# What Makes A Video Radicalizing? Identifying Sources of Influence in QAnon Videos

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#### Abstract

In recent years, radicalization is being increasingly attempted on video-sharing platforms. Previous studies have been proposed to identify online radicalization using generic social context analysis, without taking into account comprehensive viewer traits and how those can affect viewers' perception of radicalizing content. To address the challenge, we examine QAnon, a conspiracy-based radicalizing group, and have designed a comprehensive questionnaire aiming to understand viewers' perceptions of QAnon videos. We outline the traits of viewers that QAnon videos are the most appealing to, and identify influential factors that impact viewers' perception of the videos.

#### **1** Introduction

Radicalization, the process of developing extremist ideologies and beliefs in others, has been increasingly seen on social media in recent years. Previous studies have proposed to identify online radicalization using lexical and social context analysis. However, much of the current radicalization is being attempted on video-sharing platforms, where multimodality features beyond text can be powerful in the promotion of extremist content. Moreover, generic social context analysis does not take into account comprehensive viewer traits and how those can affect viewers' perception of radicalizing content. To address these challenges, we focus on radicalization in YouTube and BitChute. We examine QAnon, a conspiracy-based radicalizing group originated in 2017. We have collected a QAnon video corpus from YouTube and BitChute, and have designed a comprehensive questionnaire aiming to identify traits of viewers that QAnon videos are the most appealing to, influential factors that contribute to viewers' perception, and how these traits differ between pro- and anti-QAnon videos. To the best of our knowledge, this is the first work aiming to computationally analyze viewers' perception of QAnon video.

In this study, we focus on three main research questions: **RQ1:** What viewer traits, such as personality traits and media consumption, are associated with their video preferences? **RQ2:** What video characteristics, such as speaker traits, video quality, and arousing emotions, are correlated with viewers' perception? **RQ3:** Which modality features affect viewers' perception the most?

#### 2 Related Work

Much work has been done on radicalization in social media. Hartung et al. (2017) attempt to identify right-wing extremist content in German Twitter profiles; Hofmann et al. (2022) leverage network structure of Reddit forums to detect polarized concepts; and López-Sáncez et al. (2018) and Araque and Iglesias (2020) develop methods to identify radicalizing content in Twitter. Research has also been done using multimodal features to detect radicalization in Jihadist YouTube videos using social network analysis and sentiment (Bermingham et al., 2009). Ribeiro et al. (2020) collect 330,925 YouTube videos to identify radicalizing pipelines for far-right groups, and Ai et al. (2021) identify multimodal features of far-right and far-left groups which them more popular and more persuasive.

In recent years, QAnon has been identified as one of the prime conspiracy-based radicalization groups (Amarasingam and Argentino, 2020; Garry et al., 2021). However, little study has computationally analyzed QAnon related videos, in terms of how these videos drag viewers into the process of radicalization, and who the videos are the most appealing to. Therefore, in this work, we aim to identify the viewers that are attracted the most to QAnon videos, and influential factors of the videos that contribute the most to viewers' perception.

# **3** Corpus and Annotation Collection

We have collected 5,924 YouTube and BitChute videos on QAnon to study a full range of multi-

modal characteristics of QAnon videos. We then select a small subset of these videos, 3 pro- and 3 anti-QAnon, based on the videos' relevance to the topic, duration, diversity in styles, quality of content, and popularity measured by number of likes, comments and shares. To obtain human rating, we create a comprehensive questionnaire asking raters to explain aspects of their perception of the videos and of QAnon, and the actions they believe that they or others might take after watching the videos. The questionnaire is included in Appendix B.

#### 3.1 Rater Demographics and Background

A total of 46 raters take part in the questionnaire. In the beginning of the questionnaire, we ask raters a few questions about their own demographics, including gender, age, ethnicity, level of education, and political leaning. See Table 25 in Appendix B for the full question set. The distribution of rater demographics is shown in Figure 1 in Appendix C. We also ask raters to provide personality information, as we are interested in learning a comprehensive profile of viewers that would be attracted to either pro- or anti-QAnon videos. For this, raters complete the Ten Item Personality Inventory (Gosling et al., 2003), that measures the Big Five personality dimensions: Neuroticism, Extraversion, Openness to Experience, Agreeableness, and Conscientiousness. The responses are summarized in Figure 2 in Appendix C.

To study how individuals' perception of potentially radical videos may be affected by their initial impression of extremist groups and the media they consume, we ask raters to rate their opinions, positive, negative or neutral, of five well-known extremist groups, and how much they trust eight of the mainstream media sources. The five extremist groups include three far-right groups (QAnon, The Proud Boys, Oath keepers) and two far-left groups (Antifa, the subset of BLM that involves in violent actions); and the eight media sources are Fox News, Breitbart News, MSNBC News, PBS News, Associated Press News (AP), NPR, The Wall Street Journal (WSJ), and CNN. The political bias of these media sources are obtained from Media Bias/Fact Check  $(MBFC)^1$ . The responses are summarized in Figure 3 and 4.

