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Thou Shalt Not Steal: Effects of Normative Cues on Attitudes towards Theft

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In this study, we examine how normative cues influence attitudes towards theft. In a $3 \times 2 \times 2$ within-subjects design (N = 120), we found that people had more negative attitudes towards theft when: 1) a higher value item was stolen than when a lower value item was stolen; 2) the theft took place in a public setting than when it took place in a private setting; and 3) the theft took place in a tidy rather than messy setting. Furthermore, our findings showed interaction effects between the value of a stolen item and 1) the clean-liness of the environment; and 2) the privateness of a setting, on attitudes towards theft. Theoretical and practical implications are discussed.

Keywords: Normative Influence; Social Norms; Theft; Injunctive Norms; Descriptive Norms

Introduction

The number of theft related incidences declined during the period of 2009-2010 (Research Development Statistics (RDS), 2011). While this appears to be good news, the latest crime statistics show that around 1440 thefts are reported each day and this figure probably even falls short of reality (Crimestoppers, 2010). Crimestoppers (2010) suggests that a figure double this size would perhaps be more representative of actual levels of theft. Given the prevalence of theft, it is an important area to study.

Acts of theft may cause damage to society and individuals, and are generally characterized by a lack of consideration for other people (Cromby, Brown, Gross, Locke, & Patterson, 2010). That is, it is regarded as a typical immoral behavior. Attitudes are an important predictor of moral intentions and behaviors, including a variety of prosocial and antisocial behaviors (e.g., Anker, Feeley, & Kim, 2010; Chen & Chiu, 2009; De Groot & Steg, 2007; Hurd, Zimmerman, & Reischl, 2011). Different scholars have shown that attitudes towards theft play an important role in predicting intentions and subsequently theft behaviors (e.g., Tonglet, 2002; Cronan & Al-Rafee, 2008; Wang, Chen, Yang, & Farn, 2009; Henle, Reeve, & Pitts, 2010). Therefore, examining the factors influencing attitudes towards theft can provide useful ways to decrease the occurrence of theft.

Theft is not a desirable behavior as it is not in line with commonly held "social norms" in society. Social norms are thought to be beliefs about what are common and accepted behaviors (Schultz & Tabanico, 2009). Research suggests that attitudes that are prevalent in an individual's social network can influence the formation of the individual's own attitude (e.g., Huckfeldt & Sprague, 1991; Visser & Miribile, 2004). Consequently, social norms may be relevant for predicting attitudes. Empirical studies indeed suggest that social norms are strong predictors for attitudes (e.g., Ajzen, 1988; Jasinskaja-Lahti, Mähönen, & Liebkind, 2011; Nesdale & Lawson, 2011; Nikitas, Avineri, & Parkhurst, 2011).

Social norms can be activated by a variety of cues in the environment. In this study, we examine how normative cues in a theft context may influence attitudes towards theft. By doing so, we contribute to the theoretical development of the influence of normative cues on attitudes towards theft.

Normative Cues and Attitudes towards Theft

The Effect of the Value of a Stolen Item and Privateness of Setting

The focus theory of normative conduct (Cialdini, Kallgren, & Reno, 1991; Cialdini, Reno, & Kallgren, 1990) explains how social norms influence attitudes. The theory asserts that social norms will mainly affect attitudes when they are salient Cialdini and colleagues (1990; Cialdini et al., 1991; Reno, Cialdini, & Kallgren, 1993; Kallgren, Reno, & Cialdini, 2000) make a distinction between two types of social norms, that is, descriptive and injunctive social norms. Descriptive social norms demonstrate what is typically done in a particular situation (Cialdini et al., 2006). Injunctive social norms refer to what ought to be done in the situation and guide behavior through perceptions of whether other people would sanction the behavior in question (Reno et al., 1993). In most societies the injunctive norm will be against theft because theft is generally not endorsed— "Thou shalt not steal."

