

1 Power motivations and risky sensitivity and
2 tolerance

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6 Abstract

One or two sentences providing a **basic introduction** to the field,
comprehensible to a scientist in any discipline.

7 *Keywords:* keywords

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1 Introduction

Throughout political history, tyrants and despots have influenced great power over large swaths of land and communities. One common thread amongst these individuals is how they wield their great power, often through dominant tactics such as threats and political subversion. Recent history has shown with individuals like Donald Trump, Jair Bolsonaro, and Rodrigo Duterte who display authoritarian traits often wield their power through fear and threats of violence.

1.1 Dominance, Prestige, and Leadership orientation

Research in power desire motives has focused on three sub-domains: dominance, leadership, and prestige (Suessenbach et al., 2019). Each of these three different power motives is explained as to different ways or methods that individuals in power sought power or were bestowed upon them. thi

1.1.1 Dominance

The dominance motive is one of the more researched methods and well-depicted power motives. Individuals with a dominant orientation display the more primal of human behavior. These individuals will seek power through direct methods such as asserting dominance, control over resources, or physically assaulting someone (Johnson & Bruner, 2012; Winter, 1993). Early research in dominance motives has shown that acts of dominance ranging from asserting physical dominance over another to physical displays of violence has been shown in many mammalian species, including humans (Petersen et al., 2018; Rosenthal et al., 2012). Individuals high in dominance are often high in Machiavellianism, narcissism, and often are prone to risky behavior (discussion further in the next section). Continued research has hinted at a possible tendency for males to display these dominant seeking traits more than females (Bareket & Shnabel, 2020; Sidanius et al., 2000). When high dominance individuals assert themselves they are doing so to increase their own individual sense of power (Anderson et al., 2012; Bierstedt, 1950). Asserting one's own sense of dominance over another can be a dangerous task. In the animal kingdom, it can often lead to injury. While, in humans asserting dominance can take a multitude of actions such as leering behaviors, physical distance, or other non-verbal methods to display dominance (Petersen et al., 2018; Witkower et al., 2020). Power from a dominant perspective is not always bestowed upon someone. Often, high dominance individuals will take control and hold onto it. [@]

79 **1.1.2 Prestige**

80 Contrary to the dominant motivation of using intimidation and aggression
81 to gain more power, a prestige motivation or prestige, in general, is bestowed upon
82 an individual from others in the community (Maner & Case, 2016; Suessenbach
83 et al., 2019). Different from the dominance motivation, a prestige motivation is
84 generally unique to the human species (Maner & Case, 2016). Due in part to
85 ancestral human groups being smaller hunter-gatherer societies, individuals that
86 displayed and used important behaviors beneficial to the larger group were often
87 valued and admired by the group. Therein, the social group bestows the authority
88 onto the individual. Generally, this type of behavior can be passively achieved by
89 the prestigious individual. However, this does not remove the intent of the actor
90 in that they too can see prestige from the group, but the method of achieving
91 that social status greatly differs from that of dominance-seeking individuals.
92 Apart from dominance-motivated individuals that continually have to fight for
93 their right to have power over others, individuals that seek or were given power
94 through a prestige motivation are not generally challenged in the same sense as
95 dominant individuals. Displaying behaviors that the community would see as
96 beneficial would endear them into the community making the survival of the
97 community as a whole better (Maner & Case, 2016). Evolutionarily this would
98 increase the viability of the prestigious individual and their genes. Similar to
99 the dominance perspective, the prestige perspective overall increases the power
100 and future survivability of the individual. However, due to the natural difference
101 between prestige and dominance, dominance-seeking individuals are challenged
102 more often resulting in more danger to their position (Johnson & Bruner, 2012).

