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COGNITION

Cognition xx (xxxx) 1–19

www.elsevier.com/locate/COGNIT

Identification, situational constraint, and social cognition: Studies in the attribution of moral responsibility

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Received 4 April 2005; revised 25 May 2005; accepted 25 May 2005

Abstract

In three experiments we studied lay observers' attributions of responsibility for an antisocial act (homicide). We systematically varied both the degree to which the action was coerced by external circumstances and the degree to which the actor endorsed and accepted ownership of the act, a psychological state that philosophers have termed 'identification'. Our findings with respect to identification were highly consistent. The more an actor was identified with an action, the more likely observers were to assign responsibility to the actor, even when the action was performed under constraints so powerful that no other behavioral option was available. Our findings indicate that social cognition involving assignment of responsibility for an action is a more complex process than previous research has indicated. It would appear that laypersons' judgments of moral responsibility may, in some circumstances, accord with philosophical views in which freedom and determinism are regarded to be compatible.

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Keywords: Social cognition; Responsibility; Attribution; Identification

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0022-2860/\$ - see front matter © 2005 Published by Elsevier B.V.

doi:10.1016/j.cognition.2005.05.002

1. Introduction

The ascription of moral responsibility is ubiquitous in both everyday social interaction and institutionalized social practices. The ways in which people understand and assign responsibility have been of great interest to psychologists and cognitive scientists studying social cognition and the attribution of responsibility, as well as to philosophers working in ethical theory. However, the folk theories that social perceivers employ in ascribing responsibility remain incompletely understood.

Empirical research on folk theories addressing the assignment of responsibility has its basis in attribution theory. Jones & Davis (1965) developed their theory of “correspondent inference” to articulate the conditions under which the observer of another person’s actions would believe that those actions “corresponded” with or were indicative of the underlying actor’s intentions, attitudes, or traits. They suggested that observers make correspondent inferences only after concluding that an actor is free to choose to perform the observed act, versus being constrained to do so by external factors. Kelley’s (1972) “discounting principle” expresses the same conclusion. It maintains that attributions regarding characteristics of an actor, based on observations of that actor’s behavior, are made only when the observed behavior is thought to be unconstrained. Conversely, in cases where an act is performed under extreme constraint, inferences about characteristics of the actor are expected to be “discounted.”

The empirical research, however, has shown that observers sometimes fail to discount the informational value of behavior that is compelled or coerced. In a long run of “no choice” experiments associated with Jones (1990), participants made correspondent inferences (attributed characteristics to the actor) even when it appeared to be obvious that the actions they observed were produced by strong and visible external constraints. In subsequent research, this tendency toward “overattribution” (Quattrone, 1982) has been demonstrated for a wide variety of attitudes and traits, leading Ross (1977) to coin the now famous “fundamental attribution error” term to describe this effect (cf. Darley & Cooper, 1998; Gilbert & Malone, 1995; Jones, 1990; Ross & Nisbett, 1991).

Recent work (e.g., Malle, 1999; McClure, 1998) has complicated the picture somewhat and has suggested that the person/situation dichotomy of causes, upon which much attribution research is predicated, is an overly simplistic framing of ordinary persons’ thinking, and recent empirical studies indicate that overattribution may be less pervasive than suggested by early demonstrations of the “fundamental attribution error” (Fein, Hilton, & Miller, 1990; Hilton, Fein, & Miller, 1993; see Gilbert & Malone, 1995, for discussion). Although this recent research suggests important qualifications regarding the nature and extent of overattribution, the cumulative weight of evidence indicates that when behavior is constrained, perceivers regularly attribute more influence to characteristics of the person, as opposed to properties of the situation, than the discounting principle would predict.

According to various psychological theories (Darley & Shultz, 1990; Shaver, 1985; Shultz & Schleifer, 1983), the personal characteristic of actors that most influences observers’ attributions is the actor’s perceived *causal role* in an outcome. Some of the more recent psychological accounts of responsibility attribution emphasize the extent to which a given outcome is in the actor’s “control” and is intentionally brought about

91 (Alicke, 2000; Schlenker, Britt, Pennington, Murphy, & Doherty, 1994; Weiner, 1995).
92 According to Schlenker et al.'s (1994) "triangle model" of responsibility, actors are likely
93 to be held responsible when there is a perceived link between the event and the actor, such
94 that the actor is viewed as having foreseen and "freely" brought about the event. Alicke's
95 (2000) "culpable control" model of blame assignment posits various forms of personal
96 control that are attended to by observers in attributing moral responsibility. One of these is
97 "volitional outcome control," i.e. the extent to which the observer desired and foresaw the
98 outcome of her action. Similarly, Reeder, Kumar, Hesson-McInnis, & Trafimow (2002)
99 found that participants judging the morality of an actor paid more attention to the actors'
100 motives, such as self-interest, than to "facilitating situational forces." Weiner's (1995)
101 theory of responsibility also emphasizes the attribution of psychological states to the actor
102 in the assessment of credit and blame; Weiner contends that in some circumstances
103 observers may assign responsibility before evaluating mitigating contextual factors. While
104 recent theories retain the familiar emphasis on the actor's causal role, especially causally
105 efficacious psychological antecedents of behavior, these theories recognize that
106 individuals can be connected to actions in highly complex ways that are not well
107 summarized by relatively simplistic attributional principles, such as the discounting
108 principle.

