

# #Vaping and #Nicotine Content on TikTok: A Comparative Analysis of Themes and User Interaction

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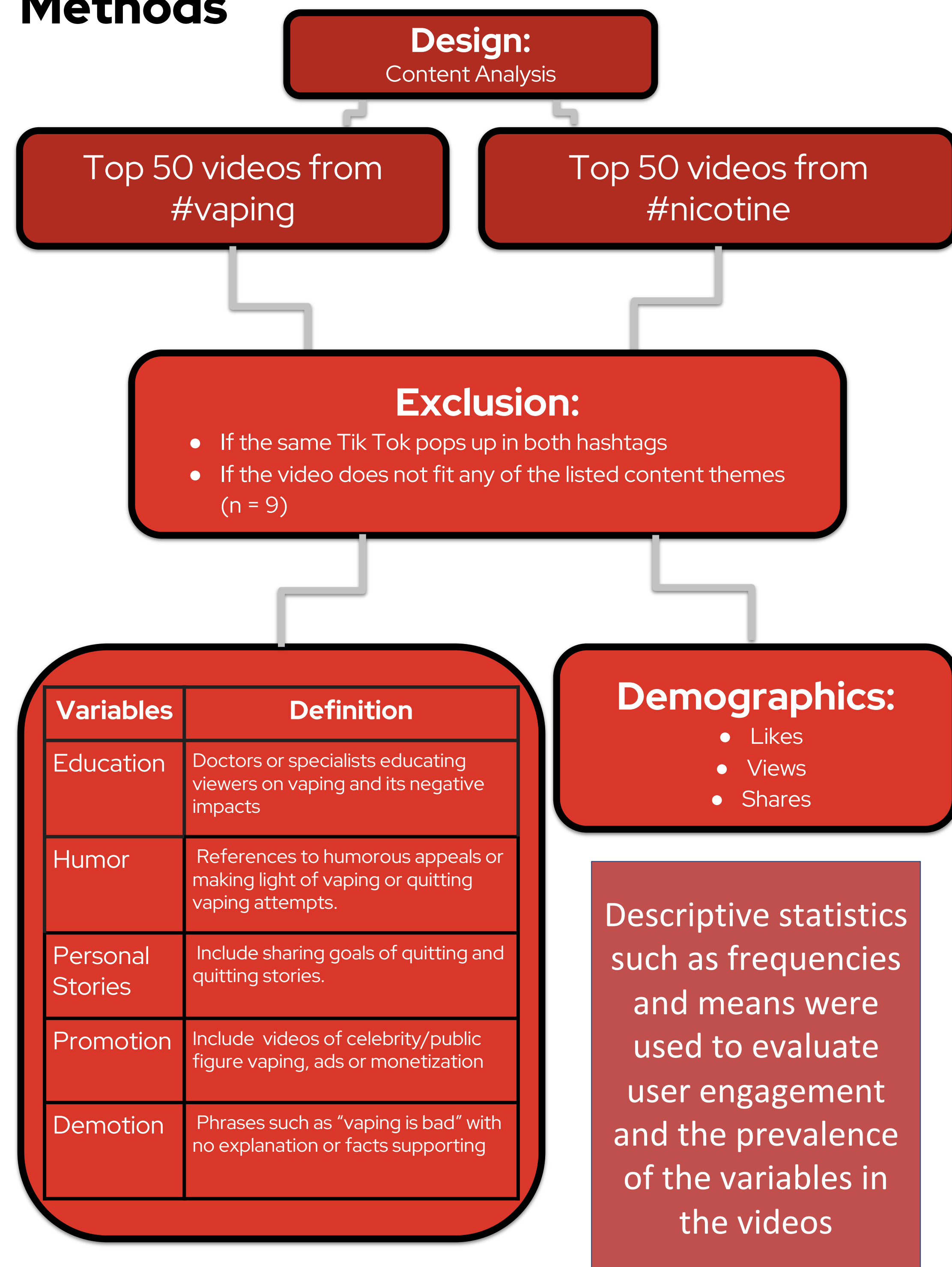
## Introduction

- E-cigarettes include a diverse group of devices that allow users to inhale an aerosol, which typically contains nicotine, flavorings, and other additives
- 78% of adolescents have been exposed to at least one e-cigarette advertisement
- National Institute on Drug Abuse (NIDA) found that the prevalence of vaping among adolescents has tripled in the span of two years
- The TikTok vaping community has over 1.1 billion views collectively
- According to the U.S. Department of Health and Human Services, adolescents can feel dependent on nicotine sooner than adults
- TikTok's algorithm-driven platform keeps individuals engaged by offering highly personalized and diverse content, which can influence trends, self-expression, and social interactions especially among adolescents as two-thirds of adolescents have TikTok

**Gap:** Few studies have analyzed #vaping and #nicotine content on TikTok to compare and assess their most prominent themes

The **purpose of this study** is to address the gap in comparing vaping and nicotine content on TikTok in order to better understand the prevalence of content such as humor, education, personal stories, promotion, and demotion.