103 **1.1.3 Leadership**

104 With a shared goal a leader is someone that takes initiative and attracting
105 followers for that shared goal (Van Vugt, 2006). Leadership is an interesting as-
106 pect of behavior in that it is almost exclusive to human interaction. Discussions by
107 evolutionary psychologists point to the formation of early human hunter-gatherer
108 groups where the close interconnectedness created a breeding ground for leader-
109 ship roles. As early humans began to evolve it would become advantageous for
110 individuals to work together for a common goal. In the case of some situations,
111 an individual with more knowledge of a situation would take charge. Multiple
112 explanations of the evolution of leadership exist such as coordination strategies,
113 safety, along with evidence for growth in social intelligence in humans.
114 An interesting aspect of leadership motivation is the verification of the qualities
115 of the leader by the communities. Individuals that are often put into leadership

116 roles or take a leadership role often display the necessary goals, qualities, and
117 knowledge to accomplish the shared/stated goal. However, this is not always the
118 case especially for those charismatic leaders where they could stay on as a leader
119 longer than the stated goal requires (Vugt & Ronay, 2014). Originally leadership
120 was seen to be fluid where those that had the necessary knowledge at the time
121 would be judged and appointed as the leader. However, these charismatic leaders
122 use their charisma, uniqueness, nerve, and talent to hold onto their status.

123 **1.2 Risk**

124 Every time people leave the relative safety of their home, every decision
125 they make they are taking some form of risk. Financial risk is often discussed
126 in the media usually concerning the stock market. However, the risk is not just
127 present in finances but also in social interactions such as social risk, sexual risk,
128 health and safety risk, recreational, and ethical risks. Each individual is different
129 in their likelihood and perception of participating in those risks. Some will be
130 more inclined to be more financially risky while others would risk their health
131 and safety.

132 Whether to engage in a risky situation is very complex depending on a cost-
133 benefit analysis. Do the positives outweigh the negatives? In practice, not all
134 individuals will do a cost-benefit analysis of a risky situation. Often, the timing of
135 an event makes such an analysis disadvantageous. The benefits are often relative
136 to the individual decision-maker. Differences emerge in the general likelihood to
137 engage in risky behavior such that males tend to be more likely to engage in
138 risky behaviors than their female counterparts. Women tended to avoid risky
139 situations except for social risks.

140 **1.3 The present study**

141 The present study sought to further our understanding of dominance, pres-
142 tige, and leadership motivations in human decision-making. Furthering this, we
143 seek to bridge the connection between risk-taking behaviors, from diverse do-
144 mains, and the dominance, prestige, and leadership orientations. Following the
145 literature, we predicted that participants that were high in dominance orientation
146 would be more likely to not only engage in risky behaviors but praise the ben-
147 efits of participating in those behaviors. Individuals with prestige or leadership
148 orientation.

2 Experiment 1

2.1 Methods

Participants were a convenience sample of 111 individuals from Prolific Academic’s crowdsourcing platform (www.prolific.io). Prolific Academic is an online crowdsourcing service that provides participants access to studies hosted on third-party websites. Participants were required to be 18 years of age or older and be able to read and understand English. Participants received £4.00, which is above the current minimum wage pro-rata in the United Kingdom, as compensation for completing the survey. The Psychology Research Ethics Committee at the University of Edinburgh approved all study procedures [ref: 212-2021/1]. The present study was pre-registered along with a copy of anonymized data and a copy of the R code is available at (<https://osf.io/s4j7y>).

2.2 Materials

2.2.1 Demographic Questionnaire

In a demographic questionnaire administered prior to the main survey, participants were invited to respond to questions about their self-identified demographic characteristics such as gender, ethnicity, and ethnic origin.

2.2.2 Dominance, Prestige, and Leadership Orientation

The 18-item Dominance, Prestige, and Leadership scale, DoPL (Suessenbach et al., 2019), is used to measure dominance, prestige, and leadership orientation. Each question corresponds to one of the three domains. Each domain is scored across six unique items related to those domains (e.g., “I relish opportunities in which I can lead others” for leadership) rated on a scale from 0 (Strongly disagree) to 5 (Strongly agree). Internal consistency reliability for the current sample is $\alpha = 0.86$.

