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1	Who needs privacy? Exploring the relations between need for privacy and personality
2	Tobias Dienlin 1 & Miriam Metzger 2
3	¹ University of Vienna
4	² University of California Santa Barbara

5 Author Note

- Tobias Dienlin, Department of Communication, University of Vienna, Austria;
- ⁷ Miriam Metzger, Department of Communication, University of California, Santa Barbara,
- 8 United States of America.
- Correspondence concerning this article should be addressed to Tobias Dienlin,
- University of Vienna, Department of Communication, 1090 Vienna, Austria. E-mail:
- tobias.dienlin@univie.ac.at

Abstract

Privacy is defined as a voluntary withdrawal from society. While everyone needs some 13 degree of privacy, we currently know little about people's privacy needs.. In this study, we 14 explore the relations between the need for privacy and personality. Personality will be 15 operationalized using the HEXACO personality inventory. Need for privacy will be 16 measured in relation to social, psychological, and physical privacy from other individuals 17 (horizontal privacy); need for privacy from government agencies and companies (vertical 18 privacy); as well as need for informational privacy, anonymity, and general privacy (both 19 horizontal and vertical privacy). A sample of 1,293 respondents representative of the U.S. in terms of age, gender, and ethnicity will be collected. The correlations between privacy, 21 personality, and sociodemographics will be analyzed using structural equation modeling. Keywords: Privacy, need for privacy, personality, HEXACO 23

Who needs privacy? Exploring the relations between need for privacy and personality 24 Privacy is a major topic of public discourse and academic interest (Dienlin & Breuer, 25 2022). Yet despite its importance, to date we still know surprisingly little about the relation between privacy and personality (Masur, 2018, p. 155). What can we infer about a 27 person if they desire more privacy? Are they more introverted, more risk-averse, or more 28 traditional? Asking this question seems relevant, not least because people who desire more privacy are often regarded with suspicion, having to justify why they want to be left alone. 30 Consider the "nothing-to-hide" argument (Solove, 2007): People who oppose state 31 surveillance only do so because they have something to hide, because if you have nothing to hide, you would have nothing to fear. Is it true that people who desire more privacy are 33 also more dishonest, greedy, or unfair? Or are people simply less extroverted, more diligent, or more prudent? With this paper, we seek to answer the following question: 35 What can we learn about a person's personality if they say they desire more privacy?

37 Privacy and Personality

Privacy captures a withdrawal from others or from society in general (Westin, 1967).

This withdrawal happens voluntarily, and it is under a person's control (Westin, 1967).

Privacy is also multi-dimensional. On the broadest level, we can differentiate the two dimensions of horizontal and vertical privacy (Masur, Teutsch, & Dienlin, 2018; Schwartz, 1968). Whereas horizontal privacy captures withdrawal from other people or peers, vertical privacy addresses withdrawal from superiors or institutions (e.g., government agencies or businesses). In her theoretical analysis, Burgoon (1982) argued that privacy has four more specific dimensions: informational, social, psychological, and physical privacy. Pedersen (1979) conducted an empirical factor analysis of 94 privacy-related items, finding six dimensions of privacy: reserve, isolation, solitude, intimacy with friends, intimacy with family, and anonymity: Building on this work, in this study we employ a multifaceted model of need for privacy. We focus on vertical privacy with regard to people's felt need for

withdrawal from (a) government surveillance and (b) private companies; horizontal privacy in terms of the perceived need for (c) psychological, (d) social and/or (e) physical 51 withdrawal from other people; and *general* privacy as captured by people's felt need for (f) 52 informational privacy, (g) anonymity, and (h) privacy in general. 53 We understand and measure personality using the HEXACO inventory of personality 54 (Lee & Ashton, 2018). HEXACO is a large and comprehensive operationalization of 55 personality, and thus is less likely to miss potentially relevant factors and facets than other 56 personality constructs. The HEXACO model stands in the tradition of the Big Five approach (John & Srivastava, 1999). It includes six factors (discussed below), which have four specific facets each. In addition, the HEXACO model includes a sixth factor not present in the Big Five labeled honesty-humility (plus a meta-facet called altruism), which seem particularly well-suited to investigate the nothing-to-hide-argument. In predicting the need for privacy, we will primarily focus on the facets, because it is 62 unlikely that the very specific need for privacy dimensions will relate closely to more general personality factors 64 (Bansal, Zahedi, & Gefen, 2010; Junglas, Johnson, & Spitzmüller, 2008). And for 65 reasons of scope, below we cannot discuss all four facets for all six factors. Instead, we focus on those we consider most relevant. However, all we be analyzed empirically.