Normative cues are elements in the environment that convey important information that may trigger social norms. Different potential normative cues may make injunctive and descriptive norms focal. An example of a normative cue is the financial

value of the stolen item. Wenzel (2004) found that people were more likely to avoid anti-social behavior when the severity of the sanctions as a result of engaging in that behavior increased. Mulder and colleagues (Mulder, Verboon, & De Cremer, 2008) suggest that more severe sanctions evoke stronger social judgments with regard to breaking the rules than milder sanctions. Related to the focus theory of normative conduct (Cialdini et al., 1991), the thought of social sanctions may activate one's injunctive norms of anti-theft. A higher level of loss (in material or emotional value) is incurred by victims of theft when an item is more expensive. We therefore assume that the perceived social sanctions of the theft of high value items are perceived to be more severe than the theft of low value items: people will have more negative attitudes towards theft if a higher value item is stolen than when a lower value item is stolen (Hypothesis 1).

Lapinski and Rimal (2005) focus on another type of normative cue that may strengthen the influence of social norms on attitudes towards theft, that is, the extent to which an environment in which the theft takes place is private or public. They suggest that injunctive norms will exercise little influence over attitudes and behavior when behavior is not observable and therefore cannot be scrutinized. Related to the focus theory of normative conduct (Cialdini et al., 1991), in a private setting the non-observable character will make the anti-theft injunctive norm less focal than in a public setting. Consequently, people will have more negative attitudes towards theft when the theft takes place in a public setting, than when the theft takes place in a private setting (*Hypothesis* 2).

Conflicting Normative Cues and Attitudes towards Theft: Effect of Tidy vs Messy Setting

Normative cues can conflict in specific situations. For example, in a messy setting, the normative cue "presence of mess" signals that many people litter (making the descriptive norm of littering salient), which conflicts with the generally salient (anti-litter) injunctive norm. Results of studies by Cialdini and colleagues (1990) indicate that an injunctive anti-litter norm is not as influential in this "conflicting" setting as it is in a setting where the descriptive norm supports the injunctive norm. Therefore, descriptive and injunctive norms should be aligned to be able to exert the strongest normative influence on attitudes and behavior (Lapinski & Rimal, 2005; Schultz & Tabanico, 2009). When the descriptive and injunctive norms are not aligned, the descriptive norm will overpower the injunctive norm. Studies indeed show that the injunctive norm is not as influential in a situation where the descriptive norm conflicts with the general injunctive norm (e.g., Schultz, Khazian, & Zaleski, 2008; Jacobson, Mortensen, & Cialdini, 2011).

Even more so, Keizer, Steg and Lindenberg (2008) show that if a descriptive norm violates the injunctive norm it will not only decrease the influence of a specific injunctive norm, but also of other injunctive norms in that setting. The study showed that when the descriptive norm violated an injunctive norm, such as the anti-litter injunctive norm, it resulted in the inhibition of other injunctive norms as well, such as the anti-theft injunctive norm. For example, participants were more likely to steal a letter including 5 Euros from a letterbox when this letterbox was surrounded by litter (i.e., violation of the injunctive anti-litter norm) than when it was in a non-littered environment (i.e., no violation of the injunctive anti-litter norm). Keizer and colleagues (2008) refer to the cross-norm inhibition effect in such situations. Therefore, the cleanliness of an environment may function as a normative cue in influencing the relationship between social norms and attitudes towards theft. That is, in a tidy setting, there will be no signs indicating that specific injunctive norms are violated and therefore the injunctive norm towards anti-theft will remain focal. However, in a messy setting, the injunctive norm (i.e., "you should be tidy") will be violated which may result in a decrease in strength of the antitheft injunctive norm. Therefore, we expect that people will have more negative attitudes towards theft when the theft takes place in a tidy setting than when the theft takes place in a messy setting (*Hypothesis* 3).