2.2.3 Domain Specific Risk-taking Scale

The 40-item Domain-Specific Risk-taking Scale, DOSPERT (Weber et al., 2002) is a scale assessing individuals’ likelihood of engaging in risky behaviors within 5 domain-specific risky situations: financial (“Gambling a week’s income at a casino.”), social (“Admitting that your tastes are different from those of your friends”), recreational (“Trying out bungee jumping at least once”), health and safety (“Engaging in unprotected sex”), and ethical (“Cheating on an exam”) situations. Each risky situation is then rated on a five-point Likert scale (1 being very unlikely and 5 being very likely). Two additional five-point Likert scales

183 assess risk perception and expected benefits (1 being not at all risky and 5 being
184 extremely risky; 1 being no benefits at all and 5 being great benefits) respectively.
185 Example risky situations are “Admitting that your tastes are different from those
186 of a friend” and “Drinking heavily at a social function.” Internal consistency
187 reliability for the current samples for the 3 sub-domains are $\alpha = 0.85$, $\alpha = 0.90$,
188 $\alpha = 0.92$ respectively.

189 2.3 Procedure

190 Participants were recruited via a study landing page on Prolific’s web-
191 site or via a direct e-mail to eligible participants (Prolific Academic, 2018). The
192 study landing page included a brief description of the study including any risks
193 and benefits along with expected compensation for successful completion. Par-
194 ticipants accepted participation in the experiment and were directed to the main
195 survey (Qualtrics, Inc; Provo, UT) where they were shown a brief message on
196 study consent.

197 Once participants consented to participate in the experiment they an-
198 swered a series of demographic questions. Once completed, participants com-
199 pleted the Dominance, Prestige, and Leadership Scale and the Domain Specific
200 Risk-taking scale. The two scales were counterbalanced to account for order ef-
201 fects. After completion of the main survey, participants were shown a debriefing
202 statement that briefly mentions the purpose of the experiment along with the
203 contact information of the main researcher (AI). Participants were compensated
204 £4.00 via Prolific Academic.

205 2.4 Data analysis

206 Demographic characteristics were analyzed using multiple regression for
207 continuous variables (age) and Chi-square tests for categorical variables (gender,
208 race, ethnicity, ethnic origin, and education). Means and standard deviations
209 were calculated for the relevant scales (i.e., DoPL and DOSPERT). All analyses
210 were done using (R Core Team, 2021) along with (Bürkner, 2017) package.

211 The use of bayesian statistics has a multitude of benefits to statistical
212 analysis and research design. One important benefit is through the use of prior
213 data in future analyses. Termed as priors, is the use of prior distutations for
214 future analysis. This allows for the separation of how the data might have been
215 collected or what the intention was. In essence the data is the data without the
216 interpretatoin of the scientist.

217 All relevant analyses were conducted in a Bayesian framework using the
218 brms package (Bürkner, 2018) along with the rstan package (Stan Development

Table 1

Variables	*n* = 111
Age	
Mean (SD)	26.84 (9.21)
Median [Min, Max]	24 [18,61]
Gender	
Female	54 (48.6%)
Gender Non-Binary	2 (1.8%)
Male	55 (49.5%)
Education	
Primary School	4 (3.6%)
GCSes or Equivalent	8 (7.2%)
A-Levels or Equivalent	32 (28.8%)
University Post-Graduate Program	21 (18.9%)
University Undergraduate Program	44 (39.6%)
Doctoral Degree	1 (0.9%)
Prefer not to answer	1 (0.9%)
Ethnicity	
African	8 (7.2%)
Asian	6 (5.4%)
English	10 (9.0%)
European	77 (69.4%)
Latin American	2 (1.8%)
Scottish	2 (1.8%)
Other	6 (5.4%)

219 Team, 2020)

220 2.5 Results

221 One hundred and eleven individuals completed the main survey. Of these
222 individuals, 111 completed all sections without incomplete data and were there-
223 fore retained in most data analyses. In later analyses to account for outliers two
224 participants had to be excluded from the dataset. Table 1 shows the demographic
225 information for the participants. The average completion time for participants
226 was 20M 58s ($SD = 10M\ 43s$).

227 2.5.1 Preregistered Analyses

228 We first investigated DoPL orientation on general risk preference (Figure
229 1). General risk preference was anecdotally explained by dominance orientation,
230 participant gender, and participant age (see table 2).

231 2.5.2 Demographic and DoPL

232 All participants completed the dominance, leadership, and prestige
233 scale (Suessenbach et al., 2019). Empirically, men have generally been more
234 dominance-oriented in their behavior (citation). Following the literature, men
235 tended to be more dominant-oriented than women. The marginal posterior dis-
236 tribution of each parameter is summarized in Table #. Interestingly, older indi-
237 viduals tended to be more dominant-oriented than younger individuals.

