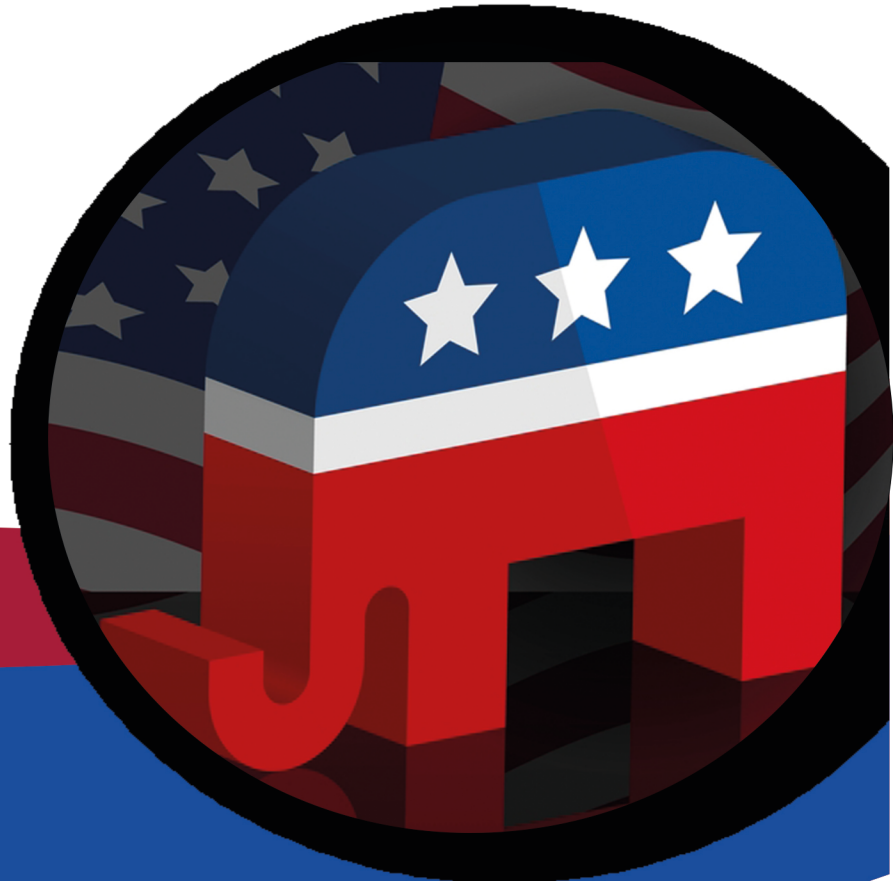


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CLOUDS, N-GRAMS AND NATURAL  
LANGUAGE PROCESSING**

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## ABSTRACT

There are educational policy initiatives aiming to produce effective and efficient solutions to the real world, real-life issues of the world including the invaluable vision articulated in the Cambridge Framework for Life Competencies or The P21 Framework for 21st Century Learning or other initiatives aiming for the advancement of transdisciplinary skills, which not only involves the depth coming from a disciplinary specialty but also the broader perspectives focusing on concepts and contexts rather than on themes. However, an analysis of the relevant literature on these progressive steps reveals that there is a need for revision of the frameworks that lack specific reference to political literacy skills. This gap may be due to the lack of safe spaces necessary for open debate. For instance, teachers supposed to be equipped with skills to navigate through the negotiation of difference may shy away from controversial issues in a situation of civic engagement. To build on the legacy and to fill in this gap, the recommendation considered appropriate to be offered for the teaching of English to speakers of other languages in this book is the creation of an educational initiative in a transdisciplinary approach serving to produce dual learning outcomes related with English language and political literacy. The idea proposed to implement this proposal is to discover content from US election discourse (for instance, debates, town halls, interviews, and rallies) which introduces novel ideas for policy issues and samples of the persuasive language used in the rhetoric. The choice of the content source for the US election is aimed to serve as a safe space like a simulation, a mock debate, or a brainstorming activity, a safe space to deliver the situational context for those involved in learning English and also to feel confident in involvement in political literacy. To support this idea, computational analysis tools were applied to discover linguistic samples from the discourse of the 2024 Republican Presidential primary debates in the USA.

**Keywords:** Political literacy, English language skills, Word clouds, Natural Language Processing, N-Grams

This e-book is a revised and expanded product of the work summarised in the abstract titled ‘Political Literacy and Language Skills Through Cloud Analysis of US Presidential Election Debates 12th International Social Studies Education Symposium, May 20-23, 2024, Edirne, Türkiye. It includes the word clouds, N-grams and Natural Language Processing of all five 2024 GOP primary debates.

## 1. INTRODUCTION

Despite the real world and real-life problems felt by the citizens in democracies around the world, it is surprising that there is negligence or inadequacy in the analysis of the specific details of this actuality in the seemingly diverse range of media around the world. Fact-checking services did not go as far as claimed due to their focus on facts rather than the big picture which can not be grasped or due to the fact that it can be drawn into propaganda itself (You Can't Fact Check Propaganda, 2023). Not necessarily encompassing all viewpoints about a query topic, search engine results returned can be biased toward only a specific view as they are based on relevance and search neutrality is not necessarily the prime objective in the context of some features and sophisticated algorithms utilized to calculate relevance (Gezici et al., 2021). For instance, Google and Bing were found to suffer from not stance bias but ideological bias Gezici et al.'s (2021) bias analysis experiments the scope of which was limited to focus on recent controversial topics in news search. The finding that both engines were found to favor one ideological leaning to the other was evaluated as significant when viewed from the standpoint of polarisation in society.

It is also possible for the algorithm to be biased if trained on biased human decisions. So biased decisions are reproduced “if data that records socially biased human decisions are used for training a machine learning algorithm,” says Assistant Professor Indrė Žliobaitė, who has worked on discrimination-aware machine learning”. “Data-based algorithms learn from the data they are given” and the measure to be taken is “society’s moral and ethical rules need to be formulated as mathematical constraints, which then need to be used as performance criteria “when training algorithms that are used for making decisions about people,” says Žliobaitė. (Algorithms Can Be Biased If Trained on Biased Data – but Don’t Hide Sensitive Information from AI | University of Helsinki, 2018). This has implications for search engines, which are not immune to the possibilities of bias.

Given this context, political literacy must be integrated into the learning materials of English, an additional language most commonly used by non-native speakers of English due to the functional realism of such a preference. If such an integration can be established the prevalence of the language component of this dual skills combination may help the political literacy component spread further. Transdisciplinary skills have been articulated into frameworks by numerous national and international educational organizations such as Partnership for 21st Century Skills [P21] (Transdisciplinary Skills | Authentic Learning@UMN, n.d.). American Council on Teaching of Foreign Languages (2011) shares the 21st Century Skills map which includes world languages. The Cambridge Framework for Life Competencies (2020) can be given as a new teaching curriculum the language component of which is English. Such examples overlap to a significant degree conceptually although names of terms can change. Since much of the area covered by the targeted skills are in conjunction with political literacy (e.g. digital literacy, media literacy, information literacy, communication, critical thinking, creativity, and social responsibility) these initiatives have played a part in laying the groundwork to introduce the integration or infusion referred to above, which raises hope for its realization instead of staying on paper.

Therefore, the idea proposed in this book is priming political literacy awareness parts from the US presidential elections. The discourse of the candidates, who may also benefit from the services of their political communication consultants, includes insights into people’s issues as well as effective use of language for persuasive communication, which can be made the most use of. The recent finding that engagement gets better with depolarizing rhetoric (Gamboa et al., 2024) raises hope against prejudices that serve too much as a defense mechanism against the discourse. This positive sign has also been seen in Obama’s speeches earlier. Alvi and Baseer (2012) demonstrate Obama’s effective use of several figures of Aristotle’s ethos, pathos, and logos.

The study proposed an idea to integrate content/rhetoric that can be used in the service of political

literacy consciousness and skills of effective use of the English language. Another feature that makes this idea stand out is its strategy component, a strategy that can provide a safe space that would give confidence to its participants as a measure to be taken. The strategy of safe space may be appreciated more given the scope of political literacy. Often characterized by a profound sense of civic responsibility encouraging individuals' active participation in their communities, their informed decision-making making, and contribution to the democratic processes, political literacy serves to empower individuals to engage in civic life in a reflective and accountable manner, thereby fostering a more informed and active citizenry.

## **2. POLITICAL LITERACY**

“In the globalized contemporary world, political literacy is becoming an increasingly essential habit of mind.” Political literacy is essential in that it “provides an individual with the capacity to evaluate information and make educated decisions about the political world around them” taking into consideration a multitude of media outlets and forms of mediated communication that confront “citizens of democracies” with “often misleading and frequently biased” content to such degree that the concepts of political literacy and information literacy are frequently discussed in conjunction with one another (Lowery et al, 2024, p. 16).

Some people may assume or presume that fact-checking may provide a safe space but political literacy makes it possible to be aware of the fact that fact-checking has some inherent limitations, which can be summarised in three sentences. It will be impossible for the fact-checker to be able to refute much of what will be said with skillful propaganda since it “will be true on a literal level”. The fact-check may be well-intentioned or convincing, but regardless of that, the fact-check will also serve to further disseminate the initial claims. Even though minor discrepancies are identified and corrected by the fact checker, this will not prevent the larger narrative and underlying suggestion from remaining intact, and it is this suggestion that moves minds and hearts and eventually prompts actions (You Can't Fact Check Propaganda, 2023)

The concept of political literacy is explained by Lowery et al. (2024) who state that it prepares individuals to gain a deeper understanding of the way in which democratic institutions function, and it furnishes individuals with the requisite knowledge to effect positive societal change and to enhance their personal lives by actively participating in the democratic process through diverse avenues of engagement. To illustrate various ways such involvement may manifest itself, Lowery et al. (2024) give such examples as the participation in electoral processes through the casting of votes, the establishment of connections with political representatives at the level of both local and national government, the engagement in activities designed to promote civic engagement (Lowery et al., 2024).

Lowery, Gautan, and Hess (2024, p.1) conducted a case study aiming to investigate “aspiring school leaders' perception of political literacy in educational leadership”. The recommendation offered was critical for principal preparation programs, policymakers, and future research. Signifying “a crucial step towards cultivating politically literate school leaders equipped to foster democratic engagement and critical thinking within school communities” their study suggested that “a comprehensive approach emphasizing political literacy may empower aspiring school leaders, improve school-community relations, and promote an informed citizenry.”

Lowery et al.'s (2024, p.17) study had implications for policymakers expressing the need for education policymakers to promote the integration of political literacy across curricula and across all educational levels, including graduate-level learning, particularly considering “the divisive nature of today's political landscape”. Lowery et al. (2024, p.17) argue that this “can be achieved by creating guidelines that explicitly include political literacy as a learning outcome and as a part of the ethics of the

profession for educational practitioners”. Another implication for policymakers is that they must support collaboration and partnerships to support school leaders in ways of navigating politicized conflicts, controversies, and crises.

The solution to increasing political literacy and voting is “the facilitation of opportunities or safe spaces to discuss politics that make a difference” rather than a “civics” class. Without the former, the academic criticality in the latter (civics course) could not translate into out-of-class discourses and behaviors due to the disconnect in between (Eichhorn, 2014: cited in Rivers et al., 2018, p.17). The need for this safe space finds support in the argument of Rivers et al (2018, p.10) “that it is important for students to have spaces to understand, explore and debate political messages and for teachers to feel confident and able to engage with those campaign messages especially where they may be controversial, partisan or challenging” (Rivers et al, 2018, p.10).

The idea that the school can provide a safe space for the scrutiny and understanding of political discourses can only be actualized “if teachers feel confident in navigating a path where controversial topics arising from political manifestos and candidates’ speeches can be discussed” (Rivers et al., 2018, p.17). It is possible to observe that teachers may not have this confidence. As Rivers, Carragher, Couzens, Hechler, and Fini cite what Eichhorn (2015) and McNeill (2015) state, because of “excessive caution in their desire to leave day-to-day party politics outside the school walls, educational leaders often create an environment where political knowledge, interest and general engagement among young people declines” (Eichhorn 2015; McNeill 2015: as cited in Rivers et al., 2018, p. ). “Both Costello (2016) and Gonchar and Schulten (2016) were cited by Rivers et al (2018, p.17) to quote what they believed in common: US school teachers, during the 2016 presidential primaries, felt they had to shy away from talking about politics in the classroom” (as cited in Rivers et al., 2018, p.17). But, with their analysis in this study, Rivers et al (2024, p.18) highlight it is imperative that teachers “engage with political discourses and help students, at all ages unravel the often complex and challenging messages that are contained within election campaigns” (Rivers et al., 2018, p.18).

Mock elections can be recommended as one of the alternative solutions for a safe space. Defined as “the shadow elections that schools can organize in conjunction with the official elections”, mock elections (MEs), a civic education activity with a long history in several European countries, can be resorted to in the advancement of “critical components of political literacy, skills and identity” in secondary education among other examples cited as role-plays, political advocacy projects and political simulations (DeGroot, 2017, p.84).

Rivers et al. (2018) analyze how school students from England (2 primary/elementary and 2 secondary/high schools with age ranges 7-11 and 11-18 respectively) and the United States of America (selective, independent Pre-K-12 – 8-11 age range, with ethnic diversity) “engaged with campaign messages” with data collected immediately before the UK General Election and during US Presidential primaries two national elections. The common themes identified in both countries were the trustworthiness of candidates (in particular their focus on money; are they self-serving or not) Equality (strong feelings on fairness, including monetary fairness), immigration (understanding of the concerns voiced by politicians and family but also the tensions that the concerns brought about). Rivers et al (2018, p.16) summarised what the themes identified indicated treating the themes holistically: A need for teachers’ proactive engagement “with the messages contained within political campaigns” as well as the need for them to address the rhetoric which has the potential to alienate or otherwise stigmatize “people of color, those from other cultural/ethnic backgrounds, and those who experience poverty or a lack of access to material resources”.

### 3. RHETORIC

It was perhaps Aristotle who recognized the moral neutrality of rhetoric as an art of communication in that it could be used for either good or ill. The second chapter of *On Rhetoric* elaborates on the three things persuasion depends on: “the truth and logical validity of what is being argued, the speaker’s success in conveying to the audience a perception that he or she can be trusted, and the emotions that a speaker is able to awaken in an audience to accept the views advanced and act in accordance with them. Modern rhetoricians use terms derived from Aristotle to refer to these three means of persuasion, though they have somewhat broadened his definitions: logical argument is called *logos*; the projection of the speaker’s character is called *Bthos*; awakening the emotions of the audience is called *pathos*” (Kennedy, 2007, p.x).

How persuading, convincing, or proving is done in rhetoric is as follows (Aristoteles, p.38 Baba, 2010, cited: Baba, 2018, p. 206.). It can be argued that the character of the speaker represents the most effective means of persuasion at his disposal. Secondly, if the speech has aroused their enthusiasm, persuasion may also come from the listeners. Thirdly, the presentation of evidence in a persuasive manner, tailored to the specific circumstances at hand, is an effective means of substantiating a claim. It can be reasonably deduced that there are three principal methods of persuasion. An individual who has attained proficiency in these techniques must possess the following abilities: (1) the capacity to think logically, (2) an understanding of the multifaceted nature of the human character and virtue, and (3) an ability to identify and describe the various forms of passion, including an understanding of their underlying causes and the means by which they are aroused.

It is thought that polarizing rhetoric and negative tone generate more attention on social media. However, whether this thought is a common misconception or not should be investigated. Aiming to analyze how, around what topics, and with what effects (de)polarizing rhetoric and tone were deployed in the four leading presidential election candidates’ tweets (and corresponding engagement) in Colombia’s 2022 election Gamboa, Botero, and Zanotti (2024) reached findings which provided “a glimmer of hope with respect to “the potential usefulness of positive uniting messages on Twitter”. Of the depolarizing rhetoric and its polarizing counterpart, what proved to be better for engagement was the former. On the other hand, the neutrality in messages was the least engaging. The study suggested that it would be an erroneous assumption that there is a correlation between a candidate’s visibility on Twitter and increasing the utilization of polarizing rhetoric or emphasizing negative emotions. (Gamboa et al., 2024).

Prior to the promising finding in Gamboa et al.’s (2024) study that the depolarizing rhetoric generated better engagement compared to the polarizing rhetoric and neutral messages, a study by Alvi and Baseer (2012) demonstrated Obama’s proven command of effectively using the figures of Aristotles’ *ethos*, *pathos* and *logos* to the fullest to effect change or solution in favor of depolarizing rhetoric. Analyzing Obama’s 2006 Call to Renewal Keynote Address (June 26), a significant step before announcing, on February 10, 2007, his presidential candidacy, Alvi and Baseer (2012, p.593) established the fact that Obama spoke “from both sides to bridge the gap between the liberal Democrats and the conservative Republicans” in pursuit of finding a common ground appealing to his fellow countrymen showing his ability to get the favors of the religious conservatives “without offending his own fellows, the liberals” and doing this as a moderate American. Alvi and Baseer (2012, p.616) stated that the prominent use of the figures of *logos* in comparison to the others (although many in number as well) might be attributed to the fact that “he was addressing an educated group of people about the need of religion even for those who are nonbelievers”.

As referred to in the above paragraph, speaking context is one of the components depending on which rhetoric may demonstrate variation. As Coe and Reitzes (2010) accurately detected, speaking context is



one significant factor by which the presidential campaign rhetoric of Obama, known for his oratorical skill, his 2008 campaign varied by two other factors, namely geography and poll position. Obama's rhetorical approach emphasized "policy and thematic appeals while downplaying more contentious issues" (Coe & Reitzes, 2010, p.391). Those emphasized were policy issues (economy, national security, health care, environment, and education), thematic appeals (change, hope, establishment, partisanship, unity), and morality appeals (values, religion, patriotism, family). On the other hand, factious appeals (race, immigration LGBT, abortion) were those that "Obama steered well clear of the factious appeals that often divide American politics" (Coe & Reitzes, p.401). Economy as a policy appeal, dominated Obama's rhetoric but the other policy appeals (security, education, health care, the environment) "took a backseat to change" with "less of a presence in Obama's rhetoric than did change. In focusing so much attention on a thematic appeal, Obama may have opened himself up to charges that he was light on discussion of policy" (Coe & Reitzes, p.401).

In the context of election campaigns, candidates establish contrasts in their discourses with the objective of differentiating themselves from their opponents. In the 2024 presidential elections, Democratic Party candidate Kamala Harris employed rhetorical strategies designed to evoke strong emotional responses from her audience. However, Harris's campaign rhetoric was deficient in terms of articulating the policies she would pursue. She shared few specific and concrete policies other than generalizations. In some instances, she did not provide detailed information, which prompted the rival party candidate and the surrogates of his campaign to resort to rhetoric that contrasted policies and past performance in a way that pointed out this weakness.

The 2024 election comments of Yunus Emre Erdölen, who was the guest of Sözcü Television's Foreign News Director for his comments on the Harris-Trump debate, should also be considered in terms of the rhetorical aspects of the discussion. Erdölen highlighted that approximately 45% of the electorate would vote for Trump regardless of the circumstances. He emphasized the significance of the remaining voters, noting that Harris's approach was characterized by enthusiasm, but lacked a coherent discourse and was ultimately ambiguous. Conversely, Erdölen asserted that Trump's radical explanations served to distract the election and ultimately caused it to go head-to-head. Erdölen posited that Trump would be disinclined to participate in another debate, citing the potential for him to present a discourse that would unsettle his own voter base, particularly female voters.

In this television program, Erdölen posited that foreign policy is an area that directly affects the electorate and where the two candidates can reveal their ideological differences. However, he also observed that the Israeli-Palestinian issue represents the most blurred area in the US elections in terms of foreign policy. He highlighted that this is due to the influence and support that Israel provides to the establishment of America through lobbying activities. Consequently, the two candidates have been unable to fully elucidate their differences on this matter. yet she is constrained from adopting an excessively critical stance towards Israel to avoid alienating a significant proportion of some of the central electorate and donors.

Erdölen indicated that Trump had expressed criticism of Kamala with regard to Israel. Conversely, Erdölen highlighted the challenging position Harris finds herself in on this matter, the anger of her base toward Israel. However, Erdölen attributed Kamala's more emphasis on Palestine than Biden's to the support of 200000 Muslim voters, around 10000 leftists, and the majority of young people in Michigan for Palestine and to the possibility of them not going to the polls since the election, in his opinion, was likely to be decided by possibly ten thousand votes or so.

However, Erdölen also observes that Harris should have provided additional commentary on the Palestinian issue during the ABC debate and should have devoted a greater portion of time to this topic. Instead, she was constrained by Trump's criticism and felt compelled to adopt a defensive stance against

this criticism, ultimately stating, "I have supported Israel all my life."

In the art of persuasion, where linguistic content alone is insufficient, the interlocutor's assessment of the orator's personality as a whole, and therefore the harmony between the orator's words and behavior, serves as a key indicator of the orator's character. It is of paramount importance to ensure that the information is perceived accurately by the interlocutor. In this regard, the credibility of the source is contingent upon the accuracy and soundness of the information presented. The establishment of trust requires a profound emotional appeal (Baba, 2018). Since the credibility of the character of the rhetor is one of the most important components in rhetoric, election candidates build a clear, or stark contrast between their rivals. Samples from the Republican party primaries in this book present so many of these examples of contrast or antagonism. These are provided not only to show the contrast or antagonism strategies in the language use of the candidates but also to justify the argument in the book that politics and policy should be distinguished by the citizens, who otherwise might be deprived of the benefit of the policy if there is not such a distinction and if the two are confused, or if there is no awareness, necessary conceptualization of policy. It is a harsh truth that, unfortunately, policy is neglected to a significant degree in the media covering political election processes, even by the analysts in the media programs. However, still, this disadvantage can be turned into an advantage as posited by Zengin et al. (2024). In US elections, presidential candidates display positive and negative rhetorical behavior during and after the primaries. Not only the positive ones but also the negative ones can be used as instructive examples to develop political literacy skills. In the context of electoral campaigns, candidates establish contrasting positions in their discourse with the objective of differentiating themselves from their rivals (Zengin et al, 2024). Despite the dark Picture, there are political communication consultants or academics who serve in this direction with their awareness-raising discourse.

The fact that establishing contrasting positions is part of the political communication strategy of a politician or a political election candidate is a strategy usually mentioned by Dr. Gülfem Saydan Sanver in her political analysis on various TV channels in Türkiye. Mentioning her is significant due to her outstanding resume reflecting a combination of youth and experience. Her being Turkish is an advantage for Turks who are into US presidential election campaigns. Since the present book has implications for English language teaching using US election rhetoric/discourse as a kind of engaging content to integrate both skills of language use and political literacy, listening to and reading Turkish experts like Dr. Gülfem Saydan Sanver and Prof.Dr. Seda Demiralp would be encouraging civic involvement. For, it would be too erroneous and superficial to claim US elections do not compare to elections in other contexts of the world.

Demiralp received her Ph.D. in Comparative Politics at American University in Washington, DC. Her academic resume and publications can be followed on the website of Işık University where she is a full-time professor. On the other hand information about Dr. Sanver can be accessed through her website, and the websites regarding her consultancy field. One of these is [speakeragency.com.tr](http://speakeragency.com.tr), a website including info in English. Dr. Sanver completed her PhD. on Political Communication at Sorbonne University with a doctoral thesis on comparative election campaigns, which "received a high honor award with unanimous approval from the jury." (DR. GULFEM SAYDAN SANVER, n.d.)

#### **4. CANDIDATES' POLICIES AND RHETORIC IN 2024 GOP PRIMARIES**

There are broad range of public issues raised in US election debates including the primaries. Moderators do it through their questions which they sometimes inform about the background of the issues at hand. Candidates reflect their policies and their records. It is also frequent that political rivals do draw contrasts as a strategy to make distinctions between themselves and the other candidates. Unfortunately, it is also not unlikely to come across cheap attacks in primaries Therefore, those who want to benefit from this debate would be smart if they focus on policies and people's issues and avoid

those cheap attacks and demonizing, the signs of broken politics people are sick of, but should be cautioned against. So, it would be a good strategy to learn from not only the good but also the evil as in the manipulative use of the language.

Educational issues are frequently talked about in the presidential debates. Some questions are asked giving a background related to it. One such example was in Baier's question: "The nation's report card was the weakest ever for American schoolchildren, exposing chronic absenteeism, deep declines for reading and math for 15-year-olds and 13-year-olds" (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

One of the responses in the first debate to be highlighted for its new perspective can be the one voiced by Doug Burgum told "*As a governor, I go, I shadow a student. The night before, the student finds out I'm going to go to every class with them. I don't sit and lecture school districts how to do it. I go and see the experience and there's a lot of things that have to change, but what needs to change in education is its innovation.*"

Ron DeSantis also shared his comment which reflected the decline in education in the U.S.A. as one of the reasons for the country's decline. However, he distinguished education from indoctrination, then, as a country, they needed the former but did not need the latter. He then elaborated: "What our schools are doing is focusing on solid academics. In Florida, we eliminated critical race theory from our K-12 school. We eliminated gender ideology from our K-12 schools, and we have elevated the importance of American civics in teaching our kids about the Constitution and the Bill of Rights." Ron DeSantis emphasized the need to "increase civic understanding and knowledge of" their constitution, which he said would do as president. Finally he added they "cannot be graduating students that don't have any foundation in what it means to be an American" (*Fox News Republican Presidential Primary Debate Transcript*, n.d.)

When Bret Baier asked Ramaswami's policy position on education, he reminded that Ramaswami argued for shutting down "the Department of Education, the FBI, the ATF, the Nuclear Regulatory Commission, the IRS," and "the Department of Commerce". To Ramaswami, it is the Department of Education that is head of the snake responsible for the crisis of achievement. Letting parents to choose the school where they want to send their kids to, ending the teacher's unions at the local level to be permitted to compete to help bring the national identity back to life, mandating that all high school seniors pass the civics test every immigrant, including his mother, had to pass to obtain citizenship (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

Ramaswami emphasized the significant responsibility of the family for the formulation of education policy. Two parents in the house with a focus on educational achievement is the ultimate privilege by every kid since "education starts with the family and the nuclear family is the greatest form of governance known to mankind". He added that part of the problem is that the federal government paying "single women more not to have a man in the house than to have a man in the house" contributed to "an epidemic of fatherlessness", which is closely linked to the issue of the current state of education (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

One of the issues at the forefront of the election process was biological men playing competing with women in sports events. In the first debate (*Fox News Republican Presidential Primary Debate Transcript*, n.d.) Nikki Haley underlined that it is a women's issue of our time when biological men participate in women's sports competitions and compete against female athletes. The same issue was also raised by Haley in the fourth debate *RNC Fourth Presidential Primary Debate 12/06/23 Transcript*, n.d.) in which she said "Biological boys shouldn't be playing in girls' sports and I will do everything I can to stop that because it's the women's issue of our time." In the same debate, his opponent Ron DeSantis underlined that he had turned rhetoric into action by saying that he had "signed legislation to

protect women's sports” with the following statement: “I actually get this stuff done.” Tim Scott (NBC News, 2023), a candidate who expressed his criticism of the same issue in the previous, that is, the third GOP debate, stated that there were fundamental truths that built the United States of America: “There are basic truths that Built this country. If you're able-bodied in America, you work. If you take out a loan, you pay it back. If you commit a violent crime, you go to jail. And if God made you a man, you play sports against men.” In the 2024 third GOP debate (*RNC Third Republican Presidential Primary Debate Transcript*, n.d.; NBC News, 2023) Scott also drew attention with a critical argument that we should reject the concept of a society without values, without faith, without fathers.

In debates, the candidates present a characterization of themselves to increase the credibility of their remarks. In the fifth debate (*DeSantis vs Haley CNN GOP Debate Transcript*, n.d.) Haley made her case by articulating the qualities that a President should have in his leadership profile. After emphasizing that it was essential for a President to adopt a long-term perspective, looking not just at the next 4 to 8 years, but at the next 20 to 30 years, Haley described the kind of future she wants for her own children, explaining that she wanted a future for all American children - a future without debt, a future where they could go to school, a future with secure borders, a future with law and order, and a future where America is strong.

In debates, it is important to summarise for candidates to voice their opinions in a very short time. So compactness is the key, especially if the candidate is a young outsider and new to the constituents, that is someone whose career has not been in politics before. In the first debate (*Fox News Republican Presidential Primary Debate Transcript*, n.d.), Ramaswami, such a candidate, emphasized that he was a candidate from the younger generation as a 1985-born millennial.

Ramaswami highlighted that the generation he grew up into was taught to celebrate their diversity, their differences so much that they forgot all of the ways they are the same as Americans bound by the common ideals which set this nation into motion in 1776”, the year the Declaration of Independence was issued. He stated that it was high time they had revived the common set of ideals. Then he shared what he thought won them the American Revolution back then and the revolution of 2024: “God is real. There are two genders. Fossil fuels are a requirement for human prosperity. Reverse racism is racism. An open border is not a border. Parents determine the education of their children. The nuclear family is the greatest form of governance known to man. Capitalism lifts us up from poverty. There are three branches of government, not four, and the US Constitution, it is the strongest guarantor of freedom in human history. That is what won us the American Revolution. That is what will win us the revolution of 2024” (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

In response to the question of Bret Baier, one of the debate moderators from Fox News, as to why voters should choose him “over more experienced politicians in the first debate and characterization of him as “basically a blank slate for people”, the biotech founder, Vivek Ramaswami characterized his life as an example of the American dream come true mentioning his start from humble beginnings (parents coming to the USA with no money) to his entrepreneurship as the founder of multi-billion dollar companies while marrying his wife, raising their two sons and following God’s faith. Having briefly reflecting the promise of this experience, he expresses the reason he is running in this race that it is going to take a new generation outsider to start running to “our vision of what it means to be an American today” stating metaphorically that it is high time the new generation were handed over the key to the broken car to fix it instead of the long-time professional politicians who broke it. The last part of the answer is impressive (“We’re just getting warmed up”) (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

One of the candidates Mike Pence, the former Vice President under President Donald Trump, was seen to construct a net contrast between his executive-branch experience and Vivek Ramaswami’s

experience, from which his recognition of Vivek's potential may be understood especially given his quick assent in the polls and given Pence is polling behind Ramaswami: "Now is not the time for on-the-job training. We don't need to bring in a rookie. We don't need to bring in people without experience" and "We need to bring proven leadership". Frequent interaction between the two is witnessed in the first debate. For instance, in response to Pence's comments about him, Vivek makes a move to unveil the professional strategies resorted to in the debates: "Now that everybody's gotten their memorized, pre-prepared slogans out of the way, we can actually have a real discussion now". On the other hand, Pence quickly implies the possibility of an ironic pretense in this remark asking whether it is also a memorized, pre-prepared slogan Ramaswami memorized. Again later in response to Pence, Vivek presents a characterization of the candidates on the stage as politicians lacking credibility: "And the reality is, you have a bunch of people, professional politicians, super PAC puppets, following slogans handed over to them by their 400-page super PACs last week" and underlined the real two choices faced in this primary: a super PAC puppet or a patriot speaking the truth, incremental reform or revolution? Finally, he made it clear he takes his stand on the side of the American Revolution, rather than incrementalism. Ramaswami later went on the offensive, which makes his debut a splashy one, which is in fact the upstart Ramaswami's counterattack against the attack of those polling behind (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

In response to a climate change-related question asked by Alexander Diaz from Young America's Foundation, he states that "I'm the only person on the stage who isn't bought and paid for", and continued his characterization of the climate change as a hoax metaphorically reflecting the anti-carbon agenda as the wet blanket on US economy and stating that the bad climate change policies cause more deaths in people compared to actual climate change. Reminding of Vivek's statement, the debate moderators wanted the other candidates to answer whether he or she is bought and paid for. In response, Chris Christie said he has "had enough already tonight of a guy who sounds like ChatGPT standing up here" and reminded the audience of Vivek's presentation of himself aiming a hook effect to catch the attention ("What's a skinny guy with an odd last name doing up here") and reminded that the last person saying this was Barack Obama warning that he is afraid they're "dealing with the same type of amateur standing stage tonight." Vivek softened the effect of such a remark returning with humor in "Come over and give me a hug. Give me a hug just like you did to Obama" and "Give me that bear hug" (although Christie denied any hug in the past, although he said they built constructive working relationship Obama following through his promises of help when the storm hit the state. the republican complained he gave a bipartisan boost that hurt the Republican candidate at the polls (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

Asked the same question by Bret Baier (if she is bought and paid for), Nikki Haley skipped the question and showed her engagement with the issue of climate change quoting Margaret Thatcher, who said, "If you want something said, "Ask a man. If you want something done, ask a woman". Haley's response might be interpreted as ignoring what she considered empty words, not condescending to some words which, to her opinion, should not be given credit. For, on the contrary, her response emphasized taking care of clean air and clean water and stated that climate change is real, but it is China and India that have to lower their emissions and the US needs to take on the international world and tell India and China that they have stop polluting. She called attention to the fact that green subsidies put in by Biden are not working and should be acknowledged since half of the batteries for electric vehicles are made in China drawing attention to the indirect connection that did not help the environment (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

The reference to an administrative state or deep state may be expected in the campaign rhetoric. For instance, a mention of "deep state" was voiced by DeSantis, who criticized the Covid 19 lockdowns in

the USA and said they, “in Florida, led the country out of lockdown. We kept our state free and open. And I can tell you this, as your president, I will never let the deep state bureaucrats lock you down.” Arguing for the need for a president who is able to reduce the size of the federal government, another candidate, Asa Hutchinson, mentioned his specific pledge to attack administrative states reducing the federal non-defense workforce creating the persuasiveness of this pledge with reflecting his actual record as a governor (14% fewer state employees in Arkansas). The way these references are made can be expected. However, it was Vivek who clearly voiced, in an extraordinarily bold manner, the obligation to go beyond reform and dismantle the administrative state given the reality. He summarized it all in “Shut it down” (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

As expected one of the key questions was about guns. Ramaswami underscored the reality that “we have a crime waving this country and we know how to fix it” and stated that the question to be asked is whether “we actually have the spine to do it” meaning the cops should not be sued for getting their job done, and bringing back the mental health institutions, the closure of which directly led to the “spike in violent crime” but he highlighted the untapped potential of faith-based approaches criticizing the idea of limiting the mental health to just drugging up people. Ramaswami elaborated on the solution with transparency speaking what he believed to be the truth in contrast to an exaggerated, artificial pretense of being so-called politically correct. As the GOP’s youngest candidate he observed people’s hunger for purpose and meaning in the midst of a national identity crisis to be a root cause of the mental health epidemic: “At a time when family, faith, patriotism, hard work have all disappeared, what we really need is a tonal reset from the top saying that this is what it means to be an American. Yes, we will stand for the rule of law. Yes, we will close the southern border where criminals come in every day. And yes, we will back law enforcement because we remember who we really are” (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

Voicing his opposition to Vivek’s national identity crisis argument, Pence stated that American people are not looking for a new national identity as they are “the most faith-filled, freedom, loving, idealistic, hardworking people the world has ever known. We just need a government as good as our people.” On the other hand the government part of the remark, in Ramaswami’s opinion, translates into shutting down the government (*Fox News Republican Presidential Primary Debate Transcript*, n.d.).