109 Philosophers often have maintained that individuals should not be held accountable for
110 acting or failing to act when insufficient capacity for appropriate behavior is present, or
111 when operating under constraints they could not be reasonably expected to resist (Smith,
112 1961; Wallace, 1994). These philosophical intuitions also are evident in legal practice
113 (Robinson, 1996), in that we do not hold children accountable for acts that would
114 constitute criminal conduct in an adult, nor do we court martial military personnel who
115 denounce their country while being tortured as prisoners of war. Indeed, many
116 philosophers have endorsed a principle similar to the psychologist's causal discounting
117 principle: if a behavior is determined by factors outside of the actor's control, the actor is
118 not morally responsible for that behavior.

119 Here the philosophical discussion of "freedom and determinism" becomes relevant
120 and we will briefly review it. The problem is among the most controversial and
121 recalcitrant in philosophy, and numerous commentators have observed that existing
122 theoretical accounts of responsibility have difficulties, perhaps insoluble difficulties (e.g.
123 Kane, 2002; Nagel, 1986). How can people act freely, it is asked, if, as the "scientific
124 world view" holds, all behavior is causally determined by antecedent forces, forces
125 beyond the actor's control?

126 There are three standard responses to this question. *Hard determinists* deny that people
127 are ever responsible for their behavior, while *libertarians* insist that causal determinism is
128 not always true in the case of human behavior, thereby allowing for the possibility of
129 moral responsibility. These two groups are labeled *incompatibilists*, in that they both
130 regard causal determination of behavior as incompatible with moral responsibility.
131 Incompatibilists subscribe to the famous "principle of alternate possibilities," which states
132 that one is morally responsible for what one has done only if one could have done
133 otherwise. *Compatibilists*, on the other hand, assert that moral responsibility and causal
134 determinism can be simultaneously maintained and that people may be legitimately held
135 responsible in violation of this principle, even when they could *not* have done otherwise.

136 An influential compatibilist approach is associated with the philosopher Harry
137 Frankfurt (1988; cf. Bratman, 1996; Velleman, 1992). Frankfurt contends that judgments
138 of responsibility for behavior should be governed by the extent to which the actor
139 “identifies” with the behavior and the motivations that produce the behavior (Doris, 2002;
140 Frankfurt, 1988). An actor identifies with a behavior (or its motives) when she “embraces”
141 that behavior (or its motives) or performs the behavior “wholeheartedly” (Bratman, 1996;
142 Frankfurt, 1988); we might say that an actor identifies with a behavior to the extent that it
143 expresses her “fundamental evaluative orientation” (Watson, 1996). When Dan happily
144 donates some money to the office charity because he is deeply committed to giving, he
145 identifies with his behavior, and is, therefore, to be credited even if his boss has pressured
146 him to donate. The converse of identification occurs when the actor is “alienated” from the
147 desires or motives associated with the behavior, where the desires seem to result from
148 factors external to the self. For example, when Julie grudgingly and unwillingly
149 contributes to the office charity solely to appease her boss, she does not identify with the
150 act of giving, and therefore is not to be praised for the “charitable” deed.

151 While the kind of compatibilism described above has considerable intuitive appeal in
152 these cases, it has implications that appear to be strikingly counterintuitive when
153 generalized: specifically, the theory appears to imply that persons may be held responsible
154 even when they operated in the grip of forces compelling that action. In the studies we
155 report in this article, we investigate whether participants attribute elevated responsibility
156 to actors who are coerced to perform actions they also strongly desire to perform.

157 In the present study we examine empirically the following questions: (1) What is the
158 effect of an actor’s degree of identification with an act on observers’ attributions of
159 responsibility? (2) What is the effect of situational constraint on observers’ attributions of
160 responsibility? (3) To what degree do constraint and actor identification interact as
161 influences on observers’ attributions of responsibility? More specifically, does a high
162 desire to commit the act increase attributions of responsibility even when the act seems
163 compelled, or at least strongly coerced by external circumstances?

164 We use the term “identification” to denote the degree to which an actor wants or desires
165 to perform behavior and maintains a positive “fundamental evaluative orientation”
166 (Watson, 1996) toward that behavior. We investigate the variable of identification together
167 with a more familiar causal factor, the degree to which the actor was coerced or compelled
168 to perform the action. Our hypothesis is that an agent’s identification with a behavior
169 influences responsibility attributions to that actor, even when the actor is strongly
170 constrained to do the action. The significance of this hypothesis, if supported, is two-fold.
171 First, it indicates that habits of responsibility attribution are influenced by factors other
172 than the causal/explanatory factors implicated in the theories reviewed above. Second, it
173 suggests that one philosophical account of responsibility, the “identificationist” account
174 associated with Frankfurt, is reflected in the way ordinary people think.

175 Three experiments are described. In the first two experiments, we systematically varied
176 identification, here operationalized as the extent to which an actor both endorses an action
177 and desires to perform it. Identification was crossed with the level of constraint, or the
178 degree to which the act was coerced. The third experiment includes a check on the
179 independent variable manipulation of constraint employed in the first two experiments.
180

181 2. Experiment 1

182

183 In Experiment 1, we assessed the impact of varying levels of identification and
184 situational constraint on the attribution of responsibility for a violent action, the killing of
185 another person. We hypothesized that both external constraint and the actor's level of
186 identification would affect judgments of responsibility for the action, even when the action
187 was highly constrained.

188

189 2.1. Method

190

191 2.1.1. Participants and procedure

192 Seventy-two (34 female and 38 male) University of California, Santa Cruz
193 undergraduates enrolled in philosophy classes participated in the experiment as
194 volunteers. Participants were randomly assigned to experimental conditions and were
195 supervised as they completed the materials individually during class time.

