ABSTRACT

This study delves into the phenomenon of stereotyped-information behavior within the realm of social media, with a specific focus on the TikTok platform. Employing a multi-method approach, we aim to unravel the intricate dynamics at play when users engage with content that may reinforce existing beliefs and stereotypes. The prevalence and multifaceted nature of stereotyped-information behavior are illuminated through a comprehensive analysis of user interactions on TikTok. Our findings reveal a compelling pattern: users exhibit a tendency to engage with content that aligns with their pre-existing beliefs. A distinctive feature of TikTok is its visual-centric format, characterized by short, engaging videos. This aspect amplifies the potential for stereotype reinforcement. Visuals and memes, in particular, emerge as powerful tools for the dissemination of both accurate and biased information. Furthermore, our investigation sheds light on the formation of filter bubbles and echo chambers within the TikTok ecosystem. Users tend to be enveloped in content and interactions that reaffirm their existing beliefs, potentially limiting exposure to diverse perspectives. This phenomenon mirrors observations on other social media platforms and emphasizes the need for strategies to foster a more inclusive information environment. This research underscores the pressing need for continued investigation into the ways social media platforms influence the consumption and processing of information. As these platforms continue to shape public discourse, it is imperative that users, content creators, and platform developers alike remain vigilant in their efforts to mitigate the potential perpetuation of stereotypes.

Keywords: Stereotyped-Information Behavior; Filter Bubbles; Echo Chambers; Social Media; TikTok.
de TikTok. Los usuarios tienden a estar inmersos en contenido e interacciones que reafirman sus creencias existentes, limitando potencialmente la exposición a perspectivas diversas. Este fenómeno refleja observaciones en otras plataformas de redes sociales y subraya la necesidad de estrategias para fomentar un entorno de información más inclusivo. Esta investigación subraya la apremiante necesidad de continuar investigando sobre cómo las plataformas de redes sociales influyen en el consumo y procesamiento de información. A medida que estas plataformas siguen dando forma al discurso público, es imperativo que los usuarios, creadores de contenido y desarrolladores de plataformas permanezcan vigilantes en sus esfuerzos por mitigar la posible perpetuación de estereotipos.

Palabras-Clave: Comportamiento Informacional Estereotipado; Burbujas de Filtro; Cámaras de Eco; Redes Sociales; TikTok.

**COMPORTAMIENTO INFORMACIONAL ESTEREOTIPADO CAUSADO PELAS MÍDIAS SOCIALES: UM ESTUDO DE CASO DO TIKTOK**

**RESUMO**

Este estudio aprofunda el fenómeno del comportamiento de información estereotipada en el ámbito de las redes sociales, con énfasis específico en la plataforma TikTok. Utilizando una abordaje multimétodo, nuestro objetivo es desvelar las dinámicas intrincadas envueltas cuando los usuarios interaccionan con contenido que puede reforzar creencias y estereotipos existentes. La prevalencia y la naturaleza multifacetada del comportamiento de información estereotipada son iluminadas por medio de una análisis aborigen de las interacciones de los usuarios en TikTok. Nuestras descobertas revelan un padrón convincente: los usuarios muestran una tendencia a interactuar con contenido que está alineado con sus creencias preexistentes. Una característica distintiva del TikTok es su formato centrado en el visual, caracterizado por vídeos cortos e envolventes. Este aspecto amplifica el potencial para el reforzado de estereotipos. Imágenes y memes, en particular, emergen como herramientas poderosas para la diseminación de información precisa y sesgada. Además, nuestra pesquisa aporta luz sobre la formación de bolitas de filtrado y cámaras de eco dentro del eco-sistema del TikTok. Los usuarios tienden a estar inmersos en contenido e interacciones que reafirman sus creencias existentes, limitando potencialmente la exposición a perspectivas diversas. Es este fenómeno refleja observaciones en otras plataformas de redes sociales y destaca la necesidad de estrategias para promover un ambiente de información más inclusivo. Esta pesquisa destaca a necesidade urgente de continuar investigando cómo las plataformas de redes sociales influyen en el consumo y el procesamiento de informaciones. A medida que estas plataformas continúan a moldar el discurso público, es imperativo que los usuarios, creadores de contenido y desenvolvedores de plataformas permanezcan vigilantes en sus esfuerzos para mitigar la posible perpetuación de estereotipos.