#### 3.2 Evaluation Metrics

As Borum (2011) argues, radicalization needs to be distinguished from action pathways, the process of engaging in violent extremist actions, as most people with radical ideas do not engage in violent actions or terrorism. Being curious about certain extremist groups, or even considering joining the groups, are often the first steps in such action pathways. In this study, we generalize the concept of radicalization as the process of developing extremist ideologies and taking the first steps in the action pathways towards violence. Therefore, to better assess the level of radicalization of a video, we separately evaluate viewers' overall impression towards the video, including whether they enjoy watching the video in general, how they feel about the content of the video, and the actions they think they would take after watching the video. With this purpose, we use 3 metrics:

- 1. Enjoyment Score: raters are asked to rate how much they enjoy watching each video on a 5-point Likert scale. The Enjoyment Scores are converted to [-2, 2].
- Content Score: raters are asked to say whether they think a video is persuasive, trust-worthy, logical, and professionally created and these rating scores are each converted to [-1, 1]. Each video's Content Score is the sum of these 4 traits' scores. High Content Scores imply that raters agree with the video content and think that it was was valid, trustworthy, persuasive, and logical.
- Actions Score: raters are asked whether they would take the following actions after watching a video, listed from the most active gourp opposing actions to the most active group supporting actions: a) posting a criticizing comment [score -2] b) disliking the video [score -1] c) liking the video [score 1] d) posting a supporting comment [score 2] e) considering joining the group [score 3]. The Actions Score of a video is the sum of these actions' scores. The higher the Actions Score, the more actively the raters support the video, or even the QAnon ideology.

# **4** Analyzing Viewer Ratings and Traits

In this and the following sections, we use the words rater and viewer interchangeably. To answer **RQ1**,

<sup>&</sup>lt;sup>1</sup>https://mediabiasfactcheck.com/

we investigate how viewers' self-reported personalities, initial impression of extremist groups, and their media consumption correlate with their preference for QAnon videos. We examine how these traits correlate with the Enjoyment Scores, Content Scores, and Actions Scores they give to all QAnon videos as well as just to pro- or anti-QAnon videos. For each metric score, we calculate a viewers' overall score on all videos, pro-QAnon videos, and anti-QAnon videos as the average score they give to each video, to each pro-QAnon video, and to each anti-QAnon video.

We perform significance tests on the Spearman's correlation between these viewer traits and the three metric scores. For our Enjoyment Score, the significant viewer traits (p-value < 0.05) are presented in Table 1. Viewers having a positive opinion of Antifa and of The Proud Boys enjoy watching all our QAnon videos in general. Particularly, viewers with a positive opinion towards Antifa enjoy watching anti-QAnon videos. This matches our impression because The Proud Boys is also a far-right group, thus, viewers supporting The Proud Boys enjoy watching QAnon videos in general; whereas Antifa is a left-wing group, thus, viewers supporting Antifa enjoy watching anti-QAnon videos. Viewers trusting CNN news tend to enjoy watching QAnon videos, especially, the pro-QAnon videos, which is somewhat surprising since CNN is a left-biased media. One possible explanation could be that sometimes, people might feel hilarious when perceiving information from the opposite side. Other viewers enjoying watching pro-QAnon videos are those who trust the WSJ, aligning with our assumption that rightleaning viewers would trust a right-center based source.

Enjoyment on All Videos			
Feature	Corr	p-value	
Opinion_CNN	0.358	0.0146	
Opinion_Antifa	0.345	0.0189	
Opinion_ProudBoys	0.297	0.0452	
Enjoyment on Pro-QAnon Videos			
Feature	Corr	p-value	
Opinion_CNN	0.329	0.0255	
Opinion_WSJ	0.298	0.0440	
Enjoyment on Anti-QAnon Videos			
Feature	Corr	p-value	
Opinion Antifa	0.368	0.0119	

Table 1: Significant viewer ratings and traits (p-value < 0.05) on Enjoyment Scores

For our Content Score, the significant viewer

ratings and traits are listed in Table 2. Generally, viewers who trust Fox News agree with the content of our selected QAnon videos, specifically, pro-QAnon videos. This agrees with our presumption, as Fox News is rated as right-biased media. On the other hand, viewers trusting NPR and AP tend to disagree with the content of pro-QAnon videos, which makes sense, since both media sources are left-center biased. In addition, viewers who are self-reported as reserved and quiet tend to agree with the content of anti-QAnon videos.

Content of All Videos				
Feature	Corr	p-value		
Opinion_Fox	0.430	0.00283		
Content of P	ro-QAno	n Videos		
Feature	Corr	p-value		
Opinion_Fox	0.487	0.000592		
Opinion_NPR	-0.376	0.0100		
Opinion_AP	-0.330	0.0253		
Content of A	Content of Anti-QAnon Videos			
Feature	Corr	p-value		
Reserved	0.339	0.0213		

Table 2: Significant viewer traits and ratings (p-value < 0.05) on Content Scores

For our Actions Score, the significant viewer ratings and traits are listed in Table 3. As we expect, viewers with positive opinions towards Oath Keepers, Fox News, and WSJ tend to actively support selected QAnon videos, especially pro-QAnon videos, because Oath Keepers is considered a far-right group, and Fox News and WSJ are both right leaning. Surprisingly, viewers with positive opinions towards Antifa and CNN also tend to support pro-QAnon videos. In addition, viewers self-reported as disorganized and careless tend to support anti-QAnon videos, and viewers self-reported as sympathetic and warm tend to oppose anti-QAnon videos.

# 5 Analysis of Video Characteristics

To answer question **RQ2**, the following information is collected from raters:

**Overall Impression:** raters' overall impression of the videos, including whether they find them boring, lively, persuasive, trustworthy, logical, professionally created, and making a valid point (see Question 2, 8 and 15 in Table 26 and 27). Each response is converted into a score from [-1, 1].

**Arousing Emotions:** the emotions raters feel when watching the videos, including Ekman's 6 emotions (Ekman and Friesen, 1971) and confused

Actions after All Videos				
Feature	Corr	p-value		
Opinion_OathKeepers	0.387	0.00793		
Opinion_Antifa	0.359	0.0143		
Opinion_Fox	0.350	0.0172		
Opinion_WSJ	0.322	0.0291		
Actions after Pro-QAnon Videos				
Feature	Corr	p-value		
Opinion_OathKeepers	0.370	0.0114		
Opinion_Fox	0.358	0.0145		
Opinion_WSJ	0.346	0.0186		
Opinion_CNN	0.298	0.0442		
Opinion_Antifa	0.295	0.0467		
Actions after Anti-	QAnon V	ideos		
Feature	Corr	p-value		
Disorganized	0.318	0.0312		
Sympathetic	-0.317	0.0321		

Table 3: Significant viewer traits and ratings (p-value < 0.05) on Actions Scores

(see Question 12 in Table 27). Each emotion is scored 1 if selected present, and 0 otherwise.