68 Predicting the Need for Privacy

the following question:

So far, very few studies have analyzed the relation between personality and need for privacy empirically (Hosman, 1991; Pedersen, 1982, see below). Moreover, we are not aware of a viable theory specifically connecting privacy and personality. Due to the dearth of empirical studies and the lack of theory, in this study we hence adopt an exploratory perspective.

In order to understand how personality might relate to privacy, we can ask ourselves

Why do people desire privacy? Privacy is important. But according to Trepte and 76 Masur (2017), the need for privacy is only a secondary need—not an end in itself. 77 Accordingly, privacy satisfies other more fundamental needs such as safety, sexuality, 78 recovery, or contemplation. Westin (1967) similarly defined four ultimate purposes of 79 privacy: (1) self-development (i.e., the integration of experiences into meaningful patterns), (2) autonomy (the desire to avoid being manipulated and dominated), (3) emotional 81 release (the release of tension from social role demands), and (4) protected communication 82 (the ability to foster intimate relationships). Privacy facilitates self-disclosure (Dienlin, 2014), and so it is hence important for social support, relationships, and intimacy (Omarzu, 2000). But privacy can also have negative aspects. It is possible to have too 85 much privacy. Being cut-off from others can diminish flourishing, nurture deviant behavior, or introduce power asymmetries (Altman, 1975). And privacy can also help conceal wrongdoing or crime. As a general guiding principle based on an evolutionary perspective, we could imagine that if other people, the government, or companies are considered a threat, people are more likely to withdraw and to desire more privacy. Conversely, if something is considered a resource, people might open up, approach others, and desire less 91 privacy (Altman, 1976). In what follows, we briefly present each HEXACO factor and how it might relate to need for privacy. Honesty-Humility & Altriusm. Honesty-humility consists of the facets sincerity, 94 fairness, greed avoidance, and modesty. The meta-facet altruism measures benevolence 95 toward others and consists of items such as "It wouldn't bother me to harm someone I didn't like." According to the nothing-to-hide argument, a person desiring more privacy 97 might be less honest, sincere, fair, or benevolent. People who commit crimes likely face greater risk from some types of self-disclosure, because government agencies and people would enforce sanctions if their activities were revealed (Petronio, 2010). Hence, in those 100 cases the government and other people may be perceived as a threat. As a consequence, 101 people with lower honesty and humility might desire more privacy as a means to mitigate 102

their felt risk (Altman, 1976).

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Empirical studies have linked privacy to increased cheating behaviors (Corcoran & 104 Rotter, 1987; Covey, Saladin, & Killen, 1989). Covey et al. (1989) asked students to solve 105 an impossible maze. In the surveillance condition, the experimenter stood in front of the 106 students and closely monitored their behavior. In the privacy condition, the experimenter 107 could not see the students. Results showed greater cheating among students in the privacy 108 condition, suggesting that in situations with more privacy people are less honest. While 109 this shows a connection between privacy and dishonesty, other studies more directly 110 support the notion that a desire for privacy is related to increased dishonesty. In a 111 longitudinal sample with 457 respondents in Germany (Trepte, Dienlin, & Reinecke, 2013), 112 people who felt they needed more privacy were also less authentic (and therefore, arguably, 113 also less honest and sincere) on their online social network profiles (r = -.48). People who needed more privacy were also less authentic in their personal relationships (r = -.28). 115

In conclusion, it seems possible that lack of honesty may indeed relate to an increased need for privacy, and perhaps especially when it comes to privacy from authorities such as government agencies.