Palavras-Chave: Comportamento Informacional Estereotipado; Bolhas de Filtro; Câmaras de Eco; Mídias Sociais; TikTok.

1 INTRODUCTION

Social media platforms have gained substantial importance as information sources. They have revolutionized the way we access and consume information, transformed how we obtain information, offering an extensive range of content readily available to us. As a result, these platforms play a pivotal role in shaping public opinion and attitudes (McGregor, 2019). Also, they were considered a more practical tool for understanding the public's attitude than traditional polls. While social media offers numerous benefits, it has
also been accused of contributing to the formation and reinforcement of stereotypes in different types and shapes (Dobson & Knezevic, 2018; Intravia & Pickett, 2019; Seiter, 2006; Xu, 2022). Information processing may also have been stereotyped over time (Seiter, 2006). This phenomenon, as we consider it in this study, can be expanded as stereotyped-information behavior, which can be caused by mediums like social media and refers to the selective exposure and consumption of information that reinforces individuals’ existing beliefs and stereotypes.

Among the various social media platforms, TikTok has emerged as one of the most popular and influential, particularly among younger generations. With its short-form videos and widespread global reach, TikTok holds significant potential to impact the dissemination of information and perceptions of societal norms. However, this popularity also raises questions about the platform’s role in perpetuating or challenging stereotypes (Liu, 2021; Matamoros Fernandez et al., 2022; Ng & Indran, 2023).

This case study delves into TikTok, aiming to explore how stereotyped-information behavior manifests among its users. The study points to analyze users’ reactions to a number of TikTok posts that exhibit different sorts of stereotyped information behavior.

2 LITERATURE REVIEW

In the literature review, we delve into the foundational concepts that underpin our study on stereotyped information behavior caused by social media, with a focus on the popular platform TikTok. Stereotypes, as cognitive shortcuts and simplified belief systems, play a significant role in how individuals perceive and interact with the world around them. We explore the intricate interplay between stereotypes and social media, where algorithms and personalized content curation can inadvertently perpetuate biases and reinforce preexisting stereotypes.

This literature review further investigates the concept of stereotyped information behavior, where individuals selectively engage with and process information that aligns with their existing beliefs and perspectives. We analyze the effects of filter bubbles and echo chambers, confirmation bias, polarization, and tribalism, as well as the amplification of stereotypes through visuals and memes. By examining the extensive body of research on these topics, we lay the groundwork for our empirical investigation into the manifestations of stereotyped information behavior on TikTok.

2.1 Stereotype and Stereotyping

Stereotypes often manifest as what linguists refer to as "generics" (Beeghly, 2015). Typically, these mindsets are straightforward, overgeneralized, commonly held beliefs that are frequently resistant to alteration (Arendt, 2023). Stereotypes are “short cuts” that individuals unconsciously use to make decisions more quickly and readily, which explains the propensity to accept them without question (Gouvernement du Québec, n.d.). Stereotypes as implicit beliefs significantly contribute to the formation of implicit biases (2015). They are persistent and strong in part because they influence how we perceive the world, despite the fact that we may assume we are only describing it based on our subjective experiences (Green, 2015).

They involve magnified beliefs about specific subjects, such as individuals or representations of groups (Augoustinos & Walker, 1998), which can either be accurate or mistaken. Nevertheless, these mentalities and acts of stereotyping often tend to emerge prominently in depictions of people (Turner & Turner, 2011). Our information processing utterly relies on stereotypes as they mitigate...
the complexity of almost everything (Arendt, 2023) by serving to stabilize, make predictable, and make manageable a given person’s view of social reality (Hamilton, 2015).

In another term, Stereotypes function as cognitive shortcuts, simplifying perception, judgment, and response by streamlining the complexities of the social world (Macrae et al., 1994). They are conceptual frameworks that act as a connection that connects a social group to a collection of qualities or behaviors (Jr & Srull, 2014).

2.2 Stereotypes and Social Media

The AI employed on social media platforms can forecast consumers’ behaviors for various purposes, like commercial objectives; prioritizing and presenting selective contents with respect to users’ inclinations and favoring them the most could, however, foster biases or stereotypic attitudes (Institut für Sozialarbeit und Sozialpädagogik e.V. Agency, 2022). As a consequence, it can interfere and shape users’ behaviors, besides confirming preexisting biases that cause stereotyping (Fosch-Villaronga et al., 2021), as response biases could be crucial in the perpetuation of stereotypes (Stangor, 1988). Stereotypical portrayals can be seen on social media with a persuasive post.

