Running head: ATTENTION IN WAR DECISIONS

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- Focus on the Target: The Role of Attentional Focus in Decisions about War and Peace
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Abstract

Choosing to start a war carries with it great consequences; therefore, it is of utmost 12 importance to understand what predicts support for war. We examined how word use 13 predicted support for military action in the U.S. Congress. Previous research has tied 14 political language to legislative success, party differences, and war, while others have 15 examined the role of the executive and public support for war. However, the role of the 16 legislative in war has been understudied. The present study hypothesized that word 17 frequencies of function and content words would predict support for military action in the 18 U.S. Congress. From the Congressional Record, speeches were obtained pertaining to the 19 decisions for the U.S. to take military action in Kosovo, Iraq, and Libya. We found the use of singular third person pronouns to strongly relate to support for war among both senators and representatives. 22

Keywords: language, war, congress, pronouns, verbs

In the last few years, numerous civil disputes worldwide, which might threaten 25 American interests and human rights, have spurred considerable debate over American 26 military intervention. In fact, throughout history, nations were periodically faced with 27 choices about a declaration of war. Over the past two decades, the U.S. and its allies have faced a variety of international threats and difficulties including possible nuclear weapons, hostile/unfriendly nations such as Iran, and human rights abuses and genocide in Sudan and other nations. Despite declines in legislative control of foreign policy, the U.S. Congress still plays an important role in deciding how the military is used by retaining the rights to formally declare war, limit the use of military force, and control military appropriations (Phelps & Boylan, 2002). Previous research examined the predictors of presidential use of military force (Clark & Nordstrom, 2005; Keller & Foster, 2012) and predictors of public support for war (Cohrs & Moschner, 2002; Friese, Fishman, Beatson, Sauerwein, & Rip, 2009; McCleary, Nalls, & Williams, 2009). However, the predictors of legislative support of military action have been understudied, thus, presenting an interesting opportunity for exploration (Kriner & Shen, 2014). In this study, we sought to determine predictors of 39 congressional support of military action by using language as a predictor which is a common measure in studies of politics (Blaxill, 2013; Crew Jr. & Lewis, 2011; Jarvis, 2004; Slatcher, Chung, Pennebaker, & Stone, 2007) and conflict (Kriner & Shen, 2014; Leudar, Marsland, & Nekvapil, 2004; Pennebaker, 2011). Furthermore, we explored if the most basic and objective components of language, word frequencies, could be used as practical predictors of support of conflict.

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### 46 Politics and Content

A wide variety of predictor and outcome measures have been previously examined to
determine the role of the executive in conflict. Clark and Nordstrom (2005) focused on
political factors influencing the probability that an executive in a democracy would engage in

conflict and found that low levels of citizen political participation, opposing party majority in the legislature, and greater legislative control of foreign policy was associated with lower 51 probability that the executive would engage in conflict. Keller and Foster (2012) used 52 leadership trait analysis, which is a content analytic method developed by Hermann (2005), to classify executives' leadership style based on their language patterns and to examine how U.S. presidents' locus of control related to their willingness to use military force abroad to divert attention from domestic problems. Keller and Foster found that presidents high in internal locus of control were more likely to engage military forces internationally and this relationship was mediated by domestic factors, such as the gross domestic product (GDP), indicating these presidents could use international conflict as a diversionary tactic. Leudar et al. (2004) used membership categorization analysis, which examines how people use words to identify with groups as well as to orient to events, in an exploration of how George W. Bush, Tony Blair, and Osama bin Laden used language to frame the events surrounding 9/11 and to orient to future action. All three leaders used language to set up an us versus them dichotomy, distinguishing allies and enemies; Bush and Blair used political and moral language to accomplish this separation, while bin Laden used religious language.

Turning to research on public opinion, Cohrs and Moschner (2002) conducted a study
in Germany examining predictors of students' attitudes toward the war in Kosovo, and they
found militarism, diffuse political support, and authoritarianism predicted support for the
war. They also found some evidence of confirmation bias whereas those who were against the
war sought out information to strengthen that belief. McCleary et al. (2009) found similar
results in a study of U.S. college students regarding support for the war in Iraq, and they
found that blind patriotism (conceptually similar to diffuse political support), militarism,
and concern for national security predicted continuing support for the war. A different study
by Friese et al. (2009) found that political orientation predicted support for conflict in Iraq,
but this relationship was mediated by attributions of responsibility for the war such that
those who believed or were led to believe that U.S. leaders lied about weapons of mass

destruction had much less support for the war.