Normative Cues and Attitudes towards Theft: Interaction Effects

The possible influence of the value of a stolen item on attitudes towards theft is based on the perceived level of social sanctions (Reno et al., 1993) and as such may draw attention to the anti-theft injunctive norm. As suggested by Cialdini and colleagues (2006), normative influence can be exerted in tidy settings (i.e. there are no "norm-violations"), so injunctive norms such as "you should not steal", will be salient and spur attitudes and behavior. We assume that the theft of low or high value items will draw no extra attention to the already present and salient anti-theft injunctive norm in such situations. However, in messy settings, where cross norm-inhibition takes place, the value of a stolen item may compensate for the inhibition of the anti-theft injunctive norm because the thought of social sanctions may strengthen or activate someone's injunctive norms of anti-theft. Therefore, we expect an interaction between the value of a stolen item and the cleanliness of the environment on attitudes towards theft: attitudes towards theft will be less affected by the value of a stolen item in tidy settings where the injunctive norm is already more salient than in a messy setting where the injunctive norm is inhibited (Hypothesis 4).

The injunctive anti-theft norm is most salient in public environments where behavior is observable and can be scrutinized than in private settings where this is less the case (Lapinski & Rimal, 2005). The influence of the value of the stolen item on attitudes towards theft is based on the level of expected social sanctions (Reno et al., 1993) which may also make the antitheft injunctive norm focal. In public settings, where this antitheft injunctive norm is already salient, the value of the stolen item may be less effective in focusing attention to the injunctive norm than in private settings where this norm is less salient. Therefore, we expect another interaction effect between the value of a stolen item and the level of privateness of a setting on attitudes towards theft. That is, attitudes towards theft will be less affected by the value of a stolen item in public settings where the injunctive norm is already more salient than in private settings where the injunctive norm is less focal (Hypothesis 5).

Aim Study

The aim of our study is to examine the main and interaction effects of normative cues on attitudes towards theft, hereby increasing the knowledge of how physical characteristics of theft can function as normative cues to change such attitudes. That is, we examine the main and interaction effects of: 1) the value of the stolen item; 2) the privateness of a setting in which the theft takes place; and 3) the cleanliness of the environment in which the theft takes place on attitudes towards theft.

Method

Design and Variables

We used a $3 \times 2 \times 2$ within-subjects design to examine the influence of normative cues on attitudes towards theft. The first independent variable, value of a stolen item, had three levels (i.e., low/medium/high value item). The second independent variable, privateness of the setting, included two levels (i.e., private/public environment). The third variable, cleanliness of the environment, had two levels (i.e., tidy/messy environment). The dependent variable was attitudes towards theft.

Participants

We recruited an opportunity sample of 120 undergraduate students from Bournemouth University's social seating areas. The sample consisted of 80 females and 40 males with a mean age of 21.4 (SD = 4.5). All participants were familiar with sharing accommodation with people other than family members as the questionnaire focused on theft scenarios in this type of accommodation. The items in the scenarios were chosen based on their relevance for this specific group of participants.

Procedure and Materials

A pilot study was conducted in order to gather information on which object of theft would be relevant to the population of interest. Wine was selected as it was most relevant to the focus population (100% of N = 30 had owned wine). The scenario in which it was implied that a theft was taking place was also simplified for wine as one cannot borrow the contents of a wine bottle, unlike other items such as a book.

Four versions of a 12 scenario, 24 item questionnaires were created using identical scenarios detailing a theft but in different order of presentation to avoid order effects. The scenarios were designed to systematically and exhaustively manipulate all levels of the independent variables. The value of the stolen item was manipulated by stating whether the bottle of wine was either £3, (i.e., low value item), £8, (i.e., medium value item) or £20, (i.e., high value item). A pilot study (N = 30) showed high levels of agreement in operationalizing low cost wine as £3 (97% in agreement), medium cost wine as £8 (70% in agreement) and high cost wine as £20 (70% in agreement). The privateness of the setting was made clear by indicating whether the wine was either in a room of a home (i.e., private) or in a shop (i.e., public). Finally, the cleanliness of the environment was emphasized by including a reference to a tidy and structured environment or to a messy and unstructured environment.

Steps were taken to ensure the layout of each scenario was consistent with the other scenarios; names included in scenarios were from the same origin to avoid possible confounding effects of discrimination, and both male and female names were randomly used throughout the scenarios.