For years, a large body of research has pinpointed discrepant stereotypes related to reliance on different social media platforms (Bosco et al., 2023; Dobson & Knezevic, 2018; Döring et al., 2016; Maftei & Merlici, 2022). In fact, the interaction of stereotyping within social media platforms has led to the transformation of one element into a visual representation closely associated with another element, along with the reinforcement of other preconceived stereotypes (Dobson & Knezevic, 2018). In order to form opinions or make decisions about the social world, people frequently turn to stereotypes (Yuen, 2019).

The visual nature of platforms like TikTok, with its emphasis on videos and imagery, can intensify the impact of stereotypes or propel stereotypes through compelling visual portrayals. Therefore, just like its counterparts, TikTok has been allegedly accused of stereotyping such as gender (Huber & Baena, 2023), older adults (Ng & Indran, 2023), race (Matamoros Fernandez et al., 2022) and so on among others.

2.3 Stereotyped Information Behavior

Stereotypes function as cognitive shortcuts, simplifying perception, judgment, and response. Each and every one of us believes in some stereotypes since they let our brain sort information by categorizing things into different types (Gouvernement du Québec, n.d.). streamlining the complexities of the social world (Macrae et al., 1994). They are generally perceived by the cognitive perspective as belief systems or cognitive biased that can shape information processing (Jr & Srull, 2014). From the perspective of social psychologists, stereotypes can be understood through the lens of cognitive abilities, representing a specific type of mental classification that aids in the organization of information (Seiter, 2006).

Given the importance of stereotypes as one of the main or even only reasons for a person’s judgment or decision (Beeghly, 2015), information behavior would also be stereotyped from information seeking to acceptance and from processing to decision-making.

Stereotypically, users tend to selectively opt for information that resonates with their demographics and belief systems, leveraging the diversity of news, ideas, information, and opinions available on social media while simultaneously sidestepping or
neglecting content that contradicts their own perspectives or biases (Intravia & Pickett, 2019).

Within the cognitive approach toward stereotypes, stereotyping is linked to social groups and can be seen as a layer of information in social schemas. Information processing in social schemas often starts at higher levels and moves downward. This involves encoding the person's features into working memory, then matching them with stored features to categorize them. Once categorized, traits linked to the category are recalled, and potential behaviors based on these traits are generated from memory (Stephan, 1989). As for information retrieval, a number of common processing biases or stereotyped mindsets might also affect the retrieval of data related to social categories (1989). Thus, information, which encompasses retrieval and processing, would be affected by the stereotypes and consequently been stereotyped itself over time.

Here are a few key points and salient common examples of stereotyped information behavior caused by social media:

2.4 Filter Bubbles and Echo Chambers

A filter bubble is an unseen particular and, private universe of information that is generated by personalized information filters that have been particularly created for a user. In other words, Users are virtually being placed in a bubble where they only see content that matches their past consumption patterns using algorithms designed to customize and personalize their online experiences (Pariser, 2011). The characteristics of users, including their cultural diversity, have the potential to impact the extent of the filter bubble (S. J. Min & Wohn, 2020). Algorithms aim to connect users with preferred content by prioritizing certain items over others, thus creating a personalized content stream with various choices for users (Rader & Gray, 2015), but they nonetheless propel users to consume, as Pariser (2011) described, junk food-like information rather than a more balanced diet-like information.

Alongside, the filter bubble itself, as an intermediate structure, provokes polarization and echo chambers in social media (Y. Min et al., 2019). Echo chambers are spaces where like-minded individuals interact and uphold a common narrative. Social media platforms could potentially restrict exposure to a variety of viewpoints and promote the creation of clusters of users who share similar opinions (Cinelli et al., 2021).

Having said that, a number of scholars are not one hundred percent agree with the beneficial or disruptive impact of these phenomena in communication spaces and highlight the possibility of misunderstanding the essence of the polarizations and the causes alike(Bruns, 2019). Furthermore, Davies (2018) argued that it is comparatively less likely to confirm the presence of the filter bubble as a significant concern.

2.5 Confirmation Bias

Confirmation bias refers to the inclination to search for or interpret evidence or data in manners that favor one's pre-existing beliefs, expectations, or hypotheses, which may finally approve or straighten the original opinion (Nickerson, 1998). Confirmation bias interferes with both gathering and utilizing information (Jones & Sugden, 2001). It literally propels us to modify information that undermines past choices and judgments on various issues (Kappes et al., 2020).