Both the role of the legislative in conflict and individual word frequencies have been 78 under explored in their relationship to military conflict. Kriner and Shen (2014) studied speeches pertaining to the course of the Iraq War in the House of Representatives and found that antiwar rhetoric by Democrats increased as the number of casualties in the war increased, and specifically, the number of casualties from representatives' districts. A speech was coded as antiwar if it argued that the initial invasion was a mistake or that troops should be withdrawn; for instance, if the congressman discussed causalities as unacceptably high or argued that the invasion was unjustified as Saddam Hussein posed no immediate threat, that speech was coded as antiwar. Furthermore, number of casualties also predicted antiwar voting by Democrats, and antiwar rhetoric by representatives was positively 87 correlated with antiwar attitudes held by their constituents. In examining war discourse, Kriner and Shen (2014) only surveyed whether the overall content of each speech was prowar or antiwar not the specifics of the language used. Brett et al. (2007) examined individual word use but focused on resolutions in business conflicts. They found that greater use of negative emotion words, such as hurt or hate, and command words, such as ought or must, decreased the likelihood of conflict resolution while greater use of causal words, such as because or hence, and inhibition words, such as constrain or stop, increased the likelihood of conflict resolution. The current study combines these ideas by using the focus of the Kriner and Shen (2014) study, war rhetoric in Congress, and the methods of the Brett et al. (2007) study with word frequencies as predictors.

### 98 Language Analysis

Discourse is the fusion of content and style words. Within any given sample of language, content words answer the question of what is being said, while style words answer the question of how it is being said. Content words include mostly nouns, verbs, and adjectives, and style words include mostly pronouns, prepositions, articles, conjunctions,

negations, and quantifiers (Pennebaker, 2011). The Linguistic Inquiry and Word Count 103 (LIWC; Pennebaker, Booth, & Frances, 2007) is a program developed to summarize these 104 words and others broken down into 82 language categories. Besides style words, the LIWC 105 measures constructs including: a) cognitive mechanisms, such as know, because, and none 106 reflecting causation, exclusivity, and certainty, b) social and emotional words, which include 107 words reflecting social processes and positive and negative emotion, c) relativity, such as qo, 108 down, and until reflecting motion, space, and time, d) and personal concerns, which include 109 words reflecting achievement, money, death, and religion among others. Discourse analysis 110 has become a popular trend to understand psychological correlates tied to language. 111 Tausczik and Pennebaker (2010) reviewed over 100 articles that used language as a basis for 112 studying other constructs; specifically, these studies investigated how categories in the LIWC 113 are related to psychological phenomena, such as attention, emotionality, dominance, and deception. 115

### 116 Attentional Focus

Just as a person's gaze can illuminate where their attention is so can the words they 117 use. Specifically, pronouns and verb tense can demonstrate attentional focus by indicating 118 who or what someone is attending to in a situation and how they are processing the 119 situation. Therefore, greater use of first person pronouns indicated a self focus, third person 120 pronouns indicated a focus on others, and verb tense indicated whether the focus was on 121 past, present, or future events (Tausczik & Pennebaker, 2010). Attentional focus in the form 122 of pronouns has been linked to depression (Rude, Gortner, & Pennebaker, 2004), bullying (Kowalski, 2000), and marital satisfaction (Simmons, Gordon, & Chambless, 2005). Little research has examined the attentional focus in intergroup conflict situations. Abe (2012), 125 examining a forum discussing the Iraq War in 2002-2003, found supporters of the war tended 126 to have an external focus, using more third person pronouns, and tended to use more time 127 related words. Matsumoto, Frank, and Hwang (2015) also found greater use of plural third 128

person pronouns (i.e., we, us) predicted aggressive acts by groups by examining historical texts. Based on these studies as well as previous research on intergroup conflict, we suggest those who perceive greater threat to the ingroup may focus more negative attention on the outgroup and focus on past events between the groups (Meeus, Duriez, Vanbeselaere, Phalet, & Kuppens, 2009). The purpose of the current studies is to determine if attentional focus is different for members of Congress who support war measures versus those who oppose them.

### 135 Hypotheses

H1: Supporters of war measures will focus on other people and will therefore use more third person pronouns (Abe, 2012; Matsumoto et al., 2015).

H2: Supporters of wars measures will focus on past events and will therefore use more past tense verbs (Abe, 2012).

