BOOK REVIEW

NUDGING THE JUSTICE SYSTEM TOWARD BETTER DECISIONS

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DENNIS J. DEVINE, JURY DECISION MAKING: THE STATE OF THE SCIENCE (NYU PRESS 2012). 283 PP.


One of us has tacked a cartoon to the office door that shows three elderly gentlemen holding cocktails, obviously ill at ease in each other’s company—one looking down, a second glancing up, and a third whose gaze seems adrift. The caption reads, “A psychologist, a lawyer, and a shoe salesman attempting to mingle at a cocktail party.” This is obvious hyperbole because, as everyone knows, shoe salesmen can talk to all sorts of people,¹ and as we will show, psychologists and lawyers have much to discuss.² Two recent books, Jury Decision Making: The State of the

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² See, e.g., Randall W. Engle, Comment from the Editor, 20 CURRENT DIRECTIONS PSYCHOL. SCI. 3 (2011) (emphasizing the importance of psychological scientists in legal scholarship); see also EDIE GREENE & KIRK HEILBRUN, WRIGHTSMAN’S PSYCHOLOGY AND THE LEGAL SYSTEM (2013); JOHN MONAHAN & LAURENS WALKER, SOCIAL SCIENCE IN LAW:
Science\textsuperscript{3} by Dennis J. Devine and In Doubt: The Psychology of the Criminal Justice Process\textsuperscript{4} by Dan Simon, powerfully illustrate this symbiosis. Although the books are bidirectional in the sense that they present psychology’s role in legal processes as well as legal implications for the field of psychology,\textsuperscript{5} their emphases are decidedly on how psychological research can be used to improve legal policy, procedure, and practice.

To explore how legal processes and procedures can be improved through the use of research findings, we borrow the concept of “nudging,” popularized in the book entitled Nudge: Improving Decisions About Health, Wealth, and Happiness.\textsuperscript{6} Authors Richard H. Thaler and Cass R. Sunstein show that by considering the complex and occasionally irrational ways that people think, one can offer choices that make it easier for people to reach optimal decisions. We extend this thinking into the legal realm and show that Devine’s and Simon’s books both offer scientifically based, pragmatic alternatives to procedures and practices that currently hamper fair and efficient legal decisionmaking. We suggest that both Jury Decision Making and In Doubt show how legal decisions can be enhanced through science.

I. PSYCHOLOGICAL CONTRIBUTIONS TO THE LAW

In Jury Decision Making, Devine, an associate professor of psychology at Indiana University–Purdue University Indianapolis, provides the most thorough and comprehensive collection to date of the large body of psychological scholarship on the variables that influence jury decisions. Specifically, he cites the many methodological and theoretical contributions of psychologists to understanding jury decisionmaking. These include: (1)
trial practices related to jury size, decision rule, jury selection, and judicial instructions; (2) the effects of trial context, including exposure to pretrial publicity and inadmissible evidence and varying verdict options and standards of proof; (3) characteristics of trial participants, such as defendants' attractiveness, remorse, and prior records, and jurors' dogmatism, beliefs about the legal system, and approaches to evaluating evidence presented at trial; and finally, (4) aspects of the evidence, including its strength and issues specific to evidence from eyewitnesses, experts, and scientists. Devine relies on data from simulated and real juries alike on questions pertinent to both criminal and civil issues and includes studies of both individual jurors and interacting groups.

Devine claims that because there have been relatively few attempts to tie together this large body of empirical research, his primary goal was to "gather the many findings about juries and synthesize them into an overarching theoretical framework." Hence, the book's most original contribution is his integrative, multi-level theory of jury decision-making that is fleshed out in the second half of the book. As its title suggests, the theory proceeds on two levels of decision-making: by individual jurors and within the jury as a whole.

Devine analogizes an individual juror's decision-making to that of a film director who begins the process of shooting a film (reaching a decision) with a script in mind, forming images (in the juror's case, mental images) of the components of the story, and eventually arriving at a final cut (an individual, preliminary verdict preference). In the process, footage (evidence) that does not adhere well to the narrative being developed will be discarded, left on the cutting-room floor. Any ambivalence about the

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8 DEVINE, supra note 3, at 2.
cohesiveness of the narrative will trigger the construction of alternate endings—as disgruntled moviegoers can readily attest—or, in the jurors’ case, of alternative narratives.