238 2.6 Domain-Specific Risk-Taking

239 2.7 Interactions

240 When investigating dominance, prestige, and leadership motivations with
241 domain-specific risk-taking findings supported the common expectations in the
242 literature. Table 5 shows the interactions with like CI values. Dominance overall
243 explained the relationship of DoPL orientation and preference, specifically for eth-
244 ical, financial, social, health and safety, and recreational preference. Participant
245 age and gender also appeared to affect recreational preference.

246 Following these findings, we investigated the effect of DoPL on general
247 risk preference and found that dominance overall affected risk preference along
248 with gender and age of the participant (Table 5).

249 2.8 Discussion

250 3 Experiment 2

251 3.1 Methods

252 3.2 Participants

253 Following experiment 1, participants were a convenience sample of 111
254 individuals from Prolific Academic’s crowdsourcing platform (www.prolific.io).
255 Prolific Academic is an online crowdsourcing service that provides participants
256 access to studies hosted on third-party websites. Participants were required to be
257 18 years of age or older and be able to read and understand English. Participants
258 received £4.00, which is above the current minimum wage pro-rata in the United
259 Kingdom, as compensation for completing the survey. The Psychology Research
260 Ethics Committee at the University of Edinburgh approved all study procedures
261 [ref: 212-2021/1]. The present study was pre-registered along with a copy of
262 anonymized data and a copy of the R code is available at ([https://osf.io/](https://osf.io/s4j7y)
263 s4j7y).

264 **3.3 Materials**

265 Materials remain the same in terms of the demographic questionnaire,
266 dominance, prestige, a

267 **3.3.1 Brief-Pathological Narcissism Inventory**

268 The 28 item Brief Pathological Narcissism Inventory (B-PNI; Schoenleber
269 et al., 2015) is a modified scale of the original 52-item Pathological Narcissism
270 Inventory (PNI; Pincus et al., 2009). Like the PNI the B-PNI is a scale mea-
271 suring individuals' pathological narcissism. Items in the B-PNI retained all 7
272 pathological narcissism facets from the original PNI (e.g., exploitativeness, self-
273 sacrificing self-enhancement, grandiose fantasy, contingent self-esteem, hiding the
274 self, devaluing, and entitlement rage). Each item is rated on a 5 point Likert scale
275 ranging from 1 (not at all like me) to 5 (very much like me). Example items are
276 "I find it easy to manipulate people" and "I can read people like a book."

277 **3.4 Procedure**

278 Participants were recruited via a study landing page on Prolific's website
279 or via a direct e-mail to eligible participants (Prolific Academic, 2018). The study
280 landing page included a brief description of the study including any risks and ben-
281 efits along with expected compensation for successful completion. Participants
282 accepted participation in the experiment and were directed to the main survey
283 on pavlovia.org (an online JavaScript hosting website similar to Qualtrics) where
284 they were shown a brief message on study consent.

285 Once participants consented to participate in the experiment they an-
286 swered a series of demographic questions. Once completed, participants com-
287 pleted the Dominance, Prestige, and Leadership Scale and the Domain Specific
288 Risk-taking scale. An additional survey was added (the novel aspect of experi-
289 ment 2) where participants, in addition to the two previous surveys, were asked to
290 complete the brief-pathological narcissism inventory. The three scales were coun-
291 terbalanced to account for order effects. After completion of the main survey,
292 participants were shown a debriefing statement that briefly mentions the purpose
293 of the experiment along with the contact information of the main researcher (AI).
294 Participants were compensated £4.00 via Prolific Academic. ## Data analysis

295 Demographic characteristics were analyzed using multiple regression for
296 continuous variables (age) and Chi-square tests for categorical variables (gender,
297 race, ethnicity, ethnic origin, and education). Means and standard deviations
298 were calculated for the relevant scales (i.e., DoPL and DOSPERT). All analyses
299 were done using (R Core Team, 2021) along with (Bürkner, 2017) package.

300 The use of bayesian statistics has a multitude of benefits to statistical
301 analysis and research design. One important benefit is through the use of prior
302 data in future analyses. Termed as priors, is the use of prior distributions for
303 future analysis. This allows for the separation of how the data might have been
304 collected or what the intention was. In essence, the data is the data without the
305 interpretation of the scientist.