Quoting Ramaswami is important because after ending his campaign he formally endorsed Donald Trump, who has won the 2024 Presidential election, and he has been one of the top surrogates of the Trump campaign. The entrepreneur, Ramaswami has been appointed by Trump to co-lead a new initiative “Department of Government Efficiency” with Elon Musk. As reported in the web page of the Reuters Politics U.S. newsletter, Trump ((Trotta et al., 2024) is cited to state that both Musk and Ramaswami “will pave the way for my Administration to dismantle Government Bureaucracy, slash excess regulations, cut wasteful expenditures, and restructure Federal Agencies.

In retrospect, Trump’s selection of Ramaswami can be better appraised with Ramaswami’s earlier promising remarks in the 2024 first GOP debate: “The only war that I will declare as US President will be the war on the federal administrative state that is the source of those toxic regulations acting like a wet blanket on the economy”. His pro-energy policy position is also apparent in “Unlock American energy, drill, frack, burn coal, embrace nuclear”. On finance, his statement is compact “Reform the US fed, stabilize the US dollar”.

Opinions related to administrative state were mostly voiced by Ramaswami so it is of utmost importance to quote him in other debates. For instance, he expressed his criticism of the Fed in his statement: “We have to put the Federal Reserve back in its place. This is an agency that has gone rogue. .... will have a new chairman of the Federal Reserve who places priority on dollar stability.” His emphases on reducing the size of the remarks. Also, the viewers of the second debate witnessed his remarks about details of his clear, practical plan to unleash the economy: “... send packing 75% of the

administrative state, reduce the federal employee headcount by 75%, rescind 50% of unconstitutional federal regulations that are shackling businesses, both large and small.” These highlights were shared as part of how to “revive the integrity of a three-branch constitutional republic rather than this technocracy and aristocracy in the administrative state” (Nikki Haley, 2023b; *Second Republican Presidential Primary Debate Transcript*, n.d.)

Viewers of primaries can come across achievements in policy making as in the second Republican Presidential Primary debate. One of the candidates, Doug Burgum highlighted his vision and services for education as the North Dakota governor with these remarks: “We made every school in North Dakota an innovation school, every school got out from under the red tape and the things that help teach the values that we're trying to get like 4H, like FFA, .... they can credit for all of that stuff” A bit later, he added “North Dakota is now at the top of the median SAT scores in the country, right now.”

Both 4-H and FFA, mentioned in this remark, are products of innovative ideas. Those practicing their English through these debates are exposed to these insights and search for them. Even looking them up in dictionaries is a plus. For instance, the meaning of 4-H as an adjective is provided in the Merriam-webster dictionary (*Definition of 4-H*, n.d.) as “of or relating to a program set up by the U.S. Department of Agriculture originally in rural areas to help young people become productive citizens by instructing them in useful skills (as in agriculture, animal husbandry, and carpentry), community service, and personal development”. For its etymology the dictionary provides “so called from the goal of improving a person in *head, heart, hands, and health*”.

Or even a simple search on Google within double quotes provides an exact match and finds A simple Google Search Query like [ “4-H” ] provides informative content: “In 4-H programs, kids and teens complete hands-on projects in areas like health, science, agriculture, and civic engagement in a positive environment where they receive guidance from adult mentors and are encouraged to take on proactive leadership roles” (‘About’, n.d.).

On the other hand, standing for Future Farmers of America is an intra-curricular student organization for those interested in agriculture and leadership. An acronym for the official name, the National FFA Organization, FFA “is not just for students who want to be production farmers; FFA also welcomes members who aspire to careers as teachers, doctors, scientists, business owners and more”. FFA reflects “the growing diversity and new opportunities in the industry of agriculture” and “remains committed to the individual student, providing a path to achievement in premier leadership, personal growth and career success through agricultural education.” (FFA, n.d.)

Quoting Burgum’s remarks in the debate is significant due to the fact that President-elect Trump has announced him as Secretary of the Interior and as Chairman of the newly formed, and very important, National Energy Council.

Quoting Burgum’s remarks in the debate is significant due to the fact President-elect Trump has announced: “as Secretary of the Interior and as Chairman of the newly formed, and very important, National Energy Council” (Doug Burgum [@DougBurgum], 2024).

Those interested in these debates can be assigned sentence priming tasks or they can be required to select and list certain parts that include insight or anything to do with political literacy awareness and make them in bold to increase visibility and as a noticing aid as follows:

Vivek: “I've offered a very clear, practical plan to do it. That's how we unleash the economy. That's how we revive the integrity of a three-branch constitutional republic rather than this technocracy and aristocracy in the administrative state.”

Nikki Haley: what I saw at the United Nations is energy security is national security

Dana Perino: “The approval rate for Congress is at a mere 19%. If this were a business, you'd probably all be fired in Washington”

Doug Burgum: “Just look at the record of what we're doing right now. Energy, economy, national security.”

The moderator Stuart Varney asks Governor Burgum:” you say you want to shrink the size of government, but it has been a century since any president has done that. Why would you be any different?”

Tim Scott: “if you lead by example, it's the best way to get the job done . . . , my chief of staff is the only Hispanic female chief of staff in the Senate. I hired her because she was the best, highest-qualified person we have. What we need are leaders who lead by example.”

In the third debate, Ramaswami repeated the highlights supporting their credibility connecting these to how CEOs, like himself, run a business: 75% headcount reduction “in the number of federal employees in the Washington DC bureaucracy” shutting “down redundant agencies that should not exist” and delivering “economic growth as a positive tailwind. I think we can get to three, four, maybe even 5% GDP growth if we really take the regulatory shackles off of our economy.” Vivek sees these severe measures as the “last best window to be able to take care of our national debt problem” and connects it to warmongering in both Republican and Democrat parties with his remarks: “sacrificing the foreign wars that many blood-thirsty members of both parties have a hunger for” (NBC News, 2023; *RNC Third Republican Presidential Primary Debate Transcript*, n.d.-b)

In the fourth debate, Ramaswami's example of cutting down the bureaucracy was “90% headcount reduction at the Fed.” He demonstrated the plan on severe measures was based on a Supreme Court case: “We will rescind any regulation that fails the test of *West Virginia v. EPA*, which is the most important Supreme Court case of our lifetime that said, "If Congress didn't delegate that to an administrative agency, then it's unconstitutional." Sharing what he believes to be the dirty little secret in American politics today, Ramaswami stated that “the people who we elect to run the government are not the ones who are even actually running the government. It is the bureaucrats in those three-letter agencies that are writing regulations that Congress never gave them the authority to write” (NewsNation, 2023; *RNC Fourth Presidential Primary Debate 12/06/23 Transcript*, n.d.-b)

The moderator's questions are important in making distinctions among the candidates' policy positions on issues and their records. Eliana Johnsons' question “Which former president would you draw inspiration from for your own presidency and why?” gave the possibility for the constituents to have an idea (NewsNation, 2023; *RNC Fourth Presidential Primary Debate 12/06/23 Transcript*, n.d.-b).

The first answer was from Chris Christie who highlighted Ronald Reagan who “stood up for the truth, whether it was popular or unpopular at the moment.” After Christie, Haley referred to George Washington when “government was intended to secure the rights and freedoms of the people, it was never meant to be all things to all people” and also to Abraham Lincoln, who, despite the challenges and division in the country showed the ability to lead . . . and say what will bring out the best in people to get us to go forward is always something important. And I think we need that now more than ever.” DeSantis referred to Calvin Coolidge who “understood the proper role of the federal government under the Constitution” and justified his reference with DeSantis's emphasis on the need “to restore the U.S. Constitution as the centerpiece of our national life”, which “requires a president who understands the original understanding of the Constitution” with “a good sense of the Bill of Rights, and who knows how we've gone off track with this massive fourth branch of government, this administrative state which is imposing its will on us and is being weaponized against us.” Ramaswami stated that DeSantis' pick was born on July 4<sup>th</sup> (Independence Day) and his pick will be the president who died on July 4<sup>th</sup>, Thomas Jefferson, who wrote the Declaration of Independence at the age 33, and who understood the value of and right to freedom of speech, expressing one's “mind freely no matter how heinous the opinion” (NewsNation, 2023; *RNC Fourth Presidential Primary Debate 12/06/23 Transcript*, n.d.-b).

It is very important that those who ask questions in debates raise the issues of the people in a conscious manner. Therefore, the questions also contain very important consciousness-forming points. For instance, in the 5th debate of the Republican Party in 2024, Dana Bash's question about the economy, which party members see as the most important problem according to an important survey, is such a question from the 2024 fifth GOP debate (CNN Republican Presidential Candidate; CNN Hosts Republican Presidential Debate At Drake University, Des Moines, Iowa): “So, Governor Haley, the rate of inflation is down. Prices, though, are still high, and Americans are struggling to afford food, cars, and housing. What is the single most important policy that you would implement as president to make the essentials in Americans' lives more important?” (*DeSantis vs Haley CNN GOP Debate Transcript*, n.d.).

Some excerpts from Nikki Haley's response may be obtained from rev.com, which includes the transcript of the 2024 fifth GOP debate, as well: Haley underlined that it was a fact that wasteful



expenditures were made and that this wastefulness was not only made by the rival party but also by her own party, showing that she was not partisan and that she criticized her own party when necessary. In Nikki Haley's statement, 'It's time we have an accountant in the White House. We have to have someone that respects taxpayer dollars' (*DeSantis vs Haley CNN GOP Debate Transcript, n.d.*), there is an emphasis on accountability and transparency as well as the need for someone who warns against wasteful spending, especially someone who respects taxpayers' dollars (*DeSantis vs Haley CNN GOP Debate Transcript, n.d.*). The word 'dollar' is used so frequently in combination with the word "taxpayer" ("taxpayer dollars"). The reason for this preference is that presidents are believed to have demonstrated accountability to the people of their country. After her emphases on cutting the overspending which she blamed, vetoing any spending bill that would not take the USA back to pre-COVID levels, allowing the middle class to breathe, and eliminating federal gas and diesel tax, she finally highlighted making tax cuts for small businesses permanent characterizing small businesses as the heartbeat of America.

Before responding to Bash's economy-related question, the other candidate DeSantis underlined the necessity of leadership on this issue countering the metaphor account with the concept of leadership: "Well, I disagree with Ambassador Haley, we don't need an accountant in the White House, we need a leader in the White House." He emphasized his contact with folks and their frustration with the highly increased cost of affording a new home due to monthly mortgage payments despite their hard work. He also emphasized opening up all energy for production as a deflationary policy. DeSantis's attempt to create a tax-related contrasted with Haley's was expressed in his statement that Governor Haley "tried to raise the gas tax on hard-working South Carolinians." Haley countered his words "She tried" and promoting a website that she created to fact-check DeSantis stating that she did raise tax (*DeSantis vs Haley CNN GOP Debate Transcript, n.d.*).

Speaking of fact checking, this site is criticized for its lack of context needed for accurate interpretation by Angelo Fichera (2024, January 11) whose article includes a statement that "Haley campaign's website is itself a political project - not an exercise in objective fact-checking" and quotes Bill Adair, a Duke University journalism professor and the creator the website PolitiFact: "Ultimately, it's still a campaign propaganda", "not fact checking" reminding creating of a website created during the 2008 Obama Campaign for the purposes of pushing back against what was counted as smears. Adair's insightful comment was also quoted by Fichera (2024): "I think that shows that fact-checking has matured to the point where candidates are pretending to be fact checkers to try to give their own account of facts, although often it's not the full truth"(Haley Created a Site to Fact-Check DeSantis. It Could Use More Context, 2024).

In the fifth debate (*DeSantis vs Haley CNN GOP Debate Transcript, n.d.*) during the Republican Party's primary election process in the US, Jake Tapper, the CNN moderator, asked the candidates in the debate whether they believed that Donald Trump had the character to be president again, and Haley, after initially expressing her belief that the next president should demonstrate moral clarity, stated that Trump was the right candidate at the right time and that while she agreed with many of his policies, her approach differed from his. She stated that he had no sense of revenge, no blood feud, that he did not take things personally, that what was important for him was not to make drama, not to whine, to get results and to get things done, that Trump was not the president who would take America forward and that it was time for a new generation leader who would make America proud again (*DeSantis vs Haley CNN GOP Debate Transcript, n.d.*). When Jake Tapper asked the same question to Ron DeSantis, Ron DeSantis used a planned future tense for the ability to engineer a return to the good times in his answer, which he meant to make plans for the return to the good times. He used the effect of repetition by using the phrase 'he did not fulfill what he promised' after each of the four examples of things that were said to be done but not done in his statements in which he appreciated what President Trump did but gave examples of things he promised but did not fulfill. To create a contrast between himself and his opponent Nicky Haley, he reminded the Republicans of the importance of having a reliable partner committed to defending their interests and underlined that Haley was a quitter when the going got tough (*DeSantis vs Haley CNN GOP Debate Transcript, n.d.*).

In the rhetoric of the debates, it is a strategy for the orators to use expressions that reduce or even neutralize the possible impact of the rhetoric of the opponent in characterizing the character of the opponents in the primary elections to the voters who are their interlocutors. As an example from the fifth

debate, DeSantis characterizes Haley's character by noting her lack of credibility: “When the going gets tough, she gives up”.

Chris Christie's characterization of Trump in the 2024 second GOP debate can also be quoted:

“... the inflation that Nikki spoke about is absolutely right and it's caused by government spending, and that's why people all across this country are suffering tonight. And yet we don't get any answers because Joe Biden hides in his basement and won't answer as to why he's raising the debt the way he's done. And Donald Trump, hides behind the walls of his golf clubs and won't show up here to answer questions like all the rest of us are up here to answer. He put \$7 trillion on the debt, he should be in this room to answer those questions for the people you talk about who are suffering. And if the government closes and if the government closes, it is to the blame of everyone in Washington DC who has failed to do their job and just plays to the grandstand” (Nikki Haley, 2023, September 28).

## 5. METHOD

Computational technology analysis tools were utilized in the analysis of the data obtained from the transcripts of the five debates in the 2024 Presidential primaries. The purpose of using these means of computational technology was to find out individual words, word strings, and concepts related to political literacy. These tools were wordclouds.com, the N-gram feature of Antconc, and Natural Language Processing. The wordclouds.com reveals the frequency of individual words in both a list and a visual. Only the lists were provided in tables. In this study, certain words of relevance to the aim of the study were selected and listed under several headings. Each word selected was thought to be directly or indirectly related to politics and policies. Due to the fact that word clouds only cover individual words but not word strings, Antconc software was used to find N-grams. Two-word, three-word, four-word, five-word, and six-word strings were found by this software. The tables of word strings in each of the five Republican debates were presented.

### 5.1. NATURAL LANGUAGE PROCESSING

In Natural Language Processing (NLP), social media datasets, such as those containing data from the American elections or social interview datasets, are widely used for various tasks like sentiment analysis, opinion mining, and political discourse analysis. These datasets often include large volumes of text from platforms like Twitter, Facebook, and Reddit, as well as transcripts from interviews or debates. Researchers use these datasets to analyze public sentiment, track political trends, and understand how language is used in social interactions. They are valuable for training models to detect bias, identify misinformation, and improve the understanding of public opinion dynamics. The richness and timeliness of social media data make them an important resource for NLP applications in politics, marketing, and social behavior analysis.

#### 5.1.1. Word Clouds of Datasets Using NLP



Figure 1. Gop 1 Word Cloud



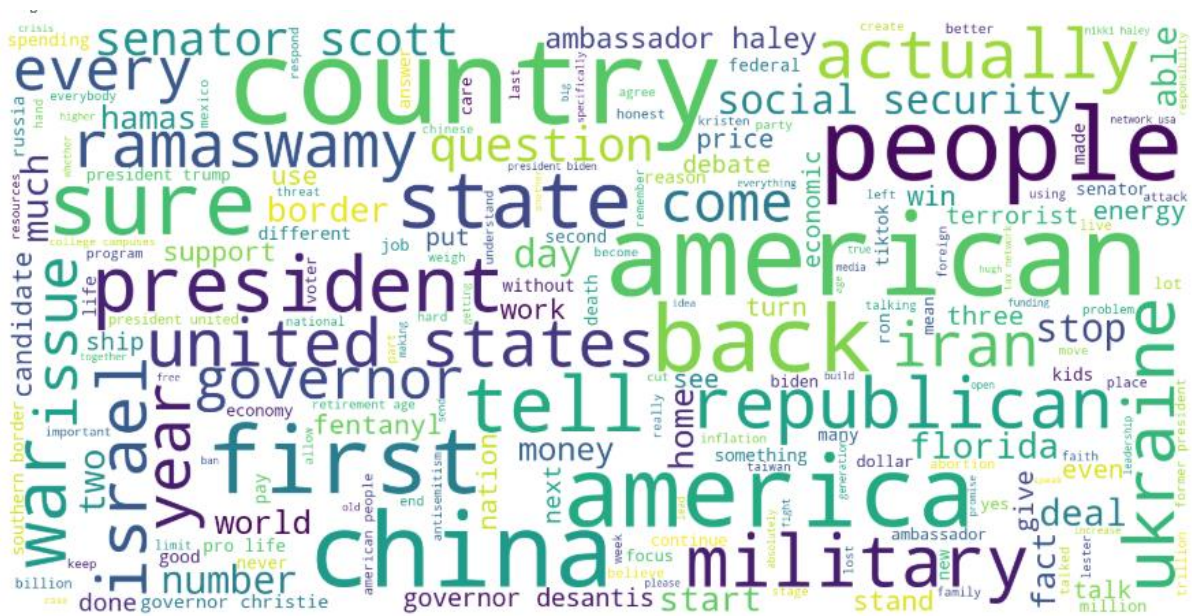


Figure 3. Gop 3 Word Cloud

The word sizes in the visualization indicate the frequency of words within the text, with larger words representing those used more frequently. Words such as "Country", "Sure," "American," "President" and "China" appear notably larger and more prominent compared to others. This suggests that the text's primary focus encompasses community, action, leadership, and national matters. Additionally, the presence of words like "President," "Governor," "military," and "China" indicates intensive coverage of leadership, government, and international relations topics within the text.

The appearance of country names such as "Ukraine," "China," and "Iran" suggests that international affairs and foreign policy discussions hold significant importance in the text. Particularly, the presence of words like "military" and "security" implies that these discussions are associated with security and defense policies. Furthermore, words such as "Americans," "people," and "need" indicate that the text addresses societal needs and public matters.

Overall, this word cloud appears to represent a text focused on politics, leadership, and international relations. The distribution and density of words within the text provide a powerful tool for identifying key messages and discussion points. This visualization serves as an effective method for quickly understanding the main themes of the text to be analyzed. More detailed and targeted analyses could be conducted with additional context.

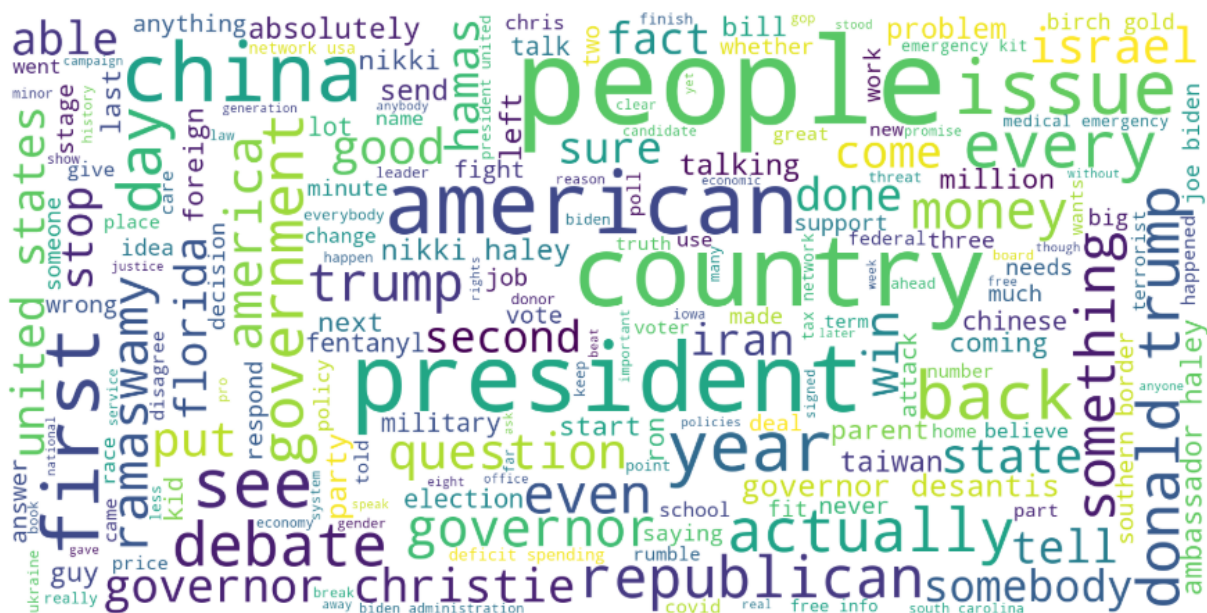


Figure 4. Gop 4 Word Cloud



creating concise summaries that capture the most significant points from each speaker's statements.

When executed, the code processes debate transcripts (specifically 'Gop\_debate5.txt' in this instance) and produces a structured analysis that includes speaker-specific summaries. For each speaker who makes substantial contributions (defined as more than 50 words), the system generates a condensed version of their statements while preserving the most important content. By default, it aims to reduce the text to approximately 30% of its original length while maintaining coherence and key messages.

The output is formatted as a clear analysis report, with each speaker's summary clearly labeled and separated by dividing lines. This makes it easy to quickly understand the main points and positions of different participants in the debate. The system is particularly valuable for analyzing long political debates where it's important to identify and extract the most significant statements and arguments from each participant.

Error handling is built into the system to manage common issues such as missing files or encoding problems, ensuring robust operation even when processing various types of input files. This makes the code particularly useful for researchers, journalists, or analysts who need to process and summarize large volumes of political discourse efficiently.

This code provides a powerful tool for automatic summarization and analysis of large texts. Using natural language processing techniques, it extracts important information from texts and creates meaningful summaries. It is particularly useful in analyzing discussion texts, conference records, or long documents. When processing the Gop1, Gop2, Gop3, Gop4, and Gop5 datasets, they enable us to understand speakers' discussions by summarizing rather than reading through large datasets individually.

With the developed code, Gop1, Gop2, Gop3, Gop4, and Gop5 data sets are summarized and the summary results of the data sets are shown below.

<b>Gop1 Text Summarization</b>
<p>Speaker 1 :</p> <p>Here, there is one battleground that may be harder to win than ever Two years later, the US Supreme Court struck down Roe versus Wade, leaving the legality of abortion up to the states. Tonight, the Republican candidates will face off at the home of the Bucks and the Marquette Golden Eagles, hoping to return next July to this city on the shore of Lake Michigan to accept the Republican nomination at their party's national convention.</p>
<p>Ron DeSantis :</p> <p>We will send Joe Biden back to his basement and we will reverse the decline of this country. I worked minimum wage jobs to be able to make ends meet. I understand the importance of the American dream and I know how that slipped away from so many millions of Americans, we'll restore it. I understand the importance of protecting parents' rights and the wellbeing of our children.</p>
<p>Chris Christie :</p> <p>Look, everybody on this stage wants to be the next President of the United States, and the only way that's going to happen is if we beat Joe Biden. I'm the only one on this stage who's ever beaten the Democratic incumbent in election. The last Democratic incumbent president who was defeated was Jimmy Carter, and he was defeated by a Conservative governor from a Blue state who knew how to get results, who stood for the truth, who cared about accountability and stood strong and hard against waste.</p>
<p>Tim Scott :</p> <p>I was a disillusioned young man growing up in a single-parent household mired in poverty. I have the good fortune of a mom who works 16-hour days making sure we have food on our tables. If you commit a violent crime, you go to jail, and if God made you a man, you play sports against men.</p>
<p>Mike Pence :</p>

We've proved in the Trump-Pence years, you can turn this country around faster than you can imagine, and I have faith we will again because I have faith in the American people, a good, decent, hardworking, faith-filled, idealistic people of this country, and I have faith that God is not done with America yet. If we will renew our faith in one another and renew our faith in Him, who has ever guided this nation since we arrived on these wilderness shores, I know the best days for the greatest nation on earth are yet to come.

Vivek Ramaswamy :

I was born in 1985 and I grew up into a generation where we were taught to celebrate our diversity and our differences so much that we forgot all of the ways we are really just the same as Americans bound by a common set of ideals that set this nation into motion in 1776, and this is our moment to revive those common ideals. The nuclear family is the greatest form of governance known to man. Capitalism lifts us up from poverty. There are three branches of government, not four, and the US Constitution, it is the strongest guarantor of freedom in human history.

Doug Burgum :

Our economy is being crushed by Biden's energy policies which are raising the cost of every product you buy, not just the gasoline at the pump. I'll get this economy sprinting, not crawling like it is right now, and I would say that other thing is for sure when I'm on a horseback in the Badlands in North Dakota, it looks like the horizon is just limitless. When you can almost see beyond that horizon, you can see that this great country, our future is unlimited, but we've got to focus on innovation, not regulation. We've got to drive ourselves toward the way we win the Cold War with China is by growing our economy and through innovation, and as president, I will bring out the best of America.

Asa Hutchinson :

The solution is new leadership that can bring bold ideas to America and to bring out the best of America. As president, I'll bring out the best of America in terms of individual responsibility, building our economy, in terms of securing our border, enforcing the rule of law.

Speaker 7 :

You're up for debate season with a GOP foam finger and a beat Biden tee, you'll be the envy of your watch party. Text debate to 80810 to enter to win two free tickets to a future debate.

Speaker 8 :

For 20 years, Birch Gold has helped concerned Americans protect their future by moving part of an existing IRA or 401(k) into a physical Gold IRA.

Russell Brand :

Rumble has to be a place that welcomes everybody, where you'll feel free to be who you are, where you respect another person's freedom in exchange for your own freedom for being respected.

Cade Courtley :

Use the endless free power of the sun to power light, your TV, medical equipment, even run your fridge and that's without gas, fumes or noise. Get your solar generator and free panel at 4Patriots.com.

## **Gop 2 Text Summarization**

Vivek Ramaswamy :

I think Trump was an excellent president, but the America First agenda does not belong to one man. And the question is, who's going to unite this country and take the America First agenda to the next level? But we will unite this country to take the America First agenda to the next level, and that will take a different generation to do it

Ron DeSantis :

So polls don't elect presidents, voters elect presidents. We've got to win, and we need somebody that's going to be able to serve two terms. So in January of 2023, they'll be able to address the nation saying, we turned the economy around, we secured the border, and we fended off the threat from communist China as your president, I will get that job done.

Doug Burgum :

When I took office, we shrunk the state budget general fund by 27% in the first four months I was office, and we all the trains still running on time. Inside of every government job, there's 10 or 20% of mind-numbing, soul-sucking work that even the state and federal employees don't want to do, and you can engineer that work out of the job. That would free up right there, 20% of 2 million civilian employees, and by the way, we've got 10 million jobs open.

Mike Pence :

Well, I promise you that we're going to continue to build bridges to every community in this country, and I'm incredibly proud of that tax cut and tax reform bill. We saw literally the lowest unemployment ever recorded for Hispanic Americans, the lowest unemployment ever recorded for African Americans, 50 year low for women.

Chris Christie :

Every person on the stage has shown the respect for Republican voters to come here to express their views, honestly, candidly and directly and to take your questions honestly, I have respect for every man and woman on the stage because they've done it. I've spoken to people and I know everyone else has who have sat at Thanksgiving dinner or at a birthday party and can't have a conversation anymore if they disagree with Donald Trump.

Speaker 2 :

For 20 years, Birch Gold has helped concerned Americans protect their future by moving part of an existing IRA or 401K into a Physical Gold IRA.

Kevin Sorbo :

Tax Network USA, a trusted tax firm, can help protect your income and assets today while quickly settling your tax debt. Call Tax Network USA today.

Speaker 11 :

It's the new Patriot Power Generator 2000X, a solar generator worth its weight in gold when your power goes out, with double the capacity and expandable so you can run your fridge even longer. Get your solar generator with free shipping and free panel, at [4Patriots.com](http://4Patriots.com).

Joe Biden :

I became a professor at the University of Pennsylvania. I was the Ben Franklin professor of practice at the University of Pennsylvania.

Cade Courtley :

Use the endless free power of the sun to power lights, your TV, medical equipment, even run your fridge, and that's without gas, fumes or noise. Get your solar generator and free panel at [4patriots.com](http://4patriots.com).



### **Gop 3 Text Summarization**

Announcer :

The candidates ready to make their case on why they're prepared to be commander-in-chief amid two wars on the world stage, how they plan to tackle stubborn inflation and how they can unite a deeply divided electorate. Florida Governor Ron DeSantis, former UN Ambassador Nikki Haley, entrepreneur Vivek Ramaswamy, former New Jersey Governor Chris Christie, and South Carolina, Senator Tim Scott.

Lester Holt :

On behalf of my fellow moderators, I want to thank the candidates for their time and for this spirited debate. Thank you as well to our wonderful host here at the Adrienne Arsht Performing Arts Center.

Gov. Ron DeSant... :

We must reverse our country's decline and that is going to require leadership. I am going to win for you and your family, and I'm going to lead this country's revival. As the father of three young kids, I'm going to ensure that this country is left to the next generation in better shape than we found it.

Nikki Haley :

It is very important that we know how to defend our freedoms and how to defeat terrorism and socialism. We need to know that a strong America doesn't start wars as strong America prevents wars. And the way we can focus on that is to make sure we go back to the soul of America and be strong and proud again. So join our movement, go to [nikkihaley.com](http://nikkihaley.com) and we will once again show what America that's strong and proud looks like.

Gov. Chris Chri... :

Their exhaustion from the petty personal politics that have taken over this country over the last number of years. I'm running for president to be a president of consequence, to do the big things, to make sure that America's role in the world stays number one. But you can't truly say you love America unless you're ready to open up your heart to every American. I'm going to open up my heart to every American as president and I will make sure that I return honesty, integrity to the Oval Office.

Matthew Brooks :

Jewish students across the country are threatened and under attack. What do you say to Jewish students on college campuses who feel unsafe given the dramatic rise in antisemitism? And what do you say to university presidents and college presidents who have not met the moral clarity moment to forcefully condemn Hamas terrorism?

Advertisement 2 :

Birch Gold Group has helped thousands of Americans diversify their IRA or 401k into gold.

Kevin Sorbo :

Tax network USA, a trusted tax firm can help protect your income and assets today while quickly settling your tax debt. Call Tax Network USA today.

### **Gop 4 Text Summarization**

Speaker 2 :

Get 15% off your entire purchase at the official GOP store when you text Santa to 80810.

Speaker 3 :

Former Fed Chair Alan Greenspan warned, "Deficit spending is simply a scheme for the confiscation of wealth," but he added, "Gold stands in the way of this insidious process."

Speaker 4 :

The Wellness Company and their doctors are medical professionals you can trust, and their new medical emergency kits are the gold standard when it comes to keeping you safe and healthy. This medical emergency kit contains an assortment of life-saving medications, including Ivermectin, Z-Pak. Rest assured, knowing that you have emergency antibiotics, antivirals, and antiparasitics on hand to help you and your family stay safe from whatever life throws at you next.

Kevin Sorbo :

Tax Network USA, a trusted tax firm, can help protect your income and assets today while quickly settling your tax debt. Call Tax Network USA today.

Speaker 6 :

Rumble offers a chance to discover America's independent voices free from algorithms and sensors.

My wife, [inaudible 01 :

We need to start having diverse insurance options in a competitive marketplace that cover actual health, preventative medicine, diet, exercise, lifestyle and otherwise. And here's how we deliver that, end the antitrust exemptions for health insurance companies.

Speaker 11 :

Text "pin" to 80810 to get your exclusive golden elephant pin.

### **Gop 5 Text Summarization**

Jake Tapper :

Governor DeSantis and Governor Haley, thank you so much both of you for being here tonight.

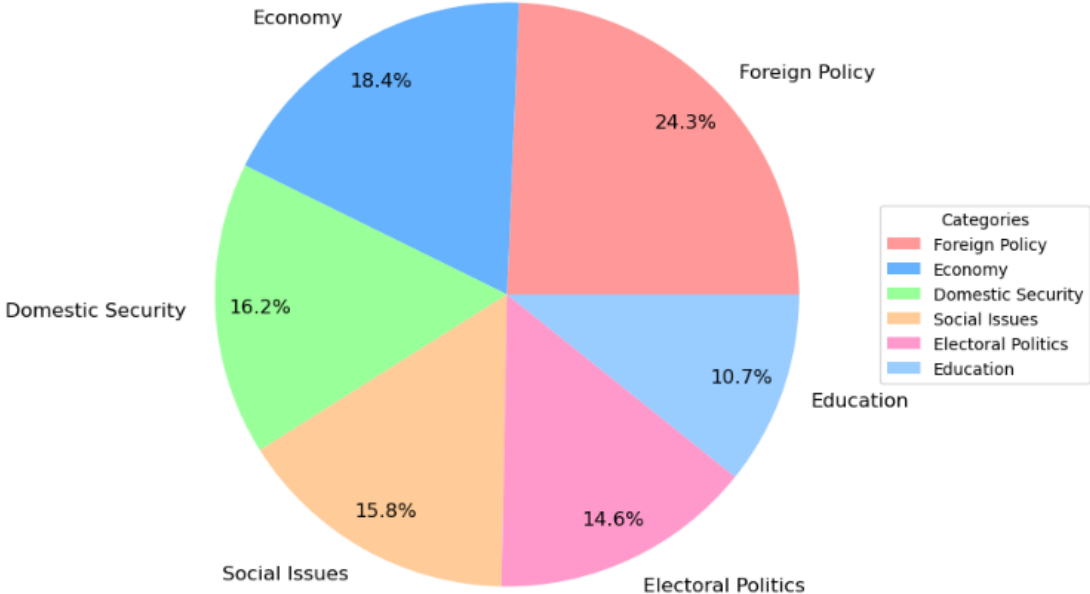
Ron DeSantis :

Nikki Haley's running for her donor's issues. I'm running for your issues, your family's issues, and solely to turn this country around. I'm the only one running that's delivered on 100% of my promises, and I'm the only one running that has beaten the left time and time again From the teacher's unions to Fauci to the Democratic Party. We can't run under a banner of pale pastels of the warmed-over corporatism, the likes of which is practiced by Nikki Haley.