196

197 2.1.2. Materials

198 Each participant read 1 of 4 different vignettes. The vignettes reflected a
199 2(Identification: low vs. high) × 2(Constraint: medium vs. high) between-participants
200 design. The initial section of each vignette was common to all four conditions. In this
201 section two married couples, Susan and Bill and Elaine and Frank, are depicted on a
202 Caribbean vacation, and subsequently on board an airliner returning home. It is revealed
203 that Susan and Frank have been involved in a love affair and that Bill has discovered proof
204 of the affair.

205 In the *High Identification* condition participants read:

206

207 The humiliation and betrayal were almost more than he could bear. These were the two
208 people he trusted most in the world. During the three days of the vacation that
209 remained, he wrestled with the issue. He thought of many ways of retaliating. Finally,
210 he decided that there was only one way he could deal with it. Bill decided that he would
211 kill Frank.

212

213 In the *Low Identification* condition participants read:

214

215 During the three days of the vacation that remained, he wrestled with the issue. Finally,
216 he decided that if Susan and Frank wanted to be together, he would not stand in their
217 way. He would confront them with the evidence and assume that whatever happened
218 would be for the best. He really cared for both of them and wanted to be a forgiving
219 person. He felt somewhat at peace with himself.

220

221 In the *High Constraint* condition, the next section of the narrative was the following:

222

223 On the return trip home their plane was hijacked by a gang of 8 kidnapers. The pilot
224 was forced to land in Bermuda, where the hijackers demanded a ransom of 5 billion
225 dollars. To show the government their ruthlessness, the hijackers executed an elderly

226 male passenger. They then seized two of the male passengers, Bill and Frank. The
227 leader of the hijackers handed Bill a pistol with one bullet in it. With four machine guns
228 pointed at him, Bill was ordered to shoot Frank in the head. He was told that if he did
229 not obey, Frank, himself, and 10 other passengers would be killed. Bill realized that
230 there was no way to resist or overpower the hijackers, because he and the other
231 passengers were no match for 8 heavily armed men; any attempted heroics on his part
232 would result in more loss of life than obeying the hijackers' orders.
233

234 In the *Moderate Constraint* condition, the same basic situation was depicted, but
235 modified to lessen the degree to which Bill's shooting of Frank was compelled by the
236 circumstances. The vignette in this condition altered the description to make resistance to
237 and refusal of the hijackers' order appear a more viable behavioral option. It contained the
238 following wording:

239
240 On the return trip home their plane was hijacked by a gang of 3 kidnapers. The pilot
241 was forced to land in Bermuda, where the hijackers demanded a ransom of 5 billion
242 dollars. To show the government their ruthlessness, the hijackers executed an elderly
243 male passenger. They then seized two of the male passengers, Bill and Frank. The
244 leader of the hijackers handed Bill a pistol with one bullet in it while another hijacker
245 pointed a pistol at Bill. The third hijacker was in the pilot's cabin shouting angrily. At
246 that moment, they were interrupted by an amplified voice ordering the hijackers to
247 surrender immediately. Looking out the window, Bill saw that the plane was
248 surrounded by heavily armed anti-terrorist forces. Bill quickly reviewed his options. He
249 could try to persuade the hijackers that their situation was hopeless. He could stall until
250 the anti-terrorist forces stormed the plane. The hijackers had been distracted by the
251 arrival of the armed troops. Both the leader and the man holding a gun on Bill were
252 nervous, frequently glancing out the windows of the plane. Perhaps, Bill thought, he
253 could shoot the hijacker with the gun and the rest of the passengers could subdue the
254 other two kidnapers. It was a risky move, but it could work. Bill thought he just might
255 be able to pull it off, but the hijackers were angrily ordering him to "get on with it."
256

257 Next, in the *High Identification* condition, participants read:

258
259 Despite the desperate circumstances, Bill understood the situation. He had been
260 presented with the opportunity to kill his wife's lover and get away with it. And at that
261 moment Bill was certain about his feelings. He wanted to kill Frank. Feeling no
262 reluctance, he placed the pistol at Frank's temple and proceeded to blow his friend's
263 brains out.
264

265 Alternatively, in the *Low Identification* condition, participants read:

266
267 Bill was horrified. At that moment Bill was certain about his feelings. He did *not* want
268 to kill Frank, even though Frank was his wife's lover. But although he was appalled by
269 the situation and beside himself with distress, he reluctantly placed the pistol at Frank's
270 temple and proceeded to blow his friend's brains out.

271 After reading the vignettes, participants completed an 8-item questionnaire (Likert-
272 type, 7-point scale).

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2.1.3. *Dependent variables*

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2.2. *Results*

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Table 1

Factor loadings of dependent variables (Experiment 1)

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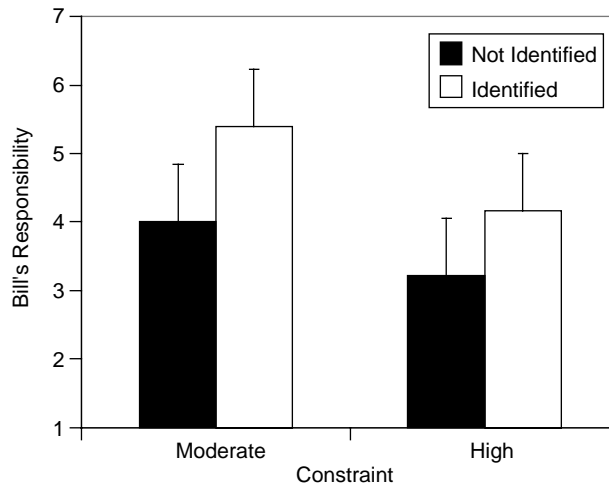
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Items	Factor 1	Factor 2
The hijackers are responsible for Frank's death.	−0.11	0.86
A person who does what Bill did should feel guilty.	0.87	0.05
Bill is a person of good character.	−0.39	0.26
The act Bill committed was wrong.	0.84	−0.08
Bill acted properly.	−0.64	0.13
Bill is to blame for Frank's death.	0.72	−0.17
The hijackers are to blame for Frank's death.	−0.05	0.89

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332 Fig. 1. Mean levels of responsibility attributed to actor different levels of identification constraint.