## Methods



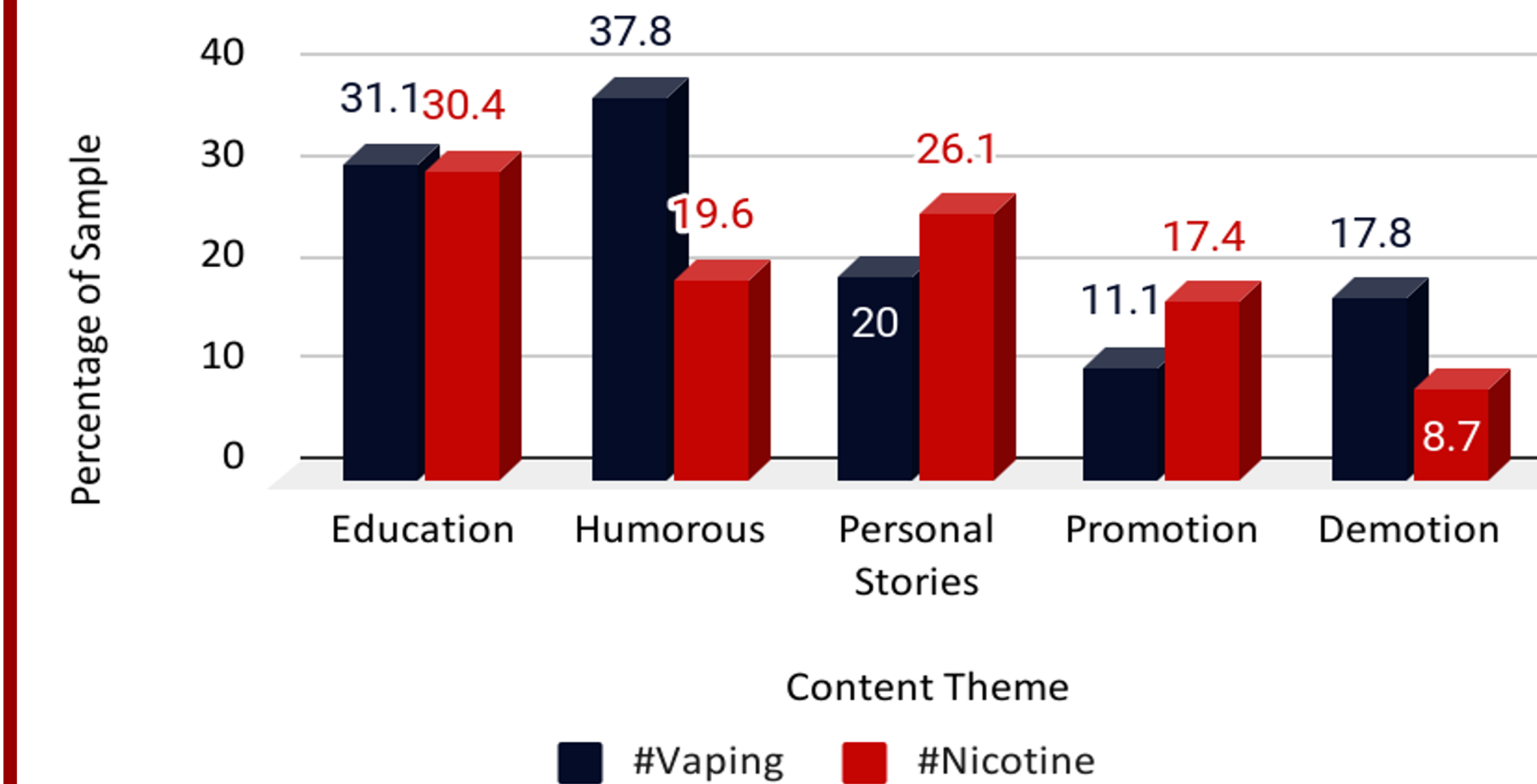
## Results

-In total, 91 TikToks were analyzed, #nicotine n = 45, #vaping n = 46

	Mean	
Column 1	# #Vaping	# #Nicotine
Views	2,901,442	2,076,892
Shares	35,905	15,832
Likes	290,799	275,183