2.6 Polarization and Tribalism
Information polarization is a mere selective exposure or a limitation that users imply to narrow down the information they are about to consume or are about to be exposed to despite the wide availability of content and information online (Schmidt et al., 2017). A set of biased viewpoints can lead to polarization when individuals hold strong biases (Dandekar et al., 2013).

Likewise, tribalism, which is the state of being organized by, or advocating for, tribes or tribal lifestyles, is the strong sense of loyalty, identity, and belonging that individuals often feel towards a particular group, often based on shared cultural, social, or ideological characteristics (Clark & Winegard, 2020). In other words, tribal loyalty can lead to tribalism. In conclusion, they can, for instance, selectively approach information that favors their tribe’s standards, embracing information that aligns with their group's beliefs and avoiding information that could potentially not approve of their tribe’s ideology (Ditto et al., 2019).

Tribalism tendencies can result in distorted information processing based on ideologies and values (Clark & Winegard, 2020).

### 2.7 Amplification of Stereotypes Through Visuals and Memes

Social media, with its interactive nature commonly exacerbates stereotypes via visuals and memes, amplifying a wide range of stereotypes (Quillian & Pager, 2010). Stereotype amplification utterly amplifies community risk perceptions and mediates the relationship between political ideologies and risk perception (Haner et al., 2020).

A considerable number of studies have focused on investigating the physical, behavioral, and persona stereotypes reinforced through social media usage. Given the importance of stereotypes as one of the main or even only reasons for a person’s judgment or decision (Beeghly, 2015), information behavior would also be stereotyped from information seeking to acceptance and from processing to decision-making. In this study, we investigate the stereotypic information behavior on TikTok.

### 3 OBJECTIVES

Understanding how these engagement dynamics contribute to the perpetuation of stereotypes is crucial for developing strategies that foster more inclusive and responsible social media usage. The objective of this study is to explore and understand the manifestations of stereotyped information behavior on TikTok. By analyzing users’ reactions to a number of posts, this study aimed to provide insights into the prevalence, types, and impact of different forms of stereotyped information behavior within the TikTok platform.

### 4 METHODOLOGY

This study employed an exploratory research design to gain insights into users’ reactions to TikTok posts that exhibit various forms of stereotyped information behavior. The exploratory approach was chosen to uncover patterns, trends, and potential relationships that can inform a deeper understanding of how stereotyped information behavior manifests on the TikTok platform.

To build the sample, a comprehensive set of TikTok posts will be collected using relevant keywords and trending topics. The collected posts will then be categorized based on the different forms of stereotyped information behavior identified in the literature, including filter bubbles, confirmation bias, viral misinformation and disinformation, polarization and tribalism, and
the amplification of stereotypes through visuals and memes. Each category will be represented in the final sample.

Despite the algorithmic use of hashtags by TikTok to categorize and group video content, making it easier for users to search for and share videos, As such, we fairly adapted this technique, plus the modified method used by Unni and Weinstein (2021). Initially, we utilized TikTok's Creative Center to identify trending hashtags and videos (TikTok: Creative Center, n.d.) (Table 2). The selection criteria focused on hashtags that were relevant to our area of study and potentially challenging to existing mindsets and beliefs. This approach allowed us to gain an advantage in analyzing the content and user reactions.

To narrow down our focus, we excluded excessively general categories and selected six categories that aligned with the study's objectives (Table 1). In each chosen category, we randomly selected one of the top-ten hashtags from the US within a 30-day span. Subsequently, we identified and analyzed one of the top videos associated with these hashtags that is much relevant to the objectives of our study. We finally ended up with 5 posts.

Our analysis encompassed an in-depth examination of the selected videos, categorizing them based on different manifestations of stereotyped information behavior. Furthermore, we scrutinized the top 6 comments on each video to identify any signs of stereotyped information behavior.