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to produced the scale for Factor 1 and two items made up the scale for Factor 2 (values of items with negative loadings were reversed). The Factor 1 scale correlated highly with the study's primary dependent variable, Bill's Responsibility, $r(70)=0.78$, $P<0.001$. This scale was labeled Bill's Blameworthiness. The Factor 2 scale was labeled Hijacker Responsibility and was weakly correlated, negatively, with Bill's Responsibility, $r(70)=-0.11$, n.s. The scales for Factor 1 and Factor 2 were negatively correlated, $r(70)=-.24$, $P<0.05$.

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Each of the two scales corresponding to Bill's Blameworthiness and Hijacker Responsibility was subjected to the same analysis employed on Bill's Responsibility, a two-way univariate ANOVA (Identification \times Constraint). Given that conducting these additional exploratory ANOVAs raises the probability of making a Type I error within the experiment, we made a bonferroni-like adjustment by setting the statistical significance levels for the exploratory analyses at 0.0166. A significant main effect for Identification, $F(1,68)=11.74$, $P<0.001$, emerged on Bill's Blameworthiness. Higher Identification was associated with the higher scores on Bill's Blameworthiness, indicating the assignment of greater culpability and impropriety. Higher scores on Bill's Blameworthiness also were assigned when Bill operated under less Constraint, $F(1,68)=10.90$, $P<0.002$. Means associated with these effects are depicted in Fig. 2.

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Scores on Hijacker Responsibility were significantly higher when Identification was lower, $F(1,68)=7.37$, $P<0.009$, reflecting that more responsibility was attributed to the hijackers when Bill was not identified with the shooting. A significant Identification \times Constraint interaction emerged, $F(1,68)=13.78$, $P<0.0004$, showing that responsibility assigned to the hijackers was diminished only when Bill was both identified and operated under less constraint. The main effect for Constraint on Factor 2 failed to achieve statistical significance ($P>0.06$).

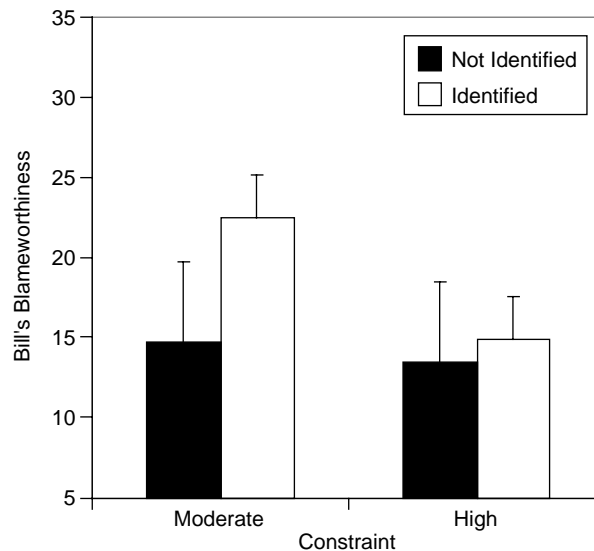


Fig. 2. Mean Factor 1 scores (Bill's Blameworthiness) at different levels of identification and constraint.

2.3. Discussion

Despite the presence of coercive circumstances that involved strong constraint upon behavior, the level of the actor's identification appeared to influence variables measuring the assignment of responsibility for an action. These findings, coupled with the fact that varying the level of constraint also affected responsibility attribution, led us to conduct a second experiment to replicate the effects observed and to examine the influence of identification upon responsibility attribution when the degree of constraint was increased to levels in excess of those employed in Experiment 1.

3. Experiment 2

3.1. Method

In Experiment 2 we sought extend the findings of Experiment 1 by further increasing the level of constraint under which the action was performed. The reader might be startled by the thought that multiple automatic weapons pointed at the actor would not constitute a maximally coercive situation. But some philosophers with whom we discussed our findings argued that, even in such circumstances, participants may have believed that it was possible for Bill to refrain from shooting Frank. These philosophers asserted that we had not produced a scenario in which the actor was *unable* to do otherwise, that we had not created a situation in which there was no alternate possibility.

To respond to this critique, we constructed a condition in which the actor operates under what we now term "absolute constraint," as contrasted with what we would now call

406 the “practical constraint” operationalized in Experiment 1. In this Absolute Constraint
407 condition Bill is administered a “compliance” drug that makes him unable to resist the
408 demands of the hijackers. To insure the validity of this condition we instructed participants
409 to “suspend disbelief” as to the facts specified, especially in regard to the power of a drug
410 to effect total compliance. This is a familiar technique in philosophical “thought
411 experiments” (see Doris & Stich, 2004) designed to test intuitions that cannot be readily
412 evaluated using responses to plausible naturalistic scenarios. It is difficult to create a
413 scenario in which an intentional action occurs, but is such that the actor indisputably could
414 not have done otherwise, as indeed our philosophical interlocuters’ comments on the
415 previous experiment suggested. To this end, we asked participants to evaluate the behavior
416 depicted in the vignette while assuming the absolute efficacy of the “compliance drug.”

417 The design of the experiment was a 2×3 factorial. We examined the two levels of
418 Identification: High and Low. The two Constraint conditions from Study 1 were replicated
419 and a third condition, *Absolute Constraint*, was added.