Emotionality is captured by the facets fearfulness, anxiety, Emotionality. 119 dependence, and sentimentality. People who are anxious may be more likely to view social 120 interactions as risky or threatening (especially with strangers or weak ties, Granovetter, 121 1973). Anxious people might hence desire more privacy. People who are more concerned 122 about their privacy (in other words, more anxious about privacy) may be more likely to 123 self-withdraw online, for example by deleting posts or untagging themselves from linked 124 content to minimize risk (Dienlin & Metzger, 2016). On the other hand, the opposite may 125 also be true: People who are more anxious in general may desire less privacy from others 126 (especially their strong ties), as a means to cope better with their daily challenges or to 127 seek social approval to either verify or dispel their social anxiety. 128

People who are more anxious might also desire less privacy from government

surveillance. Despite the fact that only 18% of all Americans trust their government "to do 130 what is right," almost everyone agrees that "it's the government's job to keep the country 131 safe" (Pew Research Center, 2015, 2017). More anxious people might hence consider the 132 government a resource rather than a threat. They might more likely consent to government 133 surveillance, given that such surveillance could prevent crime or terrorism. On the other 134 hand, it could also be that more anxious people desire more privacy from government 135 agencies, at least on a personal level. For example, while they might favor government 136 surveillance of others, this does not necessarily include themselves. Especially if the 137 government is perceived as a threat, as often expressed by members of minority groups, 138 then anxiety might lead one to actually desire more personal privacy. 139

Extraversion. Comprising the facets social self-esteem, social boldness, sociability, and liveliness, extraversion is arguably the factor that should correspond most closely to need for privacy. Conceptually, social privacy and sociability are closely related. More sociable people are likely more inclined to think of other people as a resource, and thus they should desire less horizontal privacy and less anonymity (e.g., Buss, 2001). Given that privacy is a voluntary withdrawal from society (Westin, 1967), people who are less sociable, more reserved, or more shy should have a greater need for privacy from others.

This hypothesis is supported by several empirical studies. People who scored higher 147 on the personality meta-factor plasticity, which is a composite of the two personality 148 factors extraversion and openness, were found to desire less privacy (Morton, 2013). People 149 who described themselves as introverted thinkers were more likely to prefer social isolation 150 (Pedersen, 1982). Introverted people were more likely to feel their privacy was invaded 151 when they were asked to answer very personal questions (Stone, 1986). Pedersen (1982) 152 reported that the need for privacy related to general self-esteem (but not social self-esteem), 153 which in turn is a defining part of extraversion (Lee & Ashton, 2018). Specifically, he found 154 respondents who held a lower general self-esteem were more reserved (r = .29), and needed 155 more anonymity (r = .21) and solitude (r = .24). Finally, Larson and Bell (1988) and 156

Hosman (1991) suggested that people who are more shy also need more privacy.

As a result, we hypothesize that people who are more extroverted also need less social privacy and less privacy in general. Regarding the other dimensions of privacy, such as privacy from governments or from companies, we do not pose specific hypotheses.

Agreeableness. Agreeableness has the four facets of forgiveness, gentleness, 161 flexibility, and patience. It is not entirely clear whether or how agreeableness might relate 162 to the need for privacy, although people who are more agreeable are also moderately less 163 concerned about their privacy (Junglas et al., 2008). Thus, because need for privacy and 164 privacy concern are closely related, more agreeable people might desire less privacy. It is 165 also possible that people higher in agreeableness hold more generous attitudes toward 166 others and are less suspicious that others have malicious motives, and consequently 167 perceive less risk from interacting with others.

Conscientiousness. Conscientiousness consists of the facets organization, 169 diligence, perfectionism, and prudence. Arguably, all facets are about being in control, 170 about reducing relevant risks and future costs. Because control is a central part of privacy 171 (Westin, 1967), people who avoid risks, who deliberate, and who plan ahead carefully, 172 might prefer to have more privacy because it affords them greater control. Especially if 173 others are considered a threat, being risk averse might increase the desire for more 174 horizontal privacy. Similarly, if government agencies or private companies are considered a 175 threat, risk averse people might have a stronger desire for vertical privacy. In either case, 176 the most cautious strategy to minimize risks of information disclosure would be to keep as 177 much information as possible private. Empirical studies have found that people with a 178 stronger control motive require slightly more seclusion (r = .12) and anonymity (r = .15)179 (Hosman, 1991). People who considered their privacy at risk are less likely to disclose 180 information online (e.g., Bol et al., 2018). Moreover, conscientious people are more 181 concerned about their privacy (Junglas et al., 2008). 182

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Openness to experience. Openness to experiences comprises the facets aesthetic appreciation, inquisitiveness, creativeness, and unconventionality. Openness to experience is also considered a measure of intellect and education. In one study it was found that more educated people have more knowledge about how to protect their privacy (Park, 2013), which could be the result of an increased need for privacy. In another study, openness to experience is positively related to privacy concern (Junglas et al., 2008)

On the other hand, openness is conceptually the opposite of privacy. People more open to new experiences might not prioritize privacy. Many digital practices such as social media, online shopping, or online dating offer exciting benefits and new experiences, but pose a risk to privacy. People who are more open to new experiences might focus on the benefits rather than the potential risks. Hence, either a positive or negative relationship between need for privacy and openness is possible.

