were preprocessed through the following steps. First, they were parsed into words. Second, the parsed words were normalized with lemmatization to transform the words into their basic forms. Third, all numbers and punctuations were removed from the data, and capital letters were transformed into lower case. Fourth, stop words that contained general terms, such as "a", "the", and "some", and uninformative terms, such as the adverb "very" and the verb "do", were removed. After preprocessing, a document-term matrix (DTM) was constructed. Each row of the matrix presents a document whose column indicates a single term, which demonstrates the appearance frequency of the terms within a document.

After preprocessing, we trained a classifier model with the DTM using a support vector machine, which is known to be highly efficient at text categorization [84]. Because the performance of the

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classifier model could vary across different data contexts, 10-fold cross-validation was conducted to validate each classifier's accuracy [62]. This process partitioned the data set into ten equal folds, with a fold reserved for testing and the other nine folds for training the classifier model. This process was repeated ten times for every fold that was used as a test datum.

The model automatically classified the test dataset, which included the remaining 20% of the balanced data, and the performance of the model was then evaluated. Accuracy is the performance measure generally associated with machine learning [83]. Accuracy is defined as the number of correctly classified documents out of the entire range of documents. Our models for each country showed classification accuracies of 92.27% (215 documents correctly classified out of the 233 documents in the test set) for the Indonesian data and 88.39% (137 documents correctly classified out of the 155 documents in the test set) for the Malaysian data.

To classify the remaining unlabeled documents, we constructed a DTM of these documents with the same preprocessing procedure. Then, the classifier models were applied to the unlabeled DTM and automatically tagged a binary code (i.e., a 0 or 1) to the remaining documents. As a result, 11,299 and 16,231 documents that were labeled as 1 from the Indonesian and Malaysian data, respectively, were extracted for further analyses. R programming was used for the automated text classification, preprocessing of the texts, and constructing the DTM.

3.2. Semantic Network Analysis

Semantic network analysis is a technique that treats words as nodes and their semantic relationships as lines (i.e., links) between the nodes to identify key themes and framing patterns in the texts [15]. A link between two nodes can present how frequently a pair of words co-occurs in a document. Semantic network analysis focuses on the relational structures of shared meaning in a text by examining the associations between the prominent words of a message [85]. This analysis started by constructing a co-occurrence matrix of the words based on DTM. DTM is a matrix that contains words listed in columns and documents listed in rows, demonstrating the frequency of each word's appearance in the documents. A co-occurrence matrix of the words, comprising words on both row and column, presents the co-occurrence frequency of word pairs and is produced by multiplying the transposed DTM and the original one.

To select the words to be studied, we applied the term frequency–inverse document frequency (TF–IDF) technique. The higher the frequency of a word and the lower the number of documents containing the word are, the higher the TF–IDF value the word has [86]. A word with a low TF-IDF value shows that the word is common across the data but has no distinguishable influence between the documents. We calculated the TF–IDF of each word by multiplying the frequency of each word and inversed document frequency. Then, we listed the words by descending order of absolute frequency and TF–IDF value. We then chose the words that appeared 80 times in each country's data and eliminated words with TF–IDF values lower than 60. This yielded 116 words in the Indonesian data and 125 words in the Malaysian data.

In the network analysis, the prominence of words was evaluated with the degree centrality of each word. Degree centrality measures how a node is related to other nodes [86] and is effective for identifying the important words in a network [87].

Convergence of iterated correlations (CONCOR) was used to identify semantic clusters and discover hidden themes in each country's data [15]. This method divides nodes into groups based on structural equivalence, which is determined by the extent to which the words have identical relationships with other words [15]. The themes and subthemes of each group were determined by the words within the group [86], and their meanings were interpreted with reference to the links of the words and the documents that contain the words [88].

In addition, we used an ego-centered network to examine the differences in the discourse surrounding the main keywords in Indonesia and Malaysia. This network allowed us to focus on an individual node (i.e., ego) and to interpret the relationship between the ego and other words [89].

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The CONCOR analysis and ego-centered network were conducted using UCINET6 [90], which is a commonly used software for network analysis [87]. NetDraw with UCINET was utilized to visualize the networks.

4. Results

4.1. TF-IDF and Degree Centrality

We found that the frequently appearing words related to the Korean Wave in Indonesia and Malaysia (see Appendix A: Tables A1 and A2). In both countries, words related to Korean popular music (K-pop), such as "idol", "song", "music", and "concert", appeared to be high. Popular K-pop groups ("BTS", "Blackpink", and "SuperJunior") along with the name of the related fandom ("Army") appeared in both countries with high frequency. Words representing the positive attitudes and feelings towards the Korean Wave, such as "interested" and "good", were also highly ranked. Relatively fewer words were found for Korean dramas and movies, such as "drama" and "actor", compared to the words related to K-pop, showing that online discourse about K-pop is more active than discourse about dramas and movies in both Indonesia and Malaysia.

Generally, words with a high TF–IDF showed high centrality values; however, some notable words presented a high TF–IDF with low centrality. This indicates that such terms may be linked to specific words in the network, rather than to diverse terms. For example, Indonesians may be interested in the "hair" of Korean artists and "merchandise", which are products related to popular artists (see Appendix A: Table A1). Similarly, "Malay culture" and "pig" are notable in terms of their low centrality compared to their high TF–IDF rank (see Appendix A: Table A2). This suggests that Malaysians use these terms to address some issues related to the Korean Wave, which will be further examined.

4.2. CONCOR

Figure 2 presents the CONCOR results indicating the themes of discourse for the Korean Wave in Indonesia. Eight themes and embedded subthemes in each theme were determined with reference to the links between the terms within a group and the documents that contain those terms, as follows:

- (1) Korean entertainment industry
 - Talented K-pop artists from Korean entertainment agencies;
 - Distinct characteristics of K-pop artists from different Korean entertainment agencies;
 - Interest in the appearance and fashion of K-pop artists;
 - Beauty standards reflected in the Korean entertainment industry.
- (2) K-pop songs
 - Learning Korean language from K-pop song lyrics;
 - K-pop is a personal musical taste.
- (3) K-pop concerts
 - Expensive ticket prices.
- (4) K-pop merchandise
 - Excessive expenditure on K-pop merchandise.
- (5) Conflicting opinions between fans and anti-fans of K-pop

Fans

K-pop provides life motivation;

- Pride in the international popularity of one's favorite K-pop artist(s);
- K-pop is a worldwide trend;
- It makes people happy to listen to K-pop songs.

Anti-fans

- K-pop artists are too girlish;
- K-pop artists are ugly;
- K-pop artists have many plastic surgeries;
- Being ashamed of fanatic K-pop fans;
- It is tiresome to listen to K-pop songs.
- (6) egative opinions involved with religion
 - Korean Wave content is against religion.
- (7) Styles of Koreans
 - Interest in hairstyle and color;
 - Positive opinions about pretty and handsome faces.
- (8) Korean dramas, movies, and variety shows
 - Exciting scenes in Korean dramas and movies;
 - Interest in Korean food presented in Korean dramas, movies, and variety shows.