**Speaker Characteristics:** the traits of the speakers appearing in videos. We select a subset of speaker traits used in (Yang et al., 2020) to define the level of charisma of a speaker, including charismatic, confident, eloquent, enthusiastic, intelligent, convincing, tough, charming, and angry (see Question 10 in Table 27). Each rating is converted into a score ranging [-1, 1].

We perform significance tests on the Pearson's correlation between the above traits and ratings and the three metric scores. For our Enjoyment Score, the significant results are listed in Table 4. For pro-QAnon videos, those rated as more valid and persuasive are enjoyed more by viewers. However, no other significant traits are found to be associated with the Enjoyment Score of anti-QAnon videos, or of all QAnon videos in general.

Enjoyment on Pro-QAnon Videos			
Feature	Corr	p-value	
Validness	0.999	0.0234	
Persuasive	0.997	0.0452	

Table 4: Significant video traits and ratings (p-value < 0.05) on the Enjoyment Scores

Since the Content Score is a sum of persuasive, trustworthy, logical, and professional scores, we exclude these 4 traits when performing another set of correlation significance tests on our Content Score. As shown in Table 5, for anti-QAnon videos, if viewers feel disgusted or boredom when watching them, they tend to disagree with the content. No other significant traits are found to be specifically associated with the Content Score of pro-QAnon videos, or all selected QAnon videos in general.

Content of Anti-QAnon Videos			
Feature	Corr	p-value	
Disgust	-0.998	0.0440	
Boring	-0.998	0.0440	

Table	5: S	ignifican	t video	traits	and	ratings	(p-value	e <
0.05)	on tl	he Conte	nt Score	es				

Looking at our Actions Scores, we find that viewer ratings that are positively correlated with supporting actions are whether the videos are trustworthy, persuasive, logical, and making a valid point. Similarly, for anti-QAnon videos, viewers are also more likely to take supporting actions after watching the videos if they think the videos are trustworthy. On the other hand, if the speakers in the videos are rated as enthusiastic, the viewers indicate that they are less likely to take supporting actions. For anti-QAnon videos, the liveliness of videos is also negatively correlated with supporting activity. No significant traits are found to be associated with the Actions Scores of pro-QAnon videos.

Actions Likely after All Videos				
Feature	Corr	p-value		
Trustworthy	0.968	0.00150		
Validness	0.964	0.00191		
Persuasive	0.905	0.0131		
Logical	0.875	0.0225		
Enthusiastic	-0.951	0.0486		
Actions after Anti Videos				
Feature	Corr	p-value		
Trustworthy	1.00	0.0114		
Lively	-1.00	0.0167		

Table 6: Significant video ratings (p-value < 0.05) on the Actions Scores

#### 6 Multimodal Feature Analysis

To answer **RQ3**, we further analyze multimodal features of these videos, including textual, acoustic, and visual features. We perform analysis on 2 levels: (1) inter-pausal unit (IPU) segment level; (2) whole video level. We further perform significance tests on the Pearson's correlation between all the multimodal features and the three metric scores on both IPU segment level and video level. The complete lists of significant multimodal features are summarized in Appendix A, and here we highlight some of the key and interesting findings.

#### 6.1 Textual Features

To obtain textual features, we extract speech transcripts of these videos using the Google Speech-to-Text service <sup>2</sup>. We then use Linguistic Inquiry and Word Count (LIWC) (Pennebaker et al., 2015) to extract lexico-semantic features, Grievance Dictionary (van der Vegt et al., 2021) to extract psycholinguistic features, and VADER (Hutto and Gilbert, 2014) to extract textual sentiment scores.

The list of significant segment level textual features are summarized in Table 7, 8, and 9 in Appendix A.1.1. In general, lexicons related to friends and gender are positively correlated with how viewers perceive the videos, in terms of how they enjoy watching the videos, agree with the content, and take active actions afterwards. Lexicons related to violence are negatively correlated with how viewers enjoy watching the videos. For pro-QAnon videos, lexicons related to violence, weapons, threat, power, and soldiers are significantly and negatively correlated with how viewers perceive the videos. These are when the topics such as war and crimes are being talked about. In addition, VADER sentiment is positively correlated with with how viewers perceive the videos for pro-QAnon videos. For anti-QAnon videos, lexicons related to friends are positively correlated with viewer perception.

On video level, no significant lexical features stands out for pro-QAnon videos. For anti-QAnon videos, or QAnon videos in general, lexicons related to loneliness positively affect how viewers enjoy watching the videos. Viewers also tend to agree with the content more if lexicons related to gender and family are mentioned; and they tend to disagree with the content if paranoia words such as "crazy" are mentioned. The complete list of significant video level textual features are summarized in Table 16, 17 and 18 in Appendix A.2.1.

#### 6.2 Acoustic Features

We extract acoustic-prosodic features, such as pitch and intensity, because they are proven to be relevant to how people express emotion (Sudhakar and Anil, 2015), and attempt to be persuasive (Nguyen et al., 2021) and charismatic (Yang et al., 2020). We also extract emotions from the videos' speech using SpeechBrain system (Ravanelli et al., 2021).

The significant segment level acoustic features are listed in Table 10, 11, and 12 in Appendix A.1.2.