Socio-demographic variables. The need for privacy should also be related to 195 sociodemographic aspects, such as sex, age, education, and income. For example, a study 196 of 3,072 people from Germany found that women desired more informational and physical 197 privacy than men, whereas men desired more psychological privacy (Frener, Wagner, & 198 Trepte, 2021). In a nationally representative study of the U.S. and Japan, people who were 199 older and who had higher income reported more privacy concern. More educated people 200 possess more privacy knowledge (Park, 2013), and as a consequence they might desire more 201 privacy. Ethnicity might also correspond to the need for privacy, perhaps because members 202 of minority groups desire more privacy from the government, although not necessarily from 203 other people. Some minorities groups (e.g., Black or Native Americans) often report lower 204 levels of trust in white government representatives (Koch, 2019), which might increase the 205 desire of privacy from government agencies. Last, we will examine whether one's political 206 position is related to the need for privacy. We could imagine that more right-leaning people 207 desire more privacy from the government, but not necessarily from other people. People 208 who are more conservative tend to trust the government slightly less (Cook & Gronke, 209

2005), which might be associated with an increased need for privacy. We will also explore
whether a person's romantic relationship status corresponds to their expressed need for
privacy.

213 Method

This section describes how we determine the sample size, data exclusions, the
analyses, and all measures in the study. The Study will be conducted as an online
questionnaire, programmed with Qualtrics. A preview of the survey can be found here.

217 Prestudy

This study builds on a prior project in which we analyzed the same research question 218 (Dienlin & Metzger, 2019). This study was already submitted to Collabra, but rejected. 219 The main reasons were that the sample was too small, that not one coherent personality 220 inventory was used, that most privacy measures were designed ad-hoc, and that the 221 inferences were too ambitious. We hence decided to treat our prior project as a pilot study 222 and to address the criticism by conducting a new study. In this new study, we redevelop 223 our study design, we collect a larger sample, implement the HEXACO inventory together 224 and established need for privacy measures, and overall adopt a more exploratory 225 perspective. Being our central construct of interest, we also develop a small number of new 226 items to have a more comprehensive measure of need for privacy.

228 Sample

Participants will be collected from the professional online survey panel Prolific. The sample will be representative of the US in terms of age, gender, and ethnicity. The study received IRB approval from the University of Vienna (#20210805_067). We calculated that participation will take approximately 15 minutes. We will pay participants \$2.00 for participation, which equals an hourly wage of \$8.00.

To determine sample size, we ran a priori power analyses. Note that the final 234 analyses will be conducted using structural equation modeling (SEM), for which exact 235 power analyses are difficult to obtain. We therefore conducted preliminary power analyses 236 using two-sided bivariate correlations. Hence, the following power analyses are not exact 237 but rather a rough guide to get a better idea of the required minimum sample size. We 238 based our power analysis on a smallest effect size of interest (SESOI). We only considered 230 effects at least as great as r = .10 as sufficiently relevant to support an effect's existence 240 (Cohen, 1992). Adopting an exploratory perspective, not wanting to miss actually existing 241 effects, we considered both alpha and beta errors to be equally relevant. We hence opted 242 for balanced alpha and beta errors of 5%. A power analysis with an alpha and beta error of 243 5% and an effect size of r=.10 revealed that we required a sample size of N=1293. We 244 obtained sufficient funding to collect a sample of this size. Hence, we will use two inference criteria: Effects need to show a p-value of below p = 5% and an effect size of at least r =.10.