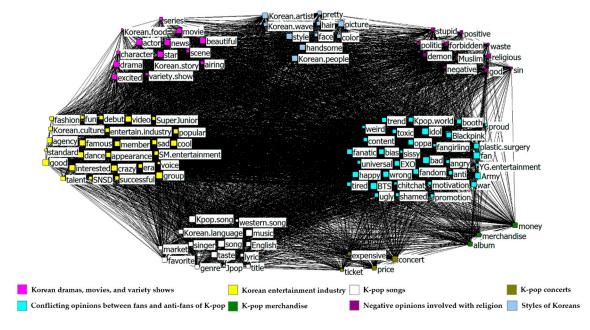


Figure 2. Convergence of iterated correlations (CONCOR) results of Indonesian discourse.

Figure 3 demonstrates the themes of discourse on the Korean Wave in Malaysia through CONCOR. There are eight themes and subsequent extracted subthemes, as follows:

(1) Conflicting opinions between fans and anti-fans of K-pop

Fan

• K-pop is great;

- K-pop artists are talented;
- It makes people happy to listen to K-pop songs.

Anti-fans

- Fanatical K-pop fans are stupid;
- K-pop is noisy;
- K-pop artists have many plastic surgeries;
- It is tiresome to listen to K-pop songs.
- (2) Korean dramas and movies
 - Positive opinions about actors' beautiful and handsome appearances;
 - Interest in Korean food presented in Korean dramas and movies.
- (3) K-pop songs
 - Learning Korean language from K-pop song lyrics;
 - Watching videos of K-pop artists;
 - Comparing K-pop songs with local songs.
- (4) Styles of Koreans
 - Interest in hairstyle;
 - Popularity of short length of clothing.
- (5) Negative opinions involved with religion
 - Korean Wave content is entertainment and against religion;
 - Criticism about Korean Wave fans who consume related content during Ramadan.
- (6) General negative opinions on the Korean Wave
 - Inappropriate fashion styles of Korean artists;
 - Worried about the potentially negative influence of Korean artists on Malaysians;
 - Korean artists are too girlish.
- (7) Economic issues
 - Excessive expenditures on K-pop merchandise;
 - Criticism about wasting the national budget to bring foreign cultural content to Malaysia.
- (8) Conflicting opinions on the reception of the Korean Wave
 - The Korean Wave will undermine the Malaysian culture that has to be inherited by the youth;
 - The Korean Wave will bring economic benefits because it will attract tourists from neighboring countries.

The themes derived from CONCOR indicate that Indonesia and Malaysia share several similar issues regarding the Korean Wave. Various topics related to K-pop appear in both countries, indicating that the most commonly consumed Korean Wave content in these countries is related to K-pop. Indonesians and Malaysians learn some Korean language when they enjoy the lyrics of K-pop songs, as shown by the theme of K-pop songs in both countries. These terms also relate to excessive expenditures on K-pop concert, such as "concert", "ticket", and "merchandise" via the theme of K-pop concerts in Indonesia and the subtheme of Economic issues in Malaysia. Further, in both countries, one theme that appears to include Conflicting opinions between fans and anti-fans of K-pop was extracted,

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containing words such as "fan" and "anti"—words not only illustrating devotion to K-pop stars, such as "happiness", but also expressing negative attitudes toward these stars, such as "plastic surgery" or "tired". Fans feel happiness when listening to K-pop songs, while anti-fans feel tired by the songs. Anti-fans of K-pop also point out that K-pop artists often have many plastic surgeries (e.g., "Plastic surgery is a common word now to describe Korean idols."). Thus, we called this theme *Conflicting opinions between fans and anti-fans of K-pop*. On the other hand, both Indonesians and Malaysians experience Korean food through visual content, such as dramas and movies, as found in the theme of *Korean dramas, movies, and variety shows* in Indonesia and the theme of *Korean dramas and movies* in Malaysia. In addition, as shown in the *Style of Koreans* themes in both countries, not only females but also males mention the Koreans' beautiful appearance and hairstyle (e.g., "The girl (Korean artist) was really beautiful, and her hair was soft" and "He wants to look like a Korean idol, so he should try the natural hairstyle that is popular in Korea").

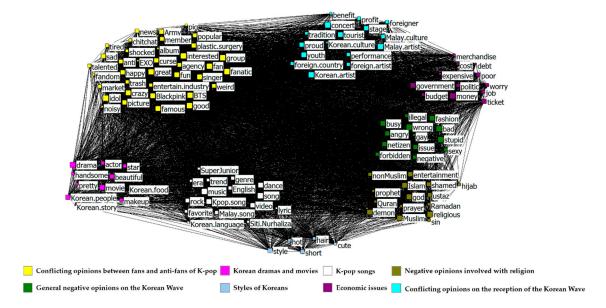


Figure 3. CONCOR results of Malaysian discourse.

However, some differences in discourse on the Korean Wave were discovered between Indonesia and Malaysia. Only the Malaysian network includes a theme that indicates opinions about reception of the Korean Wave (Conflicting opinions on reception of the Korean Wave), suggesting that Malaysians tend to be more sensitive to accepting foreign cultural content. In addition, several shared words are found between these two countries but belong to different themes. For example, "fashion" belongs to the Korean entertainment industry in Indonesia, while it is included in Negative opinion involved with religion in Malaysia. Some Malaysians perceive the Korean Wave as forbidden and criticize the inappropriate costumes of the Korean artists. "Korean culture" is found in the Korean entertainment industry theme in Indonesia, but the same word was classified under the theme of Conflicting opinions on reception of the Korean Wave in Malaysia. This shows that Indonesians consider the Korean entertainment industry to represent Korean culture. On the other hand, there is debate surrounding the reception of Korean culture among Malaysians. For example, Malaysians mention that accepting Korean culture would bring economic "benefits" and "profit" to their own country, showing a supportive opinion of the Korean Wave. "Tradition" simultaneously appears in the same theme, which suggests a view that Korean culture deteriorates Malaysian tradition.

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4.3. Shared and Unique Words between Indonesia and Malaysia

Figure 4 compares the two countries on a lexical level. The words that connect to both "Indonesia" and "Malaysia" placed in the center of the figure indicate shared words. The other words are unique terms that appear only in the linked country.

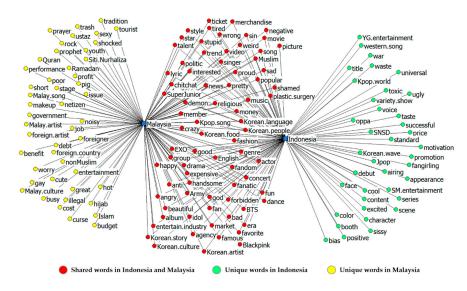


Figure 4. Shared and unique words appearing in Indonesian and Malaysian discourse.