140 Method

# Language Samples

Linguistic frequency analysis was conducted on political speeches gleaned from 142 Congress. The source of language samples was the Congressional Record, a searchable 143 database containing a record of each session of Congress since 1995 available at https://www.congress.gov/congressional-record, which is maintained by the U.S. Government 145 Publishing Office. For this study, we searched for pertinent speeches from January 27, 1998 146 to September 19, 2013. Records were included if they pertained to U.S. relations with the following countries: Iraq, Libya, and Kosovo (see below for explanation of country selection). Samples were split by session date and person speaking, and therefore, each person could be represented multiple times in the dataset. Each file in the Congressional Record includes all 150 speeches from the day selected, therefore, we separated each person's speeches by day into 151 different files for processing. For example, a Senator may respond back and forth with an 152 invited guest speaker, and all the Senators spoken words would be combined into one file for 153

that day. Only Senators and Representatives were included in this analysis. These speeches were then coded for party affiliation of the Congressperson. All processed data, as well as an R markdown document with data analysis scripts inline with this manuscript (Aust & Barth, 2017) can be found at https://osf.io/r8qp2/.

#### 58 Variables

Each language sample was analyzed using the Language Inquiry and Language. 159 Word Count (Pennebaker et al., 2007). We examined pronouns for Hypothesis 1 and verbs 160 for Hypothesis 2. The pronouns category included first person singular and plural pronouns 161 (I, me, we), second person pronouns (you, your), and third person singular and plural 162 pronouns (he, she, they). The verbs category included past, present, and future tense verbs 163 (went, does, will). The LIWC provides percentages of the text that fall into these categories. 164 **Military Action.** For the purpose of this study, military action was defined as 165 military personnel being sent into another nation to coerce the actions of that nation. In the 166 past 15 years, the U.S. has taken military action against Iraq, Afghanistan, Kosovo, and 167 Libya, although Congress did not explicitly approve action in Afghanistan or Libya. 168 Operational definitions for support for war were voting records (yay, nay) on bills 169 authorizing military action for Iraq, Kosovo, and Libya (only voted on in the House). These 170 bills were House Joint Resolution 114, 107th Congress (2002); Senate Concurrent Resolution 171 21, 106th Congress (1999); and House Joint Resolution 68, 112th Congress (2011). Oppose 172 or support information was combined with the LIWC percentages described above. 173

### Data Analytic Technique

The data collected include multiple language samples by the same senator and are structured by both party affiliation and region of interest. This structure was best analyzed with multilevel modeling, which allowed us to control for the correlated error terms of senator and party. We used the *nlme* package to calculate the means and standard deviation for each variable by voting recording (Pinheiro, Bates, Debroy, Sarkar, & Team, 2017). The

intercept was used to predict the dependent variable (LIWC category percent), which creates 180 a mean score for the dependent variable. Party affiliation and Congressperson name were 181 controlled as random intercept factors (Gelman, 2006). The standard error of the estimate 182 was translated into standard deviation by multiplying by the square root of n for the sample. 183 This analysis was bootstrapped using the boot library 1000 times, and the normal confidence 184 interval for the mean was calculated using this function (Canty & Ripley, 2017). These 185 values were separated by voting record, Senate/House, and country of interest. The means 186 and confidence intervals are presented in forest plots to show the relative percentages for 187 each combination. The bootstrapped standard deviation values were used to calculate  $d_s$ 188 values using the MOTE library with the pooled standard deviation as the denominator 189 (Buchanan, Valentine, & Scofield, 2017; Lakens, 2013). 190

### Study 1A - Kosovo in the House

In early 1998, violence erupted in the Serbian region of Kosovo between ethnic 192 Albanians and the Serbian government. A peace agreement later in the year lasted until the 193 beginning of 1999 when several Albanian civilians were killed, prompting a resurrection of 194 hostilities. When the Serbian government, namely President Slobodan Milosevic, failed to 195 concede to allowing a NATO peacekeeping force in Kosovo during February 1999 196 negotiations, NATO authorized air strikes against Serbian targets. This decision 197 subsequently prompted debate within the U.S. Congress as to the involvement of the U.S. 198 military in NATO's operations in Serbia and Kosovo (Woehrel & Kim, 2006). 199 In this study, we examine this debate in the U.S. House of Representatives to 200 determine if members of Congress who supported U.S. military involvement focused on 201 people or events differently than those who opposed it. 202

203 Method

Speeches made in the House of Representatives pertaining to the use of military force in Kosovo/Serbia were gathered from the Congressional Record available from the U.S.