Nikki Haley :

I have campaigned for 11 months, whether it's driving a combine or holding a pig at a produce area, or whether it's the fact that we've met owners of bakeries and small businesses. Every one of them knows that we can't go through four more years of chaos. We can't be a country in disarray in a world on fire and go through four more years of chaos. If you look at the polls right now, going against Joe Biden in every one of those head-to-head polls, Ron doesn't beat Joe Biden. That's a mandate to get our kids reading again and go back to the basics in education. That's a mandate to bring law and order back to our country, and that's a mandate for a strong America that we can be proud of.

### 5.1.3. Classification of Dataset According to Subjects with Natural Language Processing



**Figure 6.** Distribution of Discussion Topics in Gop 1 Dataset

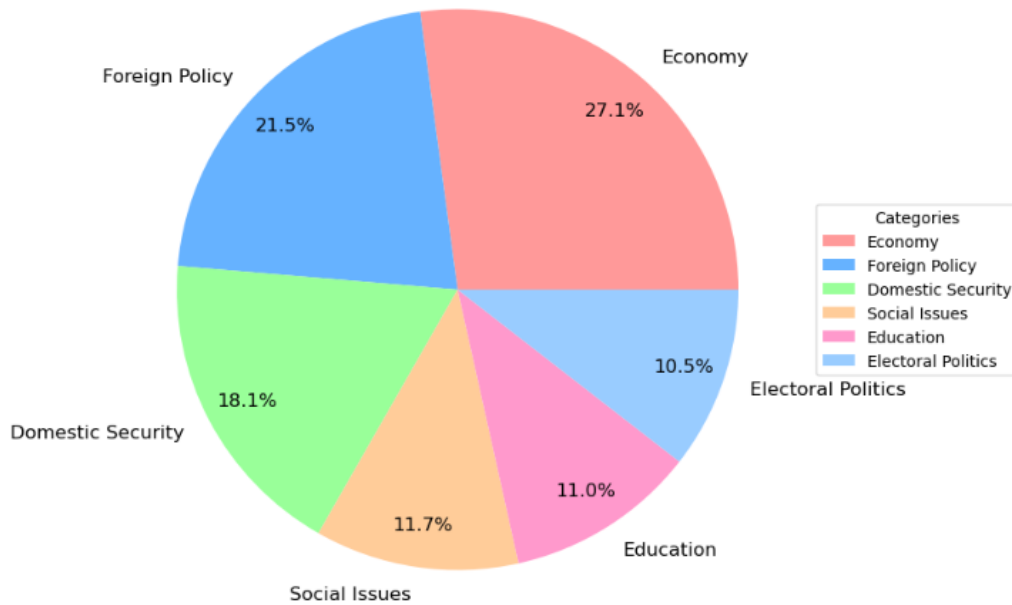
This pie chart illustrates the distribution of discussion topics in the GOP presidential debate. The dataset was analyzed using natural language processing techniques to reveal the percentage distribution of topics.

Foreign policy topics occupy the largest share at 24.3%, reflecting discussions particularly focused on the Ukraine crisis, relations with China, and international security matters. The economy ranks second at 18.4%, indicating significant attention to discussions about inflation, tax policies, and economic growth.

Internal security issues account for 16.2%, emphasizing the weight of discussions on border security and immigration policy. Social issues are represented at 15.8%, encompassing debates about abortion rights and societal values.

Electoral politics takes a 14.6% share, which includes discussions about Donald Trump and candidates' individual election strategies. Finally, education topics hold the smallest share at 10.7%, though still indicating significant discussions about school choice and education reform.

This distribution helps us understand the priorities of Republican candidates and the issues they emphasize in their election campaigns. The prominence of foreign policy and economy particularly suggests that these issues are considered significant among voters.



**Figure 7.** Distribution of Discussion Topics in Gop 2 Dataset

This pie chart illustrates the distribution of discussion topics in the second GOP presidential debate. The data, analyzed using natural language processing techniques, reveals the proportional distribution of core topics in the debate.

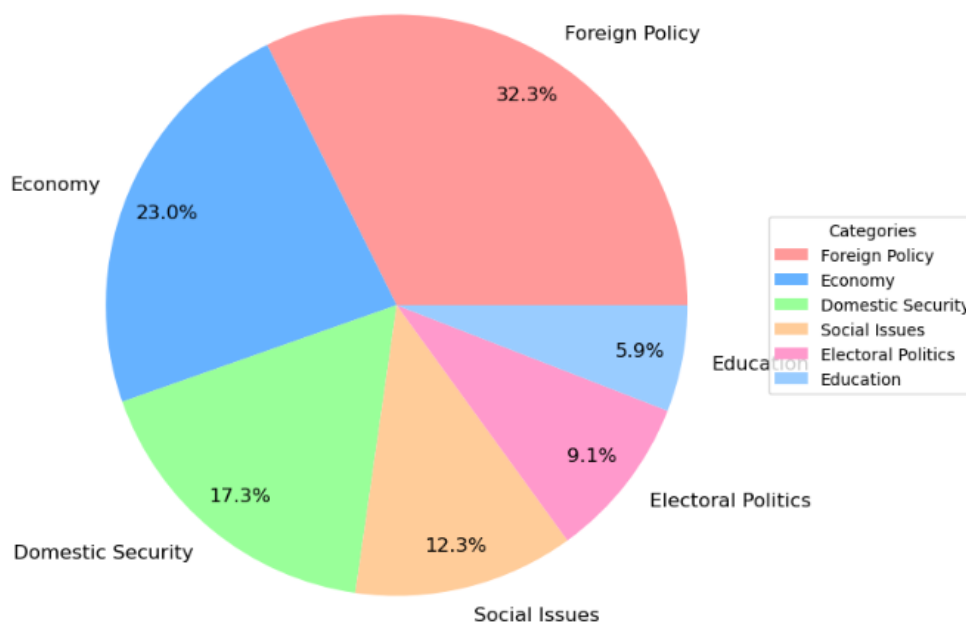
Economic issues claim the largest share at 27.1%. This indicates that economic matters, particularly inflation, automotive sector strikes, energy policies, and unemployment, occupied a significant portion of the debate. This percentage reflects that economic issues are voters' primary concern.

Foreign policy topics rank second at 21.5%. This category predominantly features topics such as relations with China, the Russia-Ukraine war, and international trade agreements. This percentage shows a slight decrease compared to the first debate (24.3%).

Internal security issues account for 18.1%, with discussions focusing on border security, immigration policies, and rising crime rates. This represents a slight increase compared to the first debate (16.2%).

Social issues at 11.7%, education at 11.0%, and electoral politics at 10.5% are represented in relatively similar proportions. This distribution indicates these topics were addressed more evenly in the debate.

Compared to the first debate, there is a notable increase in emphasis on economic issues (from 18.4% to 27.1%), while foreign policy topics show a relative decrease (from 24.3% to 21.5%). This shift likely reflects the influence of current economic developments such as automotive sector strikes and rising inflation.



**Figure 8.** Distribution of Discussion Topics in GOP 3 Dataset

This pie chart displays the distribution of discussion topics in the third GOP presidential debate. The data, analyzed using natural language processing techniques, reveals the proportional weight of topics in the debate.

Foreign policy issues claim the largest share at 32.3%. This represents a significant increase compared to the previous two debates (24.3% in the first, and 21.5% in the second). The primary reason for this increase is the prominence of urgent foreign policy issues such as the Israel-Hamas war, the Ukraine crisis, and relations with China.

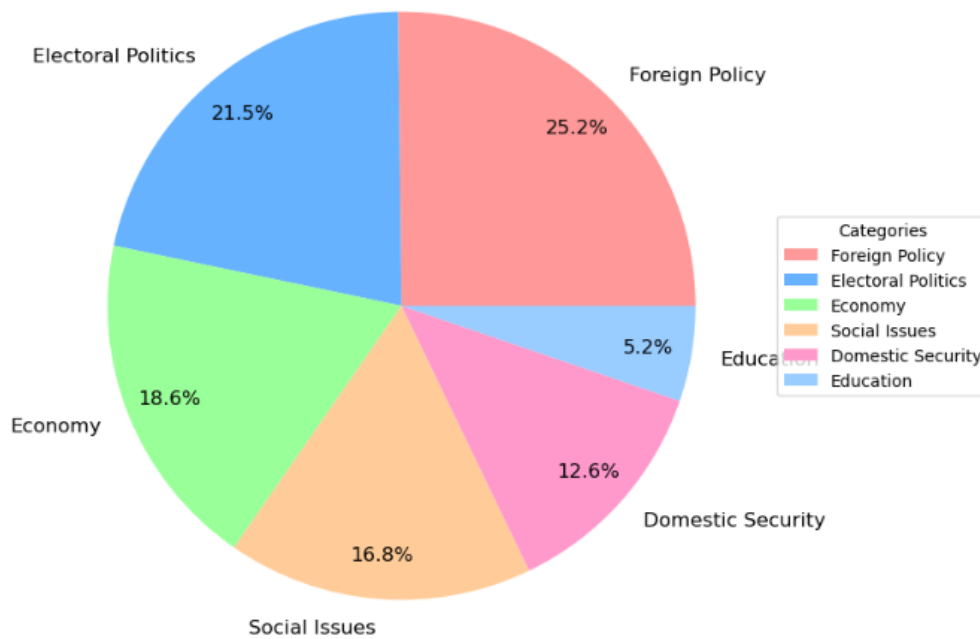
Economic issues rank second at 23.0%. Although this shows a decrease from the 27.1% in the second debate, it still maintains significant importance. Economic matters such as inflation, cost of living, and Social Security reform constituted a substantial portion of the debate.

Internal security issues account for 17.3%, with topics such as border security and the fentanyl crisis being discussed under this heading. Social issues at 12.3%, electoral politics at 9.1%, and education at 5.9% complete the distribution.

This distribution shows several significant changes when compared to previous debates:

- The share of foreign policy topics has increased in each debate (24.3% > 21.5% > 32.3%)
- The share of economic issues has fluctuated (18.4% > 27.1% > 23.0%)
- The share of education topics has steadily decreased (10.7% > 11.0% > 5.9%)

These changes demonstrate how current events shape the content of debates and how candidates' priorities evolve over time.



**Figure 9.** Distribution of Discussion Topics in GOP 4 Dataset

This pie chart illustrates the distribution of discussion topics in the fourth GOP presidential debate. The data, analyzed using natural language processing techniques, reveals the proportional weight of topics in the debate.

Foreign policy issues maintain the largest share at 25.2%. Although this represents a decrease from the previous debate's 32.3%, it remains the most prominent topic. This high percentage reflects the significant attention given to global issues such as the Israel-Hamas conflict, China-Taiwan tensions, and the Ukraine crisis.

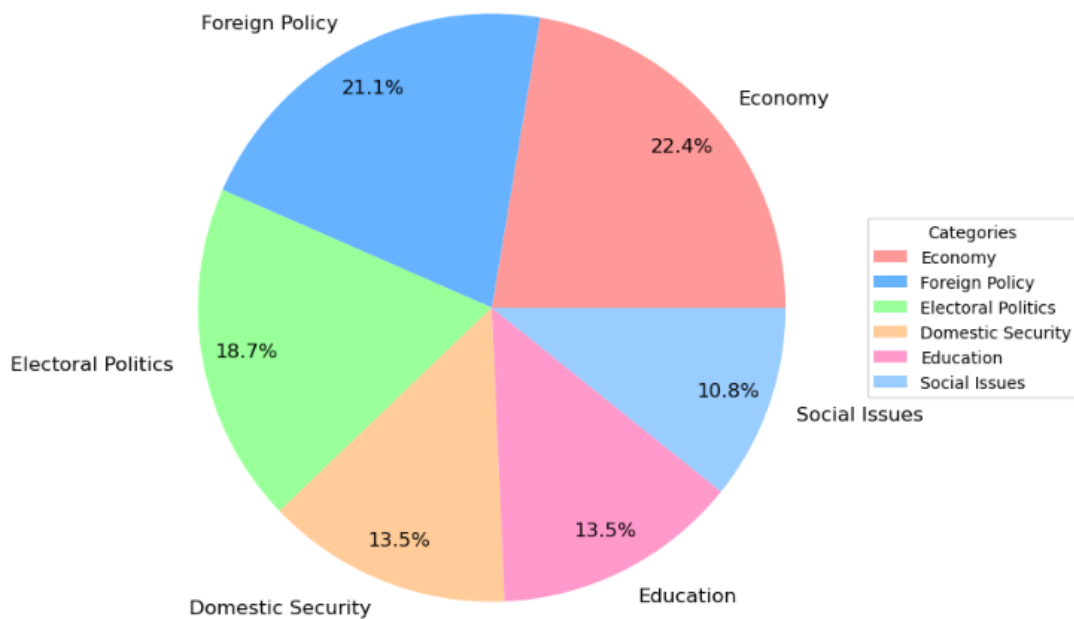
Electoral politics ranks second at 21.5%, showing a notable increase from previous debates (9.1% in the third debate). This increase is attributed to the approaching Iowa caucuses and intensified discussions about Donald Trump's candidacy.

Economic issues hold third place at 18.6%. Economic topics such as inflation, housing prices, and cost of living continue to maintain significant importance. Social issues at 16.8%, internal security at 12.6%, and education at 5.2% complete the distribution.

Examining the evolution of topics across all four debates:

- Foreign policy has consistently remained a leading topic but fluctuated in proportion (24.3% > 21.5% > 32.3% > 25.2%)
- Electoral politics showed a significant increase in the final debate (14.6% > 9.1% > 21.5%)
- Education topics steadily decreased in share (10.7% > 11.0% > 5.9% > 5.2%)

These changes demonstrate how the debates' focus shifted with the approaching elections and how candidates' priorities evolved. Particularly, the prominence of electoral politics in the final debate indicates candidates' increased emphasis on election strategies and electability issues.



**Figure 10.** Distribution of Discussion Topics in GOP 5 Dataset

This pie chart illustrates the distribution of discussion topics in the fifth GOP presidential debate. The data, analyzed using natural language processing techniques, reveals the percentage weight of topics in the debate.

Economic issues claim the largest share at 22.4%, showing an increase from previous debates (18.6% in the fourth debate). This increase primarily stems from economic challenges such as inflation, housing market issues, and rising cost of living taking center stage in the discussion.

Foreign policy topics rank second at 21.1%. Although this represents a decrease from the previous debate (25.2%), international issues such as the Israel-Hamas conflict, relations with China, and the Ukraine crisis still maintain significant importance.

Electoral politics holds third place at 18.7%, showing a slight decrease from the previous debate's 21.5%. Social issues and education topics are represented at 16.8% and 13.5% respectively, while internal security issues account for 13.5%.

Examining the evolution of topics across all five debates reveals several significant trends:

- Economic issues have gained increasing importance
- The weight of foreign policy topics has fluctuated
- Electoral politics became more prominent as the Iowa caucuses approached
- Education topics gradually lost their initial importance

These changes demonstrate both how current events shape the content of debates and how candidates' priorities shift with the progression of the election calendar. Particularly, the prominence of economic issues indicates increased attention to matters directly affecting voters' daily lives.

#### 5.1.4. Sentiment Analysis Using Natural Language Processing

The Detailed Sentiment Analysis Results table presents a comprehensive analysis of each speaker's statements. The table includes speakers' names alongside their Statement\_Length, VADER sentiment analysis scores (Compound, Positive, Negative, Neutral), and TextBlob analysis results (Polarity and Subjectivity). This table provides an opportunity for objective comparison by presenting the emotional tone of each speaker's discourse with numerical data.

The VADER Sentiment Scores graph displays speakers' emotional tones in a bar chart format. The y-axis shows sentiment scores ranging from -1 to +1, while the x-axis displays the speakers. Positive values represent a positive tone, while negative values represent a negative tone. This graph allows us to visually compare which speakers employed a more positive or negative tone.

The Sentiment Analysis: Polarity vs Subjectivity scatter plot simultaneously shows the emotional tone (x-axis) and degree of subjectivity (y-axis) in speakers' statements. This graph enables us to analyze which speakers used more objective or subjective language and how positive or negative this language was, all in a single visualization.

Finally, the Summary Statistics table presents a numerical summary of the entire analysis. This table helps us understand general trends by showing the mean, standard deviation, minimum, maximum, and quartile values for speech lengths, sentiment scores, and subjectivity values.



### 5.1.5. GOP 1 Sentiment Analysis

**Table 1.** Gop 1 Data Detailed Sentiment Analysis Result

	Speaker	Statement_Length	VADER_Compound	VADER_Positive
0	Speaker 1	215	0.649	0.073
1	Bret Baier	4	0.000	0.000
2	Martha Maccallu...	4	0.000	0.000
3	President Joe B...	24	0.157	0.085
4	Speaker 2	16	0.318	0.141
5	Speaker 3	20	0.000	0.000
6	Speaker 4	21	-0.128	0.000
7	Speaker 5	8	-0.784	0.000
8	Oliver Anthony	2	0.000	0.000
9	Ron DeSantis	162	0.953	0.133
10	Chris Christie	181	0.852	0.153
11	Tim Scott	146	0.875	0.186
12	Mike Pence	198	0.992	0.236
13	Vivek Ramaswamy	165	0.970	0.188
14	Nikki Haley	153	0.969	0.176
15	Doug Burgum	228	0.948	0.138
16	Asa Hutchinson	146	0.985	0.245
17	Alexander Diaz	40	0.657	0.235
18	Speaker 7	64	0.970	0.316
19	Lindsey Graham	32	0.402	0.083
20	Speaker 8	78	0.527	0.135
21	Speaker 6	30	0.226	0.086
22	Speaker 9	11	0.836	0.527
23	Speaker 10	12	0.000	0.000
24	Speaker 11	7	0.000	0.000
25	Speaker 12	4	0.052	0.375
26	Speaker 13	4	-0.153	0.000
27	Speaker 14	14	0.440	0.182
28	Russell Brand	83	0.978	0.276
29	Ronna McDaniel	6	0.586	0.432
30	Francis Suarez	7	0.000	0.000
31	Donald Trump	11	0.296	0.180
32	Bill Hagerty	12	0.000	0.000
33	Byron Donalds	3	0.000	0.000
34	Ted Cruz	12	0.318	0.173
35	Speaker 15	8	0.637	0.375
36	Sergeant Best	9	-0.340	0.000
37	Cade Courtley	79	0.940	0.202
38	Rumble	7	0.361	0.294
39	YouTube	11	-0.318	0.156
40	Speaker 16	6	-0.200	0.000
41	Speaker 17	14	0.625	0.317
42	Speaker X	9	0.202	0.184
43	President Biden	5	0.000	0.000
44	Speaker 18	12	0.202	0.260
45	Speaker 19	8	0.637	0.375
46	Speaker 20	10	-0.658	0.000
47	Speaker 21	11	0.836	0.527
48	Speaker 22	8	0.273	0.231
49	Speaker 23	8	-0.026	0.264
50	Sean Hannity	13	0.827	0.465

**Table 2** Gop 1 TextBlob Polarity and Subjectivity Analysis

	VADER_Negative	VADER_Neutral	TextBlob_Polarity	TextBlob_Subjectivity
0	0.059	0.868	0.119	0.346
1	0.000	1.000	0.000	0.000
2	0.000	1.000	0.000	0.000
3	0.060	0.854	0.025	0.694
4	0.000	0.859	-0.433	0.600
5	0.000	1.000	0.160	0.540
6	0.073	0.927	-0.389	0.833
7	0.535	0.465	-0.333	1.000
8	0.000	1.000	0.000	0.000
9	0.000	0.867	0.105	0.202
10	0.103	0.744	0.094	0.411
11	0.093	0.720	0.155	0.417
12	0.060	0.705	0.083	0.433
13	0.060	0.752	0.154	0.317
14	0.037	0.786	0.310	0.603
15	0.076	0.785	0.188	0.387
16	0.063	0.693	0.338	0.336
17	0.108	0.657	0.217	0.467
18	0.050	0.634	0.341	0.521
19	0.000	0.917	0.000	0.000
20	0.096	0.769	0.186	0.435
21	0.058	0.856	0.214	0.321
22	0.000	0.473	0.000	0.000
23	0.000	1.000	-0.100	0.100
24	0.000	1.000	0.000	0.000
25	0.347	0.278	-0.500	1.000
26	0.348	0.652	0.000	0.000
27	0.000	0.818	0.500	0.500
28	0.037	0.687	0.300	0.786
29	0.000	0.568	0.450	0.350
30	0.000	1.000	0.100	0.300
31	0.000	0.820	0.100	0.300
32	0.000	1.000	0.100	0.700
33	0.000	1.000	0.000	0.000
34	0.000	0.827	0.000	0.000
34	0.000	0.827	0.000	0.000
35	0.000	0.625	1.000	0.300
36	0.231	0.769	0.000	0.000
37	0.000	0.798	0.211	0.550
38	0.000	0.706	0.000	0.000
39	0.252	0.593	0.000	0.000
40	0.264	0.736	0.000	0.000
41	0.000	0.683	0.050	0.800
42	0.000	0.816	0.400	1.000
43	0.000	1.000	0.000	0.000
44	0.140	0.600	0.200	0.500
45	0.000	0.625	1.000	0.300
46	0.402	0.598	0.000	0.000
47	0.000	0.473	0.000	0.000
48	0.000	0.769	0.000	0.000
49	0.276	0.460	0.400	0.900
50	0.000	0.535	0.543	0.643

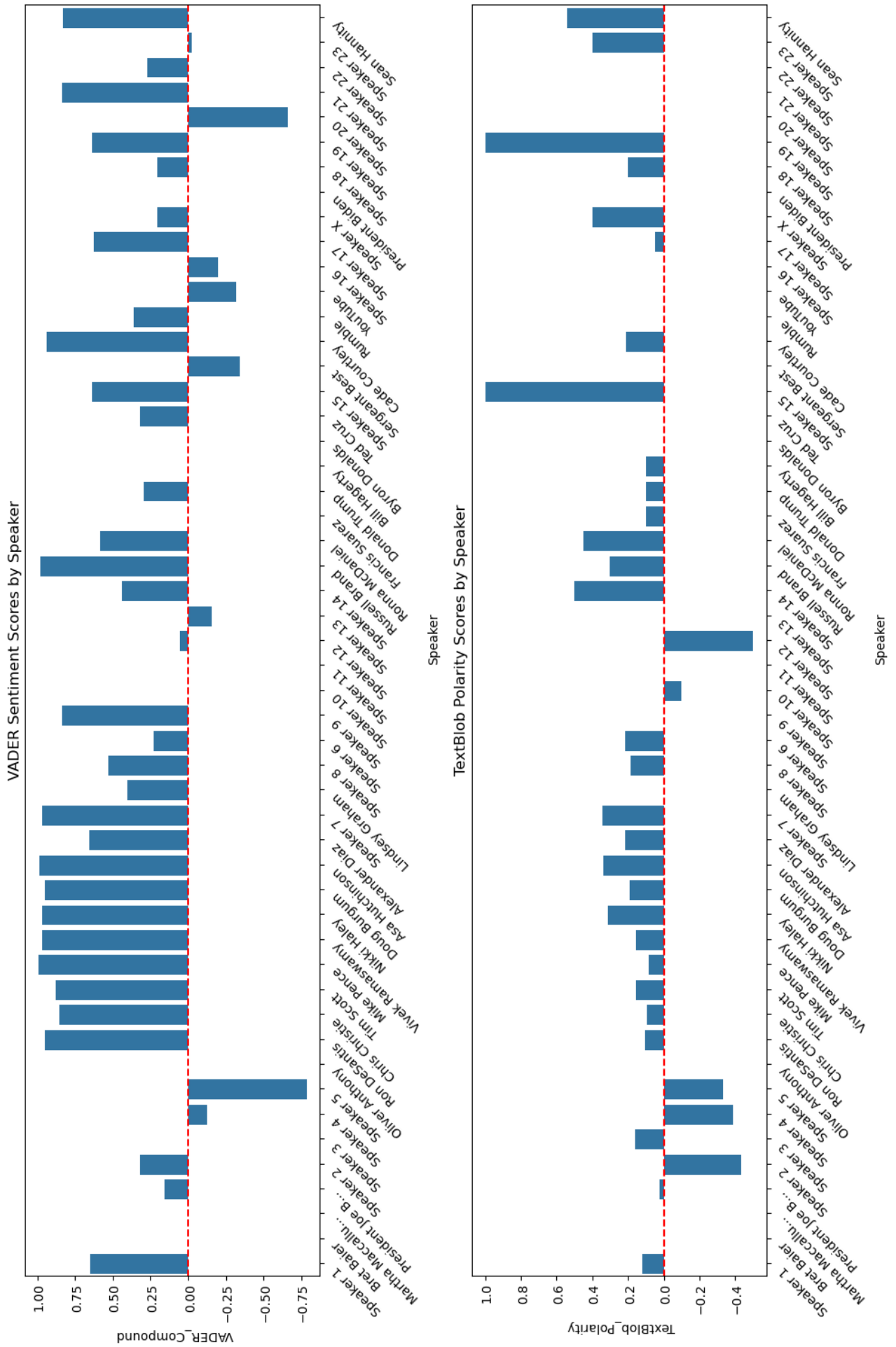


Figure 11. VADER Sentiment Scores Gop 1

**Table 3. GOP 1 Data General Trends and Inferences: Summary Statistics**

	Statement_Length	VADER_Compound	VADER_Positive	VADER_Negative
count	51.000	51.000	51.000	51.000
mean	45.902	0.351	0.165	0.075
std	65.308	0.464	0.151	0.123
min	2.000	-0.784	0.000	0.000
25%	8.000	0.000	0.000	0.000
50%	12.000	0.318	0.156	0.000
75%	52.000	0.832	0.252	0.084
max	228.000	0.992	0.527	0.535

	VADER_Neutral	TextBlob_Polarity	TextBlob_Subjectivity
count	51.000	51.000	51.000
mean	0.760	0.123	0.351
std	0.175	0.276	0.317
min	0.278	-0.500	0.000
25%	0.643	0.000	0.000
50%	0.769	0.094	0.336
75%	0.867	0.213	0.545
max	1.000	1.000	1.000

### 5.1.6. GOP 1 Sentiment Analysis Results

**VADER Sentiment Analysis:** The VADER analysis reveals significant variations in emotional tone among speakers. Mike Pence achieved the highest positive sentiment score (0.992), while Speaker 5 received the lowest (-0.784). Most candidates maintained positive tones, with Mike Pence, Vivek Ramaswamy, and Nikki Haley scoring above 0.95. This indicates a general preference for constructive and hopeful language, even when discussing challenging topics like economy and national security.

**TextBlob Polarity Analysis:** TextBlob polarity scores complement the VADER analysis from a different perspective. Notable differences emerge, with Speakers 15 and 19 showing the highest polarity scores (1.000) and Speaker 12 the lowest (-0.500). The analysis appears to yield more pronounced results for shorter statements. Major candidates' polarity scores remain moderate, ranging between 0.1 and 0.3, suggesting a more balanced discourse.

**Subjectivity Analysis:** The subjectivity analysis reveals varying degrees of objective versus subjective language use. Speakers 4, 5, and X demonstrate the highest subjectivity scores (0.833-1.000), indicating more emotional and personal language. In contrast, official speakers and moderators show lower subjectivity scores, reflecting more objective and neutral language.

**Speech Length and Content Analysis:** Doug Burgum delivered the longest speech (228 words), while most major candidates spoke between 150-200 words, adhering to moderators' time constraints. We observe that longer speeches generally correspond with more balanced sentiment scores.

**General Trends and Implications:** Summary statistics indicate an overall positive tone in the debate (average VADER Compound score 0.351). Most speakers maintained moderate subjectivity levels (average 0.351), suggesting a professional debate environment. Standard deviation values, particularly in sentiment scores (0.464), indicate significant variation in speakers' strategies.

The key finding reveals candidates' efforts to maintain constructive and positive discourse while preserving their individual styles. Experienced politicians notably employed more balanced and controlled emotional tones, while newer candidates occasionally resorted to more sharp and emotional expressions.

### 5.1.6.1.Gop 2 Sentiment Analysis

**Table 4. GOP 2 Data Detailed Sentiment Analysis Result**

	Speaker	Statement_Length	VADER_Compound	VADER_Positive
0	Speaker 1	43	0.742	0.158
1	Ronald Reagan	32	0.494	0.127
2	Vivek Ramaswamy	143	0.971	0.170
3	Ron DeSantis	155	0.402	0.052
4	Doug Burgum	172	0.795	0.048
5	Tim Scott	17	0.318	0.133
6	Nikki Haley	3	-0.077	0.000
7	Mike Pence	150	0.968	0.219
8	Chris Christie	136	0.965	0.162
9	Stuart Varney	21	0.000	0.000
10	Ilia Calderón	11	0.765	0.452
11	Dana Perino	22	0.751	0.242
12	Speaker 2	78	0.527	0.135
13	Speaker 3	8	0.273	0.231
14	Speaker 4	7	0.000	0.000
15	Speaker 5	6	-0.026	0.264
16	Speaker 6	10	0.052	0.205
17	Speaker 7	46	0.979	0.418
18	Speaker 8	8	0.000	0.000
19	Speaker 9	11	-0.148	0.142
20	Speaker 10	1	0.000	0.000
21	Ronna McDaniel	6	0.586	0.432
22	Kevin McCarthy	15	0.000	0.000
23	Donald Trump	11	0.296	0.180
24	Sen. Bill Hager...	12	0.000	0.000
25	Rep. Byron Dona...	3	0.000	0.000
26	Sen. Ted Cruz	12	0.318	0.173
27	Kevin Sorbo	81	0.676	0.121
28	Speaker 11	89	0.927	0.176
29	Speaker 12	6	0.000	0.000
30	Speaker 13	3	0.000	0.000
31	Speaker 14	4	0.000	0.000
32	Speaker 15	9	0.000	0.000
33	Speaker 18	9	-0.586	0.000
34	Speaker 17	9	0.000	0.000
35	Joe Biden	79	-0.153	0.000
36	Speaker 19	14	0.625	0.317
37	Speaker 20	6	-0.128	0.000
38	Cade Courtley	79	0.940	0.202
39	Speaker 16	5	0.459	0.429

**Table 5.** Gop 2 TextBlob Polarity and Subjectivity Analysis

	VADER_Negative	VADER_Neutral	TextBlob_Polarity	TextBlob_Subjectivity
0	0.000	0.842	0.275	0.531
1	0.000	0.873	0.217	0.500
2	0.026	0.804	0.197	0.450
3	0.036	0.912	0.443	0.521
4	0.007	0.945	0.165	0.474
5	0.000	0.867	0.000	0.000
6	0.394	0.606	-0.333	0.667
7	0.097	0.684	0.100	0.162
8	0.018	0.820	0.191	0.565
9	0.000	1.000	0.179	0.333
10	0.000	0.548	0.800	0.750
11	0.000	0.758	0.700	0.800
12	0.096	0.769	0.186	0.435
13	0.000	0.769	0.000	0.000
14	0.000	1.000	0.000	0.000
15	0.276	0.460	0.400	0.900
16	0.189	0.606	-0.500	1.000
17	0.000	0.582	0.500	0.641
18	0.000	1.000	0.000	0.000
19	0.185	0.673	0.433	0.533
20	0.000	1.000	0.000	0.000
21	0.000	0.568	0.450	0.350
22	0.000	1.000	0.000	0.067
23	0.000	0.820	0.100	0.300
24	0.000	1.000	0.100	0.700
25	0.000	1.000	0.000	0.000
26	0.000	0.827	0.000	0.000
27	0.021	0.858	0.133	0.475
28	0.043	0.781	0.317	0.532
29	0.000	1.000	0.000	0.000
30	0.000	1.000	0.000	0.000
31	0.000	1.000	0.000	0.000
32	0.000	1.000	0.000	0.000
33	0.407	0.593	0.000	0.000
34	0.000	1.000	0.000	0.000
35	0.024	0.976	0.350	0.550
36	0.000	0.683	0.050	0.800
37	0.231	0.769	0.000	0.000
38	0.000	0.798	0.179	0.525
39	0.000	0.571	0.800	0.900

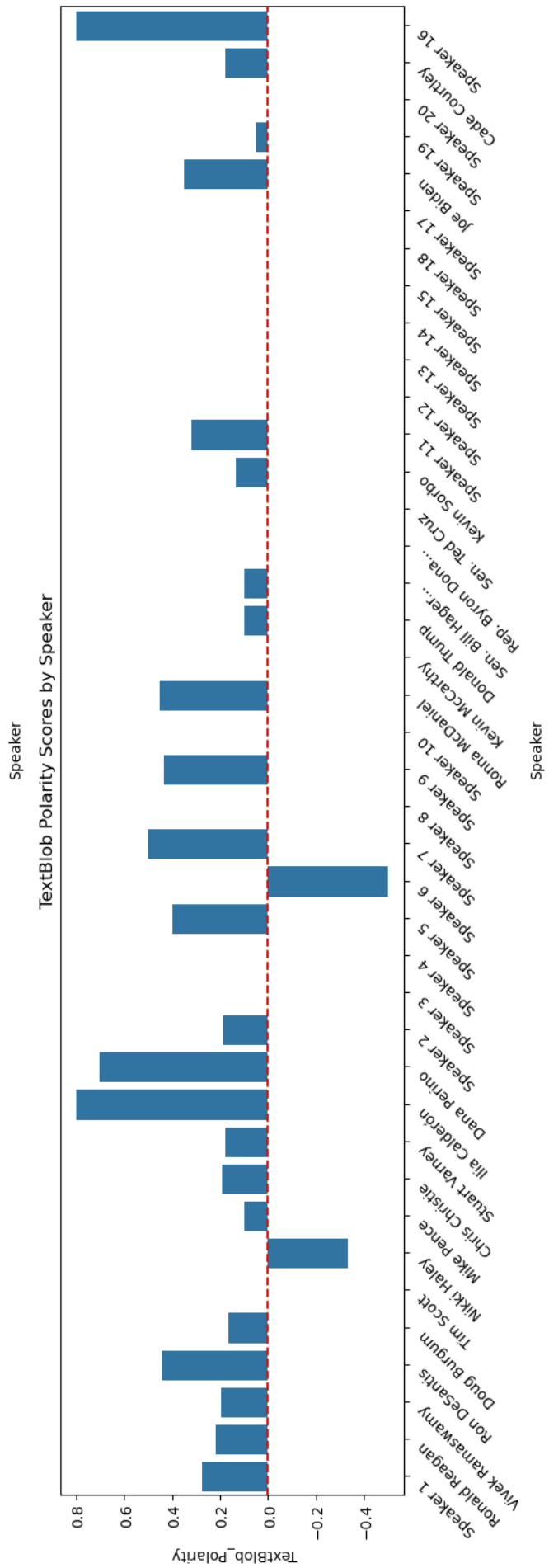
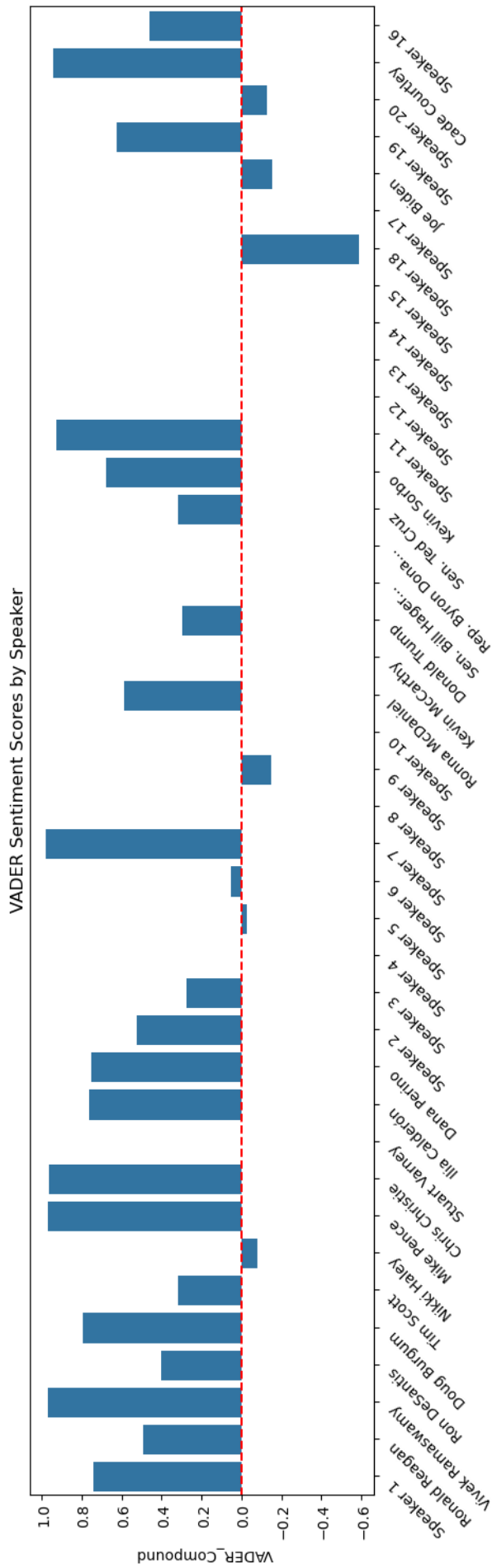


Figure 12. VADER Sentiment Scores Gop 2

**Table 6.** GOP 2 Data General Trends and Inferences: Summary Statistics

	Statement_Length	VADER_Compound	VADER_Positive	VADER_Negative
count	40.000	40.000	40.000	40.000
mean	38.300	0.318	0.130	0.051
std	49.983	0.414	0.139	0.106
min	1.000	-0.586	0.000	0.000
25%	6.750	0.000	0.000	0.000
50%	11.500	0.285	0.130	0.000
75%	54.000	0.692	0.203	0.028
max	172.000	0.979	0.452	0.407

	VADER_Neutral	TextBlob_Polarity	TextBlob_Subjectivity
count	40.000	40.000	40.000
mean	0.819	0.161	0.362
std	0.164	0.263	0.322
min	0.460	-0.500	0.000
25%	0.684	0.000	0.000
50%	0.823	0.100	0.443
75%	1.000	0.285	0.554
max	1.000	0.800	1.000

Looking at the 'Detailed Sentiment Analysis Results' table, we can see that speakers' statements are measured using various metrics. For each speaker, values for speech length (Statement\_Length), VADER sentiment analysis scores (Compound, Positive, Negative, Neutral), and TextBlob analysis (Polarity and Subjectivity) have been recorded. This table allows us to evaluate speakers' language both quantitatively and qualitatively. For example, we can see that Doug Burgum delivered the longest speech (172 words), while Vivek Ramaswamy had the highest positive sentiment score (0.971).