Among the shared words, "trend" indicates that both Malaysians and Indonesians perceive the Korean Wave to be a worldwide trend (e.g., "K-pop songs are a trend all over the world"). Some consumers from the two countries consider the Korean Wave to be against "Islam." They use the word "demon" to condemn the content of the Korean Wave, reflecting religion as the cultural background that shapes consumer thought. Malaysians especially perceive the Wave as "entertainment" and a "sin" that should be avoided. Terms such as "Quran", "nonMuslim", and "ustaz" (a religious preacher in Islam) show that Malaysians consider the appropriateness of Korean Wave content consumption from a Muslim perspective (e.g., "An ustaz can help (Malaysian) youth (who are) active in Korean music and dance in the K-pop style"). Both Indonesians and Malaysians perceive Korean male artists to be too girlish, though their expressed words are different ("sissy" in Indonesia and "gay" in Malaysia).

The unique words from each country portray differences in the discourse on the Korean Wave in detail. For Indonesia, "YG entertainment" and "SM entertainment" demonstrate that Indonesians are interested not only in K-pop artists but also their agencies, such as the characteristics and training processes of each agency. "Booth" (which means supporting a certain artist), "bias" (which refers to a favorite performer), and "fangirling" clearly show that Indonesian fans enthusiastically support specific singers. They especially use the word "oppa", which is a phonetic spelling of 'older brother' in Korean. "Jpop" (Japanese pop music) and "Western song" show that Indonesians also consume popular songs from other countries and compare them with K-pop (e.g., "For me as a K-pop song fan, I don't condemn Western songs. Do not judge our music. It is just different in genre and style" and "(I think) Kpop songs have become a rival of J-pop."). Some Indonesian fans have been motivated to live passionate lives by K-pop artists (e.g., "Knowing BTS has motivated me and my zest for life"), which is not prominent among Malaysians. This shows that Indonesians are more emotionally involved with K-pop artists and that their affection for K-pop extends beyond listening to songs. Indonesians also watch Korean "variety shows", which shows that the Korean Wave is diffusing through not only songs and dramas but also through more diverse entertainment programs.

On the other hand, "pig" shows how Malaysians explicitly express negative opinions toward fanatic Korean Wave fans and their favorite artists (e.g., "People who worship K-pop are pigs. (It is)

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annoying me" and "I pray 5 times (a day). I do not want to be unclean like the idol and its fanatics. It is a pig"). Unlike in Indonesia, words representing local cultural products appear in Malaysian discourse. "Malay song", "Malay culture", and "tradition" demonstrate that Malaysians recognize the necessity of protecting their own cultural identity (e.g., "There are so many ways we can introduce Malaysia to the world. We should expand the program to introduce Malaysian culture and Malaysian tradition. Why should we be obsessed with foreign culture?" and "Where is the identity of a Malaysian citizen? Korean artists are against Malaysia values"). Moreover, "foreign artist" and "foreign country" in Malaysian discourse underline the people's perceptions of the boundaries between their own country and others.

4.4. Ego-Centered Network

Ego-centered networks depict the differences in issues raised in relation to keywords between Indonesian and Malaysian consumers. We selected "Korean culture", "Kpop song", and "drama" as the centered egos because they are the focal contents of the Korean Wave. These networks enable us to examine in what contexts the unique words of each country appear.

Figure 5 and Table 1 present the words linked to "Korean culture" in ego-centered networks. Words that link to "Korean culture" in Indonesia networks tend to focus on words related to K-pop, showing that Indonesians are likely to consider K-pop as the medium of Korean culture. Meanwhile, in the Malaysian network, words such as "tradition", "Malay culture", and "Malay artist" indicate that Malaysians compare their own cultural content with Koreans' and perceive the need to protect their own culture.

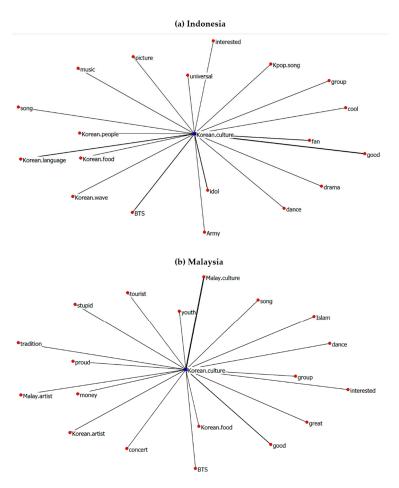


Figure 5. Ego-centered networks of "Korean culture".

Table 1	Words	linked	TAZİTA	"Koroan	culture"	in ago	-contarad	networks.
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	Words
Indonesia	good, idol, BTS, Korean.language, drama, dance, Army, Korean.Wave, Korean.food, song, Korean.people, music, picture, universal, interested, Kpop.song, group, cool, fan
Malaysia	Malay.culture, good , Malay.artist, song , Islam, dance , group , interested , great, Korean.food , BTS , concert, Korean.artist, money, proud, tradition, stupid, tourist, youth

Note: Bolded words are shared terms between Indonesia and Malaysia.

Regarding "Kpop song", Indonesians mentioned the various attributes of K-pop songs, such as "taste, "style", "title", "singer", and "lyrics" (see Figure 6 and Table 2). Also, "Western song" and "Jpop" show that Indonesians perceive K-pop as one of mainstream music genres that is internationally popular. In the Malaysian network, however, words such as "wrong", "shocked", "noisy", and "curse" indicate some of Malaysians' negative opinions of K-pop songs.

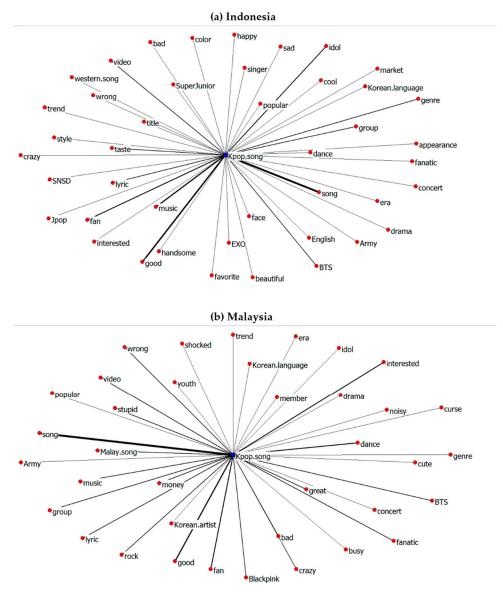


Figure 6. Ego-centered networks of "Kpop song".

Table 2. Words linked with "Kpop song" in ego-centered networks.