Government Publishing Office. In total, 210 speeches were collected. Speeches were limited 206 to those made in the year preceding the vote on Senate Concurrent Resolution 21 made on 207 April 28, 1999 to allow the President to conduct air and missile strikes against Yugoslavia 208 (Serbia and Montenegro). This resolution failed in the House with 213-213 with 86% of 209 Democrats supporting the resolution and 84% of Republicans opposing. These speeches were 210 made by 156 unique speakers where where Republicans gave 108 speeches, Democrats gave 211 98 speeches, one Independent, one Non-Partisan, and two non-Representatives. Five speeches 212 were excluded for no voting record. The average word count was 700.51 (SD = 814.04). 213

214 Results

A forest plot of the results can be found in Figure 1, and all descriptive statistics can be found in Table 1. A small effect emerged for first-person singular pronouns and future tense verbs. Members of Congress who supported U.S. military action tended to use slightly more self-references and references to future actions.

### Study 1B - Kosovo in the Senate

In the second part of this study, we examined the Kosovo debate in the U.S. Senate to determine if the differences found in the first part of the study were also evident in the Senate.

223 Method

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Speeches were gathered in the same manner as in the first part of the study. All speeches made in the Senate in the year before the March 23, 1999 vote on Senate Concurrent Resolution 21. This resolution passed the Senate with 58 supporting and 41 opposing. All but 3 Democrats supported the resolution while 70% of Republicans opposed it. A total of 49 speeches were collected. These speeches were made by 25 unique senators with 12 speeches by Democrats and 37 by Republicans. The average word count for these speeches was 1413.14 (SD = 1076.37).

231 Results

Analyses were conducted in the same manner as the first part of the study with
bootstrapped means and CIs calculated for the seven categories marking attention. Results
can be seen as a forest plot in Figure 1 and Table 1. Sizable differences were found in the use
of first-person plural pronouns, third-person plural pronouns, and present-tense verbs.
Senators who opposed U.S. military involvement in Kosovo tended make more
group-references both to their own group and the outgroup. Senators opposed to the
legislation also tended to make more reference to current actions.

239 Discussion

The results of this first study are inconsistent and contrary to our hypotheses. The 240 results were inconsistent in that effects found for the House and Senate are non-overlapping. For the House, supporters of war used more first person and future tense verbs, while 242 opposition in the Senate used more third person and present tense verbs. It is difficult to 243 know exactly why this is the case; however there are several possible explanations. First, 244 voting in Congress is exceedingly complex and is influenced by much more than floor debates 245 in a given chamber. In this case, the Senate vote on the resolution occurred before the main 246 debate in the House, which may have influenced what the debate focused on. Second, the 247 Senate and the House are composed differently. Members of the House serve two year terms 248 while Senators serve six year terms. Furthermore, Senators typically have more political 249 experience than members of the House. These, as well as other factors, may help explain the 250 differential effects for the two chambers of Congress. 251

The results of the second part of this study were also contrary to our hypotheses. At least in the Senate, those who supported taking military action used fewer third person plural pronouns while there was no difference in third person singular pronouns. Those who supported military action also used fewer third person singular pronouns. This finding suggests that those who opposed military action focused on both on their ingroup and on the

outgroup. Based on the findings of Abe (2012) and Matsumoto et al. (2015), we expected 257 those who supported military action to show this focus. However, the results could be 258 explained by the situation posed by the particular resolution. In this conflict, rather than 259 responding to an act of aggression or a perceived threat, the U.S. was deciding the extent to 260 which the U.S. would be involved in ongoing NATO, a treaty organization of which the U.S. 261 is a member, operations in Kosovo and Serbia. It is possible that some viewed the outgroup 262 as NATO rather than Serbians. In this case, with no clear, immediate threat to the U.S., for 263 those making ingroup-outgroup distinctions, protecting the ingroup may have meant 264 opposing the war rather than supporting it. In order to determine if the situation 265 surrounding the Kosovo conflict may have impacted the first study, we next turned to 266 examine the Iraq War which was had more support and also represented a possible clear 267 threat to the U.S.