420

421 3.1.1. Participants and procedure

422 Forty-eight (27 female and 21 male) University of California, Santa Cruz
423 undergraduates enrolled in philosophy classes participated in the experiment as
424 volunteers. Participants were randomly assigned to experimental conditions and were
425 supervised as they completed the materials individually during class time.

426

427 3.1.2. Materials

428 Each participant read 1 of 6 different vignettes. The vignettes reflected a
429 2(Identification: low vs. high)×3(Constraint: moderate vs. high vs. absolute) between-
430 participants design.

431

432 The initial section of each vignette was common to all six conditions and was identical
433 to that employed in Experiment 1, describing the relationships among the principals. High
434 and Low Identification were depicted using the exact wording of Experiment 1. In the
435 Moderate and High Constraint conditions the identical wording from Experiment 1 was
436 employed. The *Absolute Constraint* condition was created by the following wording:

436

437 On the return trip home their plane was hijacked by a gang of 8 kidnapers.... They
438 then seized two of the male passengers, Bill and Frank. The leader of the kidnapers
439 injected Bill’s arm with a “compliance drug”—a designer drug similar to sodium
440 pentathol, “truth serum.” This drug makes individuals unable to resist the demands of
441 powerful authorities. Its effects are similar to the impact of expertly administered
442 hypnosis; it results in total compliance. To test the effects of the drug, the leader of the
443 kidnapers shouted at Bill to slap himself. To his amazement, Bill observed his own
444 right hand administering an open-handed blow to his own left cheek, although he had
445 no sense of having willed his hand to move. The leader then handed Bill a pistol with
446 one bullet in it. Bill was ordered to shoot Frank in the head... But when Bill’s hand and
447 arm moved again, placing the pistol at his friend’s temple, Bill had no feeling that he
448 had moved his arm to point the gun; it felt as though the gun had moved itself into
449 position. Bill thought he noticed his finger moving on the trigger, but could not feel any
450 sensations of movement. While he was observing these events, feeling like a puppet,

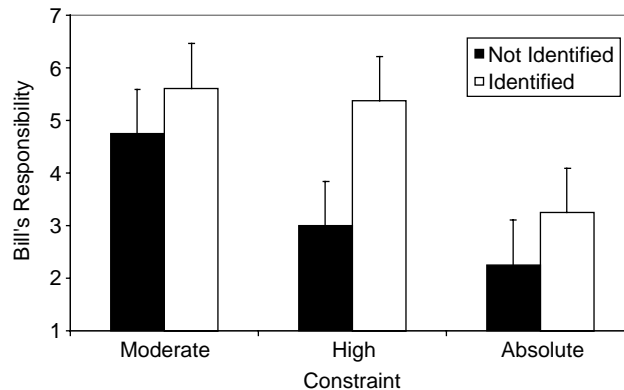


Fig. 3. Mean levels of responsibility attributed to actor at different levels of identification and constraint.

passively observing his body moving in space, his hand closed on the pistol, discharging it and blowing Frank's brains out.

3.2. Results

The same dependent variables used in Experiment 1 were employed in this experiment. Because our primary experimental hypothesis involved the assignment of responsibility, as in Experiment 1, an initial two-way (Identification \times Constraint) univariate analysis of variance was performed upon the item assessing Bill's Responsibility. Fig. 3 depicts the all the cell means of this analysis.¹ A significant main effect was found for Identification $F(1,42)=9.89$, $P<0.003$. When Bill was identified with the act, he was held more responsible than when not identified. A significant main effect for Constraint, $F(2,42)=9.87$, $P<0.0003$, indicated that when Constraint was higher, Bill was regarded as less responsible. A posteriori comparisons of the Constraint cell means, employing Tukey's HSD, determined all pairwise differences between cell means to be statistically significant, except that between Moderate Constraint and High Constraint $P_s<0.016$.

As in Experiment 1, a principal-components analysis with varimax rotation was performed on the questionnaire item scores. Two factors emerged with eigen values greater than 1.0, accounting for 67.1% of the variance. The factor structure derived in Experiment 1 was cross-validated, in that a very similar pattern of item loadings was observed (see Table 2).

¹ The reader will note that even in the Absolute Constraint condition, when the actor also does not wish to commit the act, some responsibility is still attributed, suggesting something of a "floor effect" on the scale, i.e. that not all participants are willing to assign values at the extreme low end of the scale (see Table 4). Although a similar, but smaller, "ceiling effect" will emerge in Experiment 3, at the high end of the responsibility scale, we do not have data that tells us how much responsibility participants would assign to an actor who is both unconstrained in any apparent way and who also desires to commit the act.

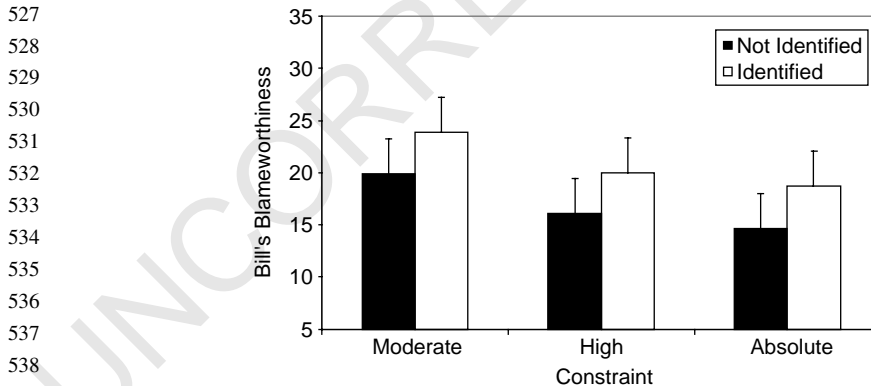
496 Table 2
497 Factor loadings of dependent variables (Experiment 2)