An example of a "medium value, public setting, tidy environment" scenario was:

"Anna is looking in her **local shop** [public setting] for some sweets; she does not find any she wants and so moves on to the next aisle. Anna is off to a party tonight

the assessing attitudes in a number of studies (e.g., De Groot & Stag, 2000; Desthume, & Duspring, 2000; Terrade, Despring, 2000; Terrade, 2000; T

for assessing attitudes in a number of studies (e.g., De Groot & Steg, 2009; Posthuma & Dworkin, 2000; Terrade, Pasquier, Reerinck-Boulanger, Guingouain, & Somat, 2009). Therefore, we measured attitudes towards theft was by assessing the acceptability dimension of attitudes towards theft, measured on a 7-point likert-type scale ranging from "very unacceptable" to "very acceptable". In addition to acceptability judgments, research has also found that an individual uses projections of their own attitudes when making inferences about the attitudes of someone else (e.g., Ames, 2004; Goel, Mason, & Watts, 2010). That is, an individual's inference about another person's attitude towards theft may be an indirect measure of their own attitude towards theft without linking the behavior directly to themselves. Therefore, a second item to conceptualize attitudes towards theft was to ask participants to evaluate how acceptable they thought other people would rate the theft in the specific scenarios. The attitude towards theft was computed by summing the scores of both items and dividing them by two. The attitude scale appeared to have a good internal consistency ($\alpha =$ 0.90; M = 1.82, SD = 0.52).

so decides to look at the wine. She spots a bottle for £8

[medium value item] **neatly lined up** [tidy environment]

on the shelf which she picks up and quickly drops in her handbag. Anna looks for a little longer and then leaves."

Each scenario was followed by two items measuring one's

Results

Main Effects of Normative Cues on Attitudes towards Theft

In **Table 1**, we show descriptive statistics of attitudes towards theft for the three normative cues. These statistics suggest that participants' attitude toward theft were more favorable when: the stolen item was less expensive, the theft took place in a private instead of a public setting, and when the setting in which the theft took place was messy rather than tidy.

We employed a $3 \times 2 \times 2$ repeated measures ANOVA to test whether the differences in mean scores were statistically significant. Mauchly's test indicated that the assumption of sphericity

Table 1.

Descriptive statistics for the three main effects.

			95% Confidence Interval		
	М	SD	Lower Bound	Upper Bound	
Privateness Setting					
Private	2.11	0.91	1.99	2.24	
Public	1.52	0.72	1.42	1.63	
Cleanliness Environment					
Tidy	1.78	0.82	1.68	1.88	
Messy	1.85	0.81	1.76	1.95	
Value Stolen Item					
Low	2.07	1.02	1.93	2.21	
Medium	1.87	0.78	1.69	1.89	
High	1.59	0.65	1.51	1.68	

was violated for the main effect of cost of the item on attitude, X^2 (2) = 34.82, p < 0.001. Therefore degrees of freedom for the main effect of cost of item on attitude were corrected using Greenhouse-Geisser estimates of sphericity ($\varepsilon = 0.80$), which alters the significance value of the F-ratio.

There was a significant main effect of cost of the stolen item on attitudes towards theft, F(1.59, 189.56) = 46.78, p < 0.001, partial $\eta^2 = 0.28$. Post hoc pair-wise comparisons using a Bonferroni adjustment indicated that participants' attitudes towards the theft of low value items (M = 2.07) was significantly higher than for high value items (M = 1.59, F(1, 119) = 63.56, p < 0.001). And, attitude towards the theft of medium value items (M = 1.79) was significantly higher than attitudes towards the theft of high cost items (F(1, 110) = 25.83, p < 0.001).

There was a significant main effect of privateness of a setting on attitudes towards theft, F(1, 119) = 75.86, p < 0.001, partial $\eta^2 = 0.39$. Participants' attitudes towards theft were significantly more favorable for thefts in private settings (M = 2.11) than for thefts in public settings (M = 1.52).

Finally, there was a significant main effect of cleanliness of the environment on acceptability evaluations, F(1, 119) = 6.95, p < 0.01, partial $\eta^2 = 0.055$. Participants' attitudes towards theft were significantly more favorable for thefts in messy environments (M = 1.85) than for thefts in tidy environments (M = 1.78).