The VADER Sentiment Scores graph shows a comparative view of speakers' emotional tones. The vertical axis displays compound sentiment scores ranging from -1 to +1, while the horizontal axis shows the speakers. Through this visualization, we can observe that Mike Pence and Chris Christie used quite positive tones (0.968 and 0.965), while some speakers maintained more neutral or slightly negative tones. The red dashed line indicates the neutral level (0) providing a reference point.

The lower graph shows TextBlob Polarity Scores by Speaker, also ranging from approximately -0.4 to 0.8. TextBlob polarity is another measure of sentiment that helps validate the VADER scores through a different analytical approach. Notable observations from the TextBlob analysis include:

1. Most speakers maintain positive or neutral polarity scores
2. A few speakers show notably high positive polarity (around 0.8), such as Speaker 16
3. Some speakers show negative polarity, with Nikki Haley showing the most negative score (around -0.4)
4. The majority of speakers cluster around moderate positive polarity scores (0.2-0.4)

Finally, the 'Summary Statistics' table presents a numerical summary of the entire analysis. This table shows mean, standard deviation, minimum, maximum, and quartile values. For instance, the average speech length is 38.927 words, the average VADER compound score is 0.317, and the average TextBlob subjectivity value is 0.363. These statistics indicate that the debate generally maintained a moderately positive tone and speakers mostly used objective language.

This comprehensive analysis helps us understand the communication strategies and emotional tones of speakers in the GOP debate. The data shows that most speakers attempted to maintain a professional and balanced tone, though they occasionally resorted to more emotional expressions on certain topics.



### 5.1.6.2. Gop 3 Sentiment Analysis

**Table 7.** Gop 3 Data Detailed Sentiment Analysis Result

	Speaker	Statement_Length	VADER_Compound	VADER_Positive
0	Announcer	126	-0.390	0.063
1	Lester Holt	107	0.986	0.267
2	Kristen Welker	2	0.000	0.000
3	Hugh Hewitt	3	0.361	0.556
4	Gov. Ron DeSant...	186	0.969	0.150
5	Nikki Haley	167	0.946	0.236
6	Vivek Ramaswamy	9	0.000	0.000
7	Gov. Chris Chri...	193	0.973	0.185
8	Sen. Tim Scott	8	0.000	0.000
9	Matthew Brooks	54	-0.899	0.041
10	Kristen	44	0.612	0.109
11	Advertisement 2	76	0.190	0.056
12	Kevin Sorbo	81	0.676	0.121
13	Advertisement 4	44	0.579	0.187
14	Speaker 2	2	0.000	0.000
15	Speaker 3	22	0.226	0.091
16	Advertisement 1	44	0.973	0.393
17	Advertisement 5	47	0.952	0.335
18	Advertisement 6	13	0.900	0.571
19	Speaker 4	2	0.000	0.000
20	Speaker 5	22	0.226	0.091
21	Speaker 6	23	0.772	0.251
22	Speaker 7	7	-0.440	0.000
23	Speaker 8	3	0.000	0.000
24	Speaker 9	7	0.000	0.000
25	Speaker 10	7	0.340	0.286
26	Speaker 11	17	-0.670	0.000
27	Speaker 12	12	-0.077	0.234
28	Speaker 13	13	0.586	0.241
29	Speaker 14	40	0.700	0.139
30	Hallie Jackson	12	0.000	0.000
31	Speaker 15	2	0.000	0.000

**Table 8** Gop 3 TextBlob Polarity and Subjectivity Analysis

	VADER_Negative	VADER_Neutral	TextBlob_Polarity	TextBlob_Subjectivity
0	0.082	0.855	0.133	0.338
1	0.000	0.733	0.300	0.462
2	0.000	1.000	0.000	0.000
3	0.000	0.444	0.000	0.000
4	0.033	0.817	0.238	0.315
5	0.132	0.632	0.273	0.603
6	0.000	1.000	0.000	0.000
7	0.074	0.741	-0.004	0.403
8	0.000	1.000	0.000	0.000
9	0.209	0.750	-0.108	0.212
10	0.000	0.891	0.114	0.414
11	0.071	0.873	0.079	0.392
12	0.021	0.858	0.133	0.475
13	0.079	0.733	0.250	0.502
14	0.000	1.000	0.000	0.000
15	0.000	0.909	0.000	0.550
16	0.000	0.607	0.514	0.618
17	0.000	0.665	0.295	0.598
18	0.000	0.429	0.000	0.000
19	0.000	1.000	0.000	0.000
20	0.000	0.909	0.000	0.550
21	0.000	0.749	0.400	0.900
22	0.326	0.674	0.000	0.000
23	0.000	1.000	0.000	0.000
24	0.000	1.000	0.000	0.000
25	0.000	0.714	0.000	0.067
26	0.268	0.732	-0.317	0.300
27	0.251	0.514	0.500	0.575
28	0.000	0.759	0.800	0.400
29	0.000	0.861	0.562	0.579
30	0.000	1.000	0.000	0.000
31	0.000	1.000	0.000	0.000

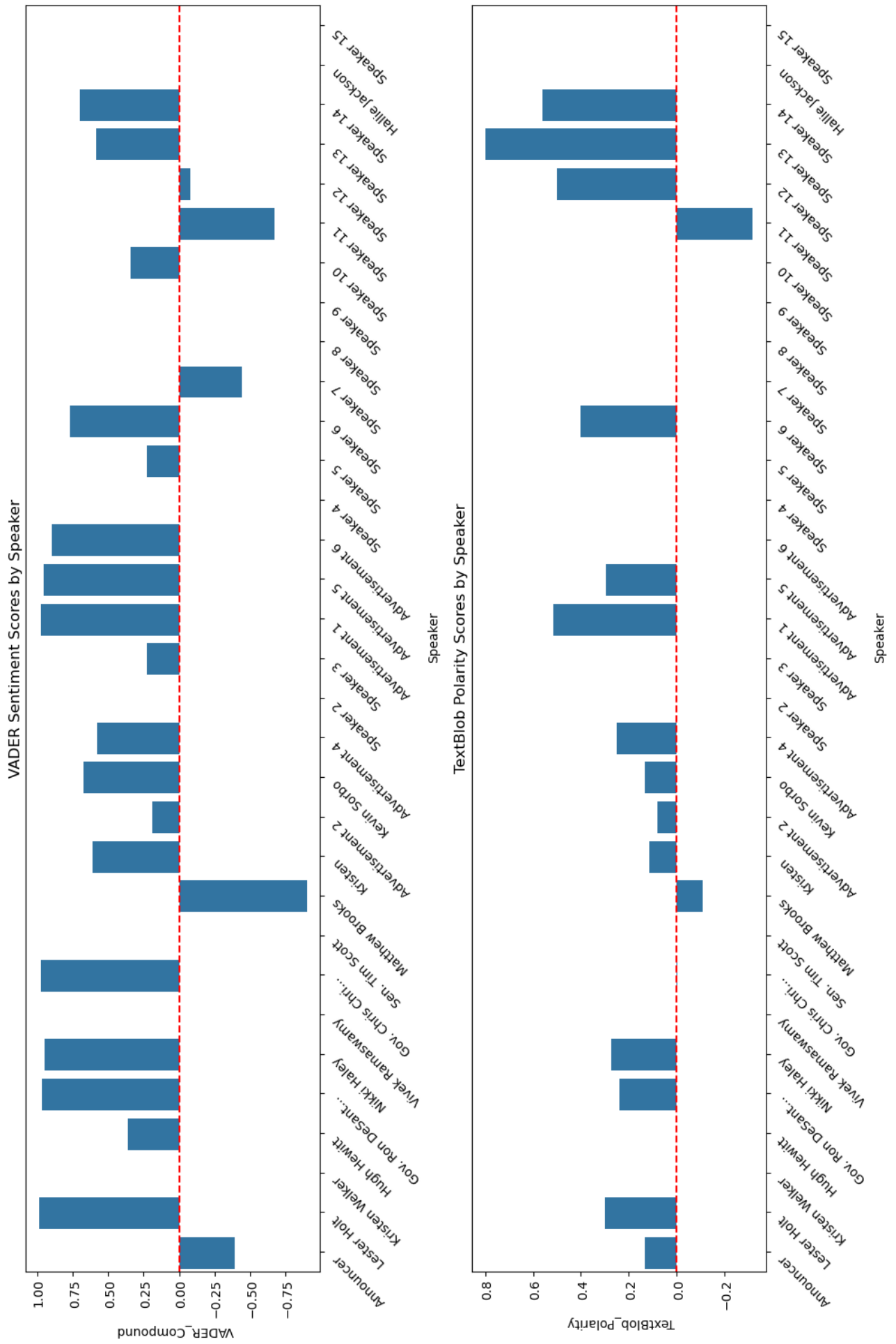


Figure 13. VADER Sentiment Scores Gop 3

**Table 9.** GOP 3 Data General Trends and Inferences: Summary Statistics

	Statement_Length	VADER_Compound	VADER_Positive	VADER_Negative
count	32.000	32.000	32.000	32.000
mean	43.594	0.297	0.144	0.048
std	55.023	0.514	0.159	0.090
min	2.000	-0.899	0.000	0.000
25%	7.000	0.000	0.000	0.000
50%	19.500	0.226	0.100	0.000
75%	48.750	0.718	0.237	0.072
max	193.000	0.986	0.571	0.326

	VADER_Neutral	TextBlob_Polarity	TextBlob_Subjectivity
count	32.000	32.000	32.000
mean	0.808	0.130	0.289
std	0.169	0.229	0.266
min	0.429	-0.317	0.000
25%	0.728	0.000	0.000
50%	0.836	0.000	0.326
75%	1.000	0.256	0.514
max	1.000	0.800	0.900

The 'Detailed Sentiment Analysis Results' table presents a comprehensive analysis of each speaker's statements. Speech lengths (Statement\_Length) vary between 2 and 193 words, indicating that some speakers made very brief statements while others delivered quite lengthy speeches. VADER sentiment analysis scores (ranging from -0.899 to 0.986) and TextBlob analysis results (ranging from -0.317 to 0.800) reveal that speakers' emotional tones were distributed across a wide spectrum. Notably, Lester Holt (0.986) and Gov. Chris Christie (0.973) achieved the highest positive sentiment scores, while Matthew Brooks received the lowest score (-0.899).

The VADER Sentiment Scores graph enables visual comparison of speakers' emotional tones. The y-axis shows compound sentiment scores ranging from -1 to +1, while the x-axis lists the speakers. This visualization demonstrates that most speakers maintained a positive tone, though some speakers (such as the Announcer and Matthew Brooks) adopted a more negative tone. The red dashed line indicates the neutral level (0), helping us better understand the distribution of tones.

The TextBlob Polarity Scores graph shows the emotional tone of different speakers' statements during the debate, with values ranging from -0.4 to 0.8 on the y-axis. Speaker 14 demonstrates the highest positive polarity score at approximately 0.8, followed by Speaker 15 and Speaker 13, both showing considerable positive sentiment above 0.5. Most speakers maintain moderate positive polarity scores between 0.2 and 0.4, including notable figures like Lester Holt, Gov. Ron DeSantis, and Nikki Haley. However, some speakers exhibit negative polarity, with Speaker 12 showing the most negative score at around -0.3. The red dashed line at 0.0 serves as a neutral reference point, helping to clearly distinguish between positive and negative sentiment expressions. This visualization effectively captures the varying degrees of emotional content in each speaker's discourse during the debate.

The 'Summary Statistics' table presents basic statistical measures for all analysis variables. The average speech length is 43.594 words, the average VADER compound score is 0.297, and the average TextBlob polarity is 0.130. Standard deviation values (for example, 55.023 for Statement\_Length) indicate significant variation among speakers. These statistics prove that while the debate generally maintained a moderately positive tone, there were significant differences among speakers.

This comprehensive analysis enables us to deeply understand the communication strategies and emotional tones of speakers in the GOP debate. The data shows that while most speakers attempted to maintain a professional and balanced tone, they sometimes employed more emotional or sharp expressions on certain topics.

### 5.1.6.3. GOP 4 Sentiment Analysis

**Table 10.** GOP 4 Data Detailed Sentiment Analysis Result

	Speaker	Statement_Length	VADER_Compound	VADER_Positive
0	Megyn Kelly	8	0.700	0.492
1	Eliana Johnsons	3	0.361	0.556
2	Elizabeth Varga...	5	0.361	0.385
3	Ron DeSantis	6	0.751	0.712
4	Nikki Haley	3	0.000	0.000
5	Vivek Ramaswamy	10	-0.024	0.191
6	Chris Christie	5	0.440	0.420
7	Speaker 2	54	0.762	0.095
8	Speaker 1	13	0.586	0.241
9	Speaker 3	76	0.190	0.056
10	Speaker 4	72	0.936	0.251
11	Kevin Sorbo	81	0.676	0.121
12	Speaker 5	32	0.000	0.000
13	Speaker 6	51	0.966	0.353
14	Speaker 7	4	0.000	0.000
15	Speaker 8	45	0.000	0.000
16	Speaker 9	16	0.402	0.153
17	Speaker 10	34	0.735	0.167
18	Ronna McDaniel	13	-0.459	0.000
19	Elise Stefanik	30	0.511	0.105
20	Kevin McCarthy	15	0.000	0.000
21	Brian Mast	12	0.572	0.320
22	Madison Gesiott...	17	0.296	0.121
23	Donald Trump	39	-0.964	0.035
24	Tom Fitton	50	0.802	0.151
25	My wife, [inaudible 01	97	0.450	0.082
26	Speaker 11	63	0.836	0.175

**Table 11** Gop 4 TextBlob Polarity and Subjectivity Analysis

	VADER_Negative	VADER_Neutral	TextBlob_Polarity	TextBlob_Subjectivity
0	0.000	0.508	0.200	0.200
1	0.000	0.444	0.000	0.000
2	0.000	0.615	0.000	0.000
3	0.000	0.288	0.000	0.000
4	0.000	1.000	0.000	0.000
5	0.198	0.611	0.250	0.650
6	0.000	0.580	0.700	0.600
7	0.000	0.905	0.400	0.512
8	0.000	0.759	0.800	0.400
9	0.071	0.873	0.079	0.392
10	0.085	0.664	0.182	0.217
11	0.021	0.858	0.133	0.475
12	0.000	1.000	-0.125	0.125
13	0.000	0.647	0.246	0.545
14	0.000	1.000	0.000	0.000
15	0.000	1.000	0.183	0.344
16	0.000	0.847	0.167	0.333
17	0.000	0.833	0.700	0.825
18	0.200	0.800	0.000	0.000
19	0.000	0.895	0.050	0.650
20	0.000	1.000	0.000	0.067
21	0.000	0.680	0.450	0.744
22	0.000	0.879	0.100	0.300
23	0.419	0.546	-0.600	0.900
24	0.000	0.849	0.500	0.500
25	0.043	0.875	0.018	0.498
26	0.000	0.825	0.371	0.500

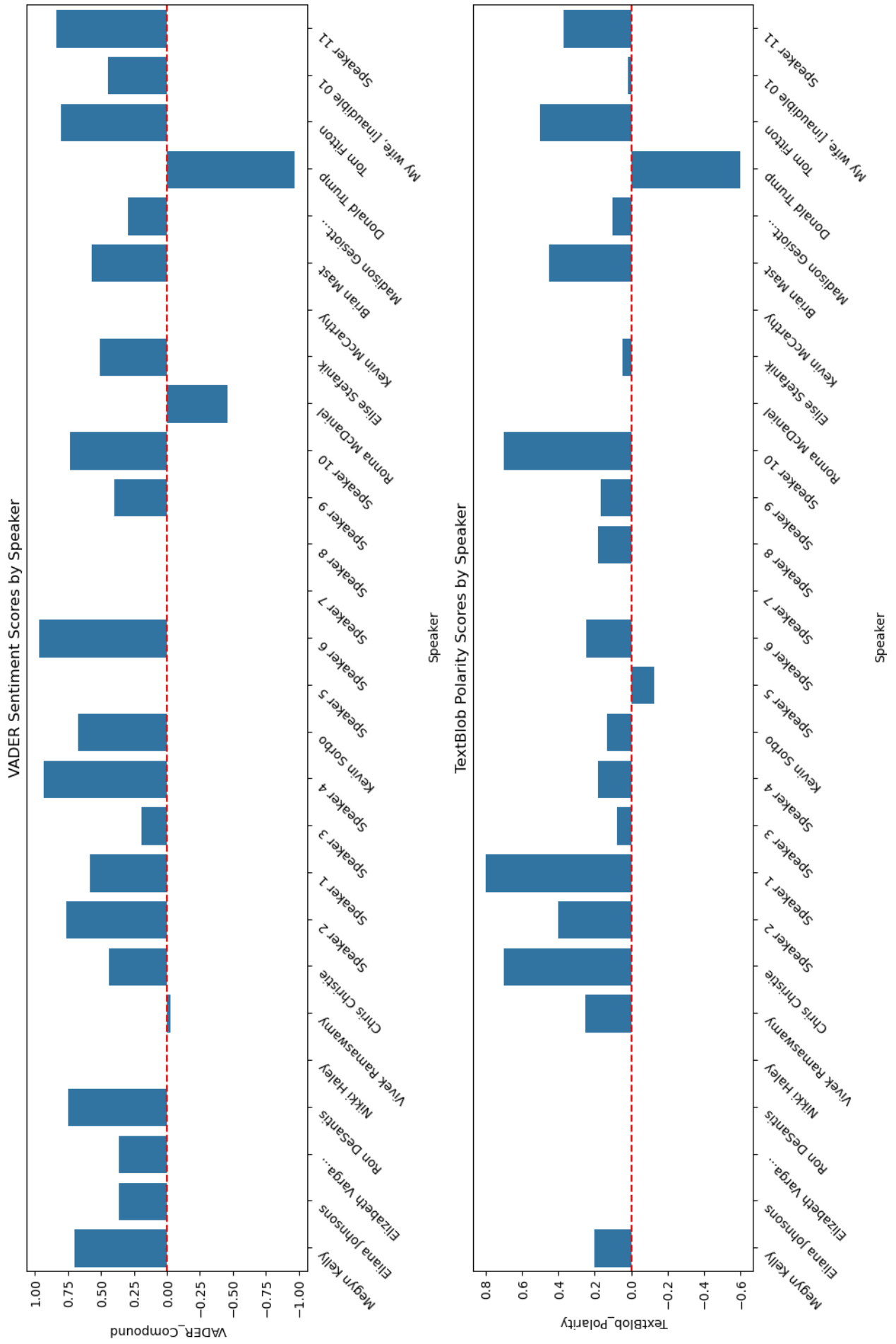


Figure 14. VADER Sentiment Scores Gop 4

**Table 12.** GOP 4 Data General Trends and Inferences: Summary Statistics

	Statement_Length	VADER_Compound	VADER_Positive	VADER_Negative
count	27.000	27.000	27.000	27.000
mean	31.630	0.366	0.192	0.038
std	27.781	0.446	0.190	0.094
min	3.000	-0.964	0.000	0.000
25%	9.000	0.000	0.046	0.000
50%	17.000	0.440	0.151	0.000
75%	50.500	0.718	0.286	0.010
max	97.000	0.966	0.712	0.419

	VADER_Neutral	TextBlob_Polarity	TextBlob_Subjectivity
count	27.000	27.000	27.000
mean	0.770	0.178	0.362
std	0.190	0.290	0.276
min	0.288	-0.600	0.000
25%	0.631	0.000	0.096
50%	0.833	0.133	0.392
75%	0.887	0.311	0.529
max	1.000	0.800	0.900

This analysis allows us to evaluate speakers' emotional tones and expression styles from different perspectives.

The 'Detailed Sentiment Analysis Results' table presents a comprehensive analysis of each speaker's statements. Statement lengths vary between 3 and 97 words, indicating that some participants made very brief statements while others delivered quite lengthy speeches. VADER sentiment analysis scores range from -0.964 (Donald Trump) to 0.966 (Speaker 6), with positive tone ratios ranging between 0.000 and 0.712. This data reveals that speakers' emotional tones were distributed across a wide spectrum.

The VADER Sentiment Scores graph enables visual comparison of speakers' emotional tones. The vertical axis shows compound sentiment scores ranging from -1 to +1, while the horizontal axis lists the speakers. This visualization shows that most speakers maintained a positive tone, though notably Donald Trump (-0.964) and Ronna McDaniel (-0.459) spoke in distinctly negative tones. Ron DeSantis (0.751), Speaker 6 (0.966), and Speaker 4 (0.936) stand out as the speakers with the most positive tones.

The TextBlob analysis graph and scatter plot examine both the polarity and subjectivity of speakers' discourse. This analysis shows that Speaker 10 and Brian Mast achieved high subjectivity scores. Donald Trump's speech has one of the lowest polarity (-0.600) but highest subjectivity (0.900) scores, indicating emotional and personal language use. Speakers like Chris Christie and Speaker 1 achieved a balanced tone with higher polarity and moderate subjectivity scores.

The Summary Statistics table presents basic statistical measures for all analysis variables. The average speech length is 31.630 words, the average VADER compound score is 0.366, and the average TextBlob polarity is 0.178. Standard deviation values (for example, 27.781 for Statement\_Length) indicate significant variations among speakers. These statistics prove that while the debate generally maintained a moderately positive tone, there were notable differences in tone and style among speakers. The average VADER\_Neutral score of 0.770 indicates that speakers mostly attempted to use neutral language.



#### 5.1.6.4. GOP 5 Sentiment Analysis

**Table 13.** GOP 5 Data Detailed Sentiment Analysis Result

	Speaker	Statement_Length	VADER_Compound	VADER_Positive
0	Jake Tapper	90	0.923	0.154
1	Speaker 1	4	0.000	0.000
2	Dana Bash	2	0.000	0.000
3	Ron DeSantis	239	0.991	0.177
4	Nikki Haley	267	0.828	0.119
5	Speaker 2	1	0.000	0.000

**Table 14.** Gop 5 TextBlob Polarity and Subjectivity Analysis

	VADER_Negative	VADER_Neutral	TextBlob_Polarity	TextBlob_Subjectivity
0	0.000	0.846	0.286	0.391
1	0.000	1.000	0.000	0.000
2	0.000	1.000	0.000	0.000
3	0.011	0.812	0.256	0.464
4	0.078	0.802	0.292	0.454
5	0.000	1.000	0.000	0.000

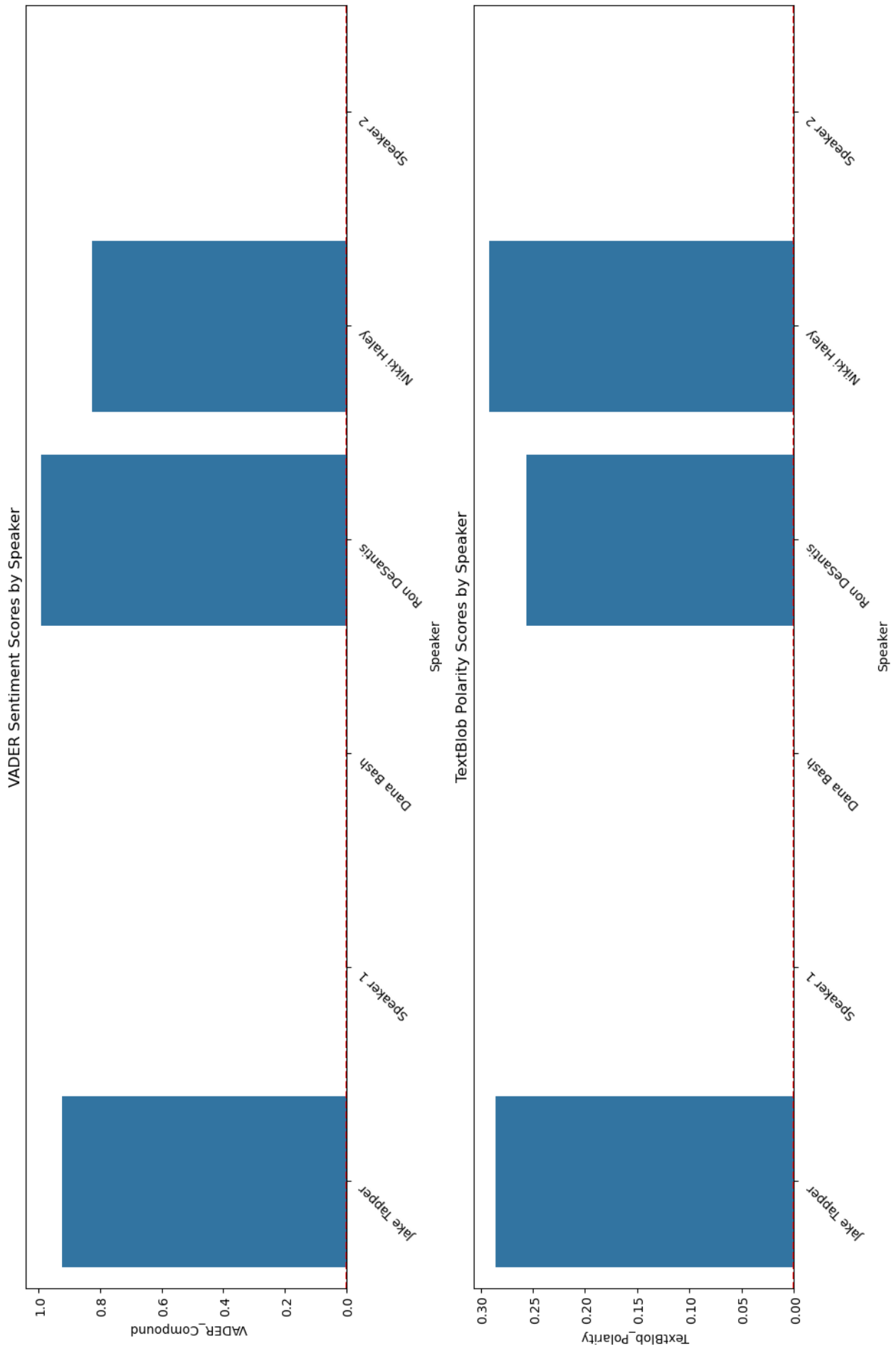


Figure 15. VADER Sentiment Scores Gop 5

**Table 15.** GOP 5 Data General Trends and Inferences: Summary Statistics

	Statement_Length	VADER_Compound	VADER_Positive	VADER_Negative
count	6.000	6.000	6.000	6.000
mean	100.500	0.457	0.075	0.015
std	123.231	0.503	0.084	0.031
min	1.000	0.000	0.000	0.000
25%	2.500	0.000	0.000	0.000
50%	47.000	0.414	0.060	0.000
75%	201.750	0.899	0.145	0.008
max	267.000	0.991	0.177	0.078

	VADER_Neutral	TextBlob_Polarity	TextBlob_Subjectivity
count	6.000	6.000	6.000
mean	0.910	0.139	0.218
std	0.100	0.153	0.240
min	0.802	0.000	0.000
25%	0.820	0.000	0.000
50%	0.923	0.128	0.195
75%	1.000	0.278	0.438
max	1.000	0.292	0.464

The Detailed Sentiment Analysis table displays the sentiment analysis of speakers (Jake Tapper, Speaker 1, Dana Bash, Ron DeSantis, Nikki Haley, and Speaker 2) in a debate setting. This table presents detailed information for each speaker, including statement length, VADER compound score, positive, negative, and neutral VADER values, as well as TextBlob's polarity and subjectivity scores. For example, Ron DeSantis's 239-word speech showed the highest positive sentiment value with a VADER compound score of 0.991, while Nikki Haley's 267-word speech demonstrated the second-highest positive sentiment value at 0.828.

The VADER Sentiment Scores graph visualizes speakers' emotional tendencies in blue bars. In the graph, the x-axis shows speakers, while the y-axis displays VADER compound scores. Ron DeSantis and Jake Tapper's bars reflect the most positive emotional state with values above 0.9, while Speaker 1, Dana Bash, and Speaker 2's values indicate a neutral emotional state around 0.

The TextBlob Polarity Scores graph shows the degree of polarization in speakers' statements. In this graph, Nikki Haley achieves the highest score with a polarity value of approximately 0.29, followed by Jake Tapper and Ron DeSantis. Other speakers' polarity values remain close to 0, indicating their statements have a more neutral character.

The Summary Statistics table presents a statistical summary of sentiment analysis metrics for all speakers. For instance, the average statement length is 100.5 words, the average VADER compound score is 0.457, and the average TextBlob polarity value is 0.139. This table also includes important statistical measurements such as minimum, maximum, standard deviation, and quartile values for each metric.