Readers familiar with the influential story model developed by Nancy Pennington and Reid Hastie in the 1980s and 1990s9 might well ask how Devine’s model differs from that. Although the story model invokes notions of jurors’ expectations regarding how stories are constructed, Devine has more to say about the importance of jurors’ cognitive structures, termed schemas, including event-related constructions termed scripts and person-related constructions termed stereotypes. Devine articulates several other subcomponents of this part of his model, including the role of defendant characteristics, individual differences among jurors, and the persuasiveness of the prosecution’s or plaintiff’s evidence based on its scope, credibility, and singularity.

When deliberations begin, the process of decisionmaking shifts to “story sampling,” in which jurors share their personally constructed stories, and the group as a whole samples from these offerings. The likelihood that any individual juror’s story will emerge as the preferred, shared verdict depends on that juror’s status within the group and on the nature of his or her contributions (i.e., wholly constructed stories are more persuasive than scattered thoughts, observations, or questions). The nature of verdict-favoring factions, including their size, the effectiveness of their leaders, and the cohesiveness of faction members, also matter. The jury-related aspects of this model are, in our opinion, the particularly important contributions of Devine’s theorizing, because jury behavior has been studied much less intensively than individual jurors’ cognitive processes. Devine’s model impressively combines previously distinct concepts, such as minority and majority influence, normative and informational social influence, social sharing of information, and deliberation style. In addition, it suggests a number of novel and testable predictions that should keep Devine and other jury scholars busy for years to come.

In In Doubt: The Psychology of the Criminal Justice Process, Simon, a professor of psychology and law at the University of Southern California, reviews psychological research to explain why the predictable irrationality of human thought processes diminishes the accuracy of evidence gathering and verdict determinations. He also suggests ways to rectify this situation. Simon’s approach is simultaneously narrower and broader than Devine’s: narrower in that it focuses solely on the criminal justice system and

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excludes civil law, yet broader in that it covers the psychological processes involved not only in jury decisionmaking but in a number of other important contexts, such as police investigations, interrogations, and eyewitness testimony. Because a relatively small number of criminal (as well as civil) disputes ultimately wind up before a jury, this scope makes the subject matter of In Doubt relevant to a large number of legal actors, including the police who investigate crimes, the witnesses, suspects, and defendants who provide evidence, and the judges and jurors who serve as fact finders at trial. As Simon observes at the book’s outset, “[o]ne of the obvious features of the criminal justice process is that it is operationalized mostly through people: witnesses, detectives, suspects, lawyers, judges, and jurors. . . . Criminal verdicts can be no better than the combined result of the mental operations of the people involved in the process.”

We consider concerns about the mental operations of these legal players throughout this Review.

Simon’s book goes on to examine many of the ways in which those mental operations can, and often do, diminish the accuracy of the process in terms of how the evidence is obtained and used and how that evidence influences verdicts. Simon describes that investigators, in their zeal to resolve cases, can make premature judgments that confirm their suspicions about suspects’ involvement, assess suspects’ truthfulness incorrectly, and conduct interrogations that coerce suspects into confessing falsely. The mistakes can continue when investigators interview eyewitnesses about their memories for details of crimes and identification of the perpetrators as well as during trials when those same eyewitnesses can exert inordinate influence on jurors’ judgments. The chapter on fact-finding at trial, in which this book overlaps most with Jury Decision Making, makes the important point that jurors overweigh factors that have little to no predictive value (e.g., eyewitness confidence) while being relatively insensitive to factors that do predict witness accuracy (e.g., witnessing conditions).

In In Doubt, Simon does an admirable job of summarizing a large volume of literature in a relatively short space. He also provides some prescriptions for remedying errors. Underscoring the emphasis on practicality, each chapter concludes with a useful set of recommended reforms, about which we will have more to say. As the author acknowledges, some of these reforms would require systematic changes (e.g., shifting investigative incentives from clearing crimes to seeking the

10 Simon, supra note 4, at 2.
truth), whereas others are legally complex (e.g., allowing more expert testimony on topics like false confessions and eyewitness memory). But still others are quite feasible and straightforward, such as recording witness interviews and suspect interrogations and thereby increasing transparency throughout the process. Simon argues persuasively that the reforms would improve the accuracy of the criminal justice process and thereby reduce the incidence of false convictions, cases that he uses effectively to illustrate some of the problems with the system in its present form.