In general, intensity and maximum pitch are negatively correlated with viewer's perception – the louder the speakers are, the less likely that the viewers would enjoy the videos and the content. This is what we observe for all videos, including pro- and anti-QAnon videos. In addition, the more angry the speakers are, the less likely that the viewers would agree with the content.

#### 6.3 Visual Features

For visual features, we extract frame-level facial expression features with a pre-trained FER model <sup>3</sup>. We also detect weapons that appear in the videos using Clarifai's weapon detector model <sup>4</sup>, as we have proven in Secion 6.1 that topics related to violence and war are correlated with viewer' perception.

The significant segment level visual features are listed in Table 13, 14, and 15 in Appendix A.1.3. In general, if speakers appear in the videos show surprise or sad facial expressions, viewers tend to have negative perception. However, speakers' angry expressions are positively correlated with viewers' perception. For anti-QAnon videos, speakers' negative expressions, such as fear and disgust, are negatively correlated with how viewers would enjoy and agree with the videos. In addition, the appearance of weapons, regardless of what types of weapons, has a negative impact on viewers' perception. This agrees with what we observe in textual features, where words related to violence are negatively correlated with viewer' perception.

Similarly, on video level, we observe that speakers' surprise and fear expressions are negatively correlated with how viewers perceive the videos. The complete list of significant video level visual features are summarized in Table 21, 22, and 23.

# 7 Conclusions and Future Work

In this study, we have collected a corpus of QAnon videos and have designed a comprehensive questionnaire. With the responses we collect from the questionnaire, we are able to propose 3 metrics to evaluate viewers' perception towards the videos, and outline the traits of viewers that QAnon videos are the most appealing to, including their personalities, media consumption, and presumption about other radicalizing groups. In addition, we identify video characteristics, including generic content

<sup>&</sup>lt;sup>2</sup>https://cloud.google.com/speech-to-text

<sup>&</sup>lt;sup>3</sup>Facial-Expression-Recognition.Pytorch

<sup>&</sup>lt;sup>4</sup>Clarifai Weapon Detector

traits and arousing emotions, that impact viewers' perception of the videos.

In future, we will analyze multimodal features to investigate what modality features contribute to viewers' perception. We also aim to utilize multimodal features to build models for identifying radical content and techniques.

# Limitations

One of the limitations of this study is the unbalanced distribution of rater demographics. Specifically, 91% of our raters report themselves having a Bachelor's degree or higher, 84.7% of the raters consider themselves to be liberal and moderate, and 91% of the raters belong to the 18-29 age group. In future, we will collect crowdsourcing annotations from a more diverse population.

Another limitation of our study is the size of the data we put out with the questionnaire – 6 videos with 3 pro- and 3 anti-QAnon, because manually selecting videos that are the most relevant and appropriate is extremely time-consuming. However, with this study as an initial step, we will utilize the conclusions we have drawn and aim to make use of the full corpus of 5,924 QAnon videos that we have collected so far for further analysis and model building.

# **Ethics Statement**

We discuss the ethical considerations of our study as follows:

**Data Collection:** We collect videos from YouTube and BitChute, where all videos and their associated metadata are available to public. For YouTube videos, we use the official Google Developer API<sup>5</sup>. For BitChute videos, we scrape publicly available videos and data without utilizing any internal APIs and private access.

**Questionnaire Response Collection:** All raters take part in the questionnaire participate voluntarily and are fully aware of any risks of harm associated with their participation. We do not collect any personal information that would allow us to identify the raters, or to associate them with their responses.

**Data Release:** Due to the sensitivity of the data, the raw videos, video metadata, and detailed questionnaire responses are not made available yet on any platforms. However, we are willing to consider sharing them with other research groups upon request.

<sup>5</sup>https://developers.google.com/youtube/v3/docs

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**A** Significant Multimodal Features

#### A.1 Segment Level Significant Features

# A.1.1 Textual Features

Enjoyment on All Videos					
Feature	Corr	p-value			
violence	-0.138	0.0247			
deadline	-0.125	0.0429			
i	0.165	0.00716			
they	-0.141	0.0220			
male	0.122	0.0475			
social	-0.122	0.0478			
negate	0.122	0.0488			
Enjoyment o	n Pro-OA	non Videos			
Feature	Corr	p-value			
sentiment	0.205	0.0337			
weaponry	-0.387	0.0000384			
violence	-0.324	0.000671			
god	-0.266	0.00556			
soldier	-0.211	0.0294			
threat	-0.202	0.0370			
focuspresent	0.377	0.0000630			
they	-0.351	0.000215			
power	-0.328	0.000554			
ipron	0.323	0.000677			
cognroc	0.301	0.00162			
auxverb	0.291	0.00235			
negate	0.221	0.00255			
we	-0.277	0.00388			
social	-0.277	0.00355			
affiliation	-0.267	0.00543			
i	0.207	0.00545			
tentat	0.201	0.00675			
negemo	-0.242	0.0120			
drives	-0.242	0.0120			
adverb	-0.241 0.231	0.0122			
npron	-0.228	0.0107			
apper	0.220	0.0182			
verb	-0.222	0.0213			
informal	0.219	0.0235			
diffor	0.219	0.0233			
haalth	0.212	0.0281			
health	-0.210	0.0300			
diagram	-0.209	0.0310			
uiscrep	-0.208	0.0314			
D10	-0.190	0.0428			
quant	0.191	0.0484			
Enjoyment or	n Anti-QA	Anon Videos			
Feature	Corr	p-value			
interrog	-0.165	0.0395			

Table 7: Significant segment level textual features (p-value <0.05) on Enjoyment Scores