Debate 1		Debate 2		Debate 3		Debate4		Debate 5	
129	president	130	going	141	going	135	going	197	governor
122	bret	91	we're	84	now	100	that's	176	going
115	baier	90	get	80	can	92	desantis	172	haley
101	governor	83	now	78	thank	87	ron	171	desantis
100	people	81	one	76	president	85	ramaswamy	131	ron
94	will	78	people	73	one	84	it's	123	that's
91	martha	78	president	72	it's	83	now	122	nikki
82	going	78	will	72	that's	81	nikki	105	need
77	maccallum	76	governor	72	will	81	think	99	it's
77	pence	75	dana	70	country	77	haley	96	think

70	country	73	ramaswamy	69	people	75	said	90	people
69	states	72	it's	69	ramaswamy	74	will	87	country
68	can	69	country	68	get	73	christie	81	we're
68	it's	66	perino	68	right	73	one	77	jake
67	we're	65	that's	65	need	72	people	77	said
66	mike	64	vivek	65	we're	70	get	77	tapper
66	ramaswamy	63	back	63	just	66	can	69	want
64	get	62	can	61	i'm	66	vivek	68	one
64	now	62	desantis	60	haley	63	say	68	president
62	i'm	61	need	57	make	63	we're	64	don't
62	just	58	scott	56	china	62	chris	64	get
59	right	57	haley	55	lester	60	thank	63	bash
59	vivek	56	i'm	54	governor	58	governor	63	dana
57	need	55	america	51	don't	58	just	62	thank
56	american	55	just	51	kristen	58	president	61	now
56	desantis	54	speaker	50	back	57	don't	60	state
56	one	54	want	50	scott	56	megyn	59	can
55	that's	53	right	50	sure	55	country	54	just
52	want	53	think	50	think	55	need	53	got
46	united	53	tim	49	first	52	kelly	53	will
45	america	52	states	49	know	49	like	48	china
44	christie	51	china	46	holt	49	want	48	florida
44	gold	51	make	46	nikki	48	elizabeth	48	trump
44	well	49	got	43	say	48	i'm	47	i'm
42	china	49	nikki	42	america	47	trump	47	right
42	say	48	stuart	42	desantis	47	vargas	45	they're
42	think	47	say	42	like	46	got	44	states
40	back	46	state	42	states	46	right	44	way
40	biden	45	americans	41	vivek	45	back	42	back
40	got	45	every	38	border	44	first	42	iowa
39	speaker	45	well	38	gov	44	look	42	you're
38	vice	42	ron	38	military	44	time	41	say
36	border	41	ilia	38	want	41	know	40	things
36	make	41	like	37	american	40	you're	39	make
36	years	41	varney	37	hugh	39	china	38	can't
35	issue	40	american	37	they're	39	every	37	know
35	like	40	government	36	republican	38	way	37	look
35	question	38	border	36	ron	37	even	37	we've
34	every	38	first	36	said	36	government	36	lot
34	haley	38	gold	35	let	36	take	35	first
34	know	38	inaudible	35	let's	33	american	35	well
34	let	38	said	35	senator	33	biden	34	every
34	look	38	we've	35	united	33	gold	34	never
34	time	37	biden	34	actually	33	let	34	south
34	you're	37	time	34	way	33	make	33	put
33	education	37	years	33	americans	32	actually	33	tax
33	hold	35	calderón	33	biden	32	see	32	also

33	ron	35	look	33	take	31	thing	32	take
33	said	34	burgum	32	christie	31	years	31	carolina
32	americans	34	free	32	last	30	issue	31	donald
32	don't	34	law	32	tell	29	donald	31	thing
32	free	33	pence	31	ambassador	28	he's	30	fact
32	scott	33	question	31	every	28	inaudible	30	tell
32	state	33	they're	31	tim	27	debate	29	didn't
31	we've	33	united	31	ukraine	27	eliana	29	kids
30	chris	33	you're	30	israel	27	new	28	done
30	first	31	done	30	time	26	americans	28	he's
29	thank	31	let	30	well	26	help	28	like
29	thing	31	take	29	hewitt	26	i'll	28	school
28	government	30	christie	29	security	26	johnsons	28	she's
28	way	30	reagan	28	even	25	put	28	time
27	law	30	way	28	i'll	24	also	28	united
26	change	29	actually	28	years	24	next	28	years
26	done	29	day	27	iran	24	something	27	i've
26	nikki	29	know	27	we'll	24	speaker	26	day
26	stage	29	sure	26	social	24	states	26	money
25	bring	28	debate	26	state	23	come	26	saying
25	burgum	28	don't	26	thing	23	florida	24	able
25	new	28	energy	25	debate	23	free	24	biden
25	republican	28	federal	25	sen	23	good	24	debate
25	trump	28	tax	25	work	23	they're	24	education
24	actually	26	i'll	25	you're	23	we've	24	israel
24	inaudible	26	stage	24	got	22	answer	24	security
23	can't	25	doug	23	look	22	day	24	sure
23	lot	25	let's	23	much	22	money	23	law
23	put	25	new	23	new	22	text	23	made
23	take	24	fact	23	number	22	there's	22	american
23	ukraine	24	republican	22	help	21	america	22	problem
22	also	24	work	22	start	21	fact	22	support
22	answer	23	business	22	tax	21	question	22	talk
22	economy	23	economy	22	two	21	state	21	doesn't
22	tim	23	even	22	war	21	tax	21	much
21	sure	23	joe	22	world	20	ambassador	21	see
21	tell	23	next	21	can't	20	didn't	21	ukraine
21	tonight	23	talk	21	day	20	today	20	even
20	better	23	thank	21	deal	20	united	20	health
20	birch	22	florida	21	energy	19	able	20	important
20	federal	22	job	21	florida	19	coming	20	let
20	give	22	parents	21	national	19	foreign	20	life
20	national	22	things	21	stop	19	things	20	mean
20	protect	21	i've	21	we've	19	work	20	mental
19	administration	21	last	20	also	18	done	20	republican
19	constitution	21	put	20	fact	18	here's	20	running
19	i'll	21	there's	20	question	18	important	20	war

19	life	21	two	20	trump	18	somebody	20	we'll
19	nation	21	world	19	come	18	tell	19	constitution
19	next	20	answer	19	done	18	you've	19	debt
19	spending	20	good	19	good	17	border	19	good
19	support	20	party	19	home	17	comes	19	government
19	there's	20	school	19	life	17	iran	19	number
19	they're	20	see	19	next	17	israel	18	americans
18	day	20	tell	19	prices	17	life	18	federal
18	debate	20	trump	19	tiktok	17	send	18	issues
18	house	19	also	18	able	17	spending	18	pay
18	hutchinson	19	lot	18	age	17	stage	18	social
18	i've	19	mike	18	hamas	17	stop	18	you've
18	kids	19	million	18	important	17	sure	17	always
18	let's	19	national	18	money	17	talking	17	america
18	part	19	spending	18	put	17	well	17	around
17	made	18	ever	18	support	16	absolutely	17	bring
17	see	18	north	18	talk	16	election	17	campaign
17	stop	18	plan	18	today	16	federal	17	come
17	talk	18	questions	18	turn	16	fight	17	coming
17	text	18	we'll	17	chris	16	hamas	17	deal
17	things	17	can't	17	former	16	medical	17	issue
17	two	17	come	17	issue	16	problem	17	national
17	war	17	donald	17	party	16	support	17	raise
17	work	17	protect	17	spending	15	attack	17	says
16	abortion	17	second	17	stand	15	away	17	wrong
16	another	17	something	17	voters	15	chinese	16	age
16	ban	17	tonight	17	without	15	doesn't	16	choice
16	best	16	administration	16	candidates	15	emergency	16	cnn
16	hand	16	big	16	debt	15	hold	16	million
16	info	16	birch	16	federal	15	joe	16	new
16	ira	16	chris	16	fentanyl	15	last	16	start
16	kit	16	education	16	give	15	lot	16	stop
16	number	16	healthcare	16	jewish	15	military	16	there's
16	seconds	16	jobs	16	making	15	policy	16	work
16	something	16	send	16	news	15	protect	15	best
16	taking	16	text	16	see	15	stand	15	border
16	without	16	thing	16	use	15	start	15	desantislies.com
15	believe	16	today	15	answer	15	taiwan	15	dollars
15	coming	16	vice	15	ban	15	true	15	end
15	crisis	16	win	15	chinese	14	change	15	everything
15	human	15	believe	15	economy	14	decisions	15	give
15	last	15	congress	15	plan	14	fentanyl	15	left
15	never	15	dakota	15	something	14	give	15	really
15	school	15	give	15	speaker	14	greenspan	15	something
15	southern	15	help	15	text	14	law	15	wall
15	yes	15	money	15	things	14	much	14	anything
14	cut	15	number	15	three	14	parents	14	build

14	different	15	power	14	billion	14	south	14	change
14	donald	15	really	14	college	14	still	14	inaudible
14	election	15	ronald	14	different	14	three	14	last
14	ever	15	stop	14	economic	14	win	14	let's
14	fact	15	three	14	free	14	wrong	14	speaker
14	fight	15	year	14	made	13	anything	14	turn
14	florida	14	bring	14	protect	13	birch	14	wooo
14	future	14	choice	14	reason	13	including	14	world
14	here's	14	debt	14	republicans	13	kids	13	benefits
14	military	14	didn't	14	russia	13	left	13	bill
14	okay	14	fentanyl	14	ships	13	national	13	covid
14	senator	14	gas	14	southern	13	never	13	election
14	stand	14	important	14	win	13	nothing	13	former
14	understand	14	issue	14	year	13	party	13	fought
14	win	14	military	13	build	13	republican	13	help
13	business	14	nation	13	gold	13	republicans	13	iran
13	crime	14	part	13	he's	13	respond	13	i'll
13	decline	14	policy	13	inaudible	13	second	13	run
13	department	14	seconds	13	kids	13	southern	13	seniors
13	doug	14	taking	13	many	13	talk	13	video
13	everybody	14	workers	13	middle	13	two	12	cities
13	former	13	billion	13	never	13	ukraine	12	cost
13	important	13	build	13	pro-life	13	whether	12	economy
13	job	13	end	13	resources	13	year	12	fight
13	problem	13	everybody	13	there's	13	yes	12	here's
13	republicans	13	focus	12	care	12	administration	12	illegal
13	russia	13	great	12	focus	12	believe	12	obama
13	we'll	13	he's	12	generation	12	big	12	record
13	who's	13	keep	12	honest	12	bill	12	retirement
13	world	13	kids	12	increase	12	can't	12	rev
12	address	13	leader	12	lot	12	deal	12	second
12	agree	13	problem	12	media	12	else	12	two
12	around	13	real	12	pay	12	fit	12	voicehub
12	asked	13	still	12	presidential	12	justice	12	wants
12	democrats	13	taxes	12	rev	12	made	11	better
12	difference	13	voters	12	second	12	name	11	business
12	energy	13	yes	12	tonight	12	needs	11	comes
12	fentanyl	12	able	12	voicehub	12	race	11	energy
12	freedom	12	better	12	yes	12	rev	11	happen
12	funding	12	crime	11	across	12	savings	11	less
12	hands	12	here's	11	advertisement	12	saying	11	military
12	help	12	info	11	ago	12	someone	11	needs
12	home	12	ira	11	better	12	voicehub	11	office
12	joe	12	kit	11	campuses	12	wants	11	productivity
12	justice	12	much	11	change	12	went	11	putting
12	leader	12	productivity	11	dollars	11	across	11	republicans
12	moving	12	rev	11	here's	11	former	11	response

12	party	12	senator	11	issues	11	job	11	strong
12	rev	12	union	11	mean	11	kevin	11	taxes
12	savings	12	voicehub	11	nation	11	kit	11	three
12	second	11	ask	11	open	11	legal	11	times
12	strong	11	care	11	productivity	11	media	11	took
12	talking	11	excuse	11	retirement	11	okay	11	transcription
12	three	11	issues	11	talked	11	plan	11	university
12	truth	11	level	11	threat	11	productivity	11	what's
12	use	11	library	11	transcription	11	rights	10	actually
12	voicehub	11	may	11	wars	11	safe	10	big
12	you've	11	means	11	what's	11	speech	10	care
11	across	11	needs	11	you've	11	transcription	10	deliver
11	away	11	order	10	agree	11	truth	10	delivered
11	candidates	11	rights	10	antisemitism	11	use	10	five
11	climate	11	southern	10	believe	11	video	10	four
11	conservative	11	stand	10	call	11	what's	10	gas
11	god	11	start	10	continue	11	who's	10	gave
11	issues	11	talking	10	cut	10	break	10	leadership
11	losing	11	transcription	10	death	10	build	10	lying
11	love	11	understand	10	end	10	came	10	media
11	news	11	washington	10	foreign	10	clear	10	parents
11	office	11	what's	10	forward	10	company	10	point
11	power	11	who's	10	human	10	debt	10	promised
11	pro-life	11	you've	10	inflation	10	deficit	10	sanctuary
11	productivity	10	action	10	iraq	10	diversify	10	supported
11	somebody	10	address	10	keep	10	everybody	10	talking
11	start	10	best	10	lost	10	family	10	trying
11	still	10	bill	10	matter	10	girls	10	who's
11	today	10	change	10	means	10	great	10	without
11	took	10	cities	10	mexico	10	guys	9	accountable
11	transcription	10	companies	10	please	10	happened	9	administration
11	turn	10	four	10	south	10	idea	9	agree
10	asa	10	history	10	stage	10	info	9	another
10	billion	10	less	10	strong	10	i've	9	beat
10	care	10	never	10	students	10	let's	9	captions
10	come	10	news	10	supply	10	network	9	clarification
10	court	10	office	10	talking	10	person	9	course
10	debt	10	please	10	u.s	10	process	9	enough
10	forward	10	presidential	10	using	10	simply	9	folks
10	heck	10	safe	9	absolutely	10	sorbo	9	getting
10	leadership	10	savings	9	already	10	system	9	goes
10	means	10	saying	9	captions	10	told	9	healthcare
10	needs	10	since	9	coming	10	troops	9	inflation
10	raise	10	south	9	didn't	10	trust	9	keep
10	saying	10	they've	9	everybody	10	usa	9	leader
10	schools	10	times	9	family	10	vote	9	live
10	thought	10	ukraine	9	great	10	wall	9	making



10	vote	10	war	9	hard	10	wealth	9	many
10	women	10	without	9	hear	10	whatever	9	middle
10	wrong	10	wrong	9	house	10	willing	9	move
9	able	9	amendment	9	i'd	10	world	9	nations
9	brett	9	away	9	i've	9	ahead	9	presidential
9	captions	9	captions	9	job	9	assets	9	private
9	children	9	carolina	9	joe	9	bank	9	promise
9	choice	9	choose	9	land	9	call	9	raised
9	cities	9	cut	9	law	9	captions	9	reason
9	congress	9	deal	9	move	9	care	9	schools
9	control	9	decline	9	nbc	9	department	9	single
9	covid	9	different	9	network	9	donors	9	spending
9	faith	9	economic	9	part	9	fed	9	they've
9	good	9	enforcement	9	policy	9	finish	8	ask
9	greatest	9	follow	9	really	9	home	8	believe
9	helped	9	getting	9	remember	9	inflation	8	billion
9	increase	9	home	9	respond	9	less	8	budget
9	january	9	immigration	9	specifically	9	little	8	businesses
9	jersey	9	laws	9	taxes	9	many	8	came
9	left	9	leading	9	trillion	9	mean	8	chinese
9	listen	9	legal	9	understand	9	means	8	congress
9	looking	9	made	9	weigh	9	million	8	crime
9	man	9	media	8	abortion	9	news	8	cutting
9	mean	9	mexico	8	accountability	9	part	8	disney
9	mexico	9	moving	8	allow	9	politics	8	drake
9	moment	9	paid	8	audience	9	really	8	eliminate
9	money	9	prices	8	become	8	act	8	expectancy
9	north	9	professor	8	big	8	billion	8	friends
9	physical	9	republicans	8	crisis	8	board	8	great
9	pressure	9	resources	8	data	8	buy	8	hold
9	race	9	respect	8	doesn't	8	carolina	8	house
9	send	9	schools	8	everything	8	congress	8	human
9	sit	9	thought	8	faith	8	disagree	8	january
9	stood	9	tiktok	8	funding	8	doctors	8	job
9	thousands	9	trust	8	getting	8	economy	8	land
9	together	9	trusted	8	half	8	eight	8	lies
9	washington	9	turn	8	higher	8	experience	8	news
9	white	8	agenda	8	kevin	8	far	8	order
9	word	8	break	8	lead	8	gender	8	passed
9	you'll	8	candidates	8	leadership	8	health	8	policy
8	action	8	childcare	8	left	8	history	8	pro-life
8	ago	8	chinese	8	limit	8	intelligence	8	protect
8	break	8	coming	8	live	8	iowa	8	reading
8	concerned	8	company	8	old	8	issues	8	russia
8	dc's	8	control	8	path	8	keep	8	saw
8	deal	8	doesn't	8	primary	8	meeting	8	send
8	didn't	8	generator	8	program	8	primary	8	stay

8	doesn't	8	group	8	quickly	8	rates	8	telling
8	end	8	happen	8	responsibility	8	reagan	8	top
8	even	8	helped	8	rights	8	real	8	true
8	existing	8	illegal	8	save	8	rest	8	trust
8	family	8	income	8	sign	8	rumble	8	try
8	fire	8	line	8	sorbo	8	seconds	8	understand
8	focus	8	live	8	speak	8	shouldn't	8	use
8	group	8	long	8	story	8	signed	8	voters
8	hard-earned	8	message	8	taiwan	8	sit	8	wasn't
8	inflation	8	mexican	8	together	8	social	7	accessible
8	many	8	open	8	true	8	stay	7	across
8	million	8	partner	8	usa	8	terrorist	7	ago
8	old	8	pass	8	video	8	they've	7	allow
8	order	8	pay	8	week	8	tonight	7	ambassador
8	parents	8	person	8	whether	8	voters	7	away
8	political	8	personal	8	white	8	we'll	7	companies
8	presidential	8	russia	8	who's	8	without	7	criticized
8	real	8	security	8	wouldn't	7	30:12:00	7	cut
8	reality	8	senate	7	15-week	7	access	7	decisions
8	really	8	single	7	accessible	7	account	7	ever
8	reckless	8	solar	7	america's	7	ago	7	families
8	respect	8	trillion	7	another	7	anybody	7	farmers
8	respond	8	try	7	around	7	ask	7	floor
8	retirement	8	use	7	ask	7	boost	7	focus
8	rumble	8	video	7	base	7	business	7	friend
8	scare	8	vote	7	best	7	campaign	7	front
8	security	8	wall	7	bring	7	cause	7	girls
8	signed	8	won't	7	carolina	7	chance	7	happened
8	smart	8	youtube	7	cartels	7	corporate	7	high
8	top	7	across	7	case	7	countries	7	history
8	trillion	7	agree	7	cause	7	covid	7	home
8	year	7	ahead	7	center	7	economic	7	immigration
7	absolutely	7	allow	7	closing	7	felonies	7	instead
7	allow	7	banned	7	congress	7	four	7	iowans
7	arkansas	7	budget	7	defend	7	fourth	7	legal
7	ask	7	built	7	east	7	gave	7	living
7	big	7	cartels	7	election	7	generation	7	mandate
7	biggest	7	chief	7	eliminate	7	gop	7	medicaid
7	brought	7	children	7	enough	7	group	7	meeting
7	campaign	7	clear	7	fight	7	hand	7	paid
7	course	7	committee	7	forget	7	human	7	particularly
7	democratic	7	concerned	7	friends	7	identity	7	party
7	dream	7	content	7	hand	7	killed	7	paying
7	enforcement	7	court	7	idea	7	knows	7	policies
7	face	7	department	7	jersey	7	later	7	power
7	food	7	details	7	jobs	7	matter	7	proud
7	four	7	earth	7	legal	7	may	7	rate

7	gas	7	else	7	looking	7	millions	7	resources
7	happy	7	everything	7	meeting	7	minute	7	seconds
7	head	7	experience	7	message	7	missed	7	shouldn't
7	honest	7	families	7	million	7	office	7	someone
7	israel	7	fight	7	minister	7	old	7	teacher's
7	jobs	7	fire	7	minute	7	pay	7	trade
7	legal	7	foreign	7	month	7	policies	7	trump's
7	less	7	forget	7	navy	7	polls	7	turned
7	low	7	former	7	needs	7	provinces	7	veterans
7	majority	7	funding	7	nominee	7	quickly	7	view
7	mental	7	future	7	nuclear	7	russia	7	went
7	middle	7	house	7	opportunity	7	security	7	whether
7	move	7	inflation	7	order	7	service	7	women
7	much	7	information	7	overdose	7	speak	6	17:12
7	must	7	intelligence	7	parents	7	standard	6	6th
7	opportunity	7	kevin	7	ports	7	stood	6	become
7	person	7	life	7	prime	7	taxes	6	biden's
7	policy	7	losing	7	problem	7	terrorists	6	billions
7	putin	7	lost	7	questions	7	though	6	blog
7	rating	7	love	7	raise	7	trusted	6	boys
7	reagan	7	network	7	rnc	7	yet	6	call
7	record	7	nobody	7	send	6	01:58:14	6	called
7	side	7	okay	7	situation	6	401(k	6	candidate
7	spend	7	old	7	strategy	6	accessible	6	children
7	terms	7	paying	7	technology	6	afraid	6	choose
7	video	7	pennsylvania	7	terrorist	6	alan	6	court
7	voters	7	point	7	terrorists	6	allow	6	details
7	whether	7	reaching	7	third	6	always	6	different
7	working	7	reckless	7	working	6	anyone	6	drugs
6	32:44:00	7	respond	7	wrong	6	asked	6	economic
6	accessible	7	run	6	act	6	authority	6	else
6	agenda	7	slavery	6	administration	6	bathroom	6	everybody
6	asking	7	standing	6	ahead	6	beat	6	explore
6	authority	7	students	6	appreciate	6	best	6	fatigue
6	beat	7	system	6	attacks	6	blog	6	forget
6	blog	7	teachers	6	away	6	boeing	6	gone
6	blue	7	technology	6	bank	6	boys	6	green
6	bought	7	truth	6	banned	6	bring	6	hamas
6	buy	7	university	6	based	6	careful	6	handle
6	called	7	voted	6	bill	6	climate	6	happening
6	center	7	wages	6	birch	6	confiscation	6	highest
6	clear	7	white	6	blog	6	contains	6	ignite
6	customers	6	01:57:16	6	boost	6	dangerous	6	insights
6	dakota	6	4patriots.com	6	business	6	depend	6	insurance
6	details	6	accessible	6	buying	6	details	6	joe
6	eight	6	act	6	called	6	die	6	level
6	everyone	6	another	6	came	6	essentially	6	limit

6	experience	6	asked	6	candidate	6	everything	6	looking
6	explore	6	biden's	6	cellular	6	exactly	6	massive
6	fatigue	6	blog	6	ceo	6	explore	6	missed
6	finish	6	blue	6	consumer	6	false	6	next
6	force	6	brought	6	content	6	fatigue	6	political
6	forget	6	california	6	cost	6	forget	6	polls
6	fox	6	came	6	countries	6	freedom	6	question
6	friends	6	center	6	customer	6	given	6	reduce
6	generation	6	chance	6	details	6	haley's	6	research
6	global	6	citizens	6	donald	6	happen	6	results
6	great	6	citizenship	6	entry	6	happening	6	seen
6	high	6	commander	6	explore	6	hard	6	services
6	hope	6	community	6	families	6	healthcare	6	small
6	ignite	6	conservative	6	fatigue	6	hell	6	spent
6	innovation	6	constitution	6	feel	6	helped	6	stage
6	insights	6	decisions	6	five	6	ignite	6	stood
6	killing	6	disagree	6	force	6	illegally	6	strikes
6	led	6	election	6	frankly	6	immigration	6	stuff
6	level	6	enough	6	gas	6	insidious	6	tasks
6	live	6	especially	6	government	6	insights	6	teachers
6	major	6	existing	6	hands	6	ira	6	tedious
6	may	6	explore	6	happened	6	iraq	6	terrible
6	media	6	family	6	happening	6	irs	6	thinks
6	meeting	6	fatigue	6	heard	6	isn't	6	told
6	milwaukee	6	finish	6	hold	6	knowing	6	transcripts
6	missed	6	fix	6	ignite	6	leader	6	trillion
6	nuclear	6	fracking	6	income	6	leaders	6	voted
6	paid	6	green	6	independent	6	man	6	wanted
6	please	6	hands	6	insights	6	mexico	6	week
6	pledge	6	happy	6	intelligence	6	minors	6	welcome
6	policies	6	hard-earned	6	interest	6	minutes	6	white
6	polls	6	haven't	6	invest	6	move	6	year
6	prepared	6	health	6	love	6	number	6	yes
6	primary	6	heck	6	lower	6	open	5	20s
6	protecting	6	human	6	members	6	options	5	abortion
6	reading	6	idea	6	men	6	place	5	according
6	resources	6	ignite	6	missed	6	plain	5	attacked
6	rule	6	immigrants	6	mother	6	prices	5	backed
6	running	6	insights	6	must	6	promise	5	backs
6	secure	6	instead	6	nations	6	putin	5	banned
6	senate	6	insurance	6	owe	6	reason	5	basically
6	six-week	6	isn't	6	person	6	rob	5	beautiful
6	small	6	jersey	6	place	6	scheme	5	biggest
6	supreme	6	justice	6	places	6	schools	5	bringing
6	system	6	little	6	price	6	she's	5	brought
6	talked	6	mass	6	process	6	sight	5	building
6	tasks	6	meeting	6	promise	6	sir	5	caved

6	tedious	6	mental	6	proposed	6	soon	5	climate
6	town	6	mentioned	6	revenue	6	stands	5	content
6	transcripts	6	missed	6	russian	6	started	5	continue
6	trusted	6	missing	6	safe	6	street	5	corporate
6	violent	6	move	6	saying	6	taken	5	cuts
6	young	6	panel	6	seeing	6	taking	5	days
5	6th	6	parental	6	seniors	6	tasks	5	decide
5	act	6	per	6	service	6	tedious	5	defend
5	allowed	6	physical	6	simply	6	terms	5	defending
5	alone	6	place	6	since	6	they'll	5	defense
5	behavior	6	primary	6	six	6	thought	5	des
5	beyond	6	public	6	soon	6	trade	5	electric
5	bidenomics	6	putin	6	step	6	transcripts	5	exactly
5	build	6	reading	6	still	6	u.s	5	example
5	cartels	6	reason	6	stopped	6	understood	5	expand
5	cause	6	record	6	syria	6	universities	5	face
5	classroom	6	retirement	6	taken	6	war	5	failed
5	community	6	says	6	tasks	6	warned	5	find
5	content	6	scare	6	tedious	6	washington	5	fix
5	decisions	6	smart	6	thousands	6	wasn't	5	foreign
5	defend	6	social	6	transcripts	6	whole	5	forward
5	earlier	6	sorbo	6	troops	6	working	5	gets
5	environment	6	stay	6	trusted	5	actual	5	global
5	exactly	6	step	6	universities	5	added	5	ground
5	feel	6	strike	6	wall	5	agencies	5	guides
5	fix	6	tasks	6	ways	5	agree	5	hasn't
5	gave	6	tedious	6	young	5	alabama	5	hear
5	guides	6	thousands	5	allowed	5	allowed	5	hospital
5	guy	6	topic	5	app	5	almost	5	idea
5	half	6	transcripts	5	approach	5	another	5	illegally
5	health	6	u.s	5	assets	5	antibiotics	5	immigrants
5	hear	6	unemployment	5	backed	5	antivirals	5	including
5	heard	6	usa	5	benefits	5	around	5	income
5	he's	6	welcome	5	billions	5	assortment	5	laws
5	homeland	6	went	5	break	5	assured	5	leaders
5	hundred	6	whether	5	chairman	5	attorney	5	legislation
5	identity	6	won	5	child	5	ban	5	low
5	information	6	word	5	china's	5	better	5	manage
5	i'd	6	yet	5	city	5	blackrock	5	means
5	jail	6	you'll	5	close	5	book	5	mentioned
5	lead	5	401k	5	comes	5	campuses	5	moines
5	learn	5	absolutely	5	committee	5	candidates	5	obviously
5	line	5	aid	5	communist	5	capture	5	open
5	men	5	appreciate	5	company	5	cases	5	pass
5	mentioned	5	artificial	5	create	5	child	5	plan
5	mess	5	attack	5	daughter	5	collections	5	possible
5	minimum	5	bad	5	defense	5	college	5	preventing

5	month	5	ban	5	demand	5	conduct	5	production
5	named	5	bank	5	democratic	5	content	5	programs
5	navy	5	black	5	democrats	5	corrupt	5	rather
5	nearly	5	boost	5	depend	5	crisis	5	remind
5	oath	5	broken	5	deport	5	days	5	she'll
5	obligation	5	call	5	deter	5	deliver	5	since
5	oil	5	called	5	enemy	5	democrats	5	somebody
5	open	5	ccp	5	entire	5	drug	5	stand
5	others	5	ceo	5	europe	5	education	5	still
5	panel	5	challenges	5	everyone	5	empower	5	street
5	partner	5	child	5	expectancy	5	end	5	strings
5	place	5	closer	5	face	5	esg	5	subsidies
5	possible	5	country's	5	facing	5	establishment	5	subtitles
5	press	5	county	5	financial	5	europe	5	suddenly
5	priority	5	customer	5	future	5	expand	5	taken
5	professional	5	decide	5	greenspan	5	faith	5	talked
5	promise	5	dollars	5	group	5	fbi	5	terms
5	proud	5	doubt	5	guides	5	firm	5	they'll
5	questions	5	dream	5	happen	5	garnish	5	together
5	responsibility	5	early	5	hate	5	gaza	5	tonight
5	revolution	5	elections	5	hundred	5	george	5	union
5	rights	5	everyone	5	industrial	5	gets	5	used
5	round	5	exactly	5	instead	5	gone	5	vote
5	rules	5	expand	5	iowa	5	guides	5	votes
5	run	5	failed	5	irs	5	guy	5	washington
5	says	5	fight	5	kind	5	healthy	5	won't
5	science	5	financial	5	largest	5	hear	5	working
5	sending	5	fired	5	leader	5	hostages	5	wouldn't
5	services	5	folks	5	least	5	house	5	yeah
5	show	5	following	5	little	5	illegal	5	yesterday
5	since	5	forward	5	losing	5	income	5	yet
5	single	5	fox	5	man	5	inspiration	4	26:31:00
5	solar	5	generation	5	matthew	5	involved	4	57:56:00
5	soon	5	gets	5	met	5	ivermectin	4	afford
5	speak	5	goes	5	miami	5	i'd	4	ahead
5	spent	5	guides	5	millions	5	jersey	4	aid
5	starts	5	gun	5	netanyahu	5	keeping	4	already
5	subtitles	5	guy	5	night	5	kind	4	anymore
5	taiwan	5	happening	5	partner	5	kits	4	anyone
5	taxes	5	happens	5	property	5	learn	4	bad
5	technology	5	hear	5	proud	5	levy	4	ban
5	test	5	hey	5	putin	5	life-saving	4	bankrupt
5	thanks	5	high	5	real	5	long	4	base
5	threat	5	hispanic	5	response	5	lying	4	bathroom
5	times	5	independence	5	rural	5	makes	4	bathrooms
5	trust	5	industry	5	says	5	medications	4	bigger
5	trying	5	innovation	5	serious	5	message	4	board

5	type	5	innovator	5	settling	5	middle	4	break
5	wait	5	inside	5	show	5	modern	4	bureaucrats
5	wall	5	interest	5	side	5	nominee	4	buying
5	wants	5	involved	5	someone	5	owe	4	california
5	wave	5	island	5	special	5	paying	4	campaigned
5	ways	5	kid	5	started	5	pick	4	capture
5	weeks	5	lead	5	subtitles	5	point	4	cause
5	went	5	leaders	5	taking	5	points	4	center
5	what's	5	lives	5	telling	5	politicians	4	centers
5	wisconsin	5	loan	5	though	5	position	4	chaos
5	youtube	5	longer	5	times	5	presidential	4	christie
4	01:59:13	5	lowest	5	top	5	professionals	4	classroom
4	15-week	5	making	5	tough	5	property	4	clean
4	401(k	5	man	5	trying	5	proposed	4	college
4	401k	5	many	5	university	5	puppet	4	counties
4	45:34:00	5	mean	5	unless	5	questions	4	dealing
4	4patriots.com	5	mess	5	venezuela	5	quick	4	dealt
4	acceptance	5	miles	5	victory	5	reach	4	defund
4	alexander	5	moment	5	wages	5	record	4	democrats
4	asylum	5	month	5	wants	5	reject	4	department
4	bad	5	months	5	watch	5	retribution	4	desperate
4	become	5	nato	5	weeks	5	rnc	4	difference
4	biden's	5	nearly	5	welcome	5	rules	4	divided
4	bill	5	obamacare	5	whole	5	school	4	donors
4	billions	5	operations	5	words	5	seize	4	emissions
4	birth	5	opportunities	4	account	5	services	4	enforcement
4	blame	5	opportunity	4	accountable	5	set	4	entire
4	boys	5	peace	4	achieve	5	settling	4	expansion
4	brand	5	picket	4	acted	5	show	4	expert
4	built	5	policies	4	actual	5	since	4	explain
4	bureau	5	politics	4	afghanistan	5	sons	4	fauci
4	busier	5	press	4	agents	5	spent	4	features
4	buying	5	pro-life	4	always	5	step	4	flag
4	cade	5	programs	4	asked	5	strategy	4	follow
4	call	5	promise	4	attack	5	subtitles	4	freedom
4	capture	5	prosecutors	4	baby	5	talked	4	fuel
4	cartel	5	race	4	biden's	5	thanks	4	fund
4	child	5	ran	4	birth	5	threat	4	gaza
4	china's	5	rates	4	bit	5	throws	4	gender
4	citizens	5	reach	4	born	5	tom	4	given
4	city	5	read	4	brooks	5	try	4	god
4	comes	5	research	4	brought	5	turn	4	governors
4	compete	5	restore	4	budget	5	understand	4	guard
4	computer	5	secure	4	built	5	wages	4	haley's
4	convicted	5	seen	4	businesses	5	watch	4	half
4	courtley	5	services	4	buy	5	wellness	4	happens
4	credit	5	set	4	calling	5	wins	4	hard

4	criminals	5	sitting	4	cancer	5	woman	4	harm
4	cuts	5	sorry	4	capture	5	won	4	huge
4	decide	5	speech	4	catch	5	wouldn't	4	hundreds
4	deep	5	subtitles	4	certainly	5	wrote	4	hurt
4	defense	5	support	4	challenges	5	young	4	immunity
4	deliver	5	though	4	chance	5	z-pak	4	incentives
4	democratically	5	troops	4	choice	4	29:59:00	4	interest
4	dollar	5	using	4	class	4	age	4	interesting
4	dollars	5	wait	4	classroom	4	agenda	4	iraq
4	drug	5	wanted	4	clear	4	already	4	israel's
4	earth	5	whole	4	collections	4	anonymous	4	jewish
4	enthusiasm	5	wife	4	commander-in-chief	4	anti-semitism	4	killed
4	epidemic	5	women	4	companies	4	antiparasitics	4	knew
4	everybody's	5	working	4	course	4	aren't	4	knows
4	exchange	5	yeah	4	court	4	bad	4	largest
4	expert	5	young	4	creates	4	bankrupt	4	lead
4	features	4	01:57:17	4	culture	4	based	4	learn
4	five	4	35:29:00	4	dealing	4	basic	4	lie
4	follow	4	ability	4	decades	4	bathrooms	4	line
4	following	4	ago	4	decide	4	begin	4	love
4	fundamentally	4	air	4	decisions	4	biden's	4	lowest
4	futures	4	alone	4	deficit	4	bit	4	makes
4	generator	4	america's	4	deliver	4	bold	4	math
4	getting	4	anymore	4	democracy	4	broken	4	may
4	girls	4	anyone	4	deserve	4	carolinians	4	members
4	given	4	anything	4	determined	4	cartels	4	might
4	gop	4	aren't	4	difference	4	center	4	months
4	green	4	assets	4	direction	4	century	4	nationwide
4	grew	4	attacked	4	diversify	4	chair	4	nato
4	growing	4	auto	4	drug	4	chairman	4	nothing
4	guess	4	ballot	4	effectively	4	chaos	4	oath
4	hard	4	beat	4	else	4	children	4	part
4	haven't	4	became	4	enforcement	4	closing	4	permanent
4	heading	4	behind	4	especially	4	colleagues	4	person
4	hearing	4	belong	4	evening	4	constitution	4	place
4	history	4	birthright	4	evil	4	convicted	4	planes
4	idea	4	blame	4	expand	4	court	4	police
4	ideas	4	building	4	expert	4	critical	4	politics
4	illinois	4	bureau	4	explain	4	current	4	pull
4	importance	4	busier	4	fear	4	daughters	4	read
4	including	4	businesses	4	features	4	dead	4	renewable
4	incumbent	4	campaign	4	fed	4	dealing	4	reynolds
4	intelligence	4	capture	4	fighting	4	defend	4	riots
4	iraq	4	car	4	find	4	deport	4	ron's
4	judgment	4	cases	4	firm	4	different	4	safe
4	keep	4	certainly	4	food	4	discover	4	secure
4	kid	4	choosing	4	forces	4	early	4	seeing