That Simon’s book is short on methodological and statistical details will make it less useful to researchers in the field than Devine’s book, which contains more of the methodological nitty-gritty. Conversely, it should be more appealing to a lay audience, including practitioners (e.g., attorneys, judges, police) and policymakers. Taken together, these two books make it abundantly clear that psychological theorizing and experimentation have much to offer the law.

But is the legal system listening? The data on this point are mixed. Eyewitness researchers in particular have had some notable successes lately, as demonstrated by the New Jersey Supreme Court’s decision in State v. Henderson, in which the court recognized and accepted the results of empirical research studies, and revised its standards for assessing eyewitness evidence and instructing jurors in cases involving eyewitness memory. It also supported the increasing admissibility of expert testimony on eyewitness memory. However, courts have been slower to adopt changes based on research on other topics, such as jurors’ difficulty understanding and applying jury instructions.

II. ADDING BEHAVIORAL LAW AND ECONOMICS TO THE MIX

Let’s return to that cartoon. Imagine that an economist has taken the place of the shoe salesman. Would that trio—the lawyer, the psychologist, and the economist—be likely to converse? Based on the growing body of empirical research that relies on experimental methodologies and theories of psychology to understand individual and group choices and judgments of relevance to the law—the field of behavioral law and economics—we suspect that the answer would be a resounding “yes.”

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Over the past forty years, psychologists have observed that humans deviate in predictable ways from rational choice theory—the approach, long dominant in economics and increasingly prominent in sociology, political science, and criminology, that assumes individuals’ choices are internally coherent and logically consistent with their biases and preferences. At its most basic level, rational choice theory assumes that all decisions and actions are fundamentally rational in nature. Yet through empirical research in many domains, including police stations, lawyers’ offices, and courtrooms, psychologists have learned that people rely on heuristics and biases that are often useful in simplifying decisions but that lead to judgmental errors and deviations from rationality. A straightforward example in the law is this: because jurors make decisions about a defendant’s liability in hindsight (i.e., after learning that a plaintiff has been injured, allegedly due to some (in)action on the part of the defendant), their verdict is likely to be influenced by their knowledge of the consequences of the defendant’s actions. In Jury Decision Making, Devine neatly summarizes other instances in which trial-related procedures or individual-difference variables influence outcomes, often in predictably irrational ways, and he provides effect sizes—the strength of the relationships among

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16 See id.
18 Craig R. Fox & Richard Birke, Forecasting Trial Outcomes: Lawyers Assign Higher Probability to Possibilities That Are Described in Greater Detail, 26 LAW & HUM. BEHAV. 159, 162–67 (2002); Jane Goodman-Delahunty et al., Insightful or Wishful: Lawyers’ Ability to Predict Case Outcomes, 16 PSYCHOL. PUB. POL’Y & L. 133, 137 (2010).
20 Rachlinski, supra note 2, at 1686 (noting that “in many important instances, people pull the wrong cognitive tools out of their adaptive toolboxes”).
21 Marylie Karlovac & John M. Darley, Attribution of Responsibility for Accidents: A Negligence Law Analogy, 6 SOC. COGNITION 287, 289–91 (1988); Elizabeth F. Loftus & Lee Roy Beach, Human Inference and Judgment: Is the Glass Half Empty or Half Full?, 34 STAN. L. REV. 939, 949 (1982) (“If the jurors use their newly acquired knowledge to judge what the defendant ... should have known at the time of the accident, they may be more likely to find the [defendant] negligent—a verdict that may be substantially different from one arrived at in the absence of this knowledge.”).
variables—and an assessment of the extent of support in the scholarly literature. Both of these concepts are useful to academic researchers.

Deviations from rational choice theory raise practical concerns about how well laypeople and even some experts can assess choices and make judgments. As Simon explains throughout *In Doubt*, cognitive errors related to legal decisions mean, among other things, that detectives rely on confirmation biases in criminal investigations, criminal jurors are overly reliant on eyewitnesses’ stated confidence in their identifications, civil jurors anchor their monetary judgments on the damage awards suggested by counsel, trial attorneys undervalue the opinions of other lawyers in predicting potential jury verdicts, and judges have difficulty disregarding inadmissible evidence.