<table>
<thead>
<tr>
<th>Categories</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apparel &amp; Accessories</td>
<td>excluded</td>
</tr>
<tr>
<td>Baby, Kids &amp; Maternity</td>
<td>excluded</td>
</tr>
<tr>
<td>Beauty &amp; Personal Care</td>
<td>excluded</td>
</tr>
<tr>
<td>Business Services</td>
<td>excluded</td>
</tr>
<tr>
<td>Education</td>
<td>Considered</td>
</tr>
<tr>
<td>Financial Services</td>
<td>Considered</td>
</tr>
<tr>
<td>Food &amp; Beverage</td>
<td>excluded</td>
</tr>
<tr>
<td>Games</td>
<td>excluded</td>
</tr>
<tr>
<td>Health</td>
<td>Considered</td>
</tr>
<tr>
<td>Home Improvement</td>
<td>excluded</td>
</tr>
<tr>
<td>Household Products</td>
<td>Considered</td>
</tr>
<tr>
<td>Life Services</td>
<td>excluded</td>
</tr>
<tr>
<td>News &amp; Entertainment</td>
<td>Considered</td>
</tr>
<tr>
<td>Pets</td>
<td>excluded</td>
</tr>
<tr>
<td>Sports &amp; Outdoor</td>
<td>excluded</td>
</tr>
<tr>
<td>Tech &amp; Electronics</td>
<td>Considered</td>
</tr>
<tr>
<td>Travel</td>
<td>excluded</td>
</tr>
<tr>
<td>Vehicle &amp; Transportation</td>
<td>excluded</td>
</tr>
</tbody>
</table>

Table 1: TikTok’s Creative Center themes and status for the current study

Source: Own drafting (2023).
5 RESULTS

The following section presents the results of our investigation into stereotyped-information behavior on the TikTok platform. Through a systematic analysis of user interactions with selected posts, we gained valuable insights into the various manifestations of this behavior. The results are categorized based on different types of

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### Table 2: Trends on TikTok

<table>
<thead>
<tr>
<th>Theme</th>
<th>Hashtag</th>
<th>Age Range</th>
<th>Total Posts</th>
<th>Total Views</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
<td>factsyoudidntknow</td>
<td>18-24: 58% 25-34: 36% 35+: 16%</td>
<td>30K</td>
<td>2B</td>
</tr>
<tr>
<td>Financial Services</td>
<td>moneytips</td>
<td>18-24: 49% 25-34: 31% 35+: 20%</td>
<td>577K</td>
<td>3B</td>
</tr>
<tr>
<td>HEALTH</td>
<td>collagen</td>
<td>18-24: 41% 25-34: 35% 35+: 24%</td>
<td>757K</td>
<td>4B</td>
</tr>
<tr>
<td>Household Products</td>
<td>journaling</td>
<td>18-24: 43% 25-34: 36% 35+: 21%</td>
<td>928K</td>
<td>6B</td>
</tr>
<tr>
<td>Tech &amp; Electronics</td>
<td>headphones</td>
<td>18-24: 81% 25-34: 14% 35+: 5%</td>
<td>412K</td>
<td>9B</td>
</tr>
</tbody>
</table>

Source: Own drafting (2023).
stereotyped information behavior identified in the literature, including confirmation bias, filter bubbles, polarization and tribalism, and the amplification of stereotypes through visuals and memes.

5.1 Results Obtained from Video 1:

Table 3: Selected video 1 and follow up comments

<table>
<thead>
<tr>
<th>Comment</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comment 1</td>
<td>I would rather hang out with a random dog than most people</td>
</tr>
<tr>
<td>Comment 2</td>
<td>pretty sure 3 people know the recipe</td>
</tr>
<tr>
<td>Comment 3</td>
<td>Albert Einstein’s last words were “I’m in the hands of a fate that I can’t control”</td>
</tr>
<tr>
<td>Comment 4</td>
<td>I don’t think that’s true</td>
</tr>
<tr>
<td>Comment 5</td>
<td>Trying to prove it wrong...</td>
</tr>
</tbody>
</table>
| Comment 6 | Wait! If the jellyfish is immortal, why will it die when eaten?

Source: Own preparation, based on research data (2023).

The hashtag has been used in over 30,000 posts and has garnered a total of 2 billion views. It was most prevalent among the 18–24 age group, accounting for 58%, followed by the 25–34 age group at 26%. Interest waned among those aged 35 and older, comprising only 16%.

The selected post attempted to share a number of what the creators referred to as facts, including they are only two people who know the recipe of Coca-Cola; the ability to know the person who has a crush on a user on TikTok; the preferences of pet owners to hang out with their pet companionship instead of others; those who are into potent fragrances like nail polishing, gasoline, etc. have a strong tendency to do drugs; Albert Einstein said a few words before passing out for the last time in German to the nurse, who did not speak German; the existence of a unique jellyfish that is biologically and theatrically immortal unless it gets eaten; the oldest gum belongs to 9000 years ago and was found in Sweden; and the
probability of drinking a glass of water with the molecule passing from the dinosaurs is almost one hundred percent.