Content of All Videos				
Feature	Corr	p-value		
god	-0.128	0.0376		
time	-0.217	0.000393		
differ	0.139	0.0245		
friend	0.135	0.0285		
insight	-0.134	0.0303		
ingest	0.122	0.0475		
Content of	Pro-OAn	on Videos		
Feature	Corr	p-value		
sentiment	0.205	0.0337		
weaponry	-0.387	0.0000384		
violence	-0.324	0.000671		
god	-0.266	0.00556		
soldier	-0.211	0.0294		
threat	-0.202	0.0370		
focuspresent	0.377	0.0000630		
they	-0.351	0.000215		
power	-0.328	0.000554		
ipron	0.323	0.000677		
cogproc	0.301	0.00162		
auxverb	0.291	0.00235		
negate	0.280	0.00351		
we	-0.277	0.00388		
social	-0.273	0.00451		
affiliation	-0.267	0.00543		
i	0.261	0.00664		
tentat	0.260	0.00675		
negemo	-0.242	0.0120		
drives	-0.241	0.0120		
adverb	0.231	0.0167		
npron	-0.228	0.0182		
anger	-0.222	0.0215		
verh	0.222	0.0213		
informal	0.219	0.0235		
differ	0.212	0.0281		
health	-0.212	0.0201		
body	-0.210	0.0310		
discren	-0.209	0.0314		
bio	-0.208	0.0314		
quant	0.191	0.0484		
Contont of	Anti OAn	on Videos		
Feature	Corr	n-value		
time	-0.285	$\frac{\mathbf{p} \cdot \mathbf{value}}{0.000316}$		
friend	0.203	0.000510		
focuepast	-0.164	0.00703		
formala	-0.104	0.0409		
ingest	0.103	0.0420		
ingest	0.105	0.0424		
conj	-0.157	0.0498		

Actions after All Videos			
Feature	Corr	p-value	
time	-0.214	0.000479	
friend	0.147	0.0173	
insight	-0.132	0.0321	
negate	0.130	0.0353	
female	0.130	0.0353	
ingest	0.126	0.0417	
Actions after	· Pro-OA	non Videos	
Feature	Corr	p-value	
sentiment	0.205	0.0337	
weaponry	-0.387	0.0000384	
violence	-0.324	0.000671	
god	-0.266	0.00556	
soldier	-0.211	0.0294	
threat	-0.202	0.0370	
focuspresent	0.377	0.0000630	
they	-0.351	0.000215	
power	-0.328	0.000554	
ipron	0.323	0.000677	
cogproc	0.301	0.00162	
auxverb	0.291	0.00235	
negate	0.280	0.00351	
we	-0.277	0.00388	
social	-0.273	0.00451	
affiliation	-0.267	0.00543	
i	0.261	0.00664	
tentat	0.260	0.00675	
negemo	-0.242	0.0120	
drives	-0.241	0.0122	
adverb	0.231	0.0167	
ppron	-0.228	0.0182	
anger	-0.222	0.0215	
verb	0.219	0.0233	
informal	0.219	0.0235	
differ	0.212	0.0281	
health	-0.210	0.0300	
body	-0.209	0.0310	
discrep	-0.208	0.0314	
bio	-0.196	0.0428	
quant	0.191	0.0484	
Actions after	Anti-OA	non Videos	
Feature	Corr	p-value	
time	-0.266	0.000795	
friend	0.195	0.0146	
insight	-0.161	0.0442	

Table 8: Significant segment level textual features (p-value < 0.05) on Content Scores

Table 9: Significant segment level textual features (p-value < 0.05) on Actions Scores

Enjoyment on All Videos					
Feature	Corr	p-value			
Max Intensity	-0.660	3.14E-34			
Mean Intensity	-0.654	1.55E-33			
Sd Intensity	-0.565	1.32E-23			
Sd Pitch	-0.361	1.68E-09			
Max Pitch	-0.354	3.68E-09			
Jitter	0.303	5.66E-07			
Mean Pitch	0.230	0.000164			
Shimmer	-0.134	0.0301			
Enjoyment on	Pro-QAr	on Videos			
Feature	Corr	p-value			
HNR	0.870	5.76E-34			
Mean Pitch	0.738	1.26E-19			
Mean Intensity	-0.713	7.18E-18			
Jitter	0.649	4.15E-14			
Shimmer	-0.640	1.17E-13			
Min Pitch	0.562	2.97E-10			
Max Intensity	-0.507	2.46E-08			
Sd Pitch	-0.440	2.12E-06			
Max Pitch	-0.424	5.42E-06			
Min Intensity	-0.329	0.000548			
Sd Intensity	-0.230	0.0169			
Enjoyment on	Anti-QA	non Videos			
Feature	Corr	p-value			
Max Intensity	-0.832	3.02E-41			
Mean Intensity	-0.829	9.96E-41			
Sd Intensity	-0.678	2.25E-22			
Sd Pitch	-0.348	8.33E-06			
Max Pitch	-0.336	0.0000184			
HNR	-0.328	0.0000285			
Min Intensity	0.298	0.000161			
Jitter	0.172	0.0316			

A.1.2 Acoustic Features

Table 10: Significant segment level acoustic feature	res
(p-value <0.05) on Enjoyment Scores	

Content of All Videos			
Feature	Corr	p-value	
anger	-0.169	0.00602	
Min Intensity	0.618	4.36E-29	
Sd Intensity	-0.428	3.71E-13	
Mean Intensity	0.367	8.08E-10	
Max Intensity	0.353	4.06E-09	
HNR	-0.234	0.000129	
Min Pitch	0.192	0.00171	
Content of P	Content of Pro-QAnon Videos		
Feature	Corr	p-value	
HNR	0.870	5.76E-34	
Mean Pitch	0.738	1.26E-19	
Mean Intensity	-0.713	7.18E-18	
Jitter	0.649	4.15E-14	
Shimmer	-0.640	1.17E-13	
Min Pitch	0.562	2.97E-10	
Max Intensity	-0.507	2.46E-08	
Sd Pitch	-0.440	2.12E-06	
Max Pitch	-0.424	5.42E-06	
Min Intensity	-0.329	0.000548	
Sd Intensity	-0.230	0.0169	
Content of A	nti-QAno	on Videos	
Feature	Corr	p-value	
Min Intensity	0.676	3.58E-22	
Sd Intensity	-0.419	5.21E-08	
HNR	-0.311	0.0000767	
Mean Intensity	0.179	0.0256	