Importantly, though, these deviations into apparent irrationality are, to a large extent, predictable, so procedural rules can be designed to reduce their impacts and prevent them from affecting the outcomes of adjudication. But this begs two questions: Which legal decisions are likely to be affected by cognitive biases, and how dramatically can and should the relevant procedures be changed to address this predictable irrationality?

Simon tackles these questions in the context of criminal investigations. He first articulates the mechanisms that can bias criminal investigators’ judgments and then artfully considers ways to revise investigative procedures to counter these biases. In so doing, Simon raises the possibilities that a) investigators could be forced to consider alternative

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hypotheses and explain why they should be rejected,\textsuperscript{27} and b) some team members could offer countertheories to the prevailing hypothesis and spur debate about the strengths and weaknesses of these different options.\textsuperscript{28} He also proposes a far more feasible procedure for enhancing the objectivity of criminal investigations: electronic recordings. Simon suggests that all interactions between investigators and witnesses should be recorded and preserved in their entirety, careful records should be made of all other investigative procedures, including those that lead to deadends, and the complete record of these activities should be made available to all parties involved in cases. According to Simon, the result of creating a complete record of an investigation is a reduction in its adversarial intensity as well as enhanced accuracy and transparency. With an awareness that their decisions would be exposed to outside observers, investigators would adhere to best (or at least better) practices and be deterred from misconduct,\textsuperscript{29} and law enforcement agencies would be incentivized to provide up-to-date training and oversight.

Devine provides other examples of legal decisions that are beset by cognitive bias, and he too suggests a number of procedural remedies. For instance, joinder of criminal charges biases jurors' judgments against a defendant because jurors attribute multiple instances of wrongdoing to a defendant's criminal disposition and confuse evidence relevant to multiple charges. Devine warns that joinder should be used cautiously and, when feasible, avoided altogether. Devine describes studies which show that when multiple charges are leveled against a defendant in a single trial, jurors are unable to compartmentalize the evidence and consider each charge on its own merits. Rather, they become confused about which evidence is associated with which charge and make negative dispositional

\textsuperscript{27} Although the likelihood seems small that investigators would be willing to engage in lateral thinking and generate alternative hypotheses, detectives in the United Kingdom are encouraged to do so. \textit{See} Nat'l Ctr. for Policing Excellence, Practice Advice on Core Investigative Doctrine 2005, at 22–23 (2005). Police officers in Canada have been ordered to take into account "all the information available" and to disregard evidence only if they determine that it is unreliable. \textit{See} Dix v. Canada, 2002 ABQB 580, ¶ 357 (Can.).

\textsuperscript{28} This procedure has been shown to reduce commitment to a previously made choice. Charles R. Schwenk, \textit{Effects of Devil's Advocacy and Dialectical Inquiry on Decision Making: A Meta-Analysis}, 47 ORGANIZATIONAL BEHAV. & HUM. DECISION PROCESSES 161, 163, 168 (1990). It can also reduce "groupthink," whereby social pressures within a group—especially a group with a clear and strong leader—can stifle debate and lead to suboptimal decisions. \textit{See generally} Irving L. Janis, \textit{Groupthink: Psychological Studies of Policy Decisions and Fiascoes} (2d ed. 1982).

inferences about the defendant that increase the likelihood of conviction.\textsuperscript{30} Devine considers but discards the possibility that a simple procedural reform, namely a limiting instruction, could effectively debias these judgments. (Such an instruction would tell jurors to consider only the evidence that is directly relevant to the particular charge for which it applies.) Unfortunately, limiting instructions on this issue—like limiting instructions in general\textsuperscript{31}—have been shown to have little effect on eliminating bias.\textsuperscript{32} Hence, a better procedural recommendation is for judges to sever charges and reduce the likelihood that jurors will make adverse dispositional attributions of defendants charged with multiple offenses.\textsuperscript{33}