	Words
Indonesia	song, English, BTS, face, beautiful, EXO, favorite, handsome, good, music, interested, fan, Jpop, lyric, SNSD, crazy, taste, style, title, trend, wrong, western.song, video, SuperJunior, bad, color, happy, singer, popular, sad, cool, idol, Korean.language, market, genre, group, dance, appearance, fanatic, concert, era, drama
Malaysia	dance, genre, cute, BTS, concert, great, fanatic, busy, bad, crazy, Blackpink, fan, good, Korean.artist, money, rock, lyric, group, music, Army, Malay.song, song, popular, stupid, video, youth, wrong, shocked, trend, Korean.language, era, member, idol, drama, interested, noisy, curse

Note: Bolded words are shared terms between Indonesia and Malaysia.

Figure 7 and Table 3 show the words that co-occur with "drama". Words about the features of drama appear in Indonesia, such as "scene", "series", "genre", and "character". Some words related to songs are notable because they illustrate the importance of the original soundtracks of Korean dramas. This demonstrates that Indonesians enjoy not only the storylines of Korean dramas but also the theme songs. However, in the Malaysian network, words related to religion, such as "god", "religious", and "Islam", appear with "drama." Malaysians consider Korean drama to go against their religion (e.g., "There should be a great deal of worship (to God) in this month of Ramadan and not enjoyment of (Korean) drama" and "Many dramas have a screen (i.e., a scene) that is not religious. (Drama is) for entertainment once in a while but not always". At the same time, these individuals are interested in the actors' makeup and beauty (e.g., "(I) Like her because of her beauty. This drama is highly rated."), which indicates the conflicting viewpoints on Korean drama among Malaysians.

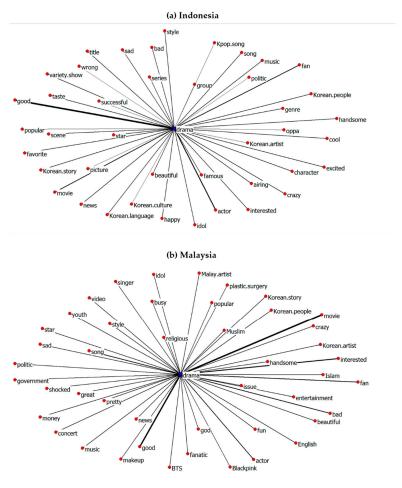


Figure 7. Ego-centered networks of "drama".

	Words
Indonesia	actor, idol, beautiful, happy, Korean.culture, Korean.language, news, picture, Korean.story, favorite, star, scene, popular, successful, taste, good, variety.show, wrong, title, sad, series, bad, style, group, Kpop.song, song, politic, music, fan, genre, oppa, Korean.artist, handsome, cool, excited, character, crazy, airing
Malaysia	good, news, makeup, pretty, music, great, money, concert, shocked, government, politic, sad, star, song, style, youth, video, singer, busy, idol, religious, market, popular, plastic.surgery, Korean.people, movie, crazy, Korean.artist, interested, handsome, Islam, fan, issue, bad, entertainment, beautiful, fun, actor, Blackpink, god, fanatic, BTS

Table 3. Words linked with "drama" in ego-centered networks.

Note: Bolded words are shared terms between Indonesia and Malaysia.

5. Discussion

In this section, we discuss the first research question concerning the similarities and differences in social media data on the Korean Wave between Indonesians and Malaysians by comparing the results of a semantic network analysis. Subsequently, we respond to the second research question related to the factors contributing to the promotion or impediment of cultural hybridity between the Korean Wave and Muslim culture by probing ethnic, socio-economic, political, and historical backgrounds that may have caused the results we obtained to answer the first research question.

Regarding the first research question, several topics were shared between Indonesia and Malaysia. Both countries consume various Korean cultural products, such as music, dramas, and movies, and perceive the Korean Wave as a worldwide trend. K-pop is the most representative type of content and the vehicle that carries Korean culture. The next similarity between the two countries is related to their interest in the appearance and hairstyle of Korean artists. Indonesians and Malaysians mentioned that Korean appearances are "beautiful", "pretty", and "handsome" and also noted their hairstyles. Furthermore, as found in previous studies [2,12,39,40], Korean cultural products, such as dramas, movies, and pop songs, play a significant role in expanding Southeast consumers' interests towards other types of Korean cultural products. Specifically, interest in Korean dramas and movies expanded to Korean food by visual representation, and the lyrics of K-pop songs encouraged people to learn the Korean language. Finally, there are similarities that suggests negative responses to the Korean Wave. Both Indonesians and Malaysians mention "plastic surgery", which shows that they perceive the faces of Korean artists to be unnatural. They also regard Korean male artists as too girlish, using different terms such as "sissy" in Indonesia and "gay" in Malaysia.

There are several differences in the social media data on the Korean Wave between Indonesians and Malaysians. Unlike Malaysians, Indonesians are interested in the Korean entertainment industry, often stating specific names of Korean entertainment agencies. Some Indonesians show enthusiasm for their favorite Korean artists, which is not found among Malaysians. Moreover, Indonesians are motivated to live more passionate lives by K-pop artists. This shows that cultural products are able to go beyond consumed products and influence personal lifestyles [33]. Although both Indonesians and Malaysians recognize K-pop as a worldwide trend, Indonesians particularly perceive it as a mainstream music genre equal to Western pop or J-pop.

On the other hand, Malaysians express negative opinions about the Korean Wave on religious grounds. Although words related to Islam also appear in Indonesia, Malaysians use more diverse words that portray a stricter view of Muslims, suggesting that the Korean Wave deviates from their religious standard. They even use "pig" to explicitly express their negative feeling towards fanatic fans and K-pop artists. This shows how the aggressive collective activities of fans can be a negative consequence of K-pop fandom, which is an obvious concern for the Korean entertainment industry as the popularity of the Korean Wave increases [2]. Further, Malaysians are concerned with damage to

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their own local culture due to the inflow of the Korean Wave. They are worried about the negative influence of the Wave on their traditional culture and on Malaysian youth.

Regarding the second research question, we identified the following factors that contribute to the promotion or impediment of cultural hybridity between the Korean Wave and Muslim culture. The first factor contributing to promoting cultural hybridity is 'Asian identity', which is reflected by Indonesian and Malaysian consumers' aspirations toward Korean artists' appearances, such as their hairstyles, as evidenced by the extracted words of "beautiful", "pretty", "handsome", and "hair" in this study. These words show not only their interest in the appearance of Korean artists and actors in the sheer pursuit of beauty but also a desire to mimic the appearance of Koreans, who they feel more communally connected to through an Asian identity compared to Western artists. Although Indonesia and Malaysia are distant from Korea, all these countries are located in Asia, which binds them in a sense of Asian identity. While American culture has entered these Asian countries with little resistance, there is an "emptiness" that this culture cannot fill due to its lack of cultural proximity [10,91]. Korean cultural products, especially drama, are known as to fill this "emptiness". For example, Asian values, such as harmony, family morals, and sacrifice, presented in Korean dramas generate sympathy among Indonesians and Malaysians [10,26]. These features may help Indonesians and Malaysians easily familiarize themselves with Korean culture, thereby facilitating acceptance of the Korean Wave and even desire for some elements of the Korean Wave, such as appearance.