498 Items	Factor 1	Factor 2
499 The hijackers are responsible for Frank’s death.	−0.22	0.90
500 A person who does what Bill did should feel guilty.	0.71	−0.17
501 Bill is a person of good character.	−0.36	0.22
502 The act Bill committed was wrong.	0.74	−0.01
503 Bill acted properly.	−0.73	0.12
504 Bill is to blame for Frank’s death.	0.84	−0.14
504 The hijackers are to blame for Frank’s death.	−0.12	0.94

506 The factors again were named Bill’s Blameworthiness and Hijacker Responsibility.
507 Creating a factor scale for each factor by an unweighted summation of those items that
508 loaded at 0.50 or higher, produced two scales with identical item compositions to those of
509 Experiment 1.

511 Each scale score for Bill’s Blameworthiness and Hijacker Responsibility was
512 subjected to the same univariate ANOVA described above. A main effect for Identification
513 on Bill’s Blameworthiness emerged, $F(1,42)=7.95, P<0.008$. Bill’s Blameworthiness
514 was higher when the actor was identified than when not identified. A main effect also was
515 observed for Constraint on Bill’s Blameworthiness, $F(2,42)=4.79, P<0.014$. As depicted
516 in Fig. 4, means on this variable were inversely proportional to the level of Constraint. A
517 posteriori pairwise comparisons (Tukey’s HSD) among Constraint cell means determined
518 the only significant difference ($P<0.016$) to be that between the means of the Moderate
519 Constraint and Absolute Constraint conditions.

520 Significant main effects on Hijacker Responsibility were observed for both
521 Identification, $F(1,42)=14.76, P<0.0005$, and Constraint, $F(2,42)=14.41, P<0.0001$.
522 Hijacker Responsibility was rated lower when the Bill was identified with the act. Hijacker
523 Responsibility scores were directly proportional to the level of Constraint. When Bill
524 operated under Absolute Constraint, Hijacker Responsibility scores were highest ($M=$
525 $12.69, SD=1.92$), under High Constraint ($M=11.31, SD=2.09$) scores were
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540 Fig. 4. Mean factor 1 scores (Bill’s Blameworthiness) at different levels of identification and constraint.

541 intermediate, and Moderate Constraint ($M=8.69$, $SD=3.48$) yielded the lowest scores on
542 Hijacker Responsibility. A posteriori comparisons of every Constraint cell mean
543 employing Tukey's HSD determined all pairwise differences between cell means to be
544 statistically significant except that between Moderate Constraint and High Constraint,
545 $P_s < 0.016$. As in Experiment 1, a significant Identification \times Constraint interaction
546 occurred, $F(2,42)=4.58$, $P < 0.016$, reflecting the disproportionately low assignment of
547 responsibility to the hijackers when Bill was both identified and operating under the least
548 constraint.

549

550 3.3. Discussion

551

552 The findings of Experiment 2 replicated and extended the principal findings of
553 Experiment 1. Our data suggested that observers are inclined, under some circumstances,
554 to hold actors who identify with an act more responsible than unidentified actors, even
555 when it is highly plausible to suppose that the actor "could not have done otherwise."
556 These findings are discussed at length in the General Discussion.

557

558

559 4. Experiment 3

560

561 In the previous two experiments, we created stories designed to cause experimental
562 participants to perceive that the act of killing another person occurred under considerable
563 constraint. We wrote different versions of the experimental scenarios designed to differ in
564 the degree of constraint they depicted. Although many of our actor responsibility measures
565 are indirect indications of the degree of constraint that the participants perceived, we did
566 not directly ask participants in Experiments 1 and 2 to rate the degree to which the actor
567 had been constrained, because we did not want to alert them to our interest in theoretical
568 issues having to do with levels of constraint. So in the present study, we present data on the
569 degree of constraint or coercion to which the actor was perceived to be subjected in the
570 experimental vignettes.

571 We presented participants with three vignettes (with the identification manipulation
572 removed), each containing one of the three levels of constraint used in the previous
573 experiments. We also included a condition in which the actor shoots the victim under *no*
574 ostensible constraint or coercion.

575

576 4.1. Method

577

578 4.1.1. Participants and procedure

579 Forty-eight (28 female and 20 male) Princeton University students participated in the
580 experiment in order to fulfill requirements for participation in Psychology Department
581 research. Participants filled out various short "paper and pencil" research projects from
582 various investigators. The projects were chosen for their theoretical and mundane
583 dissimilarity, and the order of the questionnaires randomized to minimize order effects.
584 Participants reported to a specified room at set times, and were given packets containing
585 the various questionnaires by an experimenter.

586 4.1.2. Materials

587 Each participant read all four vignettes. The No Constraint vignette contained the
588 material common to all vignettes and included the material below:

589 Bill was shocked and upset. After wrestling with the issue, he purchased a black market
590 handgun. On the last day of their vacation, Bill followed Frank as he walked through
591 the back streets of the city they were visiting. When the opportunity presented itself, he
592 placed the pistol at Frank’s temple and proceeded to blow his friend’s brains out.
593

594 The No Constraint vignette was presented first to all participants. The order of the
595 remaining three vignettes was counterbalanced to yield six different orders of presentation.