Simon and Devine both write about the likelihood that jurors’ decisions regarding a defendant’s guilt can be influenced by the confidence with which a prosecution eyewitness identifies the defendant as the perpetrator. In one study, the confidence expressed by the eyewitness was a stronger predictor of jurors’ verdicts than the accuracy of the identification.\textsuperscript{34} Witnesses who learn that another person has identified the defendant as the perpetrator\textsuperscript{35} and receive otherwise confirming feedback from a lineup administrator\textsuperscript{36} show increased confidence in the accuracy of their identifications—even when that information is fictitious. Such

\begin{footnotesize}
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\item DEVINE, supra note 3, at 61.
\item See, e.g., Sarah Tanford & Steven Penrod, Social Inference Processes in Juror Judgments of Multiple-Offense Trials, 47 J. PERSONALITY & SOC. PSYCHOL. 749, 761 (1984); Greene & Loftus, supra note 30, at 203–04.
\item Edie Greene & Leslie Ellis, Decision Making in Criminal Justice, in APPLYING PSYCHOLOGY TO CRIMINAL JUSTICE 183, 198 (David Carson et al. eds., 2007).
\item Amy L. Bradfield et al., The Damaging Effect of Confirming Feedback on the Relation Between Eyewitness Certainty and Identification Accuracy, 87 J. APPLIED PSYCHOL. 112, 117 (2002).
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feedback also distorts eyewitnesses’ retrospective judgments about their opportunities to view the perpetrators, how much attention was paid, and how easy it was to make identifications. Importantly, these are precisely the sorts of judgments that the U.S. Supreme Court deems essential to determining whether an identification based on suggestive procedures should nonetheless be admissible, thereby compounding the bias.

As both Simon and Devine point out, because witness confidence can have a profound impact on jurors’ willingness to convict, these findings suggest obvious and easily instituted reforms in the ways that eyewitnesses are questioned and lineups are conducted. In Simon’s words:

All identification procedures should be “double-blind”: the administrator must be kept unaware of the identity of the suspect; the witness should be informed that the administrator does not know the suspect’s identity

The administrator should refrain from any communication or behavior that could be interpreted as suggestive or revealing of the identity of the suspect

The witness should announce his recognition or non-recognition, followed immediately by a confidence statement. The witness should not be given feedback before completing the statement.

Returning to the question of how extensive these and other procedural changes should be, some proposed revisions are surely heavy-handed. These include suggestions that because jurors have difficulty translating qualitative assessments into monetary awards, particularly for punitive damages, judges should be used in their place. Other proposals are far


39 SIMON, supra note 4, at 83.


41 Reid Hastie & W. Kip Viscusi, What Juries Can’t Do Well: The Jury’s Performance
less draconian. Examples include urging judges to become aware of prospective jurors’ difficulties in gauging their own susceptibilities to bias and to remain skeptical of jurors’ assurances of impartiality, a common occurrence during voir dire. Still other proposals—for example, that jury instructions be drafted without legalese and that judges provide jurors with helpful responses when asked to clarify the law—are somewhere between these two extremes. Some of these proposals for reducing bias, such as double-blind lineups and more comprehensible jury instructions, would effectively improve the quality of legally relevant decisionmaking. Other reforms, such as requiring eyewitnesses to make immediate confidence judgments or making judges more aware of juror bias, would not necessarily stop predictable irrationality in its tracks. Nonetheless, they would enable the authorities (e.g., police investigators, judges) to place the proper weight on decisions made by witnesses and jurors, thereby indirectly improving the functioning of the system as a whole.

Behavioral decision theorists, in particular, tend to distrust the abilities of various legal decisionmakers and instead favor increased bureaucratic control of their judgments. But the consequence of such paternalistic interventions is reduced reliance on the collective wisdom of the very people entrusted to judge the actions of others. Is there a more restrained and nuanced way to bring legal decisions in line with deductive logic and rational choice theory?

III. NUDGING DECISIONMAKING IN THE LAW

Both legal scholars and economists have advocated for subtly restructuring legal decisions to allow for different thought processes to predominate and thereby to prevent distortions created by cognitive errors. One version of this perspective, outlined in the influential book Nudge: Improving Decisions about Health, Wealth, and Happiness, urges policymakers to consider cognitive biases that are likely to hold sway and to design “choice architectures” through which decisions are structured and


44 THALER & SUNSTEIN, supra note 6, at 17–39.
choices are described in ways that acknowledge these biases. According to Nudge, this work is to be done by “choice architects” whose expertise allows them to design situations in which decisionmakers can make better choices. The notion of choice architecture has caused a significant stir in academic circles and has been implemented in several real-world contexts in which people make less-than-optimal choices, including healthcare, charitable giving, financial planning, and environmental protection. In each of these contexts, choice architects have “nudged” people by imperceptibly changing the decisionmaking task to prompt them to make better choices.