4	kind	4	city	4	foundation	4	east	4	sent
4	known	4	classroom	4	founding	4	eats	4	shooting
4	knows	4	close	4	four	4	elect	4	show
4	leave	4	communist	4	freedom	4	elected	4	side
4	legislation	4	continue	4	gallagher	4	enforcement	4	situation
4	letting	4	conversation	4	garnish	4	enough	4	six
4	lightning	4	curtains	4	gaza	4	ever	4	solution
4	lives	4	customers	4	genocide	4	expert	4	somehow
4	making	4	delivered	4	gets	4	father	4	southern
4	moments	4	democrats	4	given	4	favor	4	speak
4	name	4	dreamers	4	global	4	features	4	standard
4	no-cost	4	driving	4	god	4	financial	4	stolen
4	nominee	4	drug	4	grocery	4	find	4	subscribe
4	obama	4	empower	4	guess	4	fitton	4	succeed
4	party's	4	enacted	4	head	4	fix	4	taught
4	pass	4	enforcing	4	health	4	front	4	though
4	patrol	4	evening	4	helped	4	general	4	threat
4	peace	4	executive	4	hill	4	getting	4	today
4	people's	4	expensive	4	hit	4	gift	4	tough
4	percent	4	expert	4	hope	4	global	4	town
4	personal	4	farmers	4	hostages	4	guidelines	4	transcript
4	person's	4	father	4	including	4	hampshire	4	tried
4	plan	4	features	4	independence	4	hands	4	twice
4	point	4	fighting	4	info	4	harvesting	4	two-state
4	politician	4	focusing	4	inside	4	haven't	4	ukrainian
4	politicians	4	force	4	isn't	4	heard	4	universal
4	poverty	4	frankly	4	korea	4	high	4	universities
4	problems	4	futures	4	leaders	4	hit	4	woke
4	public	4	general	4	levy	4	increase	4	word
4	raised	4	global	4	library	4	insurance	4	wrote
4	reaching	4	greatest	4	lives	4	interest	4	you'll

Debate1 n=2		Debate2 n=2		Debate3 n=2		Debate4 n=2		Debate5 n=2	
Type	Freq	Type	Freq	Type	Freq	Type	Freq	Type	Freq
bret baier	115	going to	114	going to	119	going to	126	going to	153
of the	107	in the	95	of the	82	that s	100	that s	123
in the	86	of the	94	in the	79	it s	81	nikki haley	121
martha maccallum	77	we re	89	thank you	75	of the	78	ron desantis	112
going to	70	dana perino	63	that s	72	ron desantis	74	in the	107
we re	66	that s	63	it s	71	to be	72	it s	98
it s	63	on the	62	we have	64	nikki haley	66	we re	81
i m	59	it s	59	that we	62	vivek ramaswamy	64	jake tapper	77
mike pence	59	we have	59	we re	62	we re	60	of the	69
we have	59	vivek ramaswamy	56	i m	61	thank you	57	re going	68
that s	52	have to	51	have to	59	chris christie	54	i think	67

vivek ramaswamy	51	that we	51	to be	58	in the	54	to be	66
have to	47	and i	48	and i	52	i think	53	need to	65
and i	45	and we	48	don t	50	don t	52	don t	64
to be	45	re going	48	and we	49	megyn kelly	51	dana bash	63
and we	44	we need	48	lester holt	46	i m	48	have to	61
united states	44	tim scott	46	to the	45	elizabeth vargas	47	to do	60
the united	43	i m	45	this country	43	and i	44	thank you	59
to the	41	to be	44	nikki haley	41	re going	42	we need	59
have a	39	nikki haley	43	vivek ramaswamy	41	to do	41	to the	58
this country	39	to do	43	we need	41	we have	40	governor desantis	56
need to	38	have a	41	need to	40	and we	39	we have	56
the american	38	want to	41	on the	40	need to	37	and we	54
on the	37	to the	40	to do	39	want to	36	governor haley	50
vice president	37	and the	39	make sure	38	you re	36	that we	49
that we	36	i think	39	that is	37	that we	35	want to	49
we need	35	need to	38	and the	36	to the	34	i m	47
and the	34	stuart varney	38	let s	35	we need	34	you governor	47
want to	33	we ve	38	they re	35	have to	33	they re	45
ron desantis	32	for the	37	i would	34	it is	33	this country	43
don t	31	ron desantis	37	at the	33	this country	33	on the	42
hold on	31	this country	36	i think	33	this is	33	you re	42
we ve	31	in this	34	the united	32	on the	31	can t	38
at the	30	ilia calderón	32	we can	32	you have	31	tapper thank	38
i think	30	united states	31	in this	31	and the	28	you can	38
re going	30	the united	30	united states	31	donald trump	28	that he	37
american people	29	they re	29	you have	31	in this	28	we ve	37
chris christie	29	this is	29	re going	30	to get	27	a lot	36
for the	29	we are	29	we are	30	to go	27	and i	36
i will	29	ve got	28	hugh hewitt	29	vargas thank	27	got to	36
president of	29	at the	27	this is	29	eliana johnsons	26	bash governor	35
this is	29	don t	27	would you	29	have a	26	s a	35
is the	28	if you	27	i ll	28	i ll	26	to have	32
thank you	27	to make	27	mr ramaswamy	28	look at	26	lot of	31
to do	27	you re	27	sure that	28	and that	24	s going	31
you re	27	that is	26	want to	28	he s	24	south carolina	31
in this	26	i ll	25	we should	28	if you	24	donald trump	30
with the	25	what we	25	if you	27	ve got	24	in this	30
governor desantis	24	let s	24	is the	27	and you	23	to go	30
i was	24	to get	24	tim scott	27	at the	23	didn t	29
on this	24	back to	23	do you	26	got to	23	you have	29
ve got	24	doug burgum	23	ron desantis	26	s the	23	and you	28
can t	23	governor desantis	23	we ll	26	s what	23	he s	28
do you	23	make sure	22	let me	25	they re	23	if you	28
nikki haley	23	on this	22	sen tim	25	is a	21	she s	28
of our	23	to go	22	you re	25	mr ramaswamy	21	the united	28

that is	23	to have	22	s not	24	one of	21	what we	28
you have	23	you have	22	social security	24	that is	21	do that	27
a lot	22	all of	21	go to	23	and then	20	i ve	27
tim scott	22	got to	21	gov ron	23	didn t	20	the state	27
we can	22	i want	21	have the	23	s going	20	this is	27
we will	22	it is	21	on this	23	s not	20	fact that	26
got to	21	joe biden	21	senator scott	23	the united	20	the fact	26
is a	21	i ve	20	to make	23	we are	20	to make	26
s a	21	i will	20	for the	22	able to	19	ve got	26
if you	20	in our	20	is a	22	governor christie	19	at the	25
in a	20	is a	20	it is	22	i want	19	s the	25
would you	20	we will	20	s going	22	i will	19	able to	24
you want	20	i have	19	s the	22	we ve	19	go and	24
as president	19	right now	19	to get	22	what i	19	in florida	24
i ll	19	s not	19	can t	21	with the	19	she was	24
it is	19	sure that	19	to have	21	all of	18	to get	24
let me	19	the fact	19	we ve	20	for the	18	we can	24
president pence	19	a lot	18	as a	19	here s	18	i want	23
to get	19	are going	18	i will	19	the first	18	s not	23
to make	19	in a	18	the first	19	there s	18	tell you	23
about the	18	with the	18	with the	19	to take	18	that is	23
let s	18	as president	17	able to	18	united states	18	and then	22
of this	18	let me	17	ambassador haley	18	you can	18	the country	22
s the	18	one of	17	do it	18	you ve	18	doesn t	21
i ve	17	s a	17	from the	18	are going	17	i don	21
our country	17	there s	17	out of	18	governor desantis	17	in iowa	21
that i	17	we ll	17	right now	18	is the	17	is the	21
the question	17	would you	17	tell you	18	it was	17	out of	21
to have	17	about the	16	that they	18	s a	17	t have	21
what we	17	and they	16	and that	17	that they	17	that you	21
when i	17	and you	16	are going	17	ambassador haley	16	and she	20
is not	16	do it	16	deal with	17	but i	16	for the	20
ramaswamy i	16	do that	16	have a	17	i don	16	right now	20
talk about	16	mike pence	16	in our	17	i was	16	that they	20
tell you	16	president of	16	that the	17	that i	16	we don	20
the states	16	thank you	16	us to	17	to have	16	we ll	20
back to	15	that they	16	what we	17	as a	15	and that	19
baier governor	15	and that	15	back to	16	be able	15	and the	19
i would	15	can t	15	chris christie	16	do that	15	and they	19
is that	15	governor christie	15	governor desantis	16	doesn t	15	be able	19
s not	15	m going	15	if we	16	he was	15	is a	19
the constitution	15	mr ramaswamy	15	is not	16	not going	15	mental health	19
there s	15	of our	15	m going	16	re not	15	of all	19
they re	15	s the	15	so we	16	that are	15	said that	19

Debate1, n=3		Debate2 n=3		Debate3 n=3		Debate4 n=3		Debate5 n=3	
Type	Freq	Type	Freq	Type	Freq	Type	Freq	Type	Freq
the united states	43	re going to	47	we have to	37	re going to	42	re going to	65
of the united	33	we re going	40	re going to	29	we re going	30	we re going	53
re going to	30	we need to	32	we need to	29	elizabeth vargas thank	27	thank you governor	47
we have to	30	the united states	29	the united states	28	vargas thank you	27	we need to	42
the american people	29	we have to	26	we re going	26	going to be	24	jake tapper thank	38
we re going	29	in this country	22	sen tim scott	25	we need to	23	tapper thank you	38
president of the	27	we ve got	22	gov ron desantis	23	s going to	20	dana bash governor	35
we need to	24	of the united	20	make sure that	20	in this country	19	a lot of	31
vice president pence	19	i want to	18	going to be	19	that s what	19	s going to	31
bret baier governor	15	are going to	16	in this country	18	the united states	18	we have to	31
ve got to	15	president of the	16	s going to	18	are going to	17	the fact that	26
vivek ramaswamy i	15	to make sure	16	i m going	16	and that s	16	bash governor desantis	23
we ve got	15	i m going	15	m going to	16	i don t	16	in this country	22
a lot of	14	make sure that	15	gov chris christie	15	be able to	15	you can t	22
in this country	14	a lot of	14	we don t	15	not going to	15	going to be	21
bret baier mr	11	m going to	14	be able to	14	i m going	14	i don t	21
it s not	11	one of the	14	sure that we	14	it s not	14	we don t	20
on this stage	11	ve got to	14	to make sure	14	m going to	14	be able to	19
you want to	11	stuart varney governor	13	are going to	13	ve got to	13	the united states	19
first of all	10	vice president pence	13	hewitt thank you	13	vivek ramaswamy i	13	ve got to	18
here s the	10	going to have	12	hugh hewitt thank	13	we have to	13	we ve got	17
hold on hold	10	on this stage	12	i don t	13	and i think	12	i want to	16
i m not	10	that s what	12	of the united	13	and we re	12	nikki haley i	16
on hold on	10	the fact that	12	president of the	13	i think it	12	desantis ron desantis	15
we can t	10	we are going	12	not going to	12	i want to	12	first of all	15
we don t	10	going to be	11	thank you governor	12	ron desantis i	12	going to do	15
we have a	10	in north dakota	11	that s the	12	chris christie i	11	governor desantis ron	15
answer the question	9	sure that we	11	that we re	12	i think we	11	in the country	15
baier vice president	9	and we re	10	kristen thank you	11	one of the	11	that s why	15
bret baier vice	9	it s not	10	our southern border	11	thank you governor	11	to be able	15
i want to	9	not going to	10	the american people	11	think it s	11	to make sure	15
it s a	9	s going to	10	and that s	10	we ve got	11	not going to	14
look at the	9	to go to	10	it s not	10	you mr ramaswamy	11	the state of	14
to make sure	9	we re not	10	that we have	10	you ve got	11	fact that he	13

to the states	9	dana perino i	9	to be able	10	don t think	10	in south carolina	13
when i was	9	i have a	9	to deal with	10	eliana johnsons thank	10	that s what	13
and we have	8	this is a	9	we are going	10	first of all	10	bash thank you	12
baier hold on	8	and that s	8	you have to	10	going to take	10	dana bash thank	12
bret baier hold	8	and we need	8	a lot of	9	johnsons thank you	10	governor nikki haley	12
bret baier we	8	be able to	8	former president trump	9	needs to be	10	here in iowa	12
mr vice president	8	have a question	8	i ll tell	9	of the united	10	jake tapper governor	12
need to do	8	if i may	8	in the middle	9	ron desantis you	10	ron desantis she	12
not going to	8	in the world	8	one of the	9	thank you mr	10	ron desantis well	12
the department of	8	mike pence well	8	to do it	9	the southern border	10	that s a	12
the president of	8	that we re	8	and i m	8	they don t	10	don t have	11
to get to	8	vivek ramaswamy i	8	as president of	8	you have to	10	here s the	11
to talk about	8	we have a	8	for us to	8	you look at	10	of the united	11
you know what	8	you want to	8	going to do	8	a lot of	9	ron desantis i	11
and that s	7	a question for	7	going to have	8	don t have	9	that that s	11
and we re	7	and i m	7	i would say	8	if you re	9	to do that	11
as president of	7	as president of	7	let me turn	8	look at the	9	you governor governor	11
department of education	7	focus on the	7	let s make	8	make sure that	9	you governor nikki	11
did the right	7	going to go	7	ll tell you	8	nikki haley i	9	you have to	11
don t have	7	here s the	7	me turn to	8	on day one	9	you want to	11
going to take	7	i think that	7	nikki haley i	8	president of the	9	and i think	10
i m a	7	i think we	7	s make sure	8	we don t	9	don t need	10
i think that	7	it s a	7	thank you senator	8	you re not	9	don t think	10
in terms of	7	on day one	7	the retirement age	8	going to get	8	governor ron desantis	10
inaudible bret baier	7	on the stage	7	we ve got	8	going to have	8	in the state	10
make sure that	7	that s why	7	what would you	8	here s the	8	it s a	10
martha maccallum you	7	the american people	7	and we need	7	i think that	8	of south carolina	10
mike pence i	7	the biden administration	7	can tell you	7	that s the	8	that s not	10
of the american	7	to do it	7	don t need	7	that we re	8	the retirement age	10
on the stage	7	to do that	7	holt all right	7	the state of	8	you re going	10
our southern border	7	you have to	7	i can tell	7	they re going	8	and that s	9
that we re	7	and i ll	6	lester holt all	7	to be able	8	are going to	9
the fact that	7	and let s	6	lester holt senator	7	we are going	8	i think that	9
the republican party	7	back to the	6	make sure we	7	and it s	7	it s not	9

the right thing	7	dana perino governor	6	making sure that	7	going to come	7	nikki haley well	9
the white house	7	don t have	6	need to do	7	he didn t	7	one of the	9
they need to	7	doug burgum i	6	scott thank you	7	i ll tell	7	state of florida	9
this country and	7	first of all	6	so we can	7	re not going	7	the united nations	9
this is the	7	have a lot	6	thank you ambassador	7	ron desantis it	7	there s a	9
what we need	7	i don t	6	thank you very	7	ron desantis we	7	think it s	9
you look at	7	i ll be	6	the first thing	7	sure that we	7	to be a	9
a six week	6	in south carolina	6	the middle east	7	that that s	7	to deal with	9
and paid for	6	in the country	6	they re doing	7	this is the	7	to talk about	9
and we will	6	in the last	6	this country and	7	to be a	7	when she was	9
as president i	6	in the united	6	tim scott well	7	to go to	7	you got to	9
baier mr ramaswamy	6	law and order	6	to do is	7	we have a	7	and we need	8
be able to	6	need to do	6	we can t	7	you can t	7	and we re	8
bought and paid	6	needs to be	6	you ambassador haley	7	you want to	7	bash governor haley	8
can t we	6	nikki haley you	6	you very much	7	i m not	6	i m the	8
do you want	6	of the people	6	and i ll	6	i m the	6	make sure that	8
going to be	6	ron desantis i	6	commander in chief	6	inaudible megyn kelly	6	nikki haley and	8
i don t	6	senator scott you	6	don t know	6	is going to	6	nikki haley you	8
i m going	6	states of america	6	first thing i	6	is he fit	6	ron desantis and	8
i m the	6	that we have	6	going to take	6	megyn kelly thank	6	ron desantis you	8
i think we	6	the federal government	6	governor thank you	6	nikki haley s	6	s the thing	8
in the united	6	the southern border	6	have to do	6	on this stage	6	that he s	8
m going to	6	the white house	6	i d like	6	s what we	6	that s the	8
martha maccallum okay	6	they don t	6	i think it	6	state of florida	6	the american people	8
martha maccallum we	6	to have a	6	i think that	6	that doesn t	6	to go and	8
mike pence well	6	to talk about	6	i think you	6	that s a	6	to raise the	8
of this country	6	united states i	6	i want to	6	that s going	6	was going to	8
president mike pence	6	united states of	6	is going to	6	that s not	6	you ve got	8
rule of law	6	vivek ramaswamy we	6	it s a	6	that s why	6	and it s	7
s going to	6	you know what	6	it s going	6	the only person	6	at the united	7
s the thing	6	all of our	5	lester holt governor	6	there s a	6	back to the	7
states of america	6	all of the	5	mr ramaswamy thank	6	to be the	6	former president trump	7

Debate1, n=4		Debate2 n=4		Debate3 n=4		Debate4 n=4		Debate5 n=4	
Type	Fre q	Type	Fre q	Type	Fre q	Type	Fre q	Type	Fre q
of the united states	33	we re going to	39	we re going to	26	we re going to	30	we re going to	52
we re going to	29	of the united states	20	i m going to	16	elizabeth vargas thank you	27	jake tapper thank you	38
president of the united	26	president of the united	16	hugh hewitt thank you	13	i m going to	14	tapper thank you governor	35
hold on hold on	10	i m going to	14	of the united states	13	eliana johnsons thank you	10	dana bash governor desantis	23
we ve got to	10	we are going to	12	president of the united	13	of the united states	10	governor desantis ron desantis	15
baier vice president pence	9	we ve got to	12	to be able to	10	thank you mr ramaswamy	10	to be able to	15
bret baier vice president	9	to make sure that	11	we are going to	10	i don t think	9	we ve got to	14
bret baier hold on	8	make sure that we	10	as president of the	8	i think it s	9	the fact that he	13
we need to do	8	as president of the	7	i ll tell you	8	president of the united	9	dana bash thank you	12
and we have to	7	and we need to	6	let me turn to	8	and we re going	8	thank you governor governor	11
as president of the	7	and we re going	6	let s make sure	8	s going to be	8	thank you governor nikki	11
did the right thing	7	have a lot of	6	make sure that we	8	they re going to	8	you governor nikki haley	11
the president of the	7	have a question for	6	s going to be	8	to be able to	8	bash governor desantis ron	10
bought and paid for	6	i have a question	6	to make sure that	8	we are going to	8	i don t think	10
bret baier mr ramaswamy	6	in the united states	6	lester holt all right	7	we ve got to	8	of the united states	10
here s the thing	6	re going to have	6	sen tim scott well	7	and that s what	7	s going to be	10
i m going to	6	the united states i	6	thank you very much	7	make sure that we	7	you re going to	10
in the united states	6	united states of america	6	we don t need	7	re not going to	7	the state of florida	9
the rule of law	6	a question for you	5	i can tell you	6	are going to be	6	we don t need	9
the united states and	6	dana perino i m	5	in the middle east	6	thank you governor christie	6	bash thank you governor	8
the united states of	6	going to have to	5	mr ramaswamy thank you	6	that s going to	6	dana bash governor haley	8
to make sure that	6	i think it s	5	senator scott thank you	6	the state of florida	6	here s the thing	8
united states of america	6	ilia calderón mr ramaswamy	5	thank you ambassador haley	6	vargas thank you mr	6	re going to do	8
vice president mike pence	6	on the fact that	5	the first thing i	6	going to be a	5	to make sure that	8
you look at the	6	stuart varney governor desantis	5	we need to do	6	going to be able	5	at the united nations	7
are you bought and	5	that s going to	5	and we need to	5	i want to say	5	going to be a	7
baier hold on hold	5	that s what we	5	fact of the matter	5	in the state of	5	governor of south carolina	7

baier mr vice president	5	the united states of	5	gov ron desantis well	5	it s going to	5	i will tell you	7
bret baier mr vice	5	are not going to	4	i think it s	5	megyn kelly hold on	5	in the state of	7
bret baier thank you	5	dana perino all right	4	it s going to	5	megyn kelly thank you	5	that s going to	7
bring out the best	5	didn t focus on	4	making sure that we	5	mr ramaswamy vivek ramaswamy	5	we don t have	7
can t we all	5	don t care about	4	of the matter is	5	re going to get	5	we need to make	7
martha maccallum hold on	5	focus on the fact	4	re not going to	5	ron desantis it s	5	when it comes to	7
martha maccallum thank you	5	going to go to	4	s make sure we	5	thank you nikki haley	5	and we need to	6
mike pence can i	5	he didn t focus	4	thank you let me	5	that s what we	5	cnn republican presidential debate	6
mr vice president mike	5	i m president of	4	thank you mr ramaswamy	5	vivek ramaswamy i ll	5	go to desantislies.com	6
of the american people	5	if i m president	4	the fact of the	5	you look at the	5	governor haley nikki haley	6
out the best of	5	if you come here	4	we have to do	5	you re not going	5	he s going to	6
pence did the right	5	if you want to	4	we need to be	5	are not going to	4	i m the only	6
t we all agree	5	ilia calderón thank you	4	and we have to	4	fact of the matter	4	i think it s	6
the department of education	5	ilia calderón vice president	4	at the end of	4	i ll tell you	4	it s going to	6
the united states i	5	m president of the	4	at the united nations	4	i m the only	4	jake tapper governor desantis	6
we all agree that	5	my wife and i	4	city on the hill	4	i think we ve	4	m the only one	6
what we need to	5	need to make sure	4	depend on them for	4	if you re not	4	re not going to	6
with the american people	5	of the people on	4	do you see the	4	in the united states	4	thank you governor ron	6
you bought and paid	5	people on the stage	4	don t need to	4	johnsons thank you sir	4	that s why i	6
a six week ban	4	ramaswamy if i may	4	going to be able	4	law shouldn t get	4	that s why we	6
and we re going	4	t care about the	4	going to do it	4	let me tell you	4	the cnn republican presidential	6
at the end of	4	t focus on the	4	hewitt thank you governor	4	of the matter is	4	when she was governor	6
back to the states	4	that we re going	4	hewitt thank you senator	4	on the southern border	4	you governor governor desantis	6
bret baier governor desantis	4	the fact that they	4	holt ambassador thank you	4	or isn t he	4	you governor ron desantis	6
bret baier governor hutchinson	4	there s no doubt	4	holt your time is	4	ron desantis i signed	4	and we re going	5
i ll tell you	4	they don t care	4	hugh hewitt mr ramaswamy	4	shouldn t get involved	4	and you know what	5
i m the only	4	they re going to	4	i don t think	4	thank you ron desantis	4	as president would you	5



in the middle of	4	tim scott here s	4	in this country and	4	the fact of the	4	first of all i	5
in the white house	4	to be able to	4	increase the supply of	4	the justice department and	4	going to be able	5
let me tell you	4	to make sure we	4	it by making sure	4	the law shouldn t	4	governor haley your response	5
need a president who	4	to pass a federal	4	kristen mr ramaswamy thank	4	the only person on	4	haley your response nikki	5
of the president of	4	vivek ramaswamy if i	4	lester holt ambassador thank	4	to be willing to	4	i m going to	5
president pence mike pence	4	we need to make	4	lester holt senator scott	4	to make sure that	4	i was at the	5
re going to get	4	we ve got the	4	lester holt your time	4	to sit there and	4	in the country and	5
s a lot of	4	what we re doing	4	ll start with you	4	vargas thank you governor	4	in the united states	5
signed a six week	4	you re going to	4	need to do is	4	vivek ramaswamy that s	4	jake tapper governor haley	5
that we need to	4	a member of the	3	need to make sure	4	we don t have	4	need to make sure	5
the best of america	4	and by the way	3	thank you thank you	4	we need to be	4	raise the retirement age	5
the question ron desantis	4	and it s not	3	thank you vivek ramaswamy	4	when it comes to	4	s not going to	5
the united states we	4	and that s why	3	that s how we	4	would you send american	4	thank you governor desantis	5
to be able to	4	are going to have	3	the chinese communist party	4	you re going to	4	that s a mandate	5
to be an american	4	are you going to	3	the city on the	4	you send american troops	4	the only one running	5
united states is to	4	as commander in chief	3	the end of the	4	you ve got to	4	the teacher s union	5
ve got to be	4	as it relates to	3	the united states i	4	across the southern border	3	to deal with the	5
vice president pence mike	4	as your president i	3	the united states of	4	all he knows how	3	was governor of south	5
want to talk about	4	at the end of	3	they don t care	4	am not going to	3	we need to do	5
we don t have	4	but i want to	3	united states of america	4	an america where we	3	you got to be	5
we don t need	4	but we re going	3	we depend on them	4	an attack on america	3	you governor governor haley	5
we have a lot	4	calderón vice president pence	3	we need to make	4	and daughters to go	3	your response nikki haley	5
we have to have	4	dana perino governor burgum	3	what can you do	4	and i think it	3	about the fact that	4
what it means to	4	dana perino let me	3	what we need to	4	and so i think	3	and we ve got	4
what would you do	4	dana perino thank you	3	you to weigh in	4	and that s why	3	bash governor haley your	4
when i was governor	4	degrading the russian military	3	your time is up	4	and we are going	3	don t have enough	4
you know what i	4	did you send them	3	all right governor thank	3	and we ll do	3	down to the state	4
you signed a six	4	end of the day	3	all right mr ramaswamy	3	at the first debate	3	he said he was	4

you ve got to	4	fact that they were	3	ambassador haley let me	3	chris christie let me	3	he was going to	4
a champion for life	3	for the first time	3	and i m going	3	daughters to go die	3	here you can t	4
a president of the	3	for the second republican	3	and we re going	3	depend on them for	3	i can tell you	4
a president who s	3	get the job done	3	are you looking at	3	desantis i think we	3	i ll tell you	4
address the covid issue	3	going to have a	3	at the same time	3	do the same thing	3	i think we have	4
agenda is a hoax	3	going to move on	3	be open to raising	3	don t have a	3	in the white house	4
all agree that we	3	governor christie i believe	3	because they know that	3	don t respond to	3	in this country and	4
and paid for tim	3	have the right to	3	but we have to	3	don t think that	3	is we have to	4
and the reality is	3	have to make sure	3	by making sure that	3	don t want to	3	january th was a	4
answer the question ron	3	i ll tell you	3	close our southern border	3	elizabeth vargas governor christie	3	make sure that we	4
are they for weeks	3	i want to ask	3	did it by making	3	envision an america where	3	nikki haley i mean	4
as president i ll	3	i want to be	3	do you say to	3	fit or isn t	3	nikki haley i think	4
at the same time	3	if you look at	3	do you stand on	3	fit to be president	3	nikki haley it s	4
baier mr ramaswamy you	3	ilia calderón senator scott	3	don t care that	3	for a long time	3	nikki haley well i	4
be honest with the	3	in the white house	3	first thing i would	3	get involved with it	3	of billions of dollars	4
bret baier all right	3	in this country not	3	for the whole life	3	going to get the	3	of the things that	4
bret baier are you	3	in washington d c	3	go back to the	3	going to get to	3	only one running that	4
but we ve got	3	law and order back	3	going to be the	3	going to sit there	3	presidential debate live from	4

Debate1, n=5		Debate2 n=5		Debate3 n=5		Debate4 n=5		Debate5 n=5	
Type	Fr eq	Type	Fre q	Type	Fre q	Type	Fre q	Type	Fre q
president of the united states	26	president of the united states	16	president of the united states	13	president of the united states	9	jake tapper thank you governor	35
bret baier vice president pence	9	as president of the united	7	as president of the united	8	and we re going to	8	thank you governor nikki haley	11
as president of the united	7	to make sure that we	7	fact of the matter is	5	elizabeth vargas thank you mr	6	bash governor desantis ron desantis	10
the president of the united	7	and we re going to	6	let s make sure we	5	vargas thank you mr ramaswamy	6	dana bash governor desantis ron	10
the united states of america	6	of the united states i	6	the fact of the matter	5	going to be able to	5	tapper thank you governor nikki	10
are you bought and paid	5	have a question for you	5	at the end of the	4	in the state of florida	5	dana bash thank you governor	8
baier hold on hold on	5	the united states of america	5	going to be able to	4	you re not going to	5	tapper thank you governor governor	8

bret baier hold on hold	5	we re going to have	5	holt your time is up	4	eliana johnsons thank you sir	4	we re going to do	7
bret baier mr vice president	5	didn t focus on the	4	hugh hewitt thank you governor	4	elizabeth vargas thank you governor	4	i m the only one	6
bring out the best of	5	don t care about the	4	hugh hewitt thank you senator	4	fact of the matter is	4	in the state of florida	6
can t we all agree	5	focus on the fact that	4	kristen mr ramaswamy thank you	4	law shouldn t get involved	4	thank you governor governor desantis	6
mr vice president mike pence	5	he didn t focus on	4	lester holt ambassador thank you	4	the fact of the matter	4	thank you governor ron desantis	6
of the united states and	5	i have a question for	4	lester holt your time is	4	the law shouldn t get	4	the cnn republican presidential debate	6
of the united states i	5	i m president of the	4	need to make sure that	4	we re going to get	4	and we re going to	5
pence did the right thing	5	if i m president of	4	of the united states i	4	would you send american troops	4	going to be able to	5
t we all agree that	5	m president of the united	4	the city on the hill	4	all he knows how to	3	governor haley your response nikki	5
you bought and paid for	5	on the fact that they	4	the united states of america	4	and daughters to go die	3	haley your response nikki haley	5
and we re going to	4	t focus on the fact	4	we depend on them for	4	and we are going to	3	s going to be a	5
baier mr vice president mike	4	that we re going to	4	we don t need to	4	depend on them for our	3	thank you governor governor haley	5
of the united states we	4	they don t care about	4	we need to do is	4	don t respond to is	3	was governor of south carolina	5
out the best of america	4	vivek ramaswamy if i may	4	we need to make sure	4	elizabeth vargas thank you ambassador	3	we need to make sure	5
vice president pence mike pence	4	we need to make sure	4	all right governor thank you	3	elizabeth vargas thank you nikki	3	and we ve got to	4
we re going to get	4	at the end of the	3	and i m going to	3	elizabeth vargas thank you ron	3	at the united nations i	4
what we need to do	4	but we re going to	3	and we re going to	3	envision an america where we	3	bash governor haley your response	4
you signed a six week	4	dana perino i m going	3	be open to raising the	3	fit or isn t he	3	dana bash governor haley your	4
a president of the united	3	dana perino let me ask	3	did it by making sure	3	going to sit there and	3	down to the state level	4
and paid for tim scott	3	did you send them back	3	do you see the path	3	he fit or isn t	3	go to desantislies com and	4
answer the question ron desantis	3	i m going to go	3	don t need to celebrate	3	he knows how to do	3	he said he was going	4
baier vice president pence mike	3	ilia calderón vice president pence	3	going to have to invest	3	i am not going to	3	i was at the united	4

be honest with the american	3	in the united states of	3	he should explain why he	3	i envision an america where	3	i will tell you is	4
bought and paid for tim	3	m going to go to	3	holt senator scott thank you	3	i m coming to you	3	m the only one running	4
bret baier mr ramaswamy you	3	need to make sure that	3	how do you see the	3	is he fit or isn	3	said he was going to	4
but we ve got to	3	of the people on the	3	i did it by making	3	it s going to take	3	so we re going to	4
can t leave it to	3	one of the things i	3	i ll start with you	3	need to make sure that	3	tapper thank you governor ron	4
change agenda is a hoax	3	perino i m going to	3	i ll tell you is	3	nikki haley first of all	3	that s a mandate to	4
climate change agenda is a	3	re going to have to	3	if we are going to	3	not going to sit there	3	that s going to be	4
constitution of the united states	3	the end of the day	3	in order for us to	3	not willing to stand up	3	the only one running that	4
hold on hold on hold	3	the fact that they were	3	it by making sure that	3	our modern way of life	3	there s a lot of	4
honest with the american people	3	the people on the stage	3	lester holt senator scott thank	3	ron desantis i think we	3	to make sure that we	4
inaudible bret baier hold on	3	the president of the united	3	let me turn to governor	3	said the law shouldn t	3	was at the united nations	4
it means to be an	3	the united states i ll	3	let s make sure that	3	shouldn t get involved with	3	we don t have enough	4
job of the president of	3	want to answer the question	3	make sure that we have	3	sons and daughters to go	3	we re not going to	4
maccallum we re going to	3	we are not going to	3	me turn to governor christie	3	t get involved with it	3	what i will tell you	4
martha maccallum we re going	3	we have to make sure	3	nbc news republican presidential debate	3	t respond to is when	3	what we need to do	4
means to be an american	3	we re going to choose	3	open to raising the retirement	3	thank you mr ramaswamy vivek	3	what we re going to	4
mike pence can i speak	3	a champion for the american	2	senator scott sen tim scott	3	that s going to be	3	when i was at the	4
mike pence did the right	3	a member of the teachers	2	thank you let me turn	3	that s simply not true	3	when she was governor of	4
need a president who s	3	a question for you governor	2	the first thing i would	3	that s what she said	3	a lot of things that	3
next president of the united	3	a win for china vivek	2	the president of the united	3	that we re going to	3	and donald trump view the	3
of the president of the	3	a win for russia is	2	they don t care that	3	the president of the united	3	and we need to make	3
of the united states is	3	agenda to the next level	2	to make sure that we	3	there s going to be	3	any meaningful difference in how	3
on hold on hold on	3	all right i want to	2	we have to deal with	3	they don t respond to	3	as president would you do	3
re going to talk about	3	allow me to doug burgum	2	we re going to have	3	to make sure that we	3	back to pre covid levels	3
signed a six week ban	3	america first agenda to the	2	we re not going to	3	vargas thank you governor christie	3	beat the teacher s union	3
sit here in an answer	3	and i m going to	2	what do you say to	3	vargas thank you nikki haley	3	cnn republican presidential debate live	3
the climate change agenda is	3	and if the government closes	2	what we need to do	3	vargas thank you ron desantis	3	did that in south carolina	3

the constitution of the united	3	and jobs act we actually	2	where do you stand on	3	we have an opportunity to	3	difference in how you and	3
the job of the president	3	and let me tell you	2	you let me turn to	3	we need to make sure	3	do anything to deal with	3
the next president of the	3	and then we re going	2	you see the path forward	3	we re going to move	3	do is we have to	3
the rule of law and	3	and we are going to	2	a ceo in the white	2	we ve got to start	3	donald trump view the constitution	3
the united states is to	3	and welcome back to the	2	a hundred percent pro life	2	were killed in that attack	3	fact that he wanted to	3
thing we need to do	3	are you going to be	2	a privilege not a right	2	what they don t respond	3	four more years of chaos	3
this is a lightning round	3	as commander in chief i	2	able to meet our aukus	2	you mr ramaswamy vivek ramaswamy	3	governor desantis ron desantis well	3
ve got to focus on	3	as the leading energy producer	2	about me it s about	2	a new sheriff in town	2	haley that is not true	3
we all agree that we	3	as your president i will	2	agree with a week limit	2	a party yes win the	2	haley well first of all	3
we can t leave it	3	back nikki haley it s	2	agree with chairman gallagher and	2	a wall across the southern	2	has the floor nikki haley	3
we have a lot of	3	banned it before they voted	2	all right governor desantis thank	2	again as a party yes	2	has the floor ron desantis	3
we re going to talk	3	be a champion for the	2	ambassador haley let me have	2	am not going to sit	2	have to do is we	3
we ve got to focus	3	be pro life for the	2	ambassador thank you very much	2	an american company nikki haley	2	how you and donald trump	3
what it means to be	3	before they voted ron desantis	2	and i can tell you	2	and every time vivek ramaswamy	2	hundreds of billions of dollars	3
you sit here in an	3	being a good partner if	2	and i ll start with	2	and here s the thing	2	i don t think it	3
you ve got to be	3	believe i did see you	2	and i ll tell you	2	and i think it s	2	i don t think that	3
you want to go and	3	border of the united states	2	and not former president trump	2	and so i think that	2	i mean first of all	3
you want to talk about	3	by degrading the russian military	2	and not the former president	2	and that s what we	2	i think we have to	3
a baby is capable of	2	calderón vice president pence the	2	and that s good news	2	and the fact of the	2	if we re going to	3
a champion for life in	2	certainly one of the things	2	and we need to make	2	and we ll do it	2	in how you and donald	3
a difference between bad behavior	2	champion for the american dream	2	and what is the path	2	and we re not doing	2	is there any meaningful difference	3
a hundred percent pro life	2	china is the real enemy	2	and what would you build	2	and you look at the	2	jake tapper thank you so	3
a lot of issues that	2	christie i believe i did	2	are going more on the	2	are not going to let	2	just a point of clarification	3
a man in the house	2	companies that produce in america	2	at the same time i	2	as a party yes win	2	meaningful difference in how you	3
a president who s too	2	conservative agenda that ronald reagan	2	at the united nations think	2	as governor of south carolina	2	need to make sure we	3

a single parent household mired	2	constitution and the th amendment	2	back to tonight s nbc	2	be a new sheriff in	2	nikki haley first of all	3
abortion all the way up	2	cuts and jobs act we	2	ban or force the sale	2	but i do think that	2	nikki haley that is not	3
again as a result of	2	dana perino all right governor	2	banned china from buying land	2	but i ll tell you	2	nikki haley well first of	3
all agree that we should	2	dana perino all right i	2	be able to win the	2	by the same set of	2	nikki haley well i think	3
alliance is the single greatest	2	dana perino and welcome back	2	be honest with the american	2	chris christie all he knows	2	one of the things that	3
allow abortion all the way	2	dana perino sir we ll	2	border i m going to	2	chris christie i want to	2	president of the united states	3
american people deserve to know	2	degrading the russian military we	2	but i ll tell you	2	chris christie let me say	2	president would you do anything	3
and defend the constitution of	2	desantis i have a question	2	but we re also going	2	chris christie you do this	2	programs down to the state	3
and there s a lot	2	did it in new jersey	2	by making sure that we	2	christie all he knows how	2	republican presidential debate live from	3
and we will make sure	2	did see you write something	2	can have an honest debate	2	christie i want to say	2	s not going to be	3
answer the question mike pence	2	didn t just talk about	2	can reduce the price of	2	christie you do this at	2	she was governor of south	3
are they for weeks are	2	don t have a lot	2	can you give me a	2	country elizabeth vargas thank you	2	tapper thank you governor desantis	3
as good as our people	2	don t want to do	2	ceo in the white house	2	daughters to go die in	2	tapper thank you governor thank	3
as your president i will	2	expensive healthcare in the world	2	china until they stop murdering	2	desantis it s an american	2	tapper thank you so much	3
at the end of the	2	first agenda to the next	2	christie thank you ambassador haley	2	desantis no it s not	2	thank you governor thank you	3
at the same time ron	2	for russia is a win	2	close our southern border for	2	do this at every debate	2	the fact that he s	3
at the top with the	2	for the american dream for	2	colleagues at the united nations	2	do you know south carolinians	2	the fact that he wanted	3
back to his basement and	2	for the first time in	2	country lester holt let me	2	don t like the fact	2	there any meaningful difference in	3
back to the states and	2	go to vice president pence	2	d like you to weigh	2	don t think it s	2	there s going to be	3