The second factor that promotes cultural hybridity is policy that emphasizes 'unity in ethnic diversity'. The Indonesian government pursues a policy that reinforces the unity of over 300 ethnic groups under one religion. This may develop cultures that are more receptive to external cultures, affecting Indonesians to embrace outgroup cultures and incorporate them into their ingroups [92]. In other words, the policy of unity in ethnic diversity cultivates cultural hybridization more easily among Indonesians. In the present study, the enthusiastic supporting terms for K-pop artists, such as "booth", "bias", "fangirling", and "oppa", which appear only in Indonesian social media discourse, reflect the Indonesians' tendency to engage in cultural hybridization. Further, some Indonesians are motivated to live passionate lives by Korean artists. This indicates that the subjects are deeply involved with Korean cultural products and perceive them as something beyond consumed products by relating them to their personal lifestyles [33].

The third factor that facilitates cultural hybridity is 'local consumer xenocentrism', which is the tendency that consumers evaluate foreign products more favorably and accept them more easily than domestic ones [93]. The popularity of global pop trends in Indonesia has been attributed to their xenocentrism [94,95]. This tendency has been observed since the 1960s when Indonesia embraced various styles of western music and incorporated them into their local pop music [94]. Wallach [95] notes the Indonesians' xenocentric view of Western music as modern and elite and local pop music as inferior. More recently, cultural inflows from Japan, so-called J-pop, have hybridized with local cultural content in Indonesia [95,96]. This factor is manifested in the Indonesians' development of their own branded music groups called I-pop by emulating the Korean management system, which is attributed to the success of K-pop in international markets [11,33]. In the present study, unlike in the Malaysian case, it is portrayed as the extracted names of specific Korean entertainment management agencies from Indonesian social media discourse. Our data show that Indonesians are able to distinguish the different characteristics of major agencies to which popular K-pop artists belong. Therefore, it appears that Indonesian xenocentrism combined with the lucrative market potential of the area's large population has driven Indonesians and their entertainment industry to hybridize Western songs, J-pop, and now K-pop with their local pop music.

A xenocentric view, however, should be carefully taken into consideration for cultural hybridity because it entails the tendency to reject their own products, which deteriorates local cultural values [97], as illustrated in Tambunan [98]. Tambunan [98] observed that some Indonesian boy/girl groups are just copycat versions of K-pop groups, sometimes taking their mimicry to a different level by producing "made-in-Korea I-pop products", whose process includes sending out the winner of a reality "talent"

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show to undergo an eight-month training camp managed by one of the K-pop training agencies in Seoul, Korea (p.294). The goal of this process is to enhance the "Korean-ness" of the musical products (p. 294) rather than hybridizing K-pop with local music. We consider such copycat activities as the beginning of cultural hybridity, as we predict that Indonesians' xenocentric views on K-pop will ultimately involve concurrently valuing their own culture as evidenced by their hybridization with Western songs and J-pop.

Forth, the factor that impedes cultural hybridity is 'the conservative nature of religion'. The current study confirms that religion is an influential cultural background for individuals in this era of globalization, just as it has been in the past [45]. Although personal preferences, such as perceptions of the usefulness and enjoyability of cultural products, exert an influence on the process of decision-making [99], Islam provides normative standards for evaluating and accepting foreign culture among both Indonesian and Malaysian consumers. *Negative opinions involved with religion*, a theme derived from CONCOR in both countries, demonstrates that Islam is related to negative opinions about the Korean Wave in these countries.

In addition, we extracted words such as "sissy" and "gay" from both Indonesian and Malaysian social media data, suggesting that male K-pop artists are perceived as too girlish. Korean masculinity is known as "soft masculinity", which involves an alternative construction of male characteristics affected by global metrosexual masculinity and Japanese 'pretty boy' masculinity [60]. Thus, this is another outcome of the 'transcultural hybridization process', possessing a feminine visual appearance and lacking aggressiveness and sexual dominance over women [100]. Korean pop-culture has created the novel characteristics of male artists with soft masculinity, which has contributed to the success of K-pop [100]. However, the present study reveals the cultural dissonance between Korean soft masculinity and traditional masculinity in Indonesia and Malaysia, where the dominant form of masculinity is closely connected to physical masculinity and a male's position as the head of the family [100]; moreover, sexual relations between males are prohibited following Islamic laws [101]. Those with religious devotion thus view Korean masculinity negatively.

On the other hand, this study found that Malay Malaysians who are Muslims show a higher level of commitment to Islamic doctrines than Indonesians, as more Islamic concepts, such as "ustaz", "Quran", and "Ramadan", were extracted from the Malaysian social data. For example, Malaysians perceive that watching Korean drama should be avoided during Ramadan when people have to fast. Their commitment is also underlined by referring to a religious preacher ("ustaz"). Recently, an Islam preacher claimed that K-pop artists are dangerous because they promote anti-Islamic behaviors; the preacher encouraged Muslims to repent [102]. As a result, more negative perceptions on the Korean Wave were uncovered from Malaysian discourse than from Indonesian discourse, featuring terms such as "illegal" and reflecting the religious grounds of the boycott. Another example is the use of "pig", illustrating the Malay Muslims' severe critique of fanatic fans and Korean artists on religious grounds, as a pig is a strongly stigmatized animal in Islam. Religiously conservative Malaysians perceive the consumption of Korean cultural products as inappropriate behavior because these products violate religious rules.

Lastly, 'discrimination between ethnic groups' can hinder cultural hybridity, particularly when it is combined with the conservative nature of religion by provoking tensions between the ingroup and outgroup [103]. Generally, Malaysian social media discourse shows more negative opinions on the Korean Wave than Indonesian discourse. Malaysians showed various negative opinions (e.g., "noisy", "stupid", and "shocked" in the ego-centered network of K-pop song) in addition to positive ones. The Malaysian government implemented discriminatory policies between ethnic groups, such as the New Economic Policy in 1969, to enhance the socio-economic status of Malay Malaysians due to their economic deprivation compared to Chinese Malaysians. Although the government has subsequently promoted various national unity programs, introducing the motto of '1Malaysia' in 2009, the entrenched separation between ethnic groups has not been thoroughly resolved, leaving structural and informal inequity in Malaysian society [54,56,57]. Further, all Malaysians have to print

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their ethnicity (Malay, Chinese, Indian, or other minority groups) on their National Identity Cards, as well as on official forms, such as school forms and exams. Malaysian ethnicity is also closely related to religion: Islam for Malay Malaysians, Buddhism for Chinese Malaysians, and Hinduism for Indian Malaysians. Thus, each ethnic group with its own mode of religious devotion may have subtle tensions with the outgroups [103]. As a result, the distinctiveness between the ethnic groups is accentuated, and these groups coexist rather than mixing [47].