Though not explicitly advocating that the legal system be nudged, Thaler and Sunstein would agree, we believe, that psychological science as offered up by Devine and Simon is inherently relevant to legal decisions and could be used to render those decisions fairer. In fact, we suspect that the economist, lawyer, and psychologist mingling at that cocktail party could easily engage around the notion of nudges in the law, debating the right and wrong ways to nudge, and pondering the ethical and legal consequences of revising the system based on science. We use the remainder of this Review to explore the ways that nudging could be gently used to benefit jury decisionmaking (à la Devine) and the criminal justice process more broadly (à la Simon).

The authors of Nudge, economist Richard H. Thaler and legal scholar Cass R. Sunstein, suggest that nudging can be most beneficial when would-be nudgers have much more “expertise” than decision makers themselves, when the context includes “decisions that are difficult, complex, and infrequent, and when [decisionmakers] have poor feedback and few opportunities for learning.” These conditions are virtually synonymous with most jury trials, given that in contrast to professional (or even lay) judges, jurors typically are selected for their lack of expertise. In the overwhelming majority of instances, they serve in only one trial, are given no feedback on whether the judge or other “experts” would have reached

45 Id. at 3.
47 THALER & SUNSTEIN, supra note 6, at 247.
48 Although lay participation in legal decisionmaking is, on the whole, declining, some countries outside the United States are experiencing success with lay judges. See, e.g., Valerie P. Hans, Introduction: Lay Participation in Legal Decision Making, 25 LAW & POL’Y 83, 87, 88–89 (2003).
the same conclusion, and often have to grapple with difficult material.

A prerequisite for nudging is recognition of the judgmental biases that are likely to arise in various situations and of the details about how they can derail rational decisionmaking. Fortunately, on these issues Devine and Simon have done the heavy lifting for us. For example, Devine explains that when jurors are exposed to inadmissible evidence during trial and instructed to ignore it, they are unable to do so, particularly when the evidence fits with the narrative they favor at the time. Judges typically forge ahead after giving such a directive, with little apparent concern that they just highlighted and underscored the very information they want jurors to disregard. Does choice architecture suggest a better way? Declaring a mistrial and issuing a directed verdict are rarely used (and in the case of mistrials, inefficient) remedies, so attention should focus on preventing exposure to inadmissible evidence in the first place. But it is a staple of televised legal dramas—and probably real trials as well—for attorneys to introduce evidence that they know will be objected to and declared inadmissible, hoping that once the genie is out of the bottle, it cannot be put back in. Devine suggests that preventing exposure can be achieved by various preemptive moves, including increasing the sanctions for attorneys who solicit inadmissible testimony and vetting any questionable material in pretrial hearings or sidebars. Otherwise stated, by nudging the attorneys.

Similarly, Simon describes how confirmation bias in the context of criminal investigations can lead to tunnel vision, whereby a suspect’s mere status as “suspect” early in the investigation can cause investigators to search solely for additional evidence supportive of the suspect’s guilt and to ignore evidence either of his innocence or of another party’s guilt. The bias can lead not only to false convictions (a bad outcome for the innocent suspect) but also to a failure to apprehend the real perpetrators (a bad outcome for other potential victims and society as a whole). Simon recommends combating the bias by implementing strategies (i.e., nudges) such as “promoting a healthy skepticism” and encouraging and welcoming the generation of alternative hypotheses.

Choice architects can also influence decisionmaking by varying the

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49 For an excellent meta-analysis on this point, see Nancy Steblay et al., The Impact on Juror Verdicts of Judicial Instruction to Disregard Inadmissible Evidence: A Meta-Analysis, 30 LAW & HUM. BEHAV. 469 (2006).

50 Simon, supra note 4, at 24.

51 Id. at 45. Simon notes that procedures along these lines already exist in the United Kingdom and Canada. He also observes that motivational biases limit the effectiveness of debiasing in certain situations such as criminal investigations. Id. Nonetheless, it might be just the sort of nudge that can tip an investigation from an inaccurate to an accurate outcome.
structure of the choice task.\textsuperscript{52} One means of accomplishing this is by determining the optimal number and ordering of choice options that will lead to both rational and preferred outcomes without overwhelming decisionmakers’ cognitive capabilities. There are no formulae or recipes for doing so, and the nature of any restructuring will depend on the particular task. But some general recommendations apply, including considering decisionmakers’ willingness to engage in the task fully, their familiarity with important components of various choices, and the complexity of the task.