Interaction Effects of Normative Cues on Attitudes towards Theft

Table 2 shows descriptive statistics of attitudes towards theft for the interaction effect between the three normative cues. Figures 1 and 2 show the linear pattern of the mean scores. Means suggest that attitude towards thefts of low cost, medium value items and high value items increase in strength in a linear pattern in both the private and public settings and the tidy and messy settings. Attitude towards theft appear lower for the theft of low, medium and high value items in private settings and in messy settings than in public settings and tidy settings.

Table 2.

Descriptive statistics for interaction effects.

			95% Confidence Interval	
	М	SD	Lower Bound	Upper Bound
Privateness Setting [*] Value Item				
Public [*] Low Value	1.72	0.81	1.58	1.87
Public [*] Medium Value	1.46	0.61	1.35	1.57
Public [*] High Value	1.38	0.51	1.29	1.48
Private [*] Low Value	2.42	1.04	2.23	2.61
Private [*] Medium Value	2.11	0.80	1.97	2.26
Private [*] High Value	1.80	0.65	1.69	1.92
Cleanliness Environment* Value Item				
Messy [*] Low Value	2.13	0.83	1.98	2.28
Messy [*] Medium Value	1.86	0.62	1.75	1.97
Messy [*] High Value	1.58	0.48	1.49	1.67
Tidy [*] Low Value	2.02	0.79	1.87	2.16
Tidy [*] Medium Value	1.71	0.60	1.61	1.82
Tidy [*] High Value	1.61	0.53	1.51	1.70

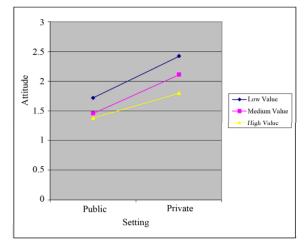


Figure 1.

Relationships between value of the stolen item and privateness of the setting on attitudes towards theft.

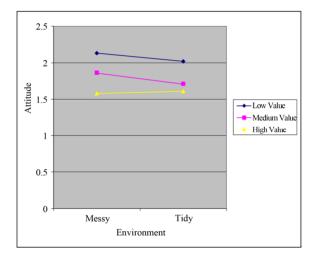


Figure 2.

Relationships between value of the stolen item and cleanliness of the environment on attitudes towards theft.

Results of the ANOVA confirmed that there were indeed two significant interaction effects. First, an interaction effect was observed for the cost of a stolen item and the privateness of the setting on attitudes towards theft, F (1.86, 221.80) = 6.56, p <0.01, partial $\eta^2 = 0.05$. This interaction was further investigated by simple main effects. Given the fact that there were six tests of simple effects, the criterion for significance was adjusted to 0.008 (i.e., 0.05/6). In public settings, attitudes towards theft were significantly more favorable when the value of the stolen item was low (M = 1.72) compared to when the value of the stolen item was medium (M = 1.46: t (119) = 4.83, p < 0.001, Cohen's d = 0.44) and compared to when the value of the stolen item was high (M = 1.38): t (119) = 5.64, p < 0.001, Cohen's d = 0.51. In private settings, attitudes towards theft were more favorable in general, but especially when the value of a stolen item was low (M = 2.42) compared to medium (M = 2.11; t)(119) = 4.38, p < 0.001, Cohen's d = 0.40) or high (M = 1.80; t (119) = 6.99, p < 0.001, Cohen's d = 0.64) value items. In private settings, the difference between the medium and high value stolen item was significant as well (t (119) = 4.67, p < 0.001, Cohen's d = 0.43). In line with our hypothesis, the relationship between attitude towards theft and the value of the stolen item is moderated by the privateness of the setting, in such a way that the value of an item has a stronger effect on attitudes when the theft occurs in a private setting compared to when it occurs in a public setting.