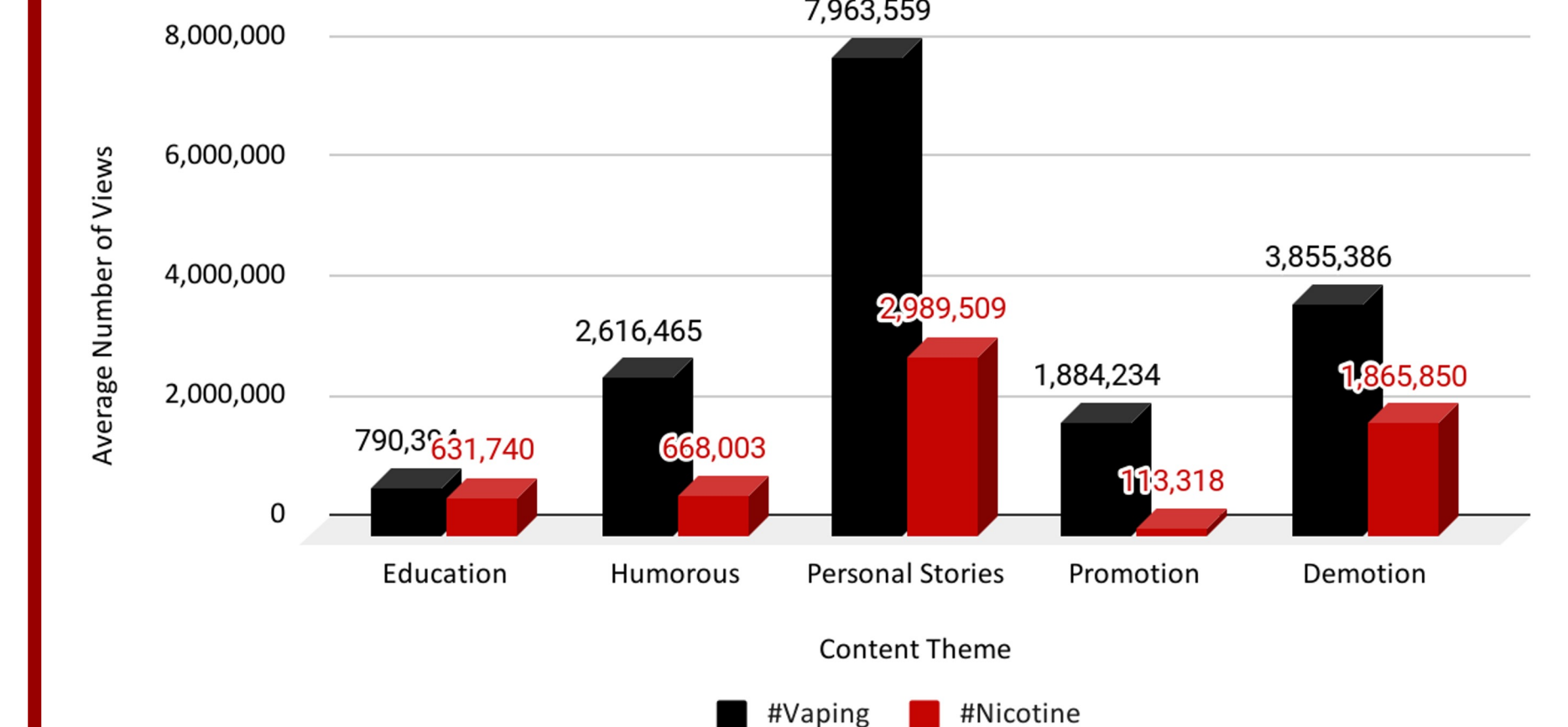
- On average, #Vaping has more than twice the amount of shares on videos than shares in #Nicotine
- In #Nicotine, **promotional content** received the fewest average shares with 1,007 shares
- Educational** content received the fewest average shares in #Vaping with 6,899 shares