These historical, religious, and political circumstances can create an atmosphere that distinguishes the ingroups and outgroups between different ethnic groups [47]. Because government policy influences the risk perception of individuals [104], this atmosphere may lead Malaysians with religious devotion to perceive an importance of protecting the religion and culture of their ingroup, as reflected by the Malaysians' greater involvement in Islamic doctrine compared to Indonesians. Further, this tendency may be extended to having more reserved attitudes toward accepting cultures from outside national boundaries, as illustrated by the words "foreign artist" and "foreign culture" extracted from the only-Malaysian data. Malaysians, especially those with religious devotion, clearly perceive the Korean Wave as imported culture, i.e., an outgroup culture. In addition, we found a subtheme of negative opinions on the Korean Wave based on the young generation's deeper admiration of Korean culture than the local culture, represented in the theme of Conflicting opinions on reception of the Korean Wave in Malaysian discourse. Because the young generation tends to be the most active recipient of foreign cultural content and consumes cultural products mainly according to their tastes irrespective of the product's origin, cultural globalization is most visible among the youth [4]. Malaysians with religious devotion are concerned about the negative influence of the Korean Wave on Malaysian youths from the perspective of preserving their own culture. Historically and religiously provoked tensions between these Malaysians and outgroups [105] may condition them to perceive the Korean Wave as an invasion of Korean culture and claim that they should protect and promote their own religion and culture [61].

6. Conclusions and Implications

The present study attempted to gain insight into cultural hybridity by identifying the characteristics of Muslim countries that lead their people to receive or refuse foreign cultural products of the Korean Wave, based on comparisons of Indonesian and Malaysian social media data using a semantic network analysis. To this end, we identified the themes of discourse on the Korean Wave in Indonesia and Malaysia using CONCOR. Through ego-centered networks, we further investigated topics related to shared and unique words between the two countries and found some interesting discourses that commonly appeared in both countries and unique discourses that appeared only in each country. Finally, by probing these results, we determined the three factors that promote cultural hybridity ('Asian identity', policies emphasizing 'unity in ethnic diversity', and 'local consumer xenocentrism') and the two hindering elements ('the conservative nature of religion' and 'discrimination between ethnic groups'). These findings provide theoretical and practical implications for the cultural sector and researchers who are seeking for ways to develop cultural hybridity as a means of achieving cultural sustainability in the era of globalization.

6.1. Theoretical Implications

Specifically, this study contributes to the literature on cultural hybridity by analyzing discourse on Korean cultural products in the context of a cross-national comparison, which has been overlooked despite abundant research on the issue. Although Indonesia and Malaysia have similar geographical locations, religions, and languages, they cannot be considered as having homogenous cultures [47]. The shared words between these two countries and the unique words of each country related to the same cultural products highlight the importance of understanding the differences in each nation's ethnic, socio-economic, and historical backgrounds when researching cultural hybridity between the Korean Wave and Muslim culture.

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In addition, the present study provides evidence on the usefulness of using semantic network analysis based on social media data for cross-national research of cultural hybridity. Because we used text-based data from social media, where people freely share their thoughts on the Korean Wave, we were able to examine the opinions of consumers who are not limited to active recipients of the Korean Wave but also those who feel repulsed by the Wave. This approach overcomes the shortcomings of previous studies that typically employed a limited number of individual recipients of cultural products using a qualitative method of interview. Further, using a semantic network analysis, we combined the quantitative indices for finding significant words and qualitative interpretations of links between the words, which enabled us not only to objectively identify the central words but also to extract the hidden meanings of the words' communities. Through this analysis, we empirically determined that the globalization of cultural products provokes diverse reactions across different countries, which proves the value of using semantic network analysis for large textual data in cross-national studies.

6.2. Practical Implications

The findings of the current study suggest practical implications for consumers, educators, policy makers, and the entertainment industry. In the present era of globalization where the exchange of cultural products is prevalent, it is important for the recipients of imported culture to develop intercultural communication sensitivity, a prerequisite for intercultural communication competence [30,105]. To enhance this competence, recipients need to be sensitive to and appreciative of foreign cultures, thereby reducing their level of ethnocentrism and helping them develop ethno-relative mindsets [30]. Educational policy should help individuals promote this competency by providing practical solutions for dealing with intercultural training. Considering the expanding role of the individual as not only a recipient of cultural products but also as a producer of hybridized culture, the enhancement of this competency is critical for creating peaceful and constructive intercultural relations, which are a pre-condition for cultural sustainability [27].

In addition, the recipients of imported culture should not undervalue their own culture. Although this study shows that xenocentrism can lead people to readily accept cultural products from developed countries, xenocentrism may lead such recipients to have inflated views of other cultures and feelings of national inferiority [106]. To build a constructive hybridized culture, the uncritical adoption of foreign culture should be avoided, as it can result in plagiarism or cultural imperialism. Instead, the recipients should have open-minded attitudes towards foreign cultures and import advanced elements from other cultures to develop their own culture.

Further, the results of the present study demonstrate that government policy on ethnicity is critical for fostering the cultural hybridity of countries with multiple ethnicities. The pursuit of unity among diverse ethnicities has contributed to Indonesians' more amenable attitudes toward the Korean Wave. Because government policy can influence its people's perception of risk [104], government policy makers should be cautious when developing ethnic policies to enhance cultural hybridity.

For the Korean entertainment industry, an understanding of the cultural difference between Korean and Southeast Asia is required. Although various entertainment corporations in Korea, such as management agencies and media content corporations, have made efforts to invest, produce, distribute, and promote Korean cultural products in this market [33], the consideration of different cultural backgrounds may yield more successful business ventures. Therefore, cooperation with the local entertainment industry could help Korean corporations by providing specific guidelines related to cultural norms. For example, both Indonesians and Malaysians follow Islamic law, which is not fully accounted for by Korean corporations. Through a strategic alliance with the local entertainment industry, these corporations can be provided with the religious criteria that are important for local consumers. Notably, Korean corporations who plan to enter the Malaysian market, where consumers use diverse religious words to express their negative opinions toward the Korean Wave, should exclude messages from their content that could violate religious law. Likewise, the Indonesian and Malaysian entertainment industry could take advantage of their alliances with Korean entertainment corporations.

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The Indonesian and Malaysian entertainment industry may thus be able to adopt the production system of K-pop and drama and to develop their own pop-culture products. This adoption may not only lead to a wide range of cultural products that local consumers choose to consume but also attract domestic and international tourists, thereby promoting the tourism sectors of Indonesia and Malaysia. The adoption would also provide a more objective perspective on local production systems, assisting the internalization of their own cultural products [40].

7. Limitations and Future Research

Finally, this study includes some limitations. First, the generalization of the results of the present study should be limited because social media users from only two Muslim countries, Indonesia and Malaysia, were the focus of this research. Second, we collected recent social media data, even though the Korean Wave has been gaining popularity for the last decade in Indonesia and Malaysia.