Second, there was an interaction effect between the value of a stolen item and the cleanliness of the environment with respect to people's attitudes towards theft, F(2, 238) = 4.25, p =0.01, partial $\eta^2 = 0.03$. Simple main effects showed that in messy settings, attitudes towards theft were most favorable when the value of the stolen item was low (M = 2.13) rather than medium (M = 1.86) or high (M = 1.58). The differences between the low value and medium value (t (119) = 4.79, p < 0.001, Cohen's d = 0.44), low and high value (t (119) = 7.82, p < 1000.001, Cohen's d = 0.71) and medium and high value items (t (119) = 5.81, p < 0.001, Cohen's d = 0.53) were significant. In tidy settings, attitudes towards theft were especially favorable when the value of a stolen item was low (M = 2.02) compared to medium (M = 1.71; t (119) = 4.99, p < 0.001, Cohen's d =0.46) or high (M = 1.61; t (119) = 6.29, p < 0.001, Cohen's d =0.57) value items. In tidy settings, after adjusting the significance criterion to 0.008, the difference between medium and high value items was not significant (t (119) = 2.13, p = 0.036, Cohen's d = 0.19). In line with our hypothesis, the relationship between attitudes and value of the stolen item was moderated by the cleanliness of the environment: the value of an item was more influential in shaping attitudes in messy settings as opposed to tidy settings.

Discussion

This study examined the main and interaction effects of these normative cues on attitudes towards theft. Consistent with Hypothesis 1, participants had most favorable attitudes towards theft when a low value item was stolen than when a medium or high value item was stolen. Attitude favorability significantly decreased between the low and medium value item and between the medium and high value item. The perceived social sanctions for theft of more expensive stolen items may be more severe than for less expensive items. The thought of severe sanctions may trigger avoidance of anti-social behaviors (Wenzel, 2004), such as theft, and, more severe sanctions will evoke stronger judgments towards rule breaking (Mulder et al., 2008); hence, the attitudes towards such behaviors may be adjusted accordingly. Findings are consistent with the notion of Reno et al. (1993) that injunctive norms guide behavior through perception of whether most others would sanction the behavior and suggest that the thought of social sanctions may strengthen or activate someone's injunctive norms of anti-theft. Beliefs about sanction severity however, were not explicitly examined in this current research and therefore explanations of the differing influence of item value are based on inference. The findings of this research are however consistent with the theory that sanction severity affects the level of normative influence and therefore severity of sanction may be an underlying influence on attitudes towards theft.

The privateness of a setting could be another potential normative cue to influence attitudes towards theft. We found that people show more negative attitudes towards theft when the theft takes place in a public than a private setting, supporting *Hypothesis* 2. Like the findings of Kallgren et al. (2000) and Schultz et al. (2008), results of this current research indicated that the injunctive norm can have an influence in both public and private environmental settings. However this current research went further by examining if there was any difference in the level of influence exerted between the two types of settings. The notion for this extension was based upon suggestions made by Lapinski and Rimal (2005) that the level of normative influence exercised would be dependent on the level of privacy of an environment. Our finding is in line with the notion that injunctive norms will exercise little influence over attitudes and behavior when behavior is not observable and therefore cannot be scrutinized (Lapinski & Rimal, 2005). Because norms will mainly influence behavior when focal (Cialdini et al., 1991), in a private setting the non-observable character will make the anti-theft injunctive norm less focal than in a public setting hereby inhibiting its potential influence on attitudes towards theft.

Attitudes towards theft were significantly more negative in tidy than in messy settings, providing support for *Hypothesis* 3. These results provide further evidence for the observation that if the descriptive norm (littering) violates an injunctive norm ("you should not litter") in a specific situation, it will also decrease the influence of other injunctive norms ("you should not steal") in that setting (see Keizer et al., 2008). This result does not only hold for changing behaviors as indicated by Keizer and colleagues (2008), but also for changing attitudes towards the behavior. Keizer and colleagues (2008) refer to this as the "cross-norm inhibition effect."

There was an interaction effect between the value of a stolen item and the cleanliness of the environment on attitudes towards theft, supporting Hypothesis 4. That is, attitudes towards theft were less affected by the value of a stolen item when the theft took place in clean settings, where presumably the injunctive anti-theft norm was more salient, as compared to a messy setting, where the injunctive norm may have been inhibited by the salient descriptive norm to litter. A significant difference was found between medium and high value items and tidy and messy environments, with the theft of a high value item producing a less dramatic increase in attitude strength in tidy settings than in messy settings. This difference was not significant for the theft of low value and medium value items in tidy and messy settings. As suggested by Cialdini et al. (2006), normative influence may already be exerted in clean settings (conveying an anti-littering norm) and thus the theft of low cost items drew no extra attention to the anti-theft injunctive norm; medium and high value items on the other hand may still focus some more attention to this anti-theft norm. In messy settings, which may have downplayed the saliency of the anti-theft injunctive norm (i.e., cross norm inhibition effect, see Keizer et al., 2008), the value of a stolen item seemed to compensate, at least partly, for the inhibition of the anti-theft injunctive norm.