# Study 2A - Iraq in the House

In this next study, we examined the debate preceding the congressional approval of the 270 use of military force against Iraq. Regime change had been a long-standing position of the 271 U.S. toward Iraq following the Gulf War; however serious military action was not considered 272 until after the World Trade Center attacks on September 11, 2001. In 2002, President Bush 273 declared Iraq part of an "axis of evil" in his State of the Union address. Iraq's repeated 274 violations of nuclear arms agreements, ties to terrorist organizations, and pursuit of weapons 275 of mass destruction were argued by the Bush Administration to potentially pose a major 276 threat to U.S. national security. This prompted the debate within Congress as to whether or not to approve President Bush's request for military action (Katzman, 2002). These studies 278 were used to determine if the findings from the first study extend to a different conflict. Specifically, in the first part of this study, we examined the debate in the House of 280 Representatives to determine if members of Congress who supported taking military action 281 used more self and future references.

283 Method

Once again using the Government Publishing Office, we collected speeches given in the
House of Representatives pertaining to the use of U.S. military force against Iraq in the three
months before the vote on House Joint Resolution 114 on October 10, 2002. This bill passed
the House with a 296-133 majority; with most Republicans supporting the measure and 60%of Democrats opposing. A total of 274 speeches were collected representing 233 unique
speakers. Of these speeches, 155 speeches were made by Democrats, 119 were made by
Republicans. The average word count of the speeches was 742.34 (SD = 1053.45). Four
speeches were excluded for no voting record.

292 Results

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As in the first study, bootstrapped means and confidence intervals as well as effect sizes 293 (Cohen's d) were calculated for speeches of those supporting the measure versus those 294 opposing the measure for the following LIWC categories: first-person singular (I), 295 first-person plural (we), third-person singular (he, she), third-person plural (they), 296 past-tense, present-tense, and future tense. Results can be seen as a forest plot in Figure 2 297 and in Table 2. A non-zero effect size difference emerged in the use of third-person singular 298 pronouns. Representatives who supported the military measure used other references at a 290 higher rate than those who opposed taking military action. 300

### Study 2B - Iraq in the Senate

In the second part of this study, we examined the debate in the Senate. We wished to
determine if, like senators who opposed military action in Kosovo, senators who opposed
action against Iraq used more group references as well as more reference to current events.

 $\mathbf{Method}$ 

In this part of the study, speeches from the Senate were gathered for the 6 months
before the Senate vote on House Joint Resolution 114 conducted on October 11, 2002. The
bill passed with a 77-23 majority. All but one Republican supported the measure as did 58%of Democrats. In total, 138 speeches were collected representing 85 unique speakers. Of
these speeches, 74 were given by Democrats and 64 by Republicans. The average word count
for these speeches were 1991.23 (SD = 1671.70).

312 Results

Analyses were conducted in the same manner as the first part of the study to 313 determine differences between supporters and opponents of military action in Iraq in terms 314 of the use of first-person singular (I), first-person plural (we), third-person singular (he, she), 315 third-person plural (they), past-tense, present-tense, and future tense. Figure 2 displays 316 these results as a forest plot, and all values are in Table 2. A large difference was found in 317 the use of third-person singular pronouns as well as a smaller difference in the use of past 318 tense verbs. Senators who supported the military measure tended to use more other 319 references as well so as to be slightly more oriented to past events. 320

321 Discussion

The results from this second study more closely matched our hypotheses. For both the
House and Senate, members of Congress who supported taking military action used more
singular third person pronouns (he, his) than those who opposed taking military action.

Contrary to our hypothesis, no differences were found for plural third person pronouns (they,
theirs) meaning those who supported taking action made more references to others as specific
individuals and not as groups. Although this finding was not quite the result we expected,
these differences make sense in light of the situation. In the case of the Iraq War, the threat
was seen not as a group of people but rather a single individual, Saddam Hussein. Hence, for

supporters of military action, their focus was still external as was expected (Abe, 2012; 330 Matsumoto et al., 2015); however, their focus was on an individual rather than a group. 331 The second hypothesis was partially supported. In the Senate, those who supported 332 taking military action used more references to the past than those opposed to military action. 333 However, this difference was not found in the House. As was stated previously, this 334 difference in results could be due to voting procedures or compositional differences in the 335 House and Senate. As a final test of our hypotheses, we examined the Congressional debate 336 surrounding U.S. involvement in Libya during its 2011 civil war. We might expect to find 337 similar results to Study 1 as, like the Kosovo war, there was less support for U.S. military 338 involvement as well as a lack of a perceived clear, immediate threat to the U.S.