Therefore, we suggest the following two research directions for further studies on cultural hybridity. First, analyses of social media data from other Muslim countries introduced to the Korean Wave are required to validate the findings of the present study. In addition, comparative studies that include countries with different cultures and religions, such as European countries, are necessary because they will enrich the findings of this study by confirming the influence countries with various background have on cultural hybridity. Second, future studies should investigate a broader sample of social media data. This is particularly important for cultural research because the culture of a country can change dynamically over time. For instance, the leading cultural product of the Korean Wave shifted from Korean drama to K-pop in the late 2010s. This shift has subsequently driven the difference in the recipients' responses to the cultural product. Thus, analyzing social media data at different points in time could illustrate the progress of hybridization between local and imported culture.

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Appendix A

Table A1. TF-IDF and degree centrality of words in Indonesian data.

Word	TF-IDF	Rank	Degree Centrality	Rank
good	752.72812870	1	1	1
idol	702.50911084	2	1	1
song	553.16440514	3	0.982608695652174	8
fan	538.14399183	4	1	1
BTS	532.43083869	5	0.991304347826087	4
Army	430.96168668	6	0.956521739130435	14
drama	425.77414523	7	0.965217391304348	10
Kpop.song	424.33023039	8	0.991304347826087	4
music	408.38643061	9	0.991304347826087	4
bad	353.29205087	10	0.991304347826087	4
concert	344.73803085	11	0.921739130434783	24
happy	303.75048104	12	0.965217391304348	10
hair	299.57461486	13	0.773913043478261	61
Korean.artist	291.90883215	14	0.965217391304348	10
Korean.language	288.67288513	15	0.843478260869565	45
plastic.surgery	277.68078796	16	0.895652173913044	33
merchandise	267.80380807	17	0.808695652173913	55

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Table A1. Cont.

Word	TF-IDF	Rank	Degree Centrality	Rank
group	264.02608052	18	0.973913043478261	9
taste	255.24147731	19	0.947826086956522	17
beautiful	238.86056734	20	0.921739130434783	24
actor	234.48811858	21	0.930434782608696	21
money	233.97117683	22	0.895652173913044	33
interested	230.97905402	23	0.947826086956522	17
handsome	220.00747348	24	0.91304347826087	28
star	213.76092019	25	0.939130434782609	20
Kpop.world	212.43842566	26	0.834782608695652	47
fandom	210.17005609	27	0.860869565217391	41
style	203.81847254	28	0.921739130434783	24
Blackpink	193.38561171	29	0.895652173913044	33
religious	192.02689424	30	0.834782608695652	47
		31		21
Korean.people	191.15213846		0.930434782608696	
wrong	186.82076878	32	0.930434782608696	21
sad	183.31400460	33	0.834782608695652	47
genre	180.70129150	34	0.843478260869565	45
war	177.89372121	35	0.852173913043478	42
video	176.95456911	36	0.947826086956522	17
oppa	176.78429811	37	0.88695652173913	36
cool	176.74222299	38	0.956521739130435	14
dance	175.59865838	39	0.956521739130435	14
trend	174.36461362	40	0.808695652173913	55
crazy	172.55191390	41	0.965217391304348	10
picture	171.59229269	42	0.91304347826087	28
price	165.03861822	43	0.817391304347826	53
agency	163.87871676	44	0.852173913043478	42
movie	162.59675831	45	0.904347826086957	31
excited	160.51008538	46	0.88695652173913	36
EXO	155.99483922	47	0.88695652173913	36
Korean.culture	154.92549463	48	0.747826086956522	71
fanatic	153.67203197	49	0.852173913043478	42
ticket	144.86389088	50	0.695652173913043	89
tired	140.76113175	51	0.773913043478261	61
English	136.40423394	52	0.826086956521739	52
SM.entertainment	135.70294360	53	0.782608695652174	60
bias	135.00473414	54	0.904347826086957	31
title	125.70894792	55	0.773913043478261	61
_	124.74017176	56	0.773913043476261	58
talent	120.89004338	57	0.834782608695652	47
appearance				
god	118.15390022	58 50	0.756521739130435	68
member	117.69463471	59	0.878260869565217	39
scene	116.31305402	60	0.68695652173913	90
sissy	114.69742201	61	0.6	111
expensive	114.66535567	62	0.68695652173913	90
color	114.04616933	63	0.756521739130435	68
famous	111.82371970	64	0.921739130434783	24
politic	110.19307344	65	0.660869565217391	96
booth	108.72258856	66	0.8	58
news	106.82436425	67	0.91304347826087	28
character	105.22676603	68	0.721739130434783	81
album	104.66649642	69	0.834782608695652	47
pretty	103.01830082	70	0.739130434782609	73
Korean.story	101.51863560	71	0.443478260869565	116
western.song	101.25410297	72	0.652173913043478	100
lyric	100.65984366	73	0.704347826086957	87
singer	100.11672756	74	0.808695652173913	55
promotion	99.076244281	7 5	0.68695652173913	90

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Table A1. Cont.

Word	TF-IDF	Rank	Degree Centrality	Rank
stupid	98.883133901	76	0.739130434782609	73
SNSD	97.346026478	77	0.721739130434783	81
sin	96.752446748	78	0.617391304347826	109
favorite	96.014879702	79	0.878260869565217	39
motivation	95.886266257	80	0.660869565217391	96
Јрор	92.794465715	81	0.556521739130435	114
era	91.450180830	82	0.765217391304348	67
SuperJunior	90.752777599	83	0.721739130434783	81
shamed	89.921699544	84	0.678260869565217	94
voice	89.457972415	85	0.6	111
toxic	89.255175855	86	0.739130434782609	73
fashion	89.195537755	87	0.739130434782609	73
entertain.industry	89.167008670	88	0.773913043478261	61
forbidden	87.417551574	89	0.739130434782609	73
ugly	87.028939449	90	0.747826086956522	71
anti	86.208603936	91	0.730434782608696	79
Korean.food	85.007489670	92	0.573913043478261	113
market	84.401536755	93	0.739130434782609	73
variety.show	83.360854410	94	0.652173913043478	100
face	83.076987625	95	0.71304347826087	85
debut	82.933829758	96	0.756521739130435	68
Muslim	82.305298792	97	0.539130434782609	115
standard	82.073202813	98	0.652173913043478	100
positive	81.496584651	99	0.660869565217391	96
fangirling	80.083990073	100	0.626086956521739	107
chitchat	78.945137068	101	0.626086956521739	107
content	78.440568017	102	0.730434782608696	79
popular	75.712162996	103	0.817391304347826	53
YG.entertainment	75.384760615	104	0.617391304347826	109
universal	75.121889891	105	0.704347826086957	87
waste	74.874956114	106	0.643478260869565	103
fun	74.550827003	107	0.721739130434783	81
demon	74.455238787	108	0.773913043478261	61
negative	73.262009600	109	0.634782608695652	105
weird	72.852667364	110	0.634782608695652	105
airing	71.325056534	111	0.678260869565217	94
angry	70.609782250	112	0.71304347826087	85
proud	69.774989290	113	0.643478260869565	103
series	69.003465793	114	0.68695652173913	90
Korean.Wave	68.96128904	115	0.660869565217391	96
successful	63.103522721283	116	0.773913043478261	61

Table A2. TF-IDF and degree centrality of words in Malaysian data.