Finally, the interaction effect between the value of a stolen item and the privateness of a setting on attitudes towards theft was in part supported (*Hypothesis 5*). That is, attitudes towards theft were less affected by the value of a stolen item in public settings where the injunctive norm was already more salient, than in private settings where the anti-theft injunctive norm was assumed to be less focal. There was a significant difference between medium and high value items and private and public environments, with the theft of a high value item producing a less dramatic increase in attitude strength in public than in private settings. There was no significant difference between the theft of low value and medium value items in public and private settings. This result is in line with assumptions from Lapinski and Rimal (2005) and Reno et al. (1993) who assume that both the privateness of the setting as well as the value of a stolen item may activate an injunctive norm towards anti-theft. Our results therefore suggest that there is a ceiling-effect for the activation of the anti-theft injunctive norm; if the injunctive norm for anti-theft is already salient, as is the case in public settings, the theft of a low value item will not draw any more attention to the anti-theft injunctive norm; medium and high value items on the other hand may be focusing attention to this anti-theft norm slightly more. However, in private settings, where the injunctive norm is not salient, the value of a stolen item contribute to the attitudes towards theft regardless of whether the value of the stolen item is low, medium or high.

Although our results are consistent with our expectations, it may be argued that the privateness of the setting was not the factor addressed in the theft scenarios. The thefts in the private scenarios detailed the appropriation of a known housemates wine, whereas no relationship between shop owner and perpetrator of theft was described in the scenarios for public settings. Individuals evaluating their attitudes towards theft in the private settings may have been influenced by the possibility that consent to take the wine would have been given if the owner knew about the circumstances. However, neither in the public or the private theft scenarios it was insinuated that consent was given to take the item. In the eyes of the law, if it is believed that consent is given, the appropriation of property is not considered theft (Her Majesty's Stationery Office, 1968). The fact that no such consent was insinuated in our scenarios makes it less likely that the extent to which the owner would agree with taking such item was a confounding factor in our study. However, future studies should more clearly distinguish between the privateness of the setting and the extent to which the perpetrator knows the victim of theft.

The predictive power of attitudes has been shown to be significant in predicting a variety of normative behaviors (e.g., Anker, Feeley, & Kim, 2010; Chen & Chiu, 2009; De Groot & Steg, 2007; Hurd, Zimmerman, & Reischl, 2011), including theft intentions and behaviors (e.g., Tonglet, 2002; Cronan & Al-Rafee, 2008; Henle et al., 2010; Wang et al., 2009). However, attitudes may not always result in subsequent behavior. The use of scenarios allows for complex manipulations of multiple variables; which may be hard to achieve and time consuming when using field studies. It would however be useful to know if the findings of this study are replicable in field studies that measure observable behaviors.

Findings of this research show which cues in the environment could function as normative cues in a theft situation which may potentially have practical implications for theft deterrence. Findings for example provide an explanation of why it is important to decrease feelings of privacy to decrease positive attitudes towards theft. Decreasing feelings of privacy increases the likelihood that someone believes the behavior will be observed. This knowledge is already widely applied in public communities and retail via the use of CCTV cameras. But even relatively easy and less costly cues could potentially decrease one's feelings of privacy. For example, simple cues, such as showing an image of a pair of eyes (Bateson, Nettle, & Roberts, 2006), making one believe that someone is watching them (Piazza, Bering, & Ingram, 2011), or priming with religious concepts (Shariff & Norenzayan, 2007), could potentially support an anti-theft injunctive norm. Future research should examine

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how such cues result in norm activation, hereby decreasing the occurrence of theft.

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