### Study 3 - Libya in the House

In this final study, we examine the debate in the House of Representatives surrounding
U.S. military involvement in Libya during its revolution. In February 2011, a revolt against
Libyan dictator, Muammar Qaddafi, prompted the intervention of NATO when Qaddafi
violently suppressed all opposition. The involvement of NATO lead to debate within
Congress as to the exact role of the U.S. in military operations in Libya and the extent of
U.S involvement (Blanchard, 2011). In examining this debate, we wished to determine if the
language of those who supported or opposed military action was similar to those of either of
the first two studies.

Method Method

In this final study, the Congressional Record was searched for speeches given in the
House of Representatives pertaining to the debate of the authorization of military action
against Libya in the three months before the vote on House Joint Resolution 68 on June 24,
2011. The bill failed in the House 123-295. All but 14 Republicans voted against the
resolution while 60% of Democrats supported the resolution. A total of 104 speeches were
collected representing 76 unique speakers. Democrats made 53 of these speeches while 51

speeches were made by Republicans. The average word count for these speeches was 465.93 (SD = 477.41). As the resolution failed in the House, it was not possible to examine this debate in the Senate. Five speeches were excluded for no voting record.

Results

As in the first two studies, analyses consisted on comparing the bootstrapped means,

CIs, and effects sizes for those who supported the military measure versus those who

opposed it on the following linguistic measures: first-person singular (I), first-person plural (we), third-person singular (he, she), third-person plural (they), past-tense, present-tense,

and future tense. These results are displayed in Figure 3 as a forest plot and in Table 3. No

differences emerged on any measure.

366 Discussion

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As might be expected given Study 1, no attentional differences between those who supported and opposed taking military action in Libya in the House of Representatives were found. This finding could indicate that in situations where there is less Congressional support for military action and no clear, immediate threat to the U.S., the difference between support and opposition for military action is not a matter of attention but other social and political forces.

# General Discussion

The most probable reason for these findings is the change in the dynamics of war.

Historically, the U.S. would declare war on another nation (i.e., fighting the Germans in

WWI). In WWII, a slight shift occurred where the U.S. was fighting not only another nation

but also an ideology (Nazi Germany, Fascist Italy). With the beginning of the Cold War,

another movement happened where the U.S. did not directly fight another nation (USSR)

but instead fought indirectly with proxy wars (Korean War, Vietnam War) while battling

against enemy ideology (Communism). After the Cold War and the fall of the Soviet Union,

the focus shifted to the United States' main conflict being the war on terror (Matthews,
2014). Furthermore, Balas, Owsiak, and Diehl (2012) argued that one possible motivation for
war, since the end of the Cold War, was the increased emphasis on the international norms
of democratization and humanitarianism. Hence, the use of singular third person pronouns
could reflect a focus on dictators violating human rights as a cause for conflict (i.e., Hussein
in Iraq, Milosevic in Kosovo, and Qaddafi in Libya). Furthermore, the use of masculine
pronouns would seem to lend some support for this explanation.

#### 388 Limitations

The sample and methods used in the study, while useful, can also be somewhat limited 380 in scope. First, even though the Congressional Record represents everything said on the floor 390 of Congress, it does not necessarily represent the entirety of Congress. Our sample 391 incorporates nearly 15 years in Congress. This time period encompassed seven election cycles 392 and at any given time, there are 100 senators and 435 congressmen and women. While our 393 data set likely included speeches from the more influential senators and congressmen and 394 women, we cannot predict voting from those who did not speak. Furthermore, our findings 395 regarding masculine versus feminine pronouns could be confounded by the 396 under-representation of women in Congress. In the 113th Congress, women comprised 20% 397 of the Senate and 18% of the House (Manning & Brudnick, 2014). For the years of voting 398 records we used, there were 96 women in Congress in 2011, 73 in 2002, and 67 in 1999 compared to 105 women in the current Congress. Another limitation is tied to using word frequency as an independent measure, although Tausczik and Pennebaker (2010) have provided support for this research. Word frequency is a meaningful measure of language, 402 though it does fail to take into account context, sarcasm, and other subtle aspects of 403 language.