The video itself and the comments can be seen, as can a number of stereotyped-information behaviors:

- Confirmation Bias: The highlighted comments can reflect confirmation bias. For instance, the comments "I don’t think that’s true" and "Trying to prove it wrong..." indicate skepticism or a desire to challenge the presented information.

- Polarization and Tribalism: The comment "I would rather hang out with a random dog than most people" reflects a preference for the company of pets over people. This can be indicative of a tribal mindset, where individuals align themselves strongly with a particular group or ideology (in this case, pet lovers).

- Filter Bubbles and Echo Chambers: If the individuals engaging with the video and comments share similar beliefs or interests, it could contribute to the formation of a filter bubble or echo chamber. This means that they may be more likely to accept and reinforce information that aligns with their existing viewpoints.

- Amplification of Stereotypes through Visuals and Memes: The video's format of presenting "facts" can be seen as a form of amplification through visuals. The use of visual content is a powerful way to convey information, and in this case, it's used to reinforce certain beliefs or stereotypes.

5.2 Results Obtained from Video 2:

Table 4: Selected video 2 and follow up comments

<table>
<thead>
<tr>
<th>Selected Video in this Hashtag</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://www.tiktok.com/@lorallangemeier/video/715405497331387694?q=%23moneytips&amp;t=1694175573377" alt="Video Thumbnail" /></td>
</tr>
</tbody>
</table>

Three things

3. Things NOT to do until you’re rich
4. Money tips
5. Money facts
The hashtag has been used in more than 577K posts and receives a total of 3 billion views. The hashtag was more common in the age group 18–24 with 49%, followed by 25–34 with 31%, and less popular among those 35 and older with only 20%.

The selected video is about three pieces of financial advice to follow until you become wealthy:

1. Prioritize buying assets before indulging in a lavish lifestyle. You should build your assets step by step.
2. Avoid accumulating significant debt and damaging your credit score. It's important to use debt wisely, and maintaining good credit is paramount.
3. Refrain from lending money to friends and family, as they may not repay you."

The video content and highlighted comments can be categorized under several types of stereotyped information behavior:

- Confirmation Bias: Comments such as "Thanks, but I don't need my lifestyle when I'm 50, I need that bag, food and travel now" and "What about if you get rich when you’re 30 but in your 20's you didn’t enjoy your 20's just working, working, working, millions can’t buy that" reflect confirmation bias. These comments suggest that individuals are expressing opinions or preferences that align with their existing beliefs or experiences.

- Polarization and Tribalism: Comments like "Should I stop travelling until I’m rich?" and "Definitely learned my lesson with the last one" reflect individual viewpoints on financial decisions. This can be indicative of tribal mindsets, where individuals align themselves strongly with a particular financial philosophy. Also, the comment "don't listen to a woman whose talking about money" reflects a stereotype about women and financial discussions. It implies a gender bias, assuming that women may not be knowledgeable or credible when it comes to financial matters.
5.3 Results Obtained from Video 3:

Table 5: Selected video 3 and follow up comments

<table>
<thead>
<tr>
<th>Selected Video in this Hashtag</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://www.tiktok.com/@glowupwithinah/video/7203930061546753307?q=%23collagen&amp;t=1694198842812" alt="Video Link" /></td>
</tr>
</tbody>
</table>

| Comment 1 | 3 month of taking collagen and you can see the noticeable changes in the skin, hair, or joint health |
| Comment 2 | Put it in oatmeal |
| Comment 3 | Collagen can't be absorbed through the skin so this is probably better |
| Comment 4 | I'm so easily influenced I bought it so fast |
| Comment 5 | would this be helpful for someone who has dehydrated skin and eczema? |
| Comment 6 | consider me influenced |

Source: Own preparation, based on research data (2023).

The hashtag has been used in more than 757K posts and gets a total of 4B views. The hashtag was more common among the age group 18–24 with 41%, then 25–34 with 35%, and less popular among those 35 and older with only 24%.

The selected post claimed the effect of drinking collagen every day on facial expression.