Planned Analyses

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We will individually check answers for response patterns such as straight-lining or
missing of inverted items. We will conservatively remove participants with clear response
patterns. We will automatically exclude participants who miss the two attention checks we
will implement. Participants who miss one attention check will be checked individually
regarding response patterns. We will remove participants below the minimum participation
age of 18 years. We will remove respondents with unrealistically fast responses (three
standard deviations below the median response time).

Missing responses will be imputed using multiple imputation with predictive mean matching (five datasets, five iterations, using all variables). The analyses will be run with all five datasets, and the pooled results will be reported.

The factorial validity of the measures and the hypotheses will be tested using

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structural equation modeling. If Mardia's test shows that the assumption of multivariate 260 normality is violated, we will use the more robust Satorra-Bentler scaled and 261 mean-adjusted test statistic (MLM) as estimator. We will test each scale in a confirmatory 262 factor analysis. To assess model fit, we will use more liberal fit criteria to avoid overfitting 263 (CFI > .90, TLI > .90, RMSEA < .10, SRMR < .10) (Kline, 2016). In cases of misfit, we 264 will conservatively alter models using an a priori defined analysis pipeline (see online 265 supplementary material). As a "reality check," we will test items for potential ceiling and 266 floor effects. If means are below 1.5 or above 6.5, these items will be excluded. 267

We want to find out who needs privacy, and not so much what causes the need for privacy. Hence, to answer our research question, in a joint model combining all variables (including sociodemographic variables) we will analyze the variables' bivariate relations. To 270 predict the need for privacy, we will first use the six personality factors. Afterward, we will predict privacy using the more specific facets. To get a first idea of the variables' potential causal relations, we will also run a multiple structural regression model.

Fully latent SEMs seldom work instantly, often requiring modifications to achieve 274 satisfactory model fit. Although we explicate our analysis pipeline, there still remain 275 several researcher degrees of freedom. We decided to use fully latent SEMs because we 276 consider it superior to regular analyses such as correlation or regression using manifest 277 variables (Kline, 2016). Combining several items into a latent factors helps reduce error 278 and condense information, thereby reducing noise. Together, this should provide a better 279 measure of the latent variables, which will also reduce the beta error. To provide context. 280 in the online supplementary material (OSM) we will also share the results of alternative 281 analyses, such as correlations of average scores. 282

We anticipate to finish the project three months after our registration was accepted.

Measures Measures

All items will be answered on a 7-point Likert scale ranging from 1 (strongly disagree) 285 to 7 (strongly agree). A list of all the items that we will use are reported in the online 286 supplementary material. The personality and privacy items will be presented in random 287 order, and the sociodemographic questions will be asked at the end. We will later report 288 also the results of the CFAs/EFAs, as well as item statistics and their distribution plots. 289 **Need for privacy.** Although there exist several operationalizations of need for 290 privacy (Buss, 2001; Frener et al., 2021; Marshall, 1974; Pedersen, 1979), we are not aware 291 of one encompassing, comprehensive, and up-to-date scale. Hence, we use both existing 292 scales and self-developed items, some of which were tested in our pilot study. Ad-hoc scales 293 were or will be (preliminarily) validated using the following procedure: We (a) collected 294 qualitative feedback from three different privacy experts;² (b) followed the procedure 295 implemented by Patalay, Hayes, and Wolpert (2018) to test (and adapt) the items using 296 four established readability indices (i.e., Flesch-Kincaid reading grade, Gunning Fog Index, 297 Coleman Liau Index, and the Dale-Chall Readability Formula); (c) like Frener et al. (2021), we will assess convergent validity by collecting single-item measures of privacy concern and privacy behavior, for which we expect to find small to moderate correlations; 300 (d) all items will be analyzed in confirmatory factor analyses as outlined above. 301 Overall, we will collect 32 items measuring need for privacy, with eight subdimensions 302 that all consist of four items each. Three subdimensions capture horizontal 303 privacy—namely psychological, social, and physical privacy from other individuals. 304 Psychological and physical privacy were adopted from Frener et al. (2021). Because Frener 305 ¹ Note that the HEXACO inventory normally uses 5-point scales. Because we were not interested in comparing absolute values across studies, we used 7-point scales to have a uniform answer format across all items.