306 All relevant analyses were conducted in a Bayesian framework using the
307 brms package (Bürkner, 2018) along with the cmdstanr packages notes (Gabry &
308 Cesnovar, 2021). In addition to the aforementioned packages, we used bayestestR,
309 rstan, and papaja (Aust & Barth, 2020; Makowski et al., 2019; Stan Development
310 Team, 2020). ## Results

311 **3.5 Preregistered Analyses**

312 **3.5.1 Demographic and DoPL**

313 **3.6 Domain-Specific Risk-Taking**

314 **3.7 Interactions**

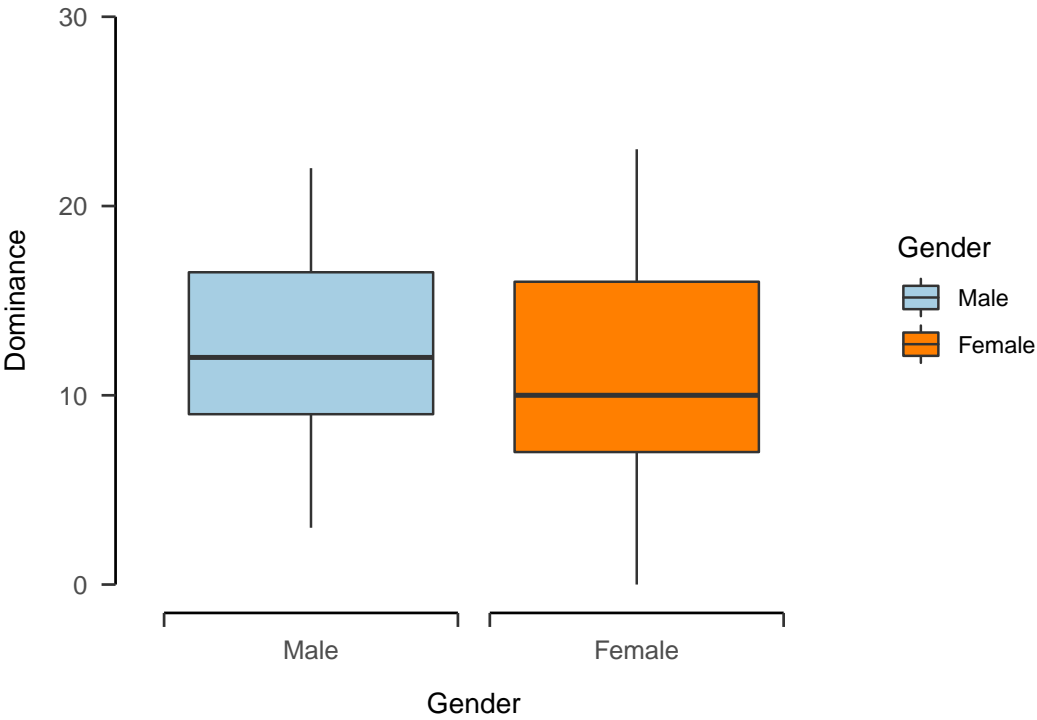
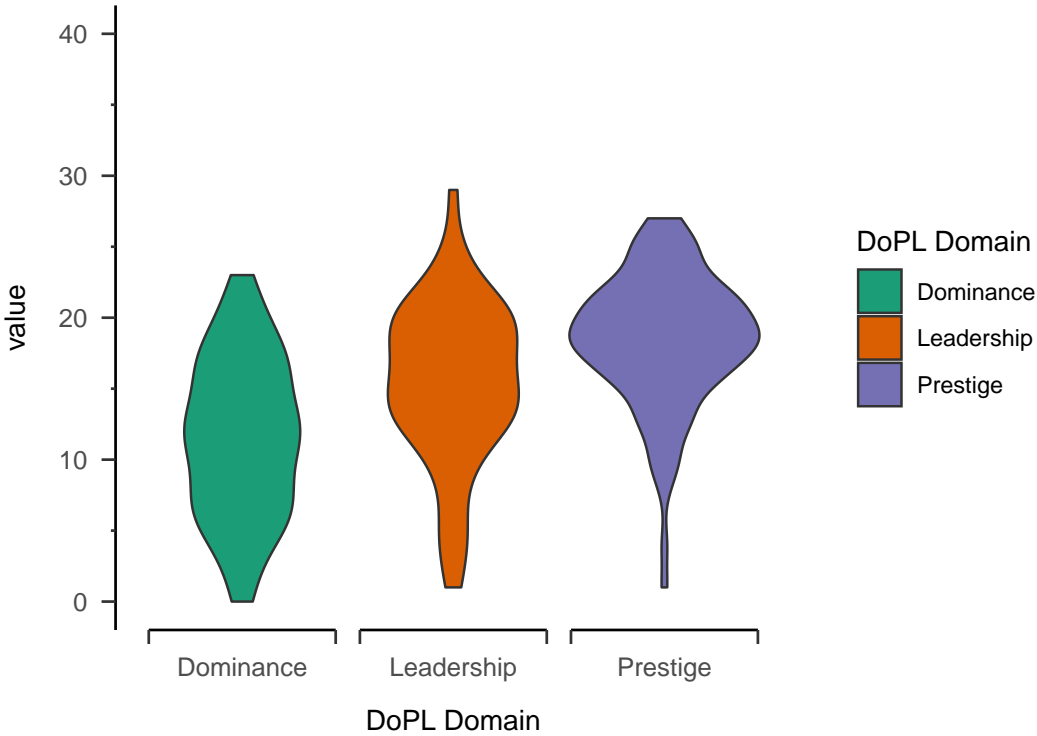
315 **3.8 Discussion**