The importance of task complexity is seen in the results of studies that examine how the consolidation of increasing numbers of plaintiffs in complex tort cases affects jurors’ abilities to reach fair and predictable outcomes to each plaintiff. In one study, mock jurors were able to award compensatory damages consistent with the extent of plaintiffs’ injuries from exposure to contaminated groundwater when the trial involved only four plaintiffs, but they were unable to make appropriate distinctions among those same four plaintiffs when their cases were consolidated with four additional plaintiffs at trial.\textsuperscript{53} Increasing the number of plaintiffs beyond four increased the amount of evidence that jurors had to process and impaired their abilities to attend to each plaintiff’s unique evidence in a particularized manner. These findings provide a clear suggestion to choice architects—such as trial judges—to be wary of the consequences of consolidating multiple parties in the same trial for the sake of efficiency: jurors’ cognitive abilities are quickly overwhelmed and less-than-optimal decisions can result.

This example, and others like it, raise the question of whom, exactly, the choice architects in the legal arena should be. Trial court judges are perhaps the most obvious choice, as they have so much control over issues that can enhance or impair trial fairness, such as joinder/severance, consolidation, and admissibility of evidence. Judges are also impartial, at least theoretically, which lends them an aura of credibility as nudgers, compared to, say, attorneys. However, to the extent that judges themselves are susceptible to cognitive biases,\textsuperscript{54} they might not be in the best position to nudge jurors toward better decisions.

Simon argues that effective reform is difficult because of “two important mindsets that help sustain the process despite its limited accuracy: the marginalization of factual accuracy and the denial of the process’s shortcomings.”\textsuperscript{55} By this, he means that the adversarial process often places

\textsuperscript{53} Irwin A. Horowitz et al., Effects of Trial Complexity on Decision Making, 81 J. APPLIED PSYCHOL. 757, 761–64 (1996).
\textsuperscript{54} See Guthrie et al., supra note 19, at 819–21.
\textsuperscript{55} SIMON, supra note 4, at 209.
procedural rights above accurate verdicts, and that faith in the effectiveness of those procedural safeguards discourages openness to reform. Given the pervasiveness of these mindsets, more than nudging might be necessary.

Policymakers such as state supreme courts and legislatures would seem to be in better positions to serve as choice architects than those in the trenches, like judges and police officers. These rule-making bodies have the power to promulgate evidence-based criminal justice procedures. For example, the U.S. Department of Justice under Attorney General Janet Reno issued guidelines for federal law enforcement to follow in conducting lineup identifications. More recently, the Supreme Courts of New Jersey and Oregon have adopted evidence-based procedures for determining the admissibility of eyewitness identification evidence; and in late 2012, the Florida Supreme Court adopted a new jury instruction on eyewitness identification, the purpose of which is to help jurors in weighing eyewitness testimony. Explicit policies like these might be somewhat stronger than the type of gentle nudge envisioned by Thaler and Sunstein; nonetheless, they will be subtle enough when applied to actual witnesses and jurors in the field, and they are likely to have a salubrious effect.

IV. CONCLUSION

The new books by Simon and Devine can be read in either a pessimistic or an optimistic light. The pessimistic take is that the reasoning engaged in by jurors and other players in the American justice system is fraught with bias and irrationality, which can lead to serious and potentially devastating consequences like false convictions. The optimistic take is that many, and maybe even most of these biases are—if not totally correctable—at least reducible. To get us there, judges and other policymakers might need little more than a gentle nudge in the right direction. Support for that idea comes from Thaler’s and Sunstein’s well-reasoned contention that nudging can improve decisionmaking in many realms. We have tried to show that nudges could also lead to enhanced decisions in the law, and we commend Devine and Simon for providing examples of meaningful nudges. If more behavioral scientists follow their examples, our cartoon protagonists will have much to talk about for many years to come.

58 State v. Lawson, 291 P.3d 673 (Or. 2012).