### Proportion of Theme Present Among Sample

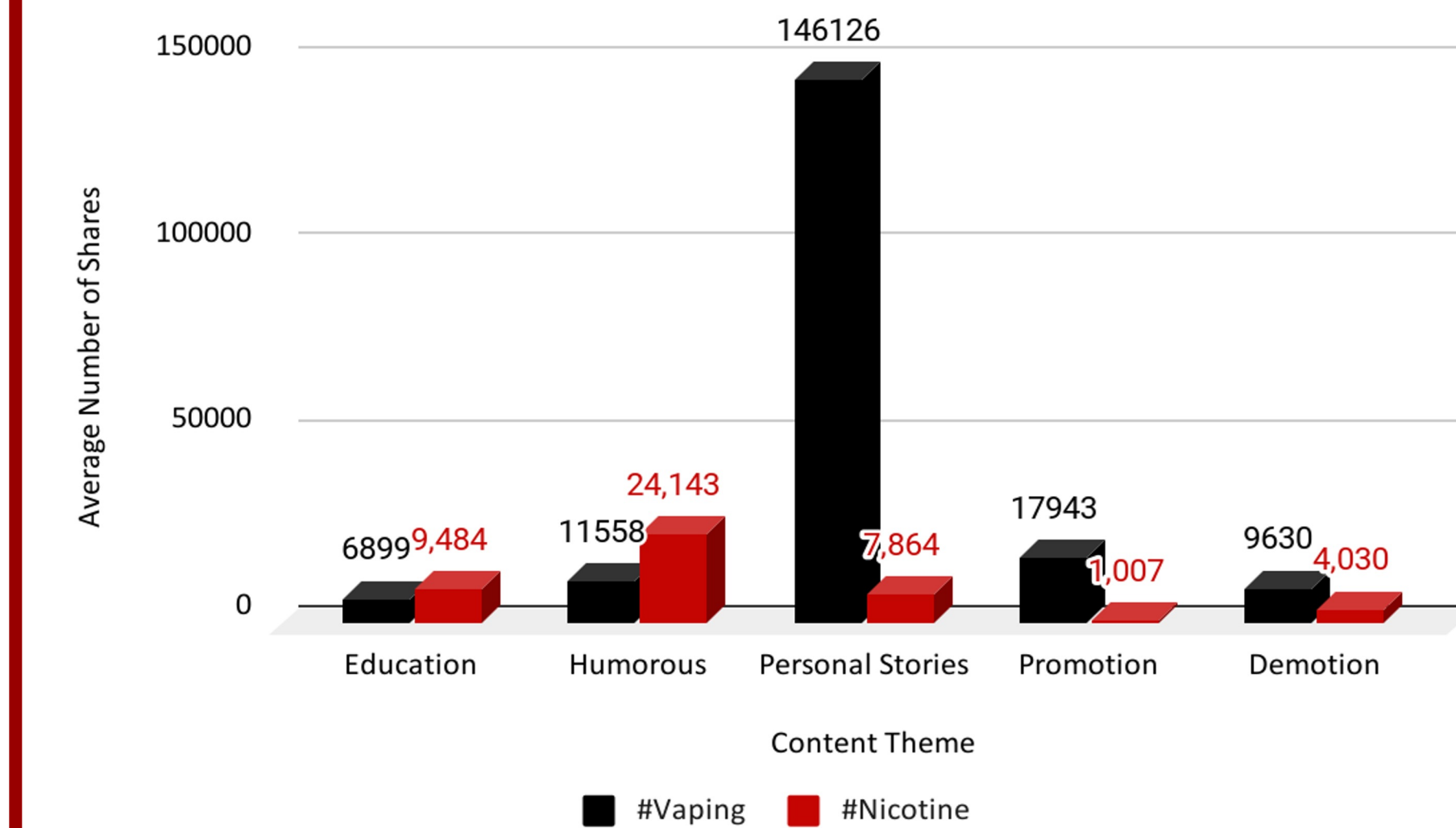


-**Educational Content** had similar prevalence in both both hashtags with 31.1% in #Vaping and 30.4% in #Nicotine