### Future Directions

While word frequency is an interesting and relatively easy method of linguistic analysis, 406 other methods of content analysis could demonstrate usefulness in understanding support for 407 war. The current study focused on the three most recent conflicts in Congress, but the next 408 step might be to discover if pronoun use has changed in discussions of war in the last century. 409 Finally, we studied the U.S. Congress because of a dearth in the literature, and studies of 410 legislative bodies of other countries would be an excellent avenue to continue in this area. 411 From the present study, it is clear that language can be a useful tool to further our 412 understanding of the political process and its impact on war and peace. 413

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Table 1

Descriptive statistics for each dependent variable by chamber, region, and military support for Kosovo

Chamber	Region	DV	$M_O$	$SD_O$	$M_S$	$SD_S$	$d_s$	$d_s$ LL	$d_s$ UL
House	Kosovo	I	1.84	1.16	2.34	1.61	-0.36	-0.63	-0.08
House	Kosovo	We	3.12	1.56	2.91	2.06	0.11	-0.16	0.39
House	Kosovo	She/He	0.51	0.54	0.56	0.71	-0.08	-0.35	0.20
House	Kosovo	They	0.66	0.56	0.80	0.98	-0.18	-0.45	0.09
House	Kosovo	Past	1.91	1.18	1.78	1.30	0.12	-0.16	0.39
House	Kosovo	Present	7.27	1.98	6.69	2.57	0.25	-0.02	0.53
House	Kosovo	Future	1.34	0.77	1.64	1.08	-0.32	-0.59	-0.04
Senate	Kosovo	I	2.19	1.16	1.96	1.78	0.15	-0.41	0.71
Senate	Kosovo	We	3.13	1.89	1.54	0.57	1.18	0.56	1.78
Senate	Kosovo	She/He	0.44	0.82	0.47	0.40	-0.05	-0.61	0.51
Senate	Kosovo	They	0.79	0.62	0.53	0.36	0.51	-0.06	1.08
Senate	Kosovo	Past	2.02	1.16	2.05	0.72	-0.03	-0.59	0.53
Senate	Kosovo	Present	8.21	2.53	5.76	2.05	1.07	0.46	1.67
Senate	Kosovo	Future	1.20	0.41	1.08	0.67	0.22	-0.34	0.78

Note. Confidence intervals for  $d_s$  were calculated using non-central t distribution. O = Oppose, S = Support, LL = Lower Limit, UL = Upper Limit.

Table 2

Descriptive statistics for each dependent variable by chamber, region, and military support for Iraq

Chamber	Region	DV	$M_O$	$SD_O$	$M_S$	$SD_S$	$d_s$	$d_s$ LL	$d_s$ UL
House	Iraq	Ι	1.66	1.33	1.90	2.15	-0.13	-0.37	0.11
House	Iraq	We	3.01	1.61	2.76	1.37	0.17	-0.07	0.41
House	Iraq	She/He	0.56	0.56	1.16	0.92	-0.77	-1.02	-0.52
House	Iraq	They	0.46	0.51	0.49	1.36	-0.03	-0.27	0.21
House	Iraq	Past	1.33	1.14	1.52	1.12	-0.17	-0.41	0.07
House	Iraq	Present	6.33	1.96	6.35	1.62	-0.01	-0.25	0.23
House	Iraq	Future	1.49	0.81	1.35	0.61	0.20	-0.04	0.44
Senate	Iraq	I	1.99	1.25	1.98	1.60	0.01	-0.36	0.37
Senate	Iraq	We	2.47	0.97	2.61	1.15	-0.13	-0.50	0.23
Senate	Iraq	She/He	0.60	0.47	1.20	0.62	-1.03	-1.42	-0.65
Senate	Iraq	They	0.49	0.32	0.56	0.40	-0.19	-0.55	0.18
Senate	Iraq	Past	1.39	0.63	1.84	1.22	-0.42	-0.79	-0.05
Senate	Iraq	Present	6.51	2.16	6.93	2.07	-0.20	-0.57	0.16
Senate	Iraq	Future	1.47	0.59	1.29	0.53	0.32	-0.05	0.68

Note. Confidence intervals for  $d_s$  were calculated using non-central t distribution. O = Oppose, S = Support, LL = Lower Limit, UL = Upper Limit.