Table 11: Significant segment level acoustic features (p-value <0.05) on Content Scores

Actions after All Videos		
Feature	Corr	p-value
Sd Intensity	-0.543	1.33E-21
Min Intensity	0.518	1.99E-19
Max Pitch	-0.173	0.00488
Sd Pitch	-0.173	0.00494
HNR	-0.164	0.00767
Actions after 1	Pro-QAnc	on Videos
Feature	Corr	p-value
HNR	0.870	5.76E-34
Mean Pitch	0.738	1.26E-19
Mean Intensity	-0.713	7.18E-18
Jitter	0.649	4.15E-14
Shimmer	-0.640	1.17E-13
Min Pitch	0.562	2.97E-10
Max Intensity	-0.507	2.46E-08
Sd Pitch	-0.440	2.12E-06
Max Pitch	-0.424	5.42E-06
Min Intensity	-0.329	0.000548
Sd Intensity	-0.230	0.0169
Actions after A	nti-QAn	on Videos
Feature	Corr	p-value
Min Intensity	0.687	3.77E-23
Sd Intensity	-0.569	8.67E-15
HNR	-0.372	1.74E-06
Max Pitch	-0.164	0.0409

Table 12: Significant segment level acoustic features (p-value <0.05) on Actions Scores

A.1.3 Visual Features
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Enjoyment on All Videos		
Feature	Corr	p-value
neutral	-0.270	1.23E-10
surprise	-0.143	7.95E-04
happy	0.126	3.20E-03
sad	-0.117	6.23E-03
has_weapon	-0.215	1.01E-06
long-gun	-0.210	1.74E-06
sword	-0.148	0.000799
Enjoyment o	n Pro-QA	Anon Videos
Feature	Corr	p-value
happy	0.259	0.0000105
neutral	-0.234	0.0000722
sad	-0.226	0.000127
angry	0.166	0.00532
surprise	-0.143	0.0160
has_weapon	-0.243	0.000133
long-gun	-0.220	0.000567
sword	-0.184	0.00413
Enjoyment on Anti-QAnon Videos		
Feature	Corr	p-value
fear	-0.230	0.000154
surprise	-0.169	0.00579
disgust	-0.156	0.0108

Table 13: Significant segment level visual features (p-value <0.05) on Enjoyment Scores

Content of All Videos		
Feature	Corr	p-value
angry	0.311	9.41E-14
sad	-0.169	0.0000726
surprise	-0.117	0.00628
happy	0.107	0.0122
neutral	-0.0995	0.0198
long-gun	-0.139	0.00163
has_weapon	-0.0923	0.0376
sword	-0.0904	0.0418
Content of	Pro-QAn	on Videos
Feature	Corr	p-value
happy	0.259	0.0000109
neutral	-0.235	0.0000673
sad	-0.226	0.000129
angry	0.165	0.00548
surprise	-0.143	0.0160
has_weapon	-0.243	0.000136
long-gun	-0.220	0.000561
sword	-0.184	0.00409
Content of	Anti-QAn	on Videos
Feature	Corr	p-value
angry	0.482	7.06E-17
neutral	0.167	0.00647
fear	-0.123	0.0451
has_weapon	0.141	0.0213
long-gun	0.143	0.0197

Table 14: Significant segment level visual features (p-value <0.05) on Content Scores

Actions after All Videos		
Feature	Corr	p-value
angry	0.312	8.15E-14
sad	-0.148	0.000514
surprise	-0.131	0.00215
neutral	-0.0905	0.0342
long-gun	-0.124	0.00526
Actions afte	r Pro-QA	ion Videos
Feature	Corr	p-value
happy	0.268	5.20E-06
sad	-0.231	0.0000892
neutral	-0.212	0.000343
angry	0.178	0.00270
surprise	-0.141	0.0182
has_weapon	-0.251	0.0000816
long-gun	-0.215	0.000746
sword	-0.179	0.00531
Actions after	r Anti-QA	non Videos
Feature	Corr	p-value
angry	0.429	2.43E-13
fear	-0.179	0.00335
neutral	0.128	0.0374
surprise	-0.121	0.0495
has_weapon	0.125	0.0424

Table 15: Significant segment level visual features (p-value <0.05) on Actions Scores

#### A.2 Video Level Significant Features

# A.2.1 Textual Features

Enjoyment on All Videos		
Feature	Corr	p-value
loneliness	0.969	0.00645
planning	-0.921	0.0265
<b>Enjoyment on Anti-QAnon Videos</b>		
Feature	Corr	p-value
loneliness	0.998	0.0360
honour	0.998	0.0429
home	1.000	0.00794

Table 16: Significant video level textual features (p-value <0.05) on Enjoyment Scores

Content of All Videos		
Feature	Corr	p-value
relativ	-0.933	0.0208
time	-0.903	0.0358
percept	-0.899	0.0380
sexual	0.889	0.0436
adj	0.885	0.0462
Content o	of Anti-QA	non Videos
Feature	Corr	p-value
god	-1.000	0.0174
paranoia	-1.000	0.0174
family	0.999	0.0234
female	0.998	0.0440
sexual	0.998	0.0440
ingest	0.000	0.0440
mgest	0.998	0.0440
death	0.998	0.0440