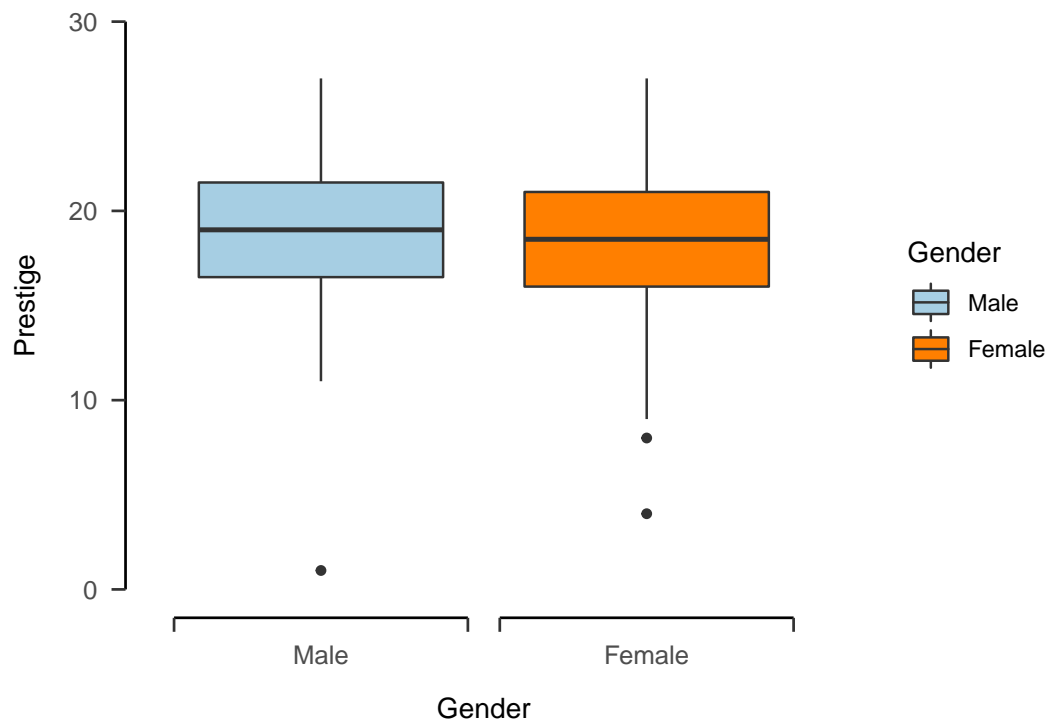
316 **3.9 Limitations**

317 **3.10 Future Implications**

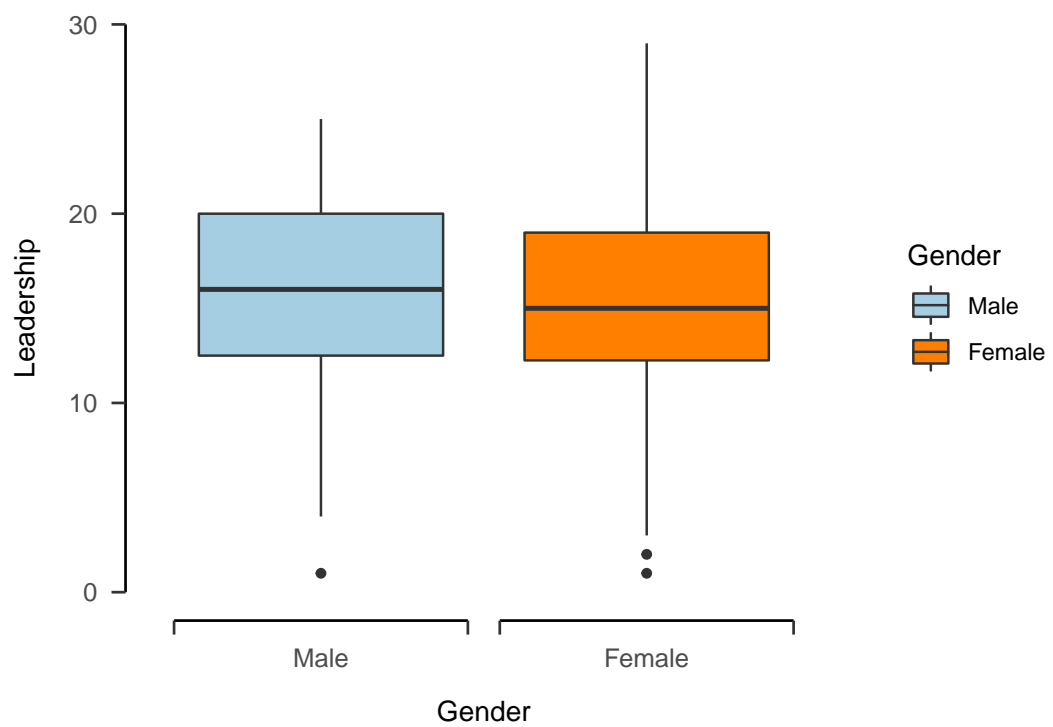
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 tinct nonverbal displays. *Journal of Personality and Social Psychology*,
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396



397

Table 2

Parameter	CI	CI_low	CI_high
b_Intercept	0.95	1.37	5.81
b_dominanceSum	0.95	1.07	4.91
b_leadershipSum	0.95	-3.88	-0.02
b_Gender1	0.95	-4.95	-1.09
b_Age	0.95	-4.80	-0.96

Table 3

	Estimate	Est.Error	Q2.5	Q97.5
Intercept	3.62	1.13	1.41	5.86
dominanceSum	3.00	0.99	1.08	4.93
prestigeSum	0.09	0.99	-1.84	2.02
leadershipSum	-1.91	0.98	-3.85	0.02
Gender1	-3.02	0.99	-4.95	-1.08
Age	-2.86	0.99	-4.78	-0.93

Table 4

Parameter	CI	CI_low	CI_high
b_ethicalPreference_Intercept	0.95	2.85	4.42
b_ethicalPreference_dominanceSum	0.95	0.61	1.71
b_financialPreference_Intercept	0.95	7.50	9.67
b_financialPreference_dominanceSum	0.95	0.14	1.59
b_socialPreference_Intercept	0.95	8.34	11.67
b_socialPreference_dominanceSum	0.95	0.60	2.87
b_healthAndSafetyPreference_Intercept	0.95	4.65	6.59
b_healthAndSafetyPreference_dominanceSum	0.95	0.41	1.77
b_recreationalPreference_Intercept	0.95	0.95	2.48
b_recreationalPreference_dominanceSum	0.95	0.66	1.74
b_recreationalPreference_Gender1	0.95	-1.83	-0.47
b_recreationalPreference_Age	0.95	0.06	0.87