Word	TF-IDF	Rank	Degree Centrality	Rank
fan	1501.0364612	1	1	1
interested	1412.0925885	2	1	1
BTS	966.94940158	3	1	1
good	910.77160069	4	1	1
song	859.18850828	5	1	1
Korean.artist	856.89838375	6	1	1
money	789.24241161	7	1	1
Malay.artist	738.58273585	8	0.97580645161	15
stupid	683.27799395	9	0.99193548387	10
concert	660.41759865	10	1	1
fanatic	650.32375061	11	0.99193548387	10

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Table A2. Cont.

Word	TF-IDF	Rank	Degree Centrality	Rank
Kpop.song	646.36150439	12	0.93548387097	30
dance	553.17426996	13	0.96774193548	20
bad	527.51708491	14	0.99193548387	10
crazy	480.86126388	15	0.96774193548	20
drama	478.46388226	16	0.97580645161	15
movie	443.51909093	17	0.95161290323	27
youth	432.84366683	18	0.96774193548	20
plastic.surgery	415.06873199	19	0.91935483871	37
busy	410.39817577	20	0.96774193548	20
religious	405.00316099	21	0.97580645161	15
music	396.82482846	22	0.97580645161	15
Blackpink	379.51531768	23	0.96774193548	20
idol	376.19567626	24	0.98387096774	13
demon	371.70533706	25	0.92741935484	32
Malay.culture	369.87118411	26	0.84677419355	61
•	353.33271711	27	0.04077419333	1
group		28		37
issue	331.65617538	28 29	0.91935483871	
sad	328.22982426		0.88709677419	46
tourist	327.94541674	30	0.92741935484	32
wrong	323.29443637	31	0.98387096774	13
Islam	314.98807571	32	0.96774193548	20
god	306.64504196	33	0.95161290323	27
great	280.5655868	34	0.97580645161	15
curse	270.92212387	35	0.90322580645	43
Muslim	256.43310673	36	0.96774193548	20
angry	256.3616086	37	0.91935483871	37
anti	254.62079575	38	0.85483870968	57
fun	251.79190022	39	0.92741935484	32
Army	245.83970851	40	0.90322580645	43
pig	233.36887045	41	0.70161290323	104
video	228.10097266	42	0.91129032258	42
cute	224.72288663	43	0.73387096774	98
government	224.24809017	44	0.92741935484	32
fashion	221.49375454	45	0.92741935484	32
tired	220.51585805	46	0.79032258065	81
ustaz	219.46473519	47	0.83064516129	63
Korean.people	216.99983032	48	0.91935483871	37
handsome	209.72096966	49	0.75806451613	89
merchandise	190.31013977	50	0.71774193548	101
member	185.70398706	51	0.86290322581	54
		52	0.78225806452	82
forbidden	180.65283483		0.78223800432	
Korean.story	178.63811478	53 54		124
foreign.artist	175.27670926	54	0.81451612903	66
style	169.68243588	55 5	0.88709677419	46
trash	169.66822212	56 	0.79838709677	79
gay	169.10764411	57	0.6935483871	106
beautiful	169.05090795	58	0.87903225806	49
ticket	169.03220468	59	0.90322580645	43
hair	167.02849237	60	0.75806451613	89
shocked	165.82043124	61	0.75806451613	89
weird	162.80935554	62	0.84677419355	61
shamed	160.63167483	63	0.85483870968	57
illegal	157.96672884	64	0.74193548387	96
pretty	157.57734819	65	0.68548387097	110
job	156.95326403	66	0.81451612903	66
prayer	156.37953266	67	0.68548387097	110
hot	156.13974225	68	0.72580645161	100
SuperJunior	155.26734935	69	0.67741935484	114
famous	155.20130756	70	0.93548387097	30

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Table A2. Cont.

Word	TF-IDF	Rank	Degree Centrality	Rank
budget	154.38228742	71	0.75	95
fandom	148.77680144	73	0.68548387097	110
benefit	147.58356621	74	0.70161290323	104
news	147.24770136	75	0.86290322581	54
debt	147.08151266	76	0.65322580645	120
stage	146.4315587	77	0.88709677419	46
noisy	145.21521194	78	0.62903225806	121
chitchat	144.38182859	79	0.71774193548	101
sexy	144.2226238	80	0.77419354839	86
foreign.country	143.96258289	81	0.8064516129	74
trend	143.41272432	82	0.75806451613	89
Korean.food	142.77311492	83	0.53225806452	125
rock	142.72497341	84	0.82258064516	64
happy	142.32874587	85	0.87903225806	49
proud	137.66023484	86	0.87096774194	53
picture	137.47564275	87	0.91935483871	37
album		88		118
	136.47978729	89	0.66129032258	
Korean.language	134.92405052		0.6935483871	106
politic	134.07254109	90	0.8064516129	74
singer	133.99756735	91	0.95161290323	27
entertainment	132.65481027	92	0.87903225806	49
worry	132.51979072	93	0.81451612903	66
star	129.99786972	94	0.81451612903	66
era	126.98927904	95	0.6935483871	106
popular	126.33710026	96	0.85483870968	57
English	126.30101353	97	0.77419354839	86
Malay.song	122.49774057	98	0.77419354839	86
lyric	121.89433974	99	0.66129032258	118
makeup	121.35869481	100	0.78225806452	82
prophet	120.39617184	101	0.70967741935	103
entertain.industry	119.92421727	102	0.81451612903	66
EXO	119.30135064	103	0.62096774194	123
genre	118.65180041	104	0.78225806452	82
cost	114.81533437	105	0.6935483871	106
tradition	113.75000717	106	0.74193548387	96
Ramadan	112.96818926	107	0.67741935484	114
profit	111.57267387	108	0.8064516129	74
poor	109.81572004	109	0.86290322581	54
talent	107.0821624	110	0.8064516129	74
Korean.culture	103.31740738	111	0.62903225806	121
negative	101.3354576	111	0.78225806452	82
actor	101.17808383	112	0.79838709677	79
nonMuslim	99.011810950	113	0.81451612903	66
favorite	97.645494625	114	0.73387096774	98
hijab	96.766262993	115	0.75806451613	89 117
Siti.Nurhaliza	95.9786042072876	116	0.66935483871	117
Quran	95.592732378	117	0.68548387097	110
foreigner	95.161134556	118	0.81451612903	66
expensive	94.106295077	119	0.67741935484	114
performance	90.894841204	120	0.8064516129	74
market	90.633547777	121	0.81451612903	66
short	88.488838723	122	0.85483870968	57
sin	85.908425774	123	0.75806451613	89
netizen	69.948454073871	124	0.87903225806	49
agency	77.4754607025901	125	0.82258064516	64

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