Table 17: Significant video level textual features (p-value < 0.05) on Content Scores

Actions after All Videos			
Feature	Corr	p-value	
relativ	-0.992	0.000852	
adj	0.950	0.0135	
time	-0.942	0.0165	
percept	-0.924	0.0250	
hear	-0.907	0.0337	
ingest	0.885	0.0458	
Actions a	Actions after Anti-QAnon Videos		
-			
Feature	Corr	p-value	
help	Corr 1.000	<b>p-value</b> 0.0146	
Feature help percept	Corr 1.000 -1.000	<b>p-value</b> 0.0146 0.00369	
Feature help percept compare	Corr 1.000 -1.000 1.000	<b>p-value</b> 0.0146 0.00369 0.0103	
Feature help percept compare you	Corr 1.000 -1.000 1.000 -0.999	<b>p-value</b> 0.0146 0.00369 0.0103 0.0271	
Feature help percept compare you relativ	Corr 1.000 -1.000 1.000 -0.999 -0.998	p-value   0.0146   0.00369   0.0103   0.0271   0.0364	

Table 18: Significant video level textual features (p-value < 0.05) on Actions Scores

#### A.2.2 Acoustic Features

Enjoyment on All Videos		
Feature	Corr	p-value
neutral	0.909	0.0323
Sd Pitch	-0.916	0.0288
Max Pitch	-0.916	0.0291
Sd Intensity	-0.884	0.0467
Enjoyment o	n Anti-QA	non Videos
Feature	Corr	p-value
Max Pitch	-1.00	0.0112
Sd Pitch	-1.00	0.0494

Table 19: Significant video level acoustic features (p-value <0.05) on Enjoyment Scores

Actions after A	Anti-QAr	on Videos
Feature	Corr	p-value
Min Intensity	0.997	0.0500

Table 20: Significant video level acoustic features (p-value <0.05) on Actions Scores

#### A.2.3 Visual Features

Enjoyment on All Videos		
Feature	Corr	p-value
surprise	-0.894	0.0163

Table 21: Significant video level visual features (p-value <0.05) on Enjoyment Scores

Content of All Videos				
Feature	Corr	p-value		
surprise	-0.821	0.0450		
Content of Anti-QAnon Videos				
Feature	Corr	p-value		
Feature angry	Corr 1.000	<b>p-value</b> 0.00109		
Feature angry fear	Corr 1.000 -0.998	<b>p-value</b> 0.00109 0.0361		

Table 22: Significant video level visual features (p-value <0.05) on Content Scores

Actions after All Videos				
Feature	Corr	p-value		
fear	-0.812	0.0495		

Table 23: Significant video level visual features (p-value <0.05) on Actions Scores

# **B** Questionnaire Questions

#### 1. What is your gender

- □ Male
- □ Female
- □ Nonbinary
- $\Box$  Prefer not to say

#### 2. Which age group describes you?

- □ 18-29
- □ 30-39
- □ 40-49
- □ 50-59
- $\Box$  60 or over

#### 3. What is your ethnicity?

- American Indian or Alaska Native
- Asian
- □ Black or African American
- □ Native Hawaiian or Other Pacific Islander
- $\square$  White
- $\Box$  Other

#### 4. What is the highest level of education you've completed?

- Some high school or less
- □ High school diploma
- □ Associate's degree
- $\Box$  Bachelor's degree
- $\Box$  Master's degree
- Doctorate degree

#### 5. Do you consider yourself to be conservative or liberal when thinking about politics?

- □ Conservative
- □ Liberal
- □ Moderate
- □ Other/Undecided

6. Here are a number of personality traits that may or may not apply to you. Please tick a number next to each statement to indicate the extent to which you agree or disagree with that statement. You should rate the extend to which the pair of traits applies to you, even if one characteristic applies more strongly than the other.

	1-Disagree strongly	2-Disagree slightly	3-Neither agree nor disagree	4-Agree slightly	5-Agree strongly
Extraverted, enthusiastic					
Dependable, self-disciplined					
Anxious, easily upset					
Open to new experiences, complex					
Reserved, quiet					
Sympathetic, warm					
Disorganized, careless					
Calm, emotionally stable					
Conventional, uncreative					

Table 24: Demographic Information

#### 1. What is your opinion of the following groups?

·	Positive	Neutral	Negative	Never Heard of it
QAnon				
Àntifa				
Proud Boys				
Oath Keepers				
BLM				

#### 2. Do you trust the following media as credible sources?

	Positive	Neutral	Negative	Never Heard of it
Fox News (foxnews.com)				
Breitbart News (breitbart.com)				
MSNBC News (msnbc.com)				
PBS News (pbs.org)				
Associated Press News (apnews.com)				
NPR (npr.org)				
The Wall Street Journal (wsj.com)				
CNN (cnn.com)				

Table 25: Introductory Information

#### 1. Did you understand the video?

- □ Yes
- □ No

# 2. Do you think the video was professionally produced with good quality?

 $\Box$  Yes  $\Box$  No

#### 3. Who do you think the video was trying to appeal to?: \_\_\_\_

#### 4. Was there any violence displayed in the video?

 $\Box$  Yes  $\Box$  No

#### 5. Was there any music in video?

- □ Yes
- $\square$  No

#### 6. Did any of the following objects appear in the video? Choose all that apply.

- □ Guns
- $\Box$  Swords
- $\hfill\square$  Other Weapons
- □ Flags
- $\Box$  Symbols of the Group
- $\Box$  None of the Above

# 7. How likely do you think it is that the people in the video will become involved in the following actions? Not at All Likely Not Much Likely Undecided Somewhat Likely Very Much Likely

Protests			
Violence			
Illegal Acts			

Table 26: Video Specific Questions.a

#### 8. Would you associate the following traits with this video?

. Would you associate the following traits with this video:			
·	Yes	Neutral	No
Boring (could you pay attention the whole time or not?)			
Lively (was it energetic? Ex. was there music?)			
Persuasive (were you convinced by the content?)			
Trustworthy (did you trust the content?)			
Logical (was there a structured argument or data presented?)			