Debate1, n=6		Debate2 n=6		Debate3 n=6		Debate4 n=6		Debate5 n=6	
Type	Freq	Type	Freq	Type	Freq	Type	Freq	Type	Freq
as president of the united states	7	as president of the united states	7	as president of the united states	8	elizabeth vargas thank you mr ramaswamy	6	dana bash governor desantis ron desantis	10
the president of the united states	7	president of the united states i	6	the fact of the matter is	5	the fact of the matter is	4	jake tapper thank you governor nikki	10
are you bought and paid for	5	didn t focus on the fact	4	lester holt your time is up	4	the law shouldn t get involved	4	tapper thank you governor nikki haley	10
bret baier hold on hold on	5	focus on the fact that they	4	president of the united states i	4	all he knows how to do	3	jake tapper thank you governor governor	8
can t we all agree that	5	he didn t focus on the	4	we need to make sure that	4	don t respond to is when	3	governor haley your response nikki haley	5
baier mr vice president mike pence	4	i m president of the united	4	be open to raising the retirement	3	elizabeth vargas thank you governor christie	3	bash governor haley your response nikki	4
bret baier mr vice president mike	4	if i m president of the	4	did it by making sure that	3	elizabeth vargas thank you nikki haley	3	dana bash governor haley your response	4
bring out the best of america	4	m president of the united states	4	do you see the path forward	3	elizabeth vargas thank you ron desantis	3	he said he was going to	4
president of the united states we	4	t focus on the fact that	4	how do you see the path	3	he fit or isn t he	3	i m the only one running	4
a president of the united states	3	they don t care about the	4	i did it by making sure	3	i envision an america where we	3	i was at the united nations	4
baier vice president pence mike pence	3	at the end of the day	3	lester holt senator scott thank you	3	is he fit or isn t	3	jake tapper thank you governor ron	4
be honest with the american people	3	dana perino i m going to	3	let me turn to governor christie	3	law shouldn t get involved with	3	tapper thank you governor governor desantis	4
bought and paid for tim scott	3	i have a question for you	3	thank you let me turn to	3	not going to sit there and	3	tapper thank you governor governor haley	4
bret baier vice president pence mike	3	i m going to go to	3	the president of the united states	3	said the law shouldn t get	3	tapper thank you governor ron desantis	4
climate change agenda is a hoax	3	in the united states of america	3	we don t need to celebrate	3	shouldn t get involved with it	3	what i will tell you is	4
hold on hold on hold on	3	of the people on the stage	3	what we need to do is	3	sons and daughters to go die	3	when i was at the united	4
it means to be an american	3	of the united states i ll	3	a ceo in the white house	2	thank you mr ramaswamy vivek ramaswamy	3	and donald trump view the constitution	3
martha maccallum we re going to	3	on the fact that they were	3	a privilege not a right number	2	the president of the united states	3	and we need to make sure	3
mike pence did the right thing	3	the president of the united states	3	about me it s about you	2	they don t respond to is	3	any meaningful difference in how you	3

next president of the united states	3	we need to make sure that	3	all right governor desantis thank you	2	we need to make sure that	3	as president would you do anything	3
of the president of the united	3	a champion for the american dream	2	all right governor thank you let	2	what they don t respond to	3	bash governor desantis ron desantis well	3
of the united states is to	3	a member of the teachers union	2	ambassador haley let me have you	2	a party yes win the election	2	cnn republican presidential debate live from	3
president of the united states and	3	a question for you governor desantis	2	and i ll start with you	2	a wall across the southern border	2	difference in how you and donald	3
president of the united states i	3	a win for china vivek ramaswamy	2	and we need to make sure	2	again as a party yes win	2	haley your response nikki haley i	3
t we all agree that we	3	a win for russia is a	2	and what is the path forward	2	am not going to sit there	2	have to do is we have	3
the climate change agenda is a	3	allow me to doug burgum i	2	are going more on the pro	2	and daughters to go die in	2	how you and donald trump view	3
the constitution of the united states	3	america first agenda to the next	2	at the end of the day	2	and the fact of the matter	2	in how you and donald trump	3
the job of the president of	3	and jobs act we actually lowered	2	back to tonight s nbc news	2	and we re not doing anything	2	is there any meaningful difference in	3
the next president of the united	3	and then we re going to	2	ban or force the sale of	2	as a party yes win the	2	jake tapper thank you governor desantis	3
we can t leave it to	3	and we re going to pass	2	be honest with the american people	2	be a new sheriff in town	2	jake tapper thank you governor thank	3
we re going to talk about	3	as the leading energy producer on	2	but we re also going to	2	by the same set of rules	2	jake tapper thank you so much	3
we ve got to focus on	3	banned it before they voted ron	2	can you give me a specific	2	chris christie all he knows how	2	m the only one running that	3
what it means to be an	3	be a champion for the american	2	china until they stop murdering americans	2	chris christie i want to say	2	meaningful difference in how you and	3
you bought and paid for tim	3	be pro life for the entire	2	colleagues at the united nations think	2	chris christie you do this at	2	nikki haley that is not true	3
you signed a six week ban	3	believe i did see you write	2	country lester holt let me turn	2	christie all he knows how to	2	nikki haley well first of all	3
you sit here in an answer	3	by degrading the russian military we	2	d like you to weigh in	2	christie i want to say something	2	president would you do anything to	3
a champion for life in the	2	certainly one of the things i	2	do you stand on more funding	2	christie you do this at every	2	programs down to the state level	3
a difference between bad behavior and	2	champion for the american dream for	2	don t get a direct benefit	2	depend on them for our modern	2	she was governor of south carolina	3
a single parent household mired in	2	christie i believe i did see	2	going to be able to have	2	desantis it s an american company	2	tapper thank you governor thank you	3
alliance is the single greatest threat	2	cuts and jobs act we actually	2	going to do it the same	2	don t like the fact that	2	thank you governor nikki haley and	3



allow abortion all the way up	2	dana perino all right i want	2	going to have to invest heavily	2	each and every time vivek ramaswamy	2	thank you governor thank you governor	3
and defend the constitution of the	2	dana perino and welcome back to	2	governor thank you let me turn	2	eliana johnsons thank you mr ramaswamy	2	the cnn republican presidential debate live	3
and paid for tim scott absolutely	2	dana perino let me ask you	2	haley let me have you weigh	2	eliana johnsons thank you sir vivek	2	the fact that he wanted to	3
and there s a lot of	2	desantis i have a question for	2	have one minute for your closing	2	eliana johnsons we re going to	2	there any meaningful difference in how	3
are they for weeks are they	2	did you send them back nikki	2	have to be honest with the	2	elizabeth vargas thank you ambassador haley	2	there s going to be a	3
at the end of the day	2	don t have a lot of	2	have to know the difference between	2	elizabeth vargas thank you chris christie	2	to do is we have to	3
at the same time ron desantis	2	first agenda to the next level	2	he should explain why he didn	2	elizabeth vargas thank you thank you	2	we have to do is we	3
baier are you bought and paid	2	for russia is a win for	2	hewitt hugh hewitt thank you lester	2	elizabeth vargas thank you vivek ramaswamy	2	we need to make sure we	3
baier hold on hold on hold	2	governor christie i believe i did	2	holt all right governor thank you	2	for our modern way of life	2	when she was governor of south	3
baier we have a lot of	2	governor desantis i have a question	2	holt ambassador thank you very much	2	going to be a new sheriff	2	would you do anything to deal	3
be the next president of the	2	governor of the state of indiana	2	hugh hewitt hugh hewitt thank you	2	got to go to break we	2	you and donald trump view the	3
being president again as a result	2	haley a win for russia is	2	i d like you to weigh	2	haley do you know south carolinians	2	you do anything to deal with	3
believe that mike pence did the	2	haley you banned it before they	2	i do not just want to	2	haley would you like to respond	2	a lot of money in china	2
best of america in terms of	2	have a question for you governor	2	i m tired of seeing the	2	he said he was going to	2	a love letter to the ambassador	2
biden back to his basement and	2	have the most expensive healthcare in	2	i think you look at the	2	he wrote the declaration of independence	2	a president should have immunity for	2
bret baier are you bought and	2	have to level with the american	2	if we are going to deal	2	how i m going to lead	2	accountant in the white house we	2
bret baier governor hutchinson asa hutchinson	2	he said he was going to	2	in order for us to have	2	i am not going to sit	2	an accountant in the white house	2
bret baier vice president pence you	2	here to stay mike pence well	2	in places like iraq and afghanistan	2	i don t think it s	2	and convicted by the senate for	2
bret baier we have a lot	2	i believe i did see you	2	is a privilege not a right	2	i m coming to you next	2	and defend the constitution of the	2
bret baier we re going to	2	i did it in new jersey	2	it by making sure that we	2	i m the only one running	2	and i ve talked to folks	2

burgum you signed a six week	2	i did see you write something	2	it s not about me it	2	i m the only person on	2	and she made millions of dollars	2
but we ve got to focus	2	i started my next company strive	2	just like we depend on them	2	i m the president of the	2	and then we want to make	2
can t leave it to illinois	2	i want to answer the question	2	kristen mr ramaswamy thank you vivek	2	i think it s very very	2	and we kicked them out of	2
chris christie same type of amateur	2	i was governor of the state	2	lester holt all right governor thank	2	if that were a russian spy	2	any spending bill that doesn t	2
defend the constitution of the united	2	if you re pro life you	2	lester holt all right mr ramaswamy	2	if you re not going to	2	anything to deal with the underlying	2
did the right thing on january	2	ilia calderón vice president pence the	2	lester holt all right thank you	2	if you re not willing to	2	around i m the only one	2
do you believe that mike pence	2	is a win for china vivek	2	lester holt ambassador thank you very	2	in this country elizabeth vargas thank	2	assassination of a political rival unless	2
don t need a president who	2	it before they voted ron desantis	2	lester holt governor christie thank you	2	it is going to take a	2	back to pre covid levels that	2
don t need to bring in	2	let me say one other thing	2	lester holt let me turn to	2	it s an american company nikki	2	back to the basics in education	2
driving russia further into china s	2	level with the american people on	2	let me have you weigh in	2	it s time to bomb iran	2	bash governor desantis i want to	2
family is the greatest form of	2	me say one other thing about	2	let me turn to ambassador haley	2	johnsons thank you sir vivek ramaswamy	2	bash governor desantis she has the	2
first thing we need to do	2	mexico s not being a good	2	let s make sure that we	2	let me just say this this	2	bash thank you governor governor desantis	2
for weeks are they for weeks	2	mike pence well first let me	2	let s not do this let	2	m the only one running for	2	bash thank you i want to	2
from being president again as a	2	mike pence well thank you for	2	like we depend on them for	2	m the only person on this	2	bash welcome back to the cnn	2
funding to ukraine vivek ramaswamy i	2	moments dana perino and welcome back	2	make sure that we continue to	2	m the president of the united	2	be allowed to stay in the	2
got to address the covid issue	2	money that we send over there	2	mr ramaswamy thank you vivek ramaswamy	2	me just say this this is	2	beaten the left time and time	2
government as good as our people	2	most expensive healthcare in the world	2	nbc news republican presidential debate once	2	megyn kelly hold on vivek ramaswamy	2	believe donald trump has the character	2
governor burgum you signed a six	2	mr ramaswamy you have seconds vivek	2	need to make sure that we	2	megyn kelly we re going to	2	bill that doesn t take us	2
greatest form of governance known to	2	need to make sure that we	2	news republican presidential debate once again	2	my sole moral duty is to	2	body camera bill in the country	2
greatest nation on god s green	2	nikki haley a win for russia	2	not about me it s about	2	need to make sure that we	2	bring law and order back to	2

have a man in the house	2	nikki haley you banned it before	2	not only do you have the	2	nikki haley do you know south	2	but at the end of the	2
have a president of the united	2	none of them are willing to	2	on the world we have to	2	no one who loves my children	2	caved to the teacher s union	2
household mired in poverty i wondered	2	not being a good partner if	2	open to raising the retirement age	2	not willing to stand up and	2	country around i m the only	2
i ll bring out the best	2	of the money that we send	2	or force the sale of tiktok	2	on ron desantis it s not	2	country i did that in south	2
i m a pro life governor	2	of the state of indiana we	2	prepared to be commander in chief	2	on them for our modern way	2	country jake tapper thank you governor	2
i m president of the united	2	one on this stage who s	2	presidential debate once again here s	2	one who loves my children more	2	court that a president should have	2
i will not let you down	2	one other thing about china ilia	2	prime minister benjamin netanyahu to do	2	only one running for president that	2	dana bash governor desantis i want	2
in a single parent household mired	2	only one on this stage who	2	pro life for the whole life	2	only person on this stage who	2	dana bash governor desantis she has	2
in the hands of the people	2	other thing about china ilia calderón	2	ramaswamy i d like to respond	2	over the next two hours so	2	dana bash thank you governor desantis	2
in the united states of america	2	our job to make sure that	2	re going to be able to	2	playing by the same set of	2	dana bash thank you governor governor	2
in the white house bret baier	2	perino all right i want to	2	relations with china until they stop	2	president of the united states and	2	dana bash thank you governor haley	2
inaudible bret baier hold on hold	2	perino and welcome back to the	2	republican presidential debate once again here	2	proper role of the federal government	2	dana bash thank you i want	2
is not four more years of	2	perino i m going to go	2	right governor thank you let me	2	re going to be able to	2	dana bash thank you ron desantis	2
is the greatest form of governance	2	pro life for the entire life	2	s hugh hewitt hugh hewitt thank	2	re not willing to stand up	2	dana bash we re going to	2
is the single greatest threat we	2	ramaswamy you have seconds vivek ramaswamy	2	s nbc news republican presidential debate	2	ron desantis it s an american	2	dana bash welcome back to the	2
is the women s issue of	2	re going to pass a federal	2	s not about me it s	2	ron desantis no it s not	2	defend the constitution of the united	2
it doesn t change the truth	2	reverse this country s decline we	2	s not do this let s	2	s an american company nikki haley	2	deliver that he said he was	2
it starts at the top with	2	russia is a win for china	2	s the declaration of independence that	2	s going to be a new	2	desantis she has the floor nikki	2
job of the president of the	2	s not being a good partner	2	sen tim scott well number one	2	s how i m going to	2	desantis that s not true nikki	2
joe biden back to his basement	2	say one other thing about china	2	senator scott thank you governor christie	2	send your sons and daughters to	2	did not deliver that he said	2

## 6. HIGHLIGHTED CONTENT FROM THE DEBATES AND SOME EVALUATIONS

N-grams may be used for activities involving prediction, brainstorming, scanning, checking context for meaning, linguistic means for effect, and words related to policies/issues. For the first GOP debate in 2024, a sample report can be presented as follows (The letter ‘f’ stands for frequency, that is, the number of occurrences):

### 7. GOP DEBATE 1 (N-GRAM)

*Fox News Republican Presidential Primary Debate Transcript.* (n.d.) and (Nikki Haley, 2023a, August 24): First, it should be emphasized that what is emphasized most is the American people (“the United States” (f:43); “the American people” (f:29); “in this country” (f:15)

First of all the grammar structure for future “going to” is used to emphasize the quality of ‘previously planned’. Also “going to” is used for predictions based on something one can see or measure whereas for predictions without evidence will is used. The frequency of “we’re going to” was high (f:29). The other n-gram “I’m going to” (f:6) is also similar. Besides some word strings may also show features to make one think if it can be related to the plan and evidence “to make sure that” (f:6). On the other hand, there is also the other future form naturally because the discourse is likely to be related to future: we will (f:22).

There are so many “we” (we’re going to: 29 (‘re going to 30); we will 22; we need to: 24 (we need to do: 8); we have to: 30; ‘ve got to: 15; what we need to: 5; we can: 22; we can’t: 10; we don’t: 10 (we don’t have:4, we don’t need): 4; we have a lot:4; we have to have:4. On the other hand, individuality is not ignored, For instance, the outsider Vivek Ramaswami, popular in the polls before the first debate, seems to need to distinguish his difference positively: “am the only” (f:1), and three of the “m the only (f:4) belong to Ramaswami. The other one is uttered by Christie.

“Are you bought and paid for” (f:5) is a question very openly asked by a moderator to all the candidates after Vivek Ramaswami drew attention to the influence of donors in contrast to that of constituents electing the politician.

“Can’t we all agree that” (f:5) may be interpreted as an appeal to consensus, common ground, and depolarization. All of these, all in one response of hers, are voiced by a female candidate, Nikki Haley.

“Bring out the best in America” (f:4) may be used as a call to make the most of America’s potential. Asa Hutchinson’s expression “bring out the best” should be zoomed in, almost four of “bring out the best” is voiced by him (of America, of our people).

“Be honest with the American people” (f:3) highlights honesty or transparency, stressing integrity.

“Climate change agenda is a hoax” (f:3) is to draw attention to the misuse or abuse of climate issues.

“It means to be an American” (f:3) is an appeal for national awareness as to the meaning of being an American. Besides “greatest nation on God’s green earth” is an eco-sensitive remark to praise one’s country

“The constitution” (f:15) (“The constitution of the United States” (f:3) plus “and defend the constitution of the”) emphasize constitution and rule of law (f:6), which is emphasized as well.

“we’re going to talk about” (3) and “We’ve got to focus on” (f:3) is an expression to focus the attention.

The frequency of abortion-related mentions can also be seen in these examples: “you signed a six week ban” (f:3), “allow abortion all the way up” (f:2), and “I’m a pro-life governor”. One more pro-life is seen in Nikki Haley’s utterance: “I am unapologetically pro-life”. Here the use of the word unapologetically brings impact, voters do not want a mixed message and overdose of political correctness, on the contrary, they also do want to see clarity and a candidate’s speaking one’s mind openly. “pro-life occurred 11 times. “pro-life governor of a very pro-life state”, “Bret, I think we are all pro-life”, “a hundred percent pro-life” and “Arkansas has the record of being the most pro-life state in the nation” stand out. The last one and “I signed 30 pro-life pieces of legislation while I was Governor” show the emphasis in making discourse on record and policy rather than personal attack or smearing.

Besides, all three ‘champion for life’ (f:3) was used by Mike Pence, an example of the use of metaphor for effect. Besides, “Burgum you signed a six week” (f:2) is about abortion, but if you scan six week, you may find four more remarks about abortion. So it means N-gram may find one idea to search with the correct key term(s). “can’t leave it to Illinois” (f:2) is similar so if you check you may find one more. Sometimes politicians use repetition.

“driving Russia further into China’s” (f:2) is Ramaswami’s warning about the need to correct the wrong strategy.

“family is the greatest form of” (2), “have a man in the house” (2), “in a single parent household mired” (f:2) [you may find the context to confirm it is about family: as a kid who grew up in a single parent household mired in poverty and “I was a disillusioned young man growing up in a single-parent household mired in poverty”] *Fox News Republican Presidential Primary Debate Transcript*. (n.d.) and (Nikki Haley, 2023a, August 24)

## 8. GOP DEBATE 2 (N-GRAM)

In this debate, only the points to be emphasized were selected. (*Second Republican Presidential Primary Debate Transcript*., n.d.) and (Nikki Haley, 2023b, September 28): (‘re going to (f:47) (we’re going to: 39); “are going to (f:16); ‘m going to (f:14); “we will” (f:20)

“this country” (f:36); “we’ve (f:38); we are (f:29); we have to (f:26); “we’ve got to” (f:12); “let’s (f:24)

We need (f:48); “need to” (f:38) (we need to: 32); “make sure” (f:22) (“make sure that we: 10); “right now” (f:19); “get the job done” (f:3)

“law and order (f:6) (*Second Republican Presidential Primary Debate Transcript*., n.d.) and (Nikki Haley, September 28):

## 9. GOP DEBATE 3 (N-GRAM)

In this debate, only the points to be emphasized were selected. (*RNC Third Republican Presidential Primary Debate Transcript*., n.d.; NBC News, 2023). “this country” (f:43) (in this country: 18), “the united states” (f:28); “the American people (f:11); “our southern border” (f:11) (“close our southern border for”: 2)

“we need” (f:41) (we need to: 29), “let’s” (f:35), “want to” (f:28), “we can” (f:32), “able to” (f:18), “we are” (f:30), “we should” (f:28), “we have to” (f:37),

“we’re going to (f:26); “we are going to” (f:10) and “I’m going to” (f:16) are similar to GOP 1 and 2. However, some data may stand out, so in this debate (GOP 3) “make sure” gave a surprising finding:

The frequency of “make sure” is 38. Nikki Haley’s responses included 19 of these. Christie’s included 11, Scott’s 4, and DeSantis’ 3 (the moderator’s response had one as well). The order and the frequency in one answer can be seen as follows. The intensity of this word string is frequent in Nikki Haley’s responses. The frequency can be summarised below:

DeSantis 1, Haley 4 (four in one response), Haley 2, Christie 5 (five in one response), Haley 1, Scott 1, Haley 5 (five in one response), Christie 1, DeSantis 1, Scott 2, Haley 1, Lester Holt (moderator) 1, Scott 1, Haley 1, Christie 1, Haley 1, DeSantis 1, Christie 1, Haley 3 (three in one response), Christie 1, Christie 2, Haley 1 (*RNC Third Republican Presidential Primary Debate Transcript*., n.d.; NBC News, 2023).

## 10. GOP DEBATE 4 (N-GRAM)

In this debate, only the points to be emphasized were selected. (*RNC Fourth Presidential Primary Debate 12/06/23 Transcript*., n.d.; NewsNation, 2023). “we’re” (f:60), “we have” (f:40), “we’ve” (f:19), “this country” (f:33), “united states” (f:18), we are (f:20), “able to” (f:19) (be able to: 15),

“re going to” (f:42) (we’re going to: 30 plus “we are going to”: 8; “I’m going to”: 14) “I will” (f:19), “we’ve got to” (f:8), you’ve got to (f:4),

“need to” (f:37) , “want to” (f:36

“across the southern border” (f:4)

In the fourth debate “the law shouldn’t get involved” (f:4) indicates DeSantis criticizing Haley casting

doubts about her. However in the fifth debate, “go to desantislies.com” is voiced by Haley to build a contrast between her and her rival, a contrast where she positions her rival as someone with less credibility. However, DeSantis did the same thing against Trump emphasizing the gap between what Trump claimed he would do and his performance record; “he said he was” is voiced by DeSantis when asked a question about Trump. The other notable frequencies are: “I’m the only one” (f:6) (“ ‘m the only one running”: 4), “the teacher’s union (f:5), “at the united nations” (f:7 – Nikki Haley was U.S. ambassador to the UN from 2017 to 2018) (*RNC Fourth Presidential Primary Debate 12/06/23 Transcript.*, n.d.; NewsNation, 2023).

### **11. GOP DEBATE 5 (N-GRAM)**

In this debate, only the points to be emphasized were selected. (*DeSantis vs Haley CNN GOP Debate Transcript.*, n.d.). “re going to” (f:65) (“we’re going to”:52), “going to be” (f:21), “going to be able to” (f:5),

“we need to” (f:42), “don’t need” (f:10) “we have to” (f:31), “‘ve got to” (f:18) (“we’ve got to”:14), “you have to”: (f:11),

“in this country” (f:22), “the united states” (f:19)

“to make sure” (f:15) has also been expected in the rhetoric of a debate in which Nikki Haley is one of the two participants. As expected, the order of occurrence is found as the following (Haley: H, DeSantis:D) H, H, H, H, H, H2 (two in one response), H2, H2, D, H, D, H. The word strings that can be found out that scanning the text are “we need to make sure”: 5, “we have to make sure”: 2, “we’ve got make sure”: 1, “we want to make sure”: 2, “we also want to make sure”: 1, “we’re going to make sure”: 1. From a woman's perspective, this could be seen as an indication of her strong focus on safety and security.

Compared to other debates, the frequency of the retirement age is higher in the fifth debate. “the retirement age” (f:10), “raise the retirement age” (f:5).

Some strings may have low frequency but in fact, the fact a word string is of low frequency is worth drawing attention to: “a ceo in the white house” (f:2) in the third debate, “I’m the only one running (f:2), I’m the only person on (f:2), “depend on them for our modern (f:2), “I envision an America where” (f:3), “I’m the only” (f:4), “you send American troops” (f:4), “fit to be president” (f:3)” in the fourth debate. In the fifth debate “meaningful difference in how you” (f:3), which occurs in an important question “is there any meaningful difference in how you and Donald Trump view the Constitution?” Another one is “did not deliver that he said”, which should be scanned despite its low frequency. Once checked the stop word missed appears so with “he did not deliver that. He said” it is easier to understand benefiting from the context (*DeSantis vs Haley CNN GOP Debate Transcript.*, n.d.).

### **12. THEMATICAL CATEGORIES IN THE DEBATES**

Individual words relevant to policies and politics were selected from the frequency lists of word clouds and grouped under subheadings. The numerical value for the frequency was given for each along the number of the order of the list. For instance, people occurred 101 times in debate one and this word was the fifth word in the list. For convenience, all the debates were given a numerical value based on the order of occurrence (e.g. Debate 1 for the first debate), and the subheadings of the debates were assigned the same number (society 1 for Debate 1).

#### **DEBATE 1**

##### **SOCIETY 1**

people 101 (5.), community 5 (438.), identity 5 (454.), people’s 4 (627.), personal 4 (629.), public 4 (638.), country 71 (11.) [country’s 2 (1041), county 2 (1042)], states 69 (12.), american 56 (25.), pro-american 2 (1238.), united 46 (30.), america 45 (31.), national 19 (111.), nationally 2 (1205.), nation’s 2 (1206.), cities 9 (252.), world 13 (183.), countries 2 (1040.), urban 2 (1339.), citizens 4 (553.), home 14 (160.), kids 18 (119.) - kid 4 (608.), everybody 13 (176.), human 10 (235.), children 9 (251.), man 9 (265.), family 8 (304.), parents 8 (314.), young 6 (428.), everyone 6 (392.), friends 6 (396.), generation 6 (397.), men 5 (462.), boys 4 (542.), child 4 (551.), anyone 3 (709.), families 3 (781.), folks 3 (786.), mom 3 (835.), husband 3 (804.), women’s 3 (918.).

##### **EDUCATION1**

schools 10 (243.), course 7 (339.), library 5 (459.), read 4 (642.), reason 4 (643.), taught 4 (667.),

teachers 4 (668.), learn 3 (819.), student 3 (884.), students 3 (885.).

### **ECONOMY1**

economy 22 (89.), spending 19 (113.), job 13 (178.), funding 12 (192.), debt 10 (231.), work 10 (247.), business 9 (250.), money 9 (269.), resources 8 (318.), inflation 8 (309.), retirement 8 (321.), hard-earned 8 (308.), customers 8 (296.), working 7 (375.), spend 7 (372.), buy 6 (385.), bidenomics 5 (434.), taxes 5 (506.), taxpayer 2 (1316.), taxpayers 1 (2406.), growing 4 (593.), growth 2 (1126.), buying 4 (547.), poverty 4 (635.), economic 3 (765.), entrepreneur 3 (772.), paying 3 (848.), entrepreneur 3 (772.), tax 3 (892.), unemployment 3 (905.), unions 3 (906.), union 2 (1235.), afford 2 (967.), broke 2 (1003.), budgets 2 (1005.), company 2 (1031.), gold 44 (33.) dollar 4 (569.), dollars 4 (570.), workforce 2 (1361.), frack 1 (1984.), drill 1 (1895.).

### **HEALTH1**

abortion 16 (130.), pro-life 11 (219.), covid 9 (255.), birth 4 (539.), drug 4 (571.), mental 7 (358.), health 5 (448.), sports 4 (664.).

### **PRESS/MEDIA1**

news 10 (240.), media 5 (461.), press 5 (478.).

### **BELIEFS AND VALUES1**

god 11 (212.), faith 9 (256.), values 3 (909.).

### **MILITARY1**

war 17 (129.), military 14 (162.), navy 5 (468.), security 9 (277.), secure 6 (419.), killing 6 (401.), force 6 (394.), defense 4 (566.), patrol 4 (625.), peace 4 (626.), troops 4 (671.), weaponization 4 (680.), guns 3 (793.), invasion 3 (812.), killed 3 (816.), lethal 3 (820.), sergeant 3 (879.), battle 2 (991.).

### **SECURITY1**

border 36 (44.), crime 13 (172.), fentanyl 12 (190.), enforcement 7 (342.), homeland 5 (452.), cartels 5 (436.), cartel 4 (550.).

### **LAWS AND JUSTICE1**

law 25 (76.), constitution 19 (106.), justice 12 (194.), court 8 (295.), rule 6 (418.), supreme 6 (423.), jail 5 (457.), rules 5 (488.), bill 4 (537.), regulate 4 (645.), illegal 3 (805.), prosecutors 3 (853.), civil 2 (1020.), crimes 2 (1046.).

### **WORDS ABOUT POLITICS AND POLICY1**

political 9 (272.), policies 6 (412.), policy 7 (364.), politician 4 (633.), politicians 4 (634.).

- **Words about policy:**

need 57 (24.), needs 10 (239.), want 52 (29.), issue 35 (46.), administration 19 (105.), issues 11 (213.), problem 13 (179.), problems 4 (637.), fact 14 (155.), truth 12 (204.), real 9 (276.), protect 18 (123), freedom 12 (191.), briefing 4 (544.), civics 3 (738.), liberty 3 (821.), care 10 (228.), help 10 (234.), dream 7 (341.), fix 5 (444.), mess 5 (464.), plan 4 (631.), accountability 3 (695.), accountable 3 (696.), transparency 3 (903), view 3 (911.), visions 3 (912.), challenge/challenges 2/2 (1015./1016.), purposes 2 (1245.), purpose 1 (2254.).

### **Climate and environment**

climate 11 (210.), environment 5 (441.).

- **Energy**

Energy 12 (189.), oil 5 (472.), coal 2 (1025.).

### **Future and innovation**

new 23 (84.), future 14 (158.), innovation 6 (400.).

- **Election**

election 15 (143.), candidates 11 (209.), vote 10 (245.), congress 9 (253.), campaign 8 (293.), voters 7 (373.), run 5 (489.), bureau 4 (545.), legislation 4 (614.), votes 3 (914.).

- **State and government**

Government 26 (71.), federal 19 (107.), office 11 (217.), power 11 (218.), administrative 3 (698.), leader 12 (195.), leadership 10 (236.), lead 5 (458.), led 6 (402.).