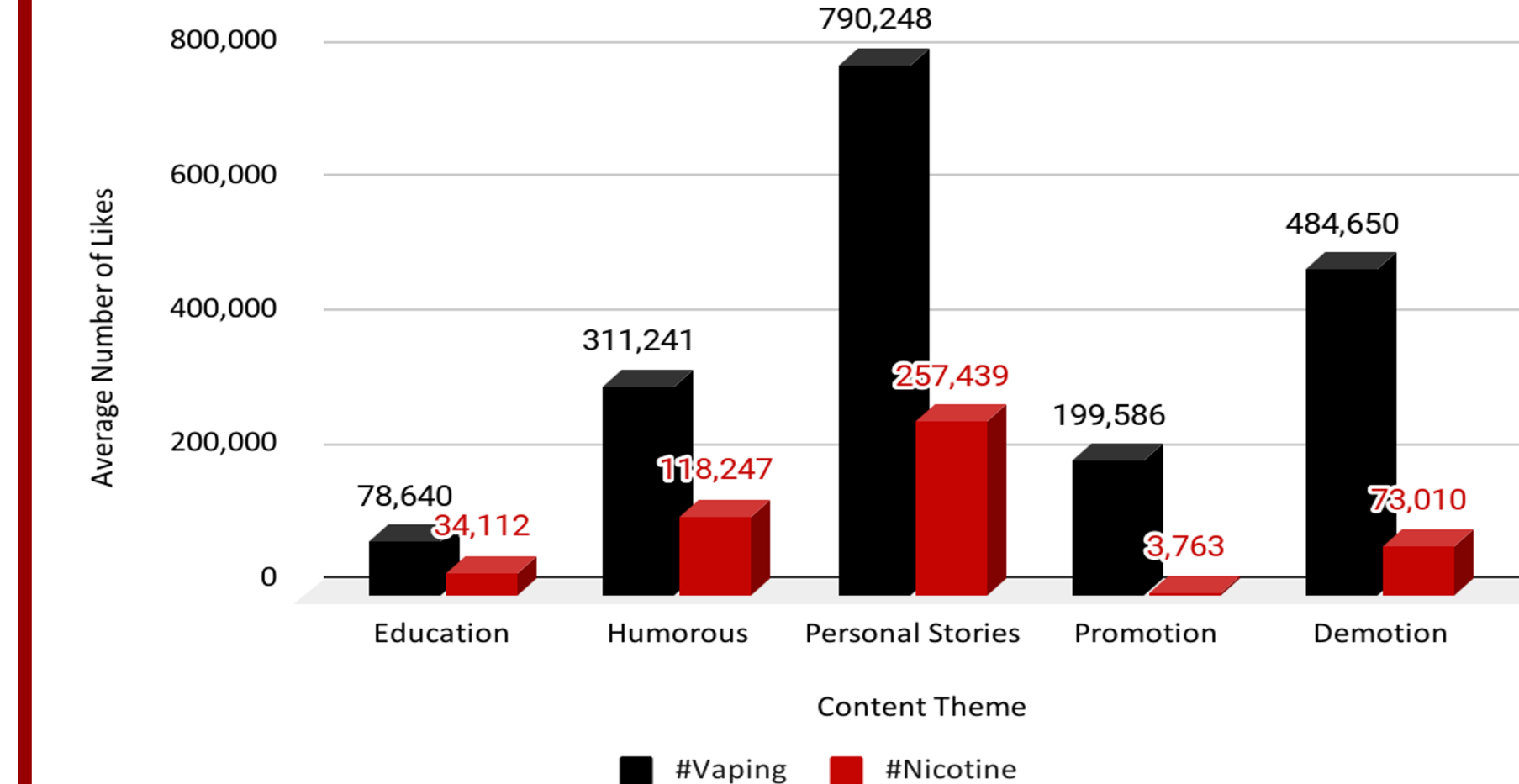
### Average Views on #Vaping and #Nicotine Comparing Differences Across Themes