#### 9. Is the video's stance positive, negative, or neutral towards the group?

□ Positive

□ Negative

□ Neutral

#### 10. Do you think this speaker demonstrated any of the following characteristics?

	Yes	Neutral	No
Charismatic			
Confident			
Eloquent			
Enthusiastic			
Intelligent			
Convincing			
Tough			
Charming			
Angry			

#### 11. Did you enjoy watching the video?

 $\begin{array}{cccc} 2 & 3 & 4 \\ \Box & \Box & \Box \end{array}$ 4 5 □ □ Not at All Very Much

#### 12. What emotions did you feel when you watched the video? Check all that apply.

□ Happiness

- □ Sadness
- □ Surprise
- □ Fear
- □ Disgust
- □ Anger
- $\Box$  Confused

#### 13. Which part of the video was most impactful? (Give the approximate timestamps.) Enter N/A if not applicable.: \_

14. Give a short description (a sentence) of the most impactful part of the video you listed above. Enter N/A if not applicable. : \_

#### 15. Do you think any of the content in the video makes a valid point?

3 4 Not at All

16. Would you take any of the following actions after watching this video? Check all that apply.

- $\Box$  Like the video
- $\Box$  Dislike the video
- □ Post a supporting comment under the video
- □ Post a criticizing comment under the video
- □ Share the video with friends, families, or on social media platforms
- $\Box$  Search for similar videos
- $\Box$  Learn more about the group
- □ Consider joining the group

 $\Box$  Non of the Above

Table 27: Video Specific Questions.b

# 17. Do you think that others watching this video would consider taking any of the following actions? Check all that apply.

- $\hfill\square$  Like the video
- $\hfill\square$  Dislike the video
- $\hfill\square$  Post a supporting comment under the video
- □ Post a criticizing comment under the video
- □ Share the video with friends, families, or on social media platforms
- $\hfill\square$  Search for similar videos
- $\hfill\square$  Learn more about the group
- □ Consider joining the group
- $\hfill\square$  Non of the Above

#### 18. Did the video change your mind about anything? If so, please elaborate.:

Table 28: Video Specific Questions.c

1. What is your				
•	Positive	Neutral	Negative	Never Heard of it
QAnon				
Àntifa				
Proud Boys				
Oath Keepers				
BLM				

2. Is there anything else about your experience watching these videos that you would like to mention?:

#### 3. Please rate your experience of this HIT

Much worse than the average HIT  $\square$   $\square$   $\square$   $\square$   $\square$   $\square$  Much better than the average HIT

4. If you would like to give feedback on your experience with this HIT, please do so here.:

Table 29: Final Questions

# C Rater Demographics and Background Distribution

Within the 46 raters participated in the questionnaire:

- 29 raters were Male, 17 were Female.
- A major of raters (42) belonged to the 18-29 age group. Only a few (4) belonged to the 30-39 age group.
- A large number of raters were Asian (37), followed by White (7).
- 28 raters reported having a Bachelor's degree and 13 raters reported having a Master's degree.
- About 20 raters reported they were moderates and 19 reported they were liberal.
- 17 raters agreed slightly to be extroverted and enthusiastic, while others were evenly distributed.
- 24 raters agreed slightly to be dependable and self-disciplined and no rater strongly disagreed.
- There was an even distribution of raters who disagreed slightly, neither agreed nor disagreed, agreed slightly to be anxious and easily upset.
- A major of raters (39) either agreed slightly or strongly to be open to new experiences and complex.
- There was an even distribution of raters through out all range of disagreement and agreement to be reserved and quiet.
- 24 raters agreed slightly to be sympathetic and warm and no rater strongly disagreed.
- 27 raters either disagreed slightly or strongly to be disorganized and careless and no rater strongly agreed.
- 31 raters either agreed slightly or strongly to be calm and emotionally stable.
- 23 raters disagreed slightly to be conventional and uncreative, and no rater strongly agreed.

- 26 raters showed negative opinion on QAnon, 16 raters had never heard of it, and no rater showed positive opinion.
- 18 raters showed negative opinion on Antifa, 19 raters had never heard of it, and 1 rater showed positive opinion.
- 23 raters showed negative opinion on Proud Boys, 21 raters had never heard of it, and no rater showed positive opinion.
- A major of raters (35) had never heard of Oath Keepers, and no rater showed positive opinion.
- 18 raters showed positive opinion on BLM, 15 raters were neutral, and 3 raters showed negative opinion.
- 27 raters did not trust Fox News, 14 raters were neutral, and 1 rater trusted it.
- 28 raters had never heard of Breitbart News and 11 raters did not trust it.
- 21 raters were neutral on MSNBC News and 11 raters trusted it.
- 28 raters either trusted or were neutral on PBS News and 3 raters did not trust it.
- 29 raters either trusted or were neutral on Associate Press News and 1 raters did not trust it.
- 29 raters either trusted or were neutral on NPR and one raters did not trust it.
- A major raters (44) either trusted or were neutral on The Wall Street Journal and 2 raters did not trust it.
- A major raters (39) either trusted or were neutral on CNN and 7 raters did not trust it.



Figure 1: Rater demographics. A total of 46 raters completed the questionnaire.



Figure 2: Rater self-reported personalities. A total of 46 raters completed the questionnaire.



Figure 3: Rater's opinion on radical groups. A total of 46 raters completed the questionnaire.



Figure 4: Rater's opinion on media sources. A total of 46 raters completed the questionnaire.