596 Participants rated the conduct depicted in each vignette on a 6-item, manipulation-
597 check questionnaire that assessed the degree to which Bill “was constrained,” “was
598 forced,” “was free to do other than he did,” “had a choice,” “could have behaved
599 differently,” and whether it was “reasonable” to expect him to have behaved differently.
600 Items were Likert-type, with 7-point scales.
601

602 4.2. Results

603 Because the six questionnaire items were highly correlated ($r_s > \pm 0.28$), instead of
604 univariate tests a one-way repeated-measures multivariate analysis of variance was
605 conducted. Constraint was the classification variable (4 levels, within participants) and all
606 six dependent variables were included. This analysis was significant, $F(3, 45) = 153.77$,
607 $P < 0.001$. A posteriori Tukey’s HSD tests indicated that each level of Constraint was
608 significantly different from every other level, $P_s < 0.005$. No Constraint was associated
609 with the greatest perceived freedom, Moderate Constraint linked with less freedom, High
610 Constraint with still less freedom, and Absolute Constraint associated with the lowest
611 ratings of freedom. Table 3, which shows the means for Item 3 (“was free to do other than
612 he did”), provides some sense of the relative degree of freedom that was attributed to Bill
613 in the four conditions.
614

615 After reading the No Constraint vignette, participants also were asked to rate Bill’s
616 responsibility for Frank’s death on the same item that was the principal dependent variable
617 in Experiments 1 and 2. The mean rating of Bill’s Responsibility ($M = 6.44$, $SD = 1.38$) in
618 the No Constraint condition was higher than any cell mean rating on that item for any
619 condition in Experiments 1 or 2. A somewhat more concrete understanding of the effect of
620 the constraint manipulation in Experiments 1 and 2 upon responsibility ascriptions to the
621 actor can be achieved by comparing the mean for Bill’s Responsibility under No
622 Constraint in Experiment 3 with the means associated with the different levels of
623 Constraint in Experiments 1 and 2. This is done in Table 4.
624

625 Table 3
626 Mean assignment of freedom to the actor (Bill) by level of situational constraint (7-point scale)

627 Item	No constraint	Moderate 628 constraint	High 629 constraint	Drug-induced, “absolute” constraint
630 Free “to do other than he did”	6.63	5.21	3.08	1.98

631 Table 4
 632 Mean assignment of responsibility to the actor (Bill) by level of situational constraint and level of identification
 633 (7-point scale)

634 Actor's level of 635 identification	Moderate constraint	High constraint	Drug-induced, "absolute" constraint	No constraint (identification not manipulated)
636 Identified	5.49	4.81	3.25	6.44
637 Not identified	4.38	3.11	2.25	

638
 639 Means for moderate constraint and high constraint conditions are averaged across Experiments 1 and 2.

640

641 4.3. Discussion

642

643 The results of Experiment 3 provided support for the internal validities of Experiments
 644 1 and 2. It would appear that our manipulation was successful, in that the degree of
 645 coercion in the circumstances we portrayed caused participants to adjust their ratings of
 646 the actor's freedom and responsibility accordingly.

647

648

649 5. General discussion

650

651 In the preceding experiments we attempted to elucidate some aspects of lay moral
 652 cognition. We found participants' attributions of responsibility for an action to be
 653 influenced by the actor's attitude toward that action, even when the action was causally
 654 constrained to such a degree that there were no other behavioral options. The degree to
 655 which actors "identified" with an action was strongly associated with responsibility for the
 656 action being assigned to them.

657 Our results have relevance to various discussions of responsibility attribution in the
 658 psychology literature. Attributional analyses employing a "discounting principle" would
 659 require assignments of moral responsibility to vary largely with the extent to which the
 660 actor exerts causal control on the outcome. But our data suggest that the attribution of
 661 moral responsibility takes into account non-causal elements, such as identification, in
 662 addition to causal factors. These data thus augment recent empirical work that emphasizes
 663 observers' perceptions of the desires and intended outcomes of the actor (Alicke, 2000;
 664 Schlenker et al. 1994; Weiner, 1995). Our data support the view that information about
 665 outcomes that an actor desires can moderate or override the attributional effects of the
 666 actor's perceived control over events.

667 Schlenker et al. (1994) describe a component of responsibility attribution they call the
 668 "identity-event linkage," which is the degree to which an actor is perceived as linked with
 669 an action, a link that has to do with intending to bring the action about or acting to bring it
 670 about, and doing so in the absence of excusing circumstances. Our findings are consistent
 671 with much of this formulation, but we would suggest a refinement of the authors' view that
 672 "personal control over the event" is required. In the present studies an actor who desired an
 673 outcome was judged to be to some extent responsible, even though there were extenuating
 674 circumstances of the most extreme sort. Here participants appear either to have perceived a
 675 link between the actor and the public event, based largely on the actor's attitudes, or to

676 have assigned responsibility for the action based upon what participants construed to be an
677 internal and private event over which the actor did have personal control: his internally
678 desiring the outcome of an act that he was coerced to produce.

679 Alicke's (2000) theory of culpable control has deep roots in philosophy and therefore
680 addresses issues relevant to our findings. Alicke treats intention as separate from causation
681 in his analysis of his core construct of "personal control." His work suggests that the
682 perceived linkages among a person's intentions, behavior, and the ultimate outcomes of
683 that behavior are the key factors in judgments of culpability. Our work harmonizes with
684 his approach, in that we can be viewed as exploring situations in which there is either
685 consistency or inconsistency between an actor's desires and the actor's behavior, as well as
686 circumstances in which there is either congruence or incongruence between desire and
687 outcome. Alicke also stipulates that the same behavior can be judged as more or less
688 culpable simply on the basis of the actor's relevant attitudes. Our case to be accounted for
689 is the one in which some responsibility is attributed to an individual even when he was
690 coerced to take an action, because the outcome of that action was one he desired. In
691 Alicke's theory the machinery to account for this case is available in his constructs of
692 "volitional behavior control" and "volitional outcome control." As do most models of
693 responsibility attribution, his theory assigns an important role to the mitigating influence
694 of external constraints in reducing the assignment of blame. This formulation is consistent
695 with our general finding of reduced responsibility assigned for antisocial behavior as
696 external coercion to commit that behavior increased. What is not clear is whether our
697 finding of effects for identification in the presence of overwhelming constraint would be
698 predicted by his theory. Some indication that the theory might allow for such phenomena
699 is Alicke's assertion that observers tend to assume agency and assign blame as a default,
700 subsequently adjusting attributions for mitigating factors. This then would be the classic
701 anchor and adjustment process, in which it is known that the adjustment is generally
702 insufficient to move the attributions appropriately far away from the initial anchor.