Table 3

Descriptive statistics for each dependent variable by chamber, region, and military support for Libya

Chamber	Region	DV	$M_O$	$SD_O$	$M_S$	$SD_S$	$d_s$	$d_s$ LL	$d_s$ UL
House	Libya	I	2.47	1.66	2.31	1.13	0.11	-0.31	0.53
House	Libya	We	3.08	2.22	2.89	1.87	0.09	-0.33	0.51
House	Libya	She/He	0.61	0.83	0.64	0.85	-0.04	-0.46	0.38
House	Libya	They	0.60	0.91	0.64	0.72	-0.04	-0.46	0.37
House	Libya	Past	1.63	1.18	2.16	2.22	-0.33	-0.75	0.09
House	Libya	Present	7.42	2.78	7.39	4.69	0.01	-0.41	0.42
House	Libya	Future	1.19	0.75	1.25	0.80	-0.07	-0.49	0.34

Note. Confidence intervals for  $d_s$  were calculated using non-central t distribution. O = Oppose, S = Support, LL = Lower Limit, UL = Upper Limit.

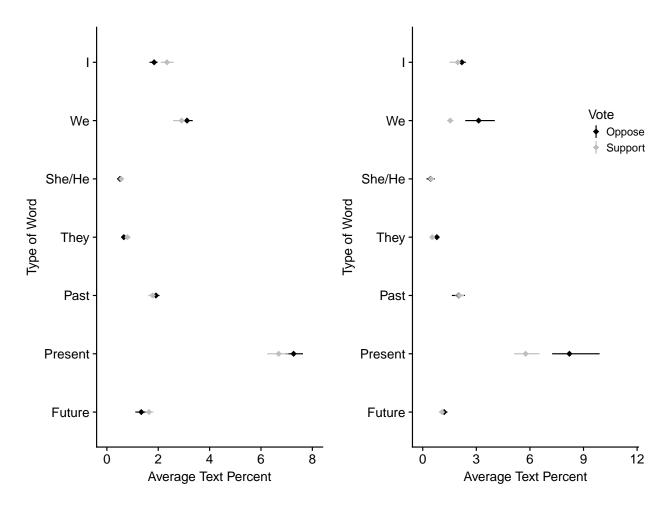


Figure 1. House (left) and Senate (right) bootstrapped means and 95% confidence interval for pronouns and verb tenses for Kosovo.

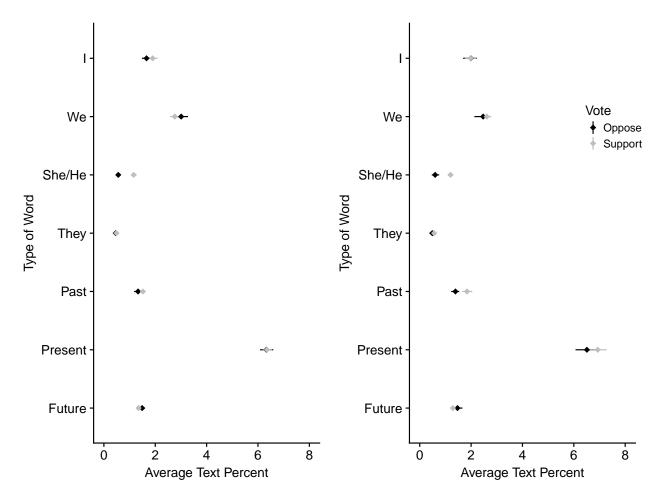


Figure 2. House (left) and Senate (right) bootstrapped means and 95% confidence interval for pronouns and verb tenses for Iraq.

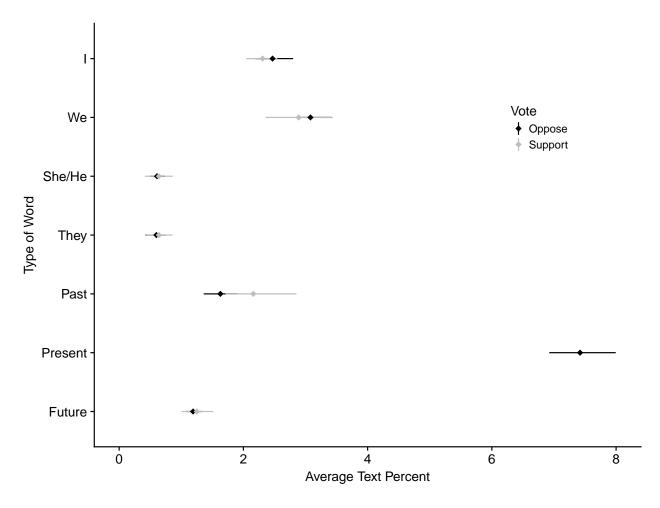


Figure 3. House (left) and Senate (right) bootstrapped means and 95% confidence interval for pronouns and verb tenses for Libya.