The video content and highlighted comments can be categorized under several types of stereotyped information behavior:

- Confirmation Bias: The highlighted comments reflect confirmation bias. For example, comments like "3 months of taking collagen and you can see noticeable changes" and "consider me influenced" indicate a positive bias towards the effectiveness of collagen. These individuals may be more inclined to accept information that supports their belief in collagen's benefits.

- Amplification of Stereotypes through Visuals and Memes: The video's use of statistics and the popularity of the hashtag (#{collagen}) can be seen as a form...
of amplification through visuals. By presenting data on the number of posts and views, it reinforces the perception that collagen is widely used and popular.

- Polarization and Tribalism: While not explicitly mentioned in the provided content, discussions around health and beauty products like collagen can sometimes lead to polarization, where individuals strongly align with certain beliefs or products, and may form tribes around those preferences.

5.4 Results Obtained from Video 4:

Table 6: Selected video 4 and follow up comments

| Comment 1 | If I have to sit down every day at the same time it starts to feel like a chore I journal when I need to have a talk with myself it keeps it exciting |
| Comment 2 | my biggest problem is that I HATE my handwriting and that’d literally be enough of a reason that I wouldn’t want to look at it ever again |
| Comment 3 | The creativity of this video! |
| Comment 4 | junk journaling is GREAT! I have severe adhd and writing long entries can start to feel like a chore. collect receipts, stickers, scraps etc.! |
| Comment 5 | I love this video somehow! I think I’ve been journaling for maybe 4 years! And I love it!! |
| Comment 6 | why should I journal though? |

Source: Own preparation, based on research data (2023).

The hashtag has been utilized in over 928,000 posts, accumulating a total of 6 billion views. Its prevalence was highest among individuals aged 18–24, constituting 71% of users. The 25–34 age group followed with 20%, while those 35 and older showed less engagement, comprising only 9%.
The post aims to provide some tips about journaling. Here are three tips to help you get started: Step one: Create the habit. Find a consistent place where you can sit down and journal at the same time. Designate a specific spot so that when you sit down, Number 2. Start small. Break it down into smaller chunks. Finally, number 3: Just do it. Don't hold yourself back. You're going to make mistakes. You're going to write things.

The video content and highlighted comments can be categorized under the following types of stereotyped information behavior:

- Confirmation Bias: The comment "If I have to sit down every day at the same time it starts to feel like a chore" reflects a confirmation bias. The commenter expresses a preference for a different approach to journaling, which aligns with their existing beliefs and preferences. Simultaneously, the comment "my biggest problem is that I HATE my handwriting and that'd literally be enough of a reason that I wouldn't want to look at it ever again" highlights an individual's unique preferences and challenges with journaling. This is not a stereotype per se, but it does demonstrate how individuals' personal characteristics can influence their approach to journaling.

- Polarization and Tribalism: The comment "my biggest problem is that I HATE my handwriting..." expresses a strong personal preference. This indicates a polarized view on the topic of journaling, where the user's specific preference (in this case, a strong dislike for their handwriting) could potentially be a factor in their engagement with the content.

- Amplification of Stereotypes: The video content itself focuses on providing tips about journaling. While not explicitly perpetuating stereotypes, it does provide specific advice that may resonate more strongly with certain audiences. For example, the emphasis on consistency (finding a specific time and place) might resonate more with individuals who thrive on routine.

- Filter Bubbles and Echo Chambers (Indirect): While the video content itself doesn't necessarily contribute to filter bubbles, the demographic information provided (age groups engaging with the content) could be indicative of specific audience preferences and interests. This could indirectly contribute to filter bubbles if the content predominantly reaches and resonates with a specific demographic.
5.5 Results Obtained from Video 5:

Table 7: Selected video 5 and follow up comments

<table>
<thead>
<tr>
<th>Selected Video in this Hashtag</th>
<th><a href="https://www.tiktok.com/@carterpcs/video/7169413145662934315?is_from_webapp=1&amp;sender_device=pc&amp;web_id=727618321227204128">https://www.tiktok.com/@carterpcs/video/7169413145662934315?is_from_webapp=1&amp;sender_device=pc&amp;web_id=727618321227204128</a></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Comment 1</strong></td>
<td>You just don’t like anything related to an Apple why not beats</td>
</tr>
<tr>
<td><strong>Comment 2</strong></td>
<td>I’m wear the crusher evos rn over all the best headphones I’ve ever used</td>
</tr>
<tr>
<td><strong>Comment 3</strong></td>
<td>Sony really putting in that work I’ve never had headphones even close to as good as the xm4’s</td>
</tr>
<tr>
<td><strong>Comment 4</strong></td>
<td>I am not trying to spend $350 on xm4s</td>
</tr>
<tr>
<td><strong>Comment 5</strong></td>
<td>Air Pods Max is my #1</td>
</tr>
<tr>
<td><strong>Comment 6</strong></td>
<td>Skull candy crushers are so nice. The bass is insane</td>
</tr>
</tbody>
</table>

Source: Own preparation, based on research data (2023).