² The three experts who provided feedback were Moritz Büchi (University of Zurich), Regine Frener (University of Hohenheim), and Philipp Masur (VU Amsterdam).

et al. (2021) could not successfully operationalize the dimension of social privacy, building 306 on Burgoon (1982) we self-designed a new social privacy dimension, which in the prestudy 307 showed satisfactory fit. Two subdimensions measure vertical privacy. The first 308 subdimension is government surveillance, which represents the extent to which people want 309 the government to abstain from collecting information about them. The scale was 310 pretested and showed good factorial validity. The second subdimension is need for privacy 311 from companies, which we will measure using four new self-designed items. Finally, three 312 subdimensions capture general privacy. The first subdimension is informational privacy, 313 with items adopted from Frener et al. (2021). The second subdimension is anonymity, 314 which captures the extent to which people feel the need to avoid identification in general. 315 The scale was pretested and showed good factorial validity; one new item was designed for 316 this study. Third, we will also collect a new self-developed measure of general need for privacy. 318

Personality. Personality will be measured using the HEXACO personality 319 inventory. The inventory consists of six factors with four dimensions each, including the 320 additional meta scale of "altruism". 321

Results 322

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To visualize how results might look like, we have simulated some random data. 323 Please note that these results are completely random and do not make sense from a 324 theoretical perspective. When calculating the multiple regressions, the models did not 325 converge, which is why several estimates could not be computed (see below). 326 In Table 1, we report how sociodemographics predict need for privacy. 327 In Table 2, we report how personality factors predict need for privacy. 328 In Table 3, we report how personality facets predict need for privacy.

Table 1

Predicting the need for privacy dimensions using sociodemographic variables.

	Need for privacy							
Sociodemographics	Social	Phys.	Psych.	Comp.	Gov.	Anonym.	Inform.	General
Age	-0.05	0.16	0.00	0.02	-0.29	0.41	-0.14	0.31
Gender	0.20	0.00	-0.03	-0.03	-0.12	-0.06	0.04	-0.51
Ethnicity	0.19	0.05	-0.01	-0.01	0.05	-0.07	0.01	-0.47
Relationship	0.09	-0.04	-0.01	0.00	-0.19	-0.07	-0.11	-0.19
College	-0.10	0.07	-0.03	-0.03	-0.07	0.10	0.07	-0.42
Income	-0.10	-0.07	0.04	-0.01	0.12	-0.13	-0.08	-0.22
Conservatism	-0.26	0.06	0.12	0.01	-0.05	0.30	-0.03	0.48

Table 2

Predicting the need for privacy dimensions using personality factors.

	Need for privacy							
Personality factors	Social	Phys.	Psych.	Comp.	Gov.	Anonym.	Inform.	General
Honesty humility	-0.31	0.01	-0.01	0.24	0.26	-0.84	-0.03	-0.29
Emotionality	0.94	-0.02	0.07	-0.47	-0.05	1.26	0.05	0.20
Extraversion	-0.99	-0.03	0.07	0.77	1.76	-0.09	0.71	-2.69
Agreeableness	-0.63	0.04	-0.11	-0.51	0.83	0.95	0.08	2.08
Conscientiousness	0.25	-0.01	0.02	0.01	-0.82	-0.05	0.15	-0.13
Openness	0.07	0.01	-0.07	-0.56	0.09	0.99	0.11	-0.21

 $\label{thm:constraints} \begin{tabular}{ll} Table 3 \\ Predicting the need for privacy dimensions using personality facets. \end{tabular}$