### **Foreign relations of the USA (countries):**

China 42 (35.),  
Ukraine 24 (81.),  
Russia-China 2 (1276.),  
Russia 14(164.),  
Russian 3 (866.),  
Iraq 4 (606.),  
Europe 3 (774.),  
Afghanistan 3 (699.),  
nato 3 (838.),  
Putin 7 (365.), Reagan 7 (367.).

### **GRAMMAR WORDS1**

we're 67 (15.), we've 31 (66.), we'll 13 (181.), let's 18 (118.)  
I'm 62 (21.), I'll 19 (108.), I've 18 (118.), I'd 5 (456.)  
you're 34 (54.), you've 12 (205.), you'll 9 (289.)  
will 88 (7.), going 82 (8.)  
can 68 (13.), can't 23 (82.), might 3 (832.)

### **CONTENT WORDS1**

get 64 (18.), got 40 (39.), gets 3 (791.), gotten 3 (792.)  
know 34 (50.), think 42 (37.), thought 10 (244.)

### **DEBATE 2**

#### **SOCIETY 2**

people 79 (6.), community 6 (394.), identity 1 (2058.), people's 1 (2208.), personal 8 (311.), public 6 (435.), country 70 (13.), country's 5 (480.), county 5 (481.), states 52 (31.), american 40 (46.), americans 45 (39.), united 33 (64.), divided 3 (757.), america 55 (24.), america's 4 (578.), cities 10 (233.), world 21 (103.), world's 3 (926.), countries 3 (736.), home 11 (207.), everybody 13 (179.), human 1 (2049.), immigration 9 (267.), children 7 (330.), kids 13 (184.), kid 5 (513.), families 7 (339.), young 5 (571.), man 5 (520.), family 6 (403.), parents 22 (96.), parental 6 (429.), parent 2 (1248.), everyone 5 (488.), generation 5 (497.), women 5 (568.), wife 5 (567.), everyone 5 (488.), anyone 4 (580.), folks 5 (493.), mom 2 (1222.), national 18 (121.), nationwide 2 (1227.), nation's 1 (2169.).

#### **EDUCATION 2.**

Education 14 (162.), school 20 (107.), schools 9 (278.), course 3 (738.), library 13 (186.), read 5 (546), reason 6 (437.), teachers 7 (368.), students 7 (366.), student 4 (685.)

#### **ECONOMY2**

Economy 23 (86.), spending 19 (118.), job 22 (94.), jobs 16 (136.), funding 7 (343.), debt 14 (160.), work 17 (131.), workers 14 (176.), network 7 (352.), hard-earned 6 (410.), working 5 (569.), worked 2 (1444.), working 5 (569.), works 3 (925.), workflow 2 (1445.), workforce 2 (1446.), business 19 (113.), businesses 5 (472.), money 15 (148.), resources 11 (216.), inflation 7 (345.), retirement 6 (439.), customers 6 (397.), customer 2 (1064.), cut 9 (258.), cuts 2 (1066.), spending 19 (118.), buying 2 (1011.), bidenomics 3 (721.), poverty 2 (1271.), economic 9 (262.), prices 9 (273.), entrepreneur 1 (1943.), pay 8 (309.), paying 7 (356.), inflation 7 (345.), taxes 13 (189.), tax 3 (892.), taxpayer 3 (899.), taxpayers 2 (1398.), unemployment 6 (451.), employees 2 (1105.), recruitment1 (2267.), union 12 (202.), unions 3 (909.), wages 7 (374.), budget 7 (327.), companies 10 (234.), company 8 (291.), gold 38 (50.), insurance 6 (418.), dollars 5 (484.), dollar 3 (759.), property 4 (668.), growth 3 (785.), growing 3 (784.), boost 3 (723.), capitalism 2 (1016.), customers 1 (1872.).

#### **HEALTH2**

abortion 3 (707), pro-life 5 (538.), drug 4 (616.), drugs 1 (1920.), mental 6 (424.), healthcare 14 (165.), health 6 (412.), healthy 1 (2031.), childcare 8 (289.), sports 1 (2351.).

#### **PRESS/MEDIA2**

media 8 (304.), press 5 (537.), news 9 (271.), tiktok 9 (281.).

#### **BELIEFS AND VALUES2**

God 3 (781.), faith-based (1962.), values 3 (913.).

#### **MILITARY2**



war 19 (251.), warfare 1 (2477.), wars 1 (2478.), military 14 (167.), security 9 (279.), secure 5 (549.), killing 2 (1198.), force 4 (629.), defense 2 (1074.), patrol 3 (835.), peace 5 (534.), troops 5 (561.), weapons 2 (1432.), gun 5 (500.), guns 1 (2024.), invasion 2 (1184.).

## **SECURITY2**

border 38 (48.), crime 12 (193.), fentanyl 14 (163.), enforcement 9 (263.), cartels 7 (328.), homeland 2 (1167.), customs 2 (1065.), kidnapping 2 (1197.), cartel 1 (1803.).

## **LAWS AND JUSTICE2**

law 32 (66.), constitution 6 (396.), justice 6 (421.), court 5 (482.), rule 1 (2305.), rules 1 (2306.), supreme 3 (896.), regulations 3 (857.), regulation 1 (2274.), illegal 8 (300.), legal 4 (649.), prosecutors 5 (541.), slavery 7 (363.), legitimate 2 (1204.), civil 2 (1030.), civics 2 (1029.), crime 12 (193.), crimes 2 (1060.).

## **WORDS ABOUT POLITICS AND POLICY2**

political 1 (2228.), politics 2 (1267.), policy 14 (170.), policies 5 (536.)

### **Words about policy:**

need 61 (19.), needs 11 (214.), want 54 (27.), issue 14 (166.), issues 11 (208.), problem 13 (187.), manufacturing 4(654.), truth 7 (370.), real 14 (171.), protect 15 (151.), protected/protecting/protection 1/1/1 (2249./2250./2251.), care 11 (205.), bill 10 (232.), helped 8 (299.), help 13 (182.), helping 3 (791.), fix 6 (405.), dream 5 (486.), dreamers 4 (614.), dreams 1 (1917.), mess 5 (523.), plan 18 (123.), planned 2 (1261.), plans 2 (1262.), accountable 2 (968.), transparency/transparent 1/1 (2436./2437.), birthright 4 (594.), briefing 4 (597.), view 3 (915.), vision 3 (917.), challenge/challenges 2/5 (1022./476.), purpose 3 (850.), productive 3 (849.), revive 3 (860.).

### **Climate and environment**

climate 3 (730.)

- **Energy**

Energy 28 (78.), fracking 6 (406.), oil 3 (831.), coal 2 (1034.)

### **Future and innovation**

new 23 (88.), future 7 (344.), innovation 5 (508.), INNOVATOR5 (509.)

- **Election**

election 7 (336.), candidates 8 (288.), candidate 2 (1014.), vote 8 (318.), congress 15 (144.), congressional 2 (1042.), campaign 4 (600.), voters 13 (190.), votes 3 (919.), run 7 (362.), running 4 (673.), runs 2 (1334.), bureau 4 (598.), legislation 3 (815.).

- **State and Government**

Government 38 (51.), Government's 3 (783.), federal 27 (80.), office 10 (240.), administration 16 (132.), power 15 (150.), Administration 16 (132.), administrative 3 (712.), leader 13 (185.), leaders 3 (811.), leadership 3 (812.), leading 11 (209.), lead 5 (514.), led 2 (1203.), homeland 2 (1167.).

### **Foreign relations of the USA (countries):**

China 51 (32.), Chinese 8 (290.)

Russia/Ukraine 1 (2307.)

Ukraine 11 (223.)

Russia 9 (277.)

Russian 4 (674.)

Iraq 2 (1186.)

Afghanistan 1 (1708.)

nato 5 (528.)

Putin 6 (436.), Reagan 30 (72.), Reagan's 3 (853.)

## **GRAMMAR WORDS2**

we're 91 (2.), we've 38 (54.), we'll 18 (125.), let 31 (68.), let's 25 (84.)

I'm 56 (23.), I'll 26 (81.), I've 21 (98.)

You're 33 (65.), you've 11 (229.), you'll 6 (459.)

They're 33 (63.)

will 72 (12.), going 130 (1.)

can 62 (17.), can't 17 (126.)

## **CONTENT WORDS2**

get 90 (3.), got 49 (33.), getting 9 (265.), gets 5 (498.), gotten 2 (1152.)

know 29 (76.), knowing/known/knows 2/2/2(1199./1200./1201.) think 53 (29.), thought 9 (280.)

## **DEBATE 3**

### **SOCIETY3**

people 70 (10.), community 2 (1079.), people's 1 (2170.), personal 4 (653.), public 1 (2230.), country 71 (9.), states 42 (38.), american 37 (44.) -americans 33 (56.), pro-american 1 (2217.), united 35 (53.), america 42 (35.) – america's 7 (311.), national 20 (103.), nation/nations 11(205) /6 (411), city 5 (456.), world 22 (90.)-world's 3(962.), countries 6 (387.), citizen 1 (1754.), home 21 (96.) kids 13 (173.), everybody 9 (244.), human 5 (484.), children 3 (755.), man 5 (497.), human 5 (484.), family 9 (245.), parents 7 (349.), young 6 (442.), everyone 5 (474), friends 7 (329.) -friend 3 (813.), generation 12 (182.), men 6 (408.), boy 1 (1715.), child 5 (453.), anyone 2 (1014.) -anyone's 1 (1662.), folks 2 (1163.), mom/moms/mothers 1/2/1(2114./1244./2120.), woman 4(708.), women 3 (961.).

### **EDUCATION3**

Education 1 (1864.), school 2 (1336.), course 4 (576.), library 6 (404.), read 1 (2245), reason 14 (160.), students 10 (236.), student 3 (937.)

### **ECONOMY3**

Economy 15 (145.), spending 17 (128.), job 9 (251.), jobs 7 (333.), funding 8 (283.), debt 16 (133.), work 18 (124.), network 9 (256.), hard-earned 1 (1975.), working 7 (364.), worked 2 (1435.), working 7 (364.), works 5 (542.), workflow 2 (1436.), workforce 1 (2489.), business 2 (1050.), businesses 5 (450.), money 18 (122.), resources 15 (150.), inflation 10 (225.), retirement 11 (207.), customers 2 (1101.), customer 3 (770.), cut 10 (220.), spending 17 (128.), buying 6 (377.), bidenomics 2 (1041.), economic 14 (159.), prices 19 (112.), entrepreneur 1 (1884.), pay 12 (186.), inflation 10 (225.), taxes 9 (264.), tax 22 (87.), taxpayer 2 (1386.), union 4 (698.), wages 5 (535.), budget 4 (562.), companies 4 (575.), company 5 (461.), gold 13 (170.), dollars 11 (198.), property 5 (505.), growth 3 (823.), boost 4 (557.), customers 2 (1101.).

## **HEALTH3**

abortion 8 (268), pro-life 13 (178.), drug 4 (590.), drugs 1 (1858.), mental 4 (637.), health 4 (620.), sports 2 (1361.).

### **PRESS/MEDIA3**

media 11 (204.), press 4 (656.), news 15 (148.), tiktok 19 (115.).

### **BELIEFS AND VALUES3**

God 4 (615.), values 4 (699.).

### **MILITARY3**

war 22 (89.), wars 11 (213.), military 38 (42.), security 30 (66.), secure 3 (918.), killing 2 (1214.), force 6 (393.), defense 5 (464.), patrol 3 (887.), troops 6 (437.), weapons 1 (2474.), invasion 2 (1208.).

### **SECURITY3**

border 38 (40.), crime 3 (768.), fentanyl 16 (134.), enforcement 4 (593.), cartels 7 (318.), homeland 1 (1997), customs 2 (1102.).

### **LAWS AND JUSTICE3**

law 7 (334.), constitution 2 (1085.), justice 3 (847.), court 2 (1095.), rule 2 (1330.), rules 3 (913.), supreme 2 (1378.), regulations 2 (1309.), illegal 1 (2006.), legal 2 (1221.), civil 1 (1755.), crime 3 (768.), crimes 1 (1797.).

### **WORDS ABOUT POLITICS AND POLICY3**

political 4 (654.), policy 9 (258.), policies 2 (1278.)

#### **Words about policy:**

need 65 (15.), needs 7 (343.), want 38 (43.), issue 17 (126.), issues 11 (202.), problem 7 (352.), manufacturing 2(1236.), truth 4 (695.), real 6 (420.), protect 12 (187.), protected 2(1292.), care 12 (180.), bill 6 (375.), helped 4 (621.), help 20 (102.), helping 1 (1985.), dream 3 (786.), plan 15 (149.), accountable 4 (544.), transparency 2 (1402.), briefing 4 (559.), views 1 (2456.), vision 3 (956.), challenge/challenges 3/ 4 (753./569.), purpose 1 (2234.), revive 2 (1321.).

## **Climate and environment**

- Energy

Energy 21 (94.), fracking 3 (811.), oil 4 (648.), coal 1 (1763.)

## **Future and innovation**

new 21 (97.), future 5 (479.), innovation 2 (1202.)

- Election

election 8 (280.), candidates 16 (132.), candidate 6 (380.), vote 4 (701.), congress 7 (323.), congressional 1 (1778.), campaign 2 (1052.), voters 17 (130.), votes 4 (702.), run 4 (666.), running 5 (509.).

- State and government

Government 4 (616.), federal 15 (146.), office 4 (646.), administration 6 (366.), power 2 (1280.), leader 5 (493.), leaders 2 (1219.), leadership 8 (290.), leading 3 (855.), lead 8 (289.), led 2 (1220.), homeland 1 (1997.).

## **Foreign relations of the USA (countries):**

China 56 (20.),

Chinese 15 (144.)

Russia/Ukraine 1 (2291.),

Ukraine 32 (62.),

Russia 15 (151.)

Russian 6 (421.),

Iraq 10 (226.),

Afghanistan 4 (548.),

nato 3 (875.),

Putin 5 (507.), Reagan 1 (2246.), Reagan's 1 (2247.)

## **GRAMMAR WORDS3**

we're 65 (16.), we've 21 (99.), we'll 27 (77.), let 35 (49.), let's 35 (50.)

I'm 61 (18.), I'll 28 (71.), I've 9 (250.),

you're 25 (81.), you've 11 (215.), you'll 2 (1438.)

they're 37 (46.)

will 66 (14.), going 141 (1.)

can 80 (3.), can't 21 (91.)

## **CONTENT WORDS3**

get 68 (12.), got 24 (82.), getting 8(234.), gets 4 (613.)

know 49 (30.), knowing/knows 1/3 (2060./864.), think 50 (28.), thought 2 (1393.)

## **DEBATE 4**

### **SOCIETY4**

people 73 (14.), community 3 (783.), identity 7 (337.), people's 4 (664.), personal 2 (1281.), public 1 (2246.), country 56 (27.), states 24 (75.), american 33 (51.), americans 26 (66.), pro-american 1 (2237.), united 20 (97.), america 21 (89.), america's 3 (747.), national 12 (187.) -nation/nations 2/2 (1252./1253), world 10 (248.) -world's 2(1430.), countries 7 (325.), citizens 1 (1779.), home/homes 11/2 (198./1168.) - homeowner/homeownership 1/1 (2015./2016.), kids 13 (158.), everybody 10 (222.), human 2 (1173.), children 4 (594.), man 6 (409.),-human 2 (1173.) family 10 (223.), parents 14 (146.)-parent 4(663.), young 5 (562.) -younger 4 (728.), everyone 1 (1914), friends 3 (829.), friend 2 (1146.), generation 7 (332.), men 3 (862.), boys 6 (377.), child 5 (464.), anyone 6 (369.), anyone's 1 (1679.), girls 10 (224.), folks 2 (1139.), mom/mothers 1/1 (2147./2153.), husband 2 (1175.), woman 5 (558.), women's/women 2/1 (1428./2489.), gender 8 (287.), pro-life 2 (1295.).

### **EDUCATION4**

schools 6 (426.), school 5 (533.), library 4 (644.), read/reads 2/1 (1309./2273.), reason 6 (423.), teaching/teacher's 2/1 (1383./2414.), learned/learn/learning 4/3/1 (642./850./2096.), student 4 (702.), students 3 (912.), University 3 (922.), Universities 6 (439.)

### **ECONOMY4**

economy 8 (284.), economic 7 (327.), spending 17 (114.), job/jobs 11/2 (199./1203.), funding 2 (1148.), debt10 (218.), work/working/works/workflow/workers/workforce 12/6/3/2/1/1 (195./445./932./1429./2492/2493), network 10 (233.), let's 10 (231.), business/businesses 3/3 (771./772.), money 22 (86.), resources 4 (685.), inflation 9 (258.), hard-earned 3 (832.), customers 2 (1070.), tax/taxes 21/7 (92./358.), taxpayer/taxpayers 1/1 (2411./2412.), wealth 10 (245.), grow 2 (1154.), buy/buying 8/1 (277./1751.), pay/paying 7/5 (350./515.), loans 3 (853.), market 3 (859.), Employ/employed/employees/employment/unemployment1/1/1/1/1(1886./1887./1888./1889.2458.), unions 3 (921.), afford/affordable 3/2 (744./982.), broken 4 (585.), company/companies 10/3 (217./784.), bank/banks 9/2 (251./1007), financial 3 (823.), bankrupt 4 (575.), afford 3 (744.), donor 2 (1100.), fraud/fraudsters 2/2 (1144./1145.), hoax 2 (1166.), savings 12 (191.), currency/cryptocurrency 2/2 (1069./1066.), income 5 (492.).

#### **HEALTH4**

pro-life 2 (1295.), covid/covid-19/pre-covid 7/2/1 (326./1062./2226.), drug 5 (472.), medications 5 (508.), mental 4 (651.), health 8 (288.), sports 3 (906.), obamacare 2 (1258.), cancer 3 (774.), covid-19 2 (1062.), obamacare 2 (1258.), covid 7 (326.), mental 4 (651.).

#### **PRESS/MEDIA4**

news/newspaper 8/1 (292./2171.), media 10 (232.), press 4 (672.).

#### **BELIEFS AND VALUES4**

god 2 (1152.), faith 5 (477.), values 2 (1411.).

#### **MILITARY4**

war/warships 6/1 (440./2480), military 15 (137.), security 8 (301.), secure 4 (689.), killed/killing 7/2 (339./1207.), force/forces 3/1 (826./1950.), defend/defense 4/1 (604./1837.), patrol 1 (2202.), peace 2 (1279.), troops 10 (240.), invades/invading/invade/invasion 2/2/1/1 (1192./1193./2058./2059.), weaponize/weapons 1/1 (2482./2483.)

#### **SECURITY4**

border 17 (107.), crime/criminals/crimes 13/3/1 (172./791./1819.), fentanyl 14 (142.), enforcement/enforce 4/1 (614./1897.), homeland 1 (2014.), cartels/cartel 4/1 (588./1761.), intelligence 5 (494.), terrorism 2 (1385.), terrorists 7 (359.), cyber 2 (1072.).

#### **LAW AND JUSTICE4**

law/laws/lawsuits/lawyer 12/3/1 (185./848./2093./2094.) constitution/constitutional/unconstitutional 4/3/2 (597./785./1404.), justice 12 (184.), court 2 (1060.), rules 5 (531.), supreme 2 (1378.), jail 1 (2068.), bill/bills 12/3 (179./764.), regulations/regulate/regulated/regulation 3/2/2/1 (889./1318./1319./2287.), illegally/illegal/illegals 6/5/2 (399./491./1180.), civil 2 (1035.), criminals/crimes 1 (791./1819.), judicial 2 (1204.), legally 2 (1215.), legislation 2 (1216.).

#### **WORDS ABOUT POLITICS AND POLICY4**

political 3 (880.), policies 7 (351.), policy 15 (138.), politicians 5 (519.), campaign 8 (278.), neocons 2 (1254.), establishment 5 (475.).

- **Words about policy:**

need 55 (29.), needs 12 (188.), want/wants/wanted 49/12/4 (32./194./719.), issue/issues 30/8 (60./291.), problem 16 (127.), fact 21 (90.), truth 11 (208.), real 9 (266.), protect/protected/protective 13/4/1 (165./676./2243.), freedom 6 (391.), briefing 4 (584.), abuse 3 (737.), liberal 2 (1217.), care 9 (252.), help/helped 24/6 (72./398.), dream 3 (806.), fix 4 (622.), life-saving 5 (504.), modern 5 (511.), plan/plans 11/1 (203./2209.), accountable/accountability 3/1 (738./1648.), algorithms 3 (745.), envision/vision 3/2 (819./1416.), purpose/purposefully 2/1 (1304./2252.), administration 12 (176.), trust 10 (241.), involved 5 (495.), involve/involvement 3/3 (842./843.), plan 11 (203.).

#### **CLIMATE AND ENVIRONMENT4**

climate 6 (381.), environment 1 (1908.).

- **Energy**

Energy 1 (1896.), oil 2 (1263.)

#### **Future and innovation**

new 25 (70.), future 3 (830.)

- **Election**

Election/elections/reelection 17/3/1 (109./814./2280.), candidates/candidate 5/3 (463./775.), vote/voters/votes/voter 10/8/3/2 (243./313./924./1419.), congress/congressional 8/1 (281./1802.), campaign 8 (278.), running/run 5/2 (532./1333.), legislation/legislator 2/1 (1216./2101.)

- **State and government**

Government/governmental/governance 34/1/1 (50./1981./1980.), federal 15 (133.), office 7 (348.), power 4 (670.), bureaucracy/bureaucrats 2/1 (1021./1747), administration/administrative/administration's 12/3/1 (176./742./1657.), leader/leaders/leadership/lead/led 6/4/4/3 (407./640./641./849./2099.).

**Foreign relations of the USA (countries):**

China 39 (45.),  
Ukraine 14 (152.),  
Russia-Ukraine 1 (2324.),  
Russia 8 (299.),  
Russian 2 (1334.),  
Europe 5 (476.),  
Afghanistan 1 (1665.),  
Putin 6 (422.), Reagan 8 (296.).

**GRAMMAR WORDS4**

we're 63 (21.), we've 23 (82.), we'll 8 (314.), let 33 (53.), let's 10 (231.)  
I've 10 (230.), I'd 5 (497.)  
you're 40 (44.), you've 18 (106.), you'll 2 (1435.)  
they're 23 (81)  
will 68 (16.), going 135 (1.)  
can 66 (17.), can't 12 (180.), might 4 (653.)

**CONTENT WORDS4**

get 70 (15.), got 46 (37.), getting 4 (625.), gets 5 (484.)  
know 41 (43.), knowing/known/knows 6/1/7 (406./ 2088./,340.), think 81 (9.), thought 6 (435.),

**Others:**

promising 3 (884.), guy 5 (486.), infiltration 3 (839.), integrity 3 (840.), jinning 3 (845.), jews/jew 3/1 (844./2070.), puppet 5 (524.), genocide 2 (1150.), global 2 (1151.), algorithms 3 (745.), apps 3 (750.), freelancers 3 (828.), chaos 4 (593.), race 12 (189.).

**DEBATE 5**

**SOCIETY5**

people 91 (11.), community 1 (1771.), people 91 (11.), people's 2 (1229.), personal 2 (1232.), public 2 (1255.), country 88(12.), states 44 (37.), american 22 (86.) -americans 18 (112.), pro-american 1 (2224.), united 28 (72.), america 17 (120.) – america's 2 (948.), national 16 (134.) -nation/nations 2/9 (1209./251), cities 12 (171.), world 14 (158.) -world's 2(1379.), countries 3 (704.), citizens 2 (1001.), home 9 (243.), kids 29 (66.), everybody 6 (371.), human 3 (748.), children 6 (365.), man 2 (1186.), human 3 (748.), family 2 (1083.), parents 10 (286.)-parent 3(791.), young 2 (1381.) -younger 1 (2498.), everyone 3 (723), friends 8 (280.) -friend 7 (320.), generation 1 (1946.), men 3 (775.), boys 6 (360.), child 3 (693.), anyone 4 (506.), girls 7 (322.), folks 9 (240.), mom 2(1203.), husband 2 (1136.), woman 3 (881.), women's/women 2/7 (1374./356.).

**EDUCATION5**

Schools 9 (258.), course 9 (236.), library 4 (583.), read 4 (603.), reason 9 (255.), taught 4 (627.), teachers 6 (398.), learn 2 (1172.), student 1 (2389.), students 2 (1312.)

**ECONOMY5**

Economy 12 (173.), spending 9 (260.), job 8 (285.), funding 3 (732.), debt 19 (108.), work 9 (263.), business 7 (309.), money 26 (77.), resources 9 (256.), inflation 9 (244.), retirement 12 (179.), customers 2 (1031.), working 5 (494.), spend 3 (838.), buy 3 (681.), taxes 11 (197.), growing 1 (1965.), buying 4 (518.), economic 6 (369.), paying 7 (337.), tax 33 (54.), unemployment 3 (866.), unions 3 (867.), afford 4 (501.), company 2 (1011.), dollars 15 (140.), workforce 2 (1378.)

## **HEALTH5**

abortion 5 (412.), pro-life 8 (292.), covid 13 (162.), drug 2 (1054.), mental 20 (101.), health 20 (97.), sports 3 (839.)

## **PRESS/MEDIA5**

news 7 (333.), media 9 (248.), press 3 (800.)

## **BELIEFS AND VALUES5**

god 4 (561.), faith 1 (1901.), values 1 (2463.)

## **MILITARY5**

War 20 (104.), military 11 (189.), navy 3 (783.), security 25 (80.), secure 4 (609.), killing 1 (2060.), force 3 (729.), defense 5 (432.), patrol 2 (1225.), troops 3 (860.), weaponization 2 (1369.), killed 4 (578.), battle 1 (1676.)

## **SECURITY5**

Border 15 (138.), crime 8 (274.), fentanyl 2 (1092.), enforcement 4 (546.)

## **LAWS AND JUSTICE5**

law 21 (93.), constitution 19 (107.), justice 1(2051.), court 4 (533.), rule 3 (831.), supreme 1 (2401.), jail 3 (757.), rules 2 (1283.), bill 13 (161.), illegal 12 (176.), prosecutors 2 (1252.)

## **WORDS ABOUT POLITICS AND POLICY5**

political 7 (339.), policies 7 (338.), policy 8 (291.), politician 1 (2204.), politicians 1 (2205.), need 105 (8.), needs 11 (190.), want 69 (18.), issue 17 (127.), administration 9 (229.), issues 18 (115.), problem 22 (88.), problems 2 (1247.), fact 30 (63.), truth 3 (861.), real 3 (813.), protect 6 (387.), freedom 4 (555.), briefing 4 (516.), care 10 (208.), help 11 (187.), dream 1 (1846.), fix 5 (439.), mess 3 (776.), plan 5 (463.), accountability 2 (935.), accountable 9 (228.), transparency 2 (1345.), view 7 (354.), visions 1 (2473.).

## **Climate and environment**

climate 5 (424.), environment 3 (722.)

- **Energy**

Energy 11 (185.), coal 2 (1007.)

## **Future and innovation**

new 14 (153.), future 3 (733.), innovation 2 (1144.)

- **Election**

election 14 (149.), candidates 3 (682.), vote 5 (490.), congress 8 (273.), campaign 18 (114.), voters 8 (301.), run 13 (168.), bureau 1 (1719.), legislation 5 (453.), votes 5 (491.)

- **State and government**

Government 17 (126.), federal 17 (125.), office 11 (191.), power 7 (340.), leader 9 (245.), leadership 10 (214.), lead 4 (582.), led 2 (1173.)

## **Foreign relations of the USA (countries):**

China 48 (30.)

Ukraine 22 (90.)

Russia 9 (257.)

Iraq 4 (575.)

Europe 1 (1885.)

nato 4 (593.)

## **GRAMMAR WORDS5**

we're 81(13.), we've 37 (48.), we'll 20 (105.), let 20 (98.), let's 14 (152.)

I'm 47 (32.), I'll 13 (166.), I've 27 (75.), I'd 2 (1159.)

you're 42 (39.), you've 18 (118.), you'll 4 (641.)

will 47 (35.), going 176 (2.)

can 59 (27.), can't 38 (43.), might 5 (458.)

## **CONTENT WORDS5**

get 64 (21.), got 53 (29.), getting 9 (241.), gets 5 (441.)

know 37 (44.), knowing/known/knows 1/1/4 (2061./2062./580), think 96 (10.), thought 2 (133)

**13. BRIEF INFORMATION ABOUT THE PARTICIPANT MODERATORS AND LOCATIONS AND DATES OF THE 2024 REPUBLICAN PRIMARY DEBATES**

**DEBATE 1**

**August 23, 2023**

**Location:** The Fiserv Forum in Milwaukee, Wisconsin

**PARTICIPANTS:**

Governor Doug Burgum (ND);  
Former Governor Chris Christie (NJ);  
Governor Ron DeSantis (FL);  
Former Governor Nikki Haley (SC);  
Former Governor Asa Hutchinson (AR);  
Former Vice President Mike Pence;  
Vivek Ramaswamy;  
Senator Tim Scott (SC);

**MODERATORS:**

**MODERATORS:**

Bret Baier (Fox News); and  
Martha MacCallum (Fox News)

**DEBATE 2 September 27, 2023**

**Location:** The Ronald Reagan Presidential Library in Simi Valley, California

**PARTICIPANTS:**

Governor Doug Burgum (ND);  
Former Governor Chris Christie (NJ);  
Governor Ron DeSantis (FL);  
Former Governor Nikki Haley (SC);  
Former Vice President Mike Pence;  
Vivek Ramaswamy;  
Senator Tim Scott (SC);

**MODERATORS:**

Ilia Calderon (Univision);  
Dana Perino (Fox News); and  
Stuart Varney (Fox Business)

**DEBATE 3**

**November 08, 2023**

**Location:** The Adrienne Arsht Center in Miami, Florida

**PARTICIPANTS:**

Former Governor Chris Christie (NJ);  
Governor Ron DeSantis (FL);  
Former Governor Nikki Haley (SC);  
Vivek Ramaswamy;  
Senator Tim Scott (SC);

**MODERATORS:**

Hugh Hewitt (Salem Media Group);

Lester Holt (NBC News); and  
Kristen Welker (NBC News)

#### **DEBATE 4**

**December 06, 2023**

**Location:** The University of Alabama

#### **PARTICIPANTS:**

Former Governor Chris Christie (NJ);  
Governor Ron DeSantis (FL);  
Former Governor Nikki Haley (SC); and  
Vivek Ramaswamy

#### **MODERATORS:**

Eliana Johnson (Washington Free Beacon);  
Megyn Kelly (SiriusXM); and  
Elizabeth Vargas (News Nation)

#### **DEBATE 5**

**January 10, 2024**

**Location:** Drake University in Des Moines, Iowa,

#### **PARTICIPANTS:**

Governor Ron DeSantis (FL); and  
Former Governor Nikki Haley (SC);

#### **MODERATORS:**

Dana Bash (CNN); and  
Jake Tapper (CNN)

#### **CONCLUSION**

To advance in the direction of the transdisciplinary approach, it is essential that researchers from a diverse range of disciplines engage in a collaborative effort to devise effective educational strategies that address the policy issues in question in greater depth. This is the very reason this book has been authored by one academic from the field of English language teaching, one from Computer Science, and one from Mathematics. In line with the characteristics of computational social science, the book deals with social issues treated with tools of analysis from computer science. Among the individual words with relatively high frequency, there was an adequate number of items in the word cloud list produced with free-of-charge services of wordclouds.com. Since this tool is limited to individual words, another free-of-charge computer tool was used to obtain lists of word strings of two, three, four, five, and six words. Observing the word cloud lists and N-gram lists, it was possible to see words and word strings with implications for the discourse of election events.

This comprehensive natural language processing analysis revealed important insights in the texts of three GOP presidential debates. The text summarisation component showed that the debates were primarily shaped around the economy (inflation, tax policies), foreign policy (Ukraine war, Israel-Hamas conflict, China relations), immigration and border security, education reform, and social issues (abortion rights, crime). Sentiment analysis revealed intense emotional shifts between the candidates, particularly on foreign policy and Trump's legacy, highlighting sharp tonal differences between Ramaswamy and the other candidates. The categorical analysis showed that the debates were dominated by economic issues, foreign policy, domestic security issues and social policies. This NLP analysis demonstrated the



effectiveness of automatic text processing techniques in understanding political discourse and evaluating candidate positions, and was successful in revealing key policy differences and priorities within the Republican Party.

Due to the overwhelming scope, it was decided to focus on the 2024 Republican Presidential primary debates in this book. The parts of discourse in the debates were primed to highlight important utterances by the candidates. The primed samples of the rhetoric in these primaries do not only feature the pros but also the cons, which is the reason it should be made use of. The discourse is in favor of open discussion and free speech. Another advantage is to do with the prominent candidates being an outsider who spoke his mind eloquently and avoided being hesitant pretender with exaggerated political correctness.

Since words matter for rhetorics rich in issues and policies the findings suggested that the debates covered in the book can be converted to a learning tool with which learners are likely to engage and benefit from the process. Although the setting is a US setting, the implications, or at least a certain amount of implications had a universal appeal. Future studies might focus on one-on-one presidential debates, one-on-one interviews with the presidential candidate or vice presidential candidate, town halls, and rallies.

The study has implications for content-based instruction, an approach to language instruction. However, to interpret these implications correctly, awareness should be raised as to the fact expressed by Brinton (Donna Brinton.Pdf, n.d.) that the concept of the content-based approach is a broader approach than the disciplined-based language instruction, which is more limited compared to the content-based approach to which it belongs to. Steinberg and Sciarini (2006, p. 155) summarize the three main features Content-Based Instruction (CBI) is built upon. First, it is texts and discourse that are viewed as a base for the instruction of language as a result of the focus on language as a means of obtaining information, construction, and delivery of which is realized in texts and discourse. Second, it is imperative that mastery of real language skills be approached in a holistic manner given their inherent interconnectedness. Third, language is assumed to be purposeful. A second language (L2) is learned better when it is used for the purpose of getting “information, that is interesting, useful, and leads to a desired goal. Thus it becomes essential for the learners to realize the purpose of the language samples they are studying, and link it to their own goals”. Third, When people employ L2 to acquire information, that is of interest and use, and which is goal-directed, they will be more successful in learning it (Steinberg & Sciarini, 2006, p. 155).

Implementation of CBI may be combined with tasks in the same way as elaborated in Zengin et al. (2023, p.5). With the implementation running “along both themes and tasks. Co-construction of concept networks with teacher-student interaction includes central themes and concepts associated with them and this synergetic co-construction can be through tasks.” Facilitation of the skills integration in the task-based approach is realized by completing meaningful language tasks, which can be related to a specific body of content although this is not a prerequisite (Scarcella & Oxford, 1992). Corrales and Maloof (2011) have noted and highlighted the reflection of motivation in foreign language learners' feelings when supported with topics, materials, and activities that are of relevance, interest, and use to them.

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