DESIGNING DIGITAL INCLUSIVITY MAPPING AND SHAPING ONLINE ENVIRONMENTS FOR THE LGBTQ+ COMMUNITY (DATA DONATION RESEARCH)

INTRODUCTION + MAIN FINDINGS

Online environments have been an essential part of the lives of LGBTQ+ people for finding community. However, they are disproportionally subjected to hate and marginalization on the internet. How can we examine online environments of LGBTQ+ people? We asked three people who identify as queer to donate their Instagram data and one of them also donated their TikTok data. With this ecologically valid dataset we were able to explore these two platforms from individual, unique perspectives.

Main findings

- 1. In the TikTok network analysis, queer hashtags frequently coincide with other content clusters and appear to be central to the donater's interests (Figure 1).
- 2. Despite only representing 8% of videos watched (Figure 2), queer videos reported the highest rate of video watch times, indicating the TikTok donor pays more attention to this content (Figure 4).
- 3. This high engagement in queer content of the TikTok donor did not appear to influence advertising efforts as ads shown and promoted posts were not often part of the queer cluster.
- 4. Due to the eleven years of Instagram data available, we were able to observe the shift of donors interacting with mostly individual accounts to later on, larger, public queer

TIKTOK

A QUEER CO-HASH NETWORK

This network graph represents the primary topic clusters derived from coinciding hashtags in the captions of videos watched by the data donor. The size of the node corresponds with the frequency of the hashtag appearing within the dataset (17,788 vids).



accounts. (Figure 5).

REFLECTIONS ON DATA DONATIONS

With data donations social media posts can be analyzed chronologically within context of the donor's feed. Posts with low view counts made up a large proportion of posts viewed by the donor's. Compared to analyses of social media platforms with bot accounts this ecological valid data is closer to actual user activity.

Working with data donations depends heavily on the information provided by social media platforms. Between TikTok and Instagram, who structure user data differently, the discrepancies present methodological challenges to cross-platform analysis.

INSTAGRAM

STREAMGRAPH & RANKFLOW INSTAGRAM FIG 5

While the streamgraphs highlight when queer content was engaged with via suggested accounts, the RankFlows zoom in on how they individually engage with queer content.



TIKTOK TIME-SERIES ANALYSIS

FIG 3

10%

We sorted the dataset by date of the video watched and computed the cluster percentages over time using a rolling window of 300 consecutive videos. A rolling window averages data within a fixed number of points to smooth fluctuations and reveal trends. We then computed the average watch time for each video in a specific cluster by dividing the video's length by the time gap between two consecutive videos.

Food

THE PERCENTAGE OF QUEER VIDEOS REMAINS RELATIVELY LOW ...



2012 2023 2013

Culture_3

ersonal_21

Personal_34

Education_2

Personal_13

Personal_32

Personal_22

Personal_35

ersonal_36

Other_4

Personal_19

Personal_31

Personal_37

Personal_29

Personal_30

Personal_11

Personal_14

Personal_26

Personal_32

Eductaion_1 Influencer_3

Personal_33

Personal_23

Personal_15

Personal_14

Personal_26

Personal_27

Personal_28

Personal_29

Personal_30

Personal_16

Other_3

Personal_38

Personal_35

Personal_39

Personal_40

Personal_6

Personal_41

Influencer_5

Personal_42

Personal_43

Other_5

Culture_4

Offline account_1

Personal_35

Personal_6

Other_5

Culture_5

ersonal_38

Other_3

Personal_44

Personal_45

Personal_46

Personal_21

Personal_47

Influencer_6

Personal_48

Personal_31

ne account_1

Personal_29

Culture_6

Other_5

Personal_45

Influencer_7

Politics_1

Personal_46

Personal_35

Personal_21

Other_6

Culture_7

ersonal_29

Politics_2

Other_7

Culture_8

News_1

Personal_35

Education_3

Personal_43

PersonaL21

Culture_9

ffline Account_2

ersonal_49

Politics_3

Account_2

Personal_50

Culture_8

Personal_6

Personal_51

Politics_2

Personal_52

Personal_33

Culture_10

LIVE YOUR STORY

Queer Theatre



Other_2

Personal_2

Personal_3

Personal_4

Personal_5

Personal_6

Personal_7

Personal_8

Personal_9

Personal_10

Personal_11

Personal_12

OZ

0

DATA

Personal_15

ersonal_2 (LINK)

Influencer_1

Personal_16

Personal_17

Personal_4

Personal_18

rsonal_6

Personal_1

Personal_19

Personal_20

Personal_21

ersonal_22

Other_2

Personal_17

Personal_23

Culture_3 Influencer_4 Personal_24 Personal_25



... BUT THEY ARE CONSISTENTLY VIEWED FOR THE LONGEST TIME

Average completion rate of a video, over a rolling window of 300 videos