	Need for privacy							
Personality facets	Social	Phys.	Psych.	Comp.	Gov.	Anonym.	Inform.	General
Honesty humility								
Sincerity	-0.63	0.01	-0.87	0.38	-0.51	0.22	-0.04	0.44
Fairness	0.05	0.01	0.02	-0.31	0.50	1.61	0.16	-1.67
Greed avoidance	0.17	-0.06	-3.01	-0.47	-1.51	1.03	2.07	10.89
Modesty	0.43	-0.01	-1.11	-0.61	0.57	1.92	0.17	2.29
Emotionality								
Fearfulness	0.68	0.00	0.62	0.60	0.62	1.46	0.58	1.23
Anxiety	-0.64	0.03	-0.20	-0.05	0.42	-0.83	-0.05	-0.32
Dependence	-0.39	0.00	0.23	-0.15	-0.02	-0.31	0.26	1.12
Sentimentality	-0.88	0.02	-0.70	0.44	0.23	-0.08	0.30	1.66
Extraversion								
Social Self-Esteem	-0.44	0.02	0.16	0.28	-0.32	0.85	-0.49	-2.70
Social Boldness	-0.91	-0.03	-0.21	-0.25	0.51	3.05	0.36	-0.07
Sociability	-0.49	-0.01	0.32	0.36	0.11	2.36	0.02	-0.07
Liveliness	2.00	0.00	-2.64	-2.49	-1.39	9.42	-4.20	-6.43
Agreableness								
Forgiveness	-0.45	0.03	0.26	-0.50	-0.17	0.80	-0.23	-0.51
Gentleness	0.01	0.00	0.00	0.00	0.00	0.04	0.00	-0.03
Flexibility	-0.25	0.01	0.26	-0.30	0.54	0.08	0.38	1.40
Patience	0.33	-0.02	0.11	-0.34	-0.63	-3.00	0.16	-0.56
Conscientiousness								
Organization	-2.04	0.02	0.61	-0.51	2.55	1.02	1.42	3.58
Diligence	-0.27	-0.01	0.08	-0.20	-0.07	1.10	0.28	0.79
Perfectionism	-0.41	0.03	0.69	-1.26	0.53	0.89	-0.39	1.79
Prudence	0.54	-0.02	-0.50	-0.04	-1.17	-3.02	-0.69	1.36
Openness to experiences								
Aesthetic Appreciation	-0.30	0.00	-0.94	-0.07	-0.44	-2.01	-0.35	0.15
Inquisitiveness	-1.49	-0.03	-0.14	0.31	0.12	-0.56	-0.67	1.12
Creativeness	0.19	0.00	0.01	-0.65	-0.11	2.46	0.07	-0.12
Unconventionality	-0.82	-0.02	0.54	-0.08	0.12	1.52	0.05	0.97
Altruism	0.56	0.00	-0.28	0.18	-0.33	-0.36	0.36	0.70

In Figure 1, you can find how each personality factor—while holding constant for all other personality factors and sociodemographics—predicts need for privacy.

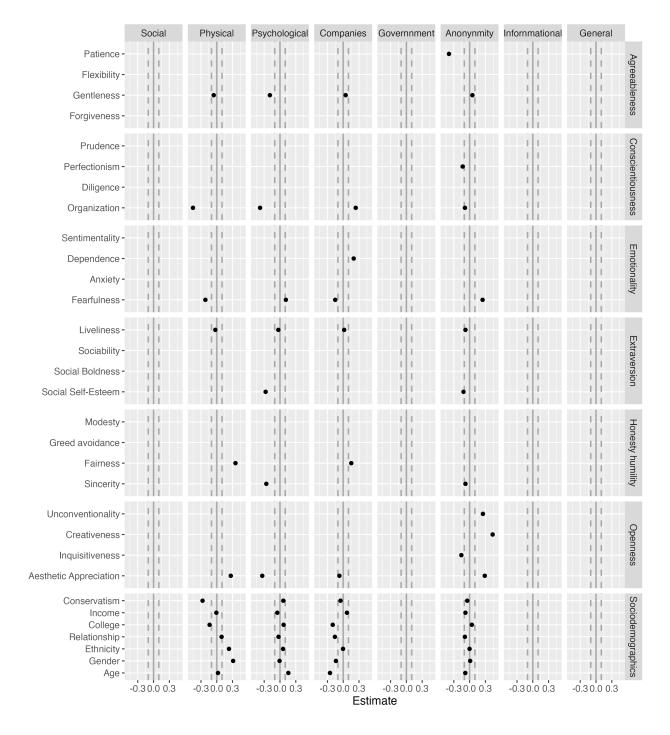


Figure 1. Results of multiple regressions, in which we predict all dimensions of need for privacy using all personality dimensions and sociodemgraphic factors simultaneously.

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437 Contributions

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Competing Interests

Both authors declare no competing interests.

Supplementary Material

All the stimuli, presentation materials, participant data, analysis scripts, and a
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supplementary material on the open science framework (https://osf.io/e47yw/). The paper
also has a companion website where all materials can be accessed
(https://tdienlin.github.io/Who_Needs_Privacy_RR/proposal.html).

Data Accessibility Statement

The data will be shared on the open science framework (https://osf.io/e47yw/) and on github.