703 With respect to the philosophical literature, it appears that in at least some contexts the
704 tacit theory of responsibility employed by social perceivers is not straightforwardly
705 incompatibilist; in particular, actors may be held responsible even in circumstances where
706 it is apparent they were coercively constrained to act as they did. For philosophers who
707 believe theories of responsibility should be strongly informed by everyday social practice,
708 as P.F. Strawson (1982) advocated, the data suggest that compatibilist theories may not be
709 contrary to lay practices. Our data suggest that the assumption, made by many
710 philosophers, that lay perceivers are "natural incompatibilists" (Kane, 2003, p. 300) is open
711 to question.

712 This is not to argue that folk theories of responsibility are uniformly compatibilist. In
713 fact, we would suggest that folk theories of responsibility are most likely *contextualist*,
714 meaning that differing considerations are salient to moral responsibility attribution in
715 different contexts, and that patterns of responsibility attribution may also vary culturally
716 and developmentally. For example, recent empirical work by Nichols (in press) suggests
717 that, at least in some situations, children (ages 3–6) treat the "could have done otherwise"
718 condition of the principle of alternate possibilities as a precondition of human agency. The
719 discourse of responsibility takes place in widely varying contexts and operates in
720 connection with diverse human interests. We might suspect that the along broad spectrum

721 of moral cognition related to responsibility ascription, which ranges from the
722 determination of criminal liability, to the assignment of credit for scientific discovery,
723 to deciding which sibling should have to clean up the spilled milk, complex considerations
724 often come into play. How “responsibility” is assessed in varying contexts is a wonderful
725 question for future research.

726 The present research supports some preliminary conclusions. We have provided
727 evidence that lay attributions of responsibility may, in some circumstances, accord with
728 philosophical views in which freedom and determinism are regarded to be compatible. We
729 have shown also that the ascription of responsibility is an even more complex process than
730 many theorists previously have contended. Adding the concept of identification to the
731 other factors known to influence responsibility attribution may assist in understanding
732 these complexities. Our findings indicate that further explorations of the construct of
733 identification are warranted.

734 One question worthy of further exploration concerns what might be called the duration
735 and depth of identification the actor has with the eventual outcome. All of us can have
736 fleeting desires to produce some morally negative outcome, such as seriously harming an
737 individual who criticizes a manuscript of ours. If at that moment some external constraints
738 cause us to injure the critic, do observers attribute the level of responsibility we have
739 observed in the present data (where the intention to harm is more enduring) for this
740 transitory intention to harm the other? Or do the observers treat the fleeting, emotion-
741 produced intentions of the moment as not counting as “identifying” with coerced harms of
742 the other? Questions such as these invite research attention.

743 The concept of identification, as we employ it, is somewhat broader than but seems to
744 include elements of “intention” or “intentional behavior,” as developed in the work of
745 Malle, Knobe, & colleagues (e.g., Malle, 1999; Malle & Knobe, 1997a,b). The concept of
746 identification also is related to that of “metadesire” or “second-order” desire, a desire to
747 have certain desires, and to have those desires influence one’s behavior. Recent research
748 by Pizzaro, Uhlmann, & Salovey (2003) found that manipulating perceptions of actors’
749 metadesires affected assignments of praise and blame for morally relevant conduct, a
750 result consistent with our data. Future research should be directed toward exploring the
751 connections between identification and such related concepts.

752 In summary, even in the case when an act was committed under conditions of absolute
753 and overwhelming constraint, responsibility attributions were powerfully affected in the
754 predicted direction by the identification manipulation. This finding is in violation of a
755 venerable psychological principle of social cognition, the “discounting principle,” and an
756 equally venerable philosophical principle, the “principle of alternative possibilities.” In
757 our estimation the best explanation of this phenomenon is that the cognition involving
758 moral attribution is strongly influenced by extra-causal factors, i.e. factors other than those
759 that are likely to figure in the most careful and thoughtful *causal* explanation of the
760 behavior in question. One such factor is the evaluative attitudes of the actor; what it is that
761 the actor wants to come about or wants not to come about. As we remarked above, moral
762 cognition involves evaluative as well as causal dimensions; it is an activity broader in
763 scope than the activity ascribed to “the intuitive psychologist” familiar in the social
764 cognition literature. What causes people to attribute responsibility, to praise or blame, is to
765

766 some extent what is believed to be in the “heart” of the actor and this is so even for actions
767 committed under overwhelmingly coercive or constraining circumstances.

768
769

770 6. Uncited references

771

772 Ekstrom (2000); Heider (1958); McKenna (2001).

773
774

775 Acknowledgements

776

777 The authors wish to express their gratitude to Lesley Allen, Joel Cooper, and Michael
778 Gara for various forms of assistance in this research and to thank the editor and three
779 anonymous reviewers for valuable comments on the manuscript.

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