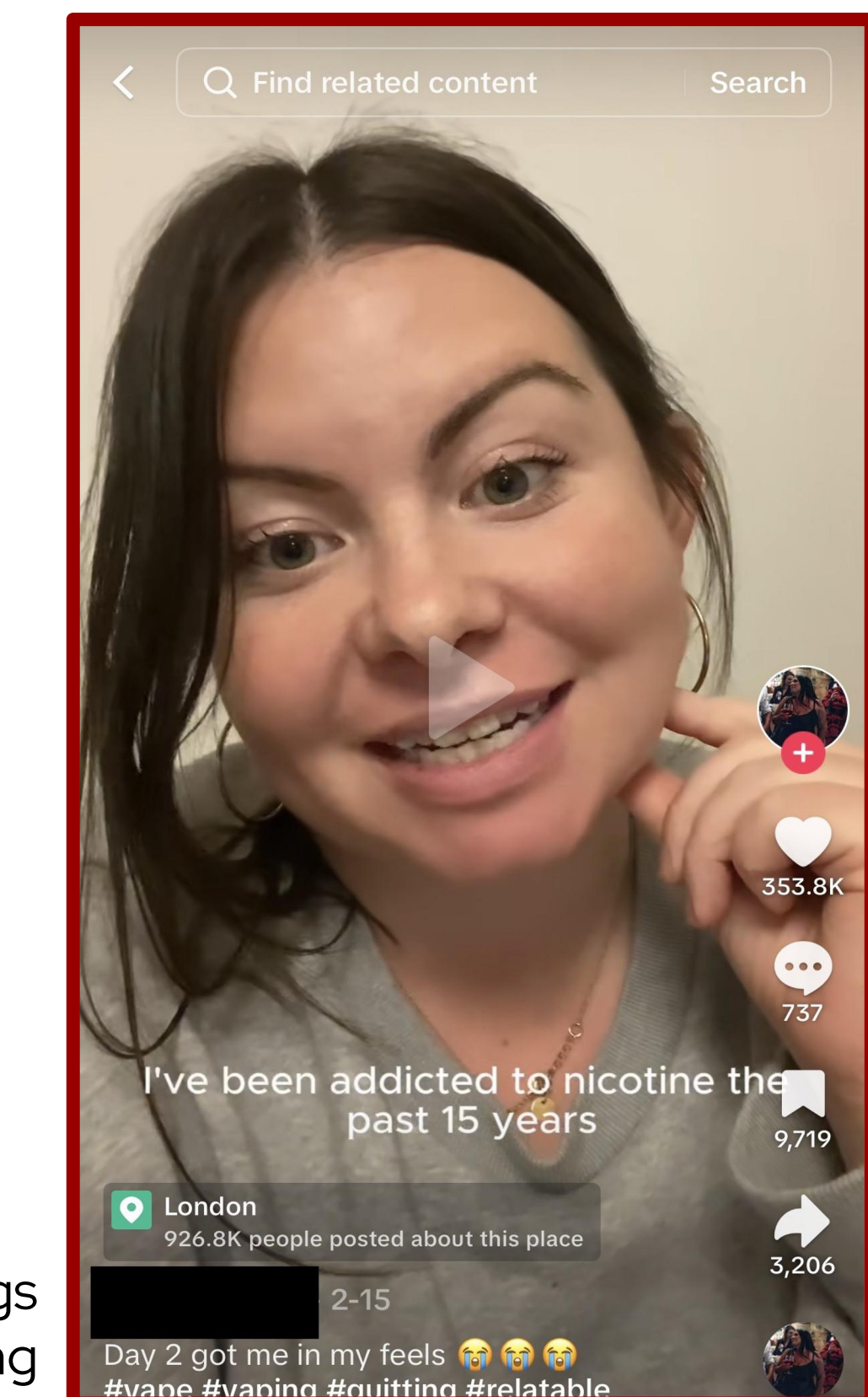
### Average Shares on #Vaping and #Nicotine Comparing Differences Across Themes



### Average Likes on #Vaping and #Nicotine Comparing Differences Across Themes



-On average, **personal stories** received the most likes among both hashtags  
-**Promotional content** received the least amount of likes on average among both hashtags



Example post from #Vaping with personal story content

## Conclusions

### Key Findings

- #vaping had higher average views, shares, and likes compared to #Nicotine.
- Educational Content** was most prevalent in #Nicotine whereas **Humorous content** was most prevalent in #Vaping
- Personal Stories** receiving the highest average views, shares, and likes across both hashtags
- Promotional Content** received the least views and likes across both hashtags

### Limitations

- A larger or randomized sample size from each hashtag would provide more accurate and reliable data
- Creators may pay to get their content boosted or buy likes

## Implications

- Viewers seem have a preference for content with real-life experiences they can sympathize or relate to over generic content with no emotional appeal
- Promotional content received the least engagement suggesting that it is less effective in capturing audience attention.
- Content specific to vaping seems to have a greater appeal which can be useful to educators or marketers promoting health campaigns
- Using educational content for #Nicotine and humorous content for #Vaping seems to align with user preferences and will boost engagement
- Future studies should explore how personal stories and education content impact adolescents who use nicotine

## Acknowledgements

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