The hashtag has been used in more than 412K posts and has garnered a total of 9 billion views. It was most commonly used by the 18-24 age group, accounting for 81%, followed by the 25-34 age group with 14%. Interest was lower among those 35 and older, comprising only 5%. This post is about the creator's top three favorite Bluetooth over-ear wireless headphones. Number 3: The Skullcandy Crusher Evos, or any other Skullcandy headphones. Number 2: Bose QuietComfort headphones have always been very good. They are very comfortable with great active noise cancellation. If the design looked a little better, I think these would be a close contender for number one. Number 1: Sony w2000X five.

The video content and comments can be categorized as follows:

- Confirmation Bias: Comments like "You just don’t like anything related to Apple why not beats" and "Air Pods Max is my #1" reflect confirmation bias. These comments suggest a preference for certain brands (Apple, Beats) and a reluctance to consider alternatives.
- Polarization and Tribalism: Comments expressing strong brand preferences, such as "I'm wearing the crusher evos rn over all the best headphones I've ever used" and "Sony really putting in that work I've never had headphones even close to as good as the xM4's," indicate a form of tribalism. Users are aligning themselves with specific brands and expressing loyalty to them.

- Amplification of Stereotypes through Visuals and Memes: Although the content is primarily text-based, it's discussing popular headphone brands and models. This can contribute to the amplification of stereotypes related to certain brands being superior or more desirable.

6 DISCUSSION

The findings of our study provide valuable insights into the intricate dynamics of stereotyped-information behavior on the TikTok platform and try to shed light on several critical aspects:

1. Prevalence of Stereotyped-Information Behavior: The analysis revealed that stereotyped-information behavior is not only prevalent but also multifaceted. Users engage with content in ways that often align with their pre-existing beliefs, demonstrating tendencies towards confirmation bias and polarization this closely align with the result of the two studies done by Munro and Ditto (1997) when they examined biased assimilation and attitude polarization occurrence in the processing of information and the effect in these processes.

2. Role of Visual Content in Stereotyping: The visual nature of TikTok, characterized by short, engaging videos, amplifies the potential for stereotype reinforcement. Visuals and memes play a significant role in conveying information and can be powerful tools for the dissemination of both accurate and biased information.

3. Filter Bubbles and Echo Chambers: The study suggests that TikTok, like other social media platforms, contributes to the formation of filter bubbles and echo chambers. Users may find themselves surrounded by content and interactions that reaffirm their existing beliefs, potentially limiting exposure to diverse perspectives (Cinelli et al., 2021).

The findings of this study contribute to existing theories related to information behavior, social media engagement, and cognitive biases. By unpacking the nuanced ways in which users interact with content on TikTok, we provide empirical support for concepts such as confirmation bias, filter bubbles, and polarization.

It is important to acknowledge the limitations of this study. The sample size and duration of data collection may impact the generalizability of the findings. Additionally, while efforts were made to categorize comments accurately, interpretations are subject to some level of subjectivity.

Future research could expand on this study by incorporating a larger and more diverse sample. Longitudinal studies could provide insights into how stereotyped information behavior evolves over time. Furthermore, qualitative approaches may offer
7 CONCLUSION

The present study delved into the phenomenon of stereotyped-information behavior within the realm of social media, with a specific focus on the TikTok platform. Through an exploratory approach, we sought to unravel the intricate dynamics at play when users interact with content that may reinforce existing beliefs and stereotypes.

In conclusion, this research underscores the need for continued investigation into the ways social media platforms influence the consumption and processing of information. As these platforms continue to shape public discourse, it is imperative that users, content creators, and platform developers alike remain vigilant in their efforts to mitigate the potential perpetuation of stereotypes.

8 REFERENCES


Ng, R., & Indran, N. (2023). Videos about older adults on TikTok. PLOS ONE, 18(8), e0285987. https://doi.org/10.1371/journal